A reconstruction of Peters's table of logarithms to 7 places (1921)

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Introduction

Johann Theodor Peters (1869–1941) was a German astronomer and computer of mathematical and astronomical tables. In 1910 and 1911, together with Julius Bauschinger, he published the first widely available 8-place table of logarithms [15]. This work was the basis of many later tables, most of which have been reconstructed by us.[1]

The 8-place table was itself based on a 12-place manuscript table, which was again used by Peters in the preparation of a new 7-place table of logarithms of trigonometrical functions for every second of the quadrant and published in 1911 [36].

In 1919, Peters published a table of the logarithms of the trigonometrical functions to 10 places for every thousandth of a degree [42]. This table was based on another 12-place table extracted from Briggs's table [17].

The 12-place table was in turn used as a basis for two new tables, the present 7-place table, and another one giving the logarithms to six places [43], both published in 1921, and with an identical layout. Both tables give the logarithms at 0°.001 intervals. The rounded values had to be recomputed in a few instances.

The main purpose of this new 7-place table was to provide a table with easy interpolation, as the interval between values is 3.6″, that is a thousandth of a degree.

Each page gives the four functions sine, cosine, tangent and cotangent for 51 consecutive angular values. The values of the auxiliary functions

$$S = \log\left(\frac{\sin x}{x}\right) + 10 \tag{1}$$

$$T = \log\left(\frac{\tan x}{x}\right) + 10 \tag{2}$$

are given from 0° to 1°, x being in degrees. Differences and interpolation tables are given in certain ranges.

The volume ends with an extensive summary of trigonometric formulæ, as well as methods for solving equations, tables of mathematical and geodetical constants, and a table for the conversion of fractions of degrees into sexagesimal minutes and seconds. These tables have not (yet) been reproduced in our reconstruction. They were reused in Peters's last published volume in 1941 [57].

Our reconstruction has not revealed errors, but we have not made a systematic comparison between the original table and the reconstruction. One minor error which was discovered is an extraneous interpolation table for the difference 282 on the range 16°.150—16°.200, when no such difference appears in that range. We have decided to keep that unnecessary table in the reconstruction.

[1] For more information on Peters's tables, we refer the reader to our summary [90].

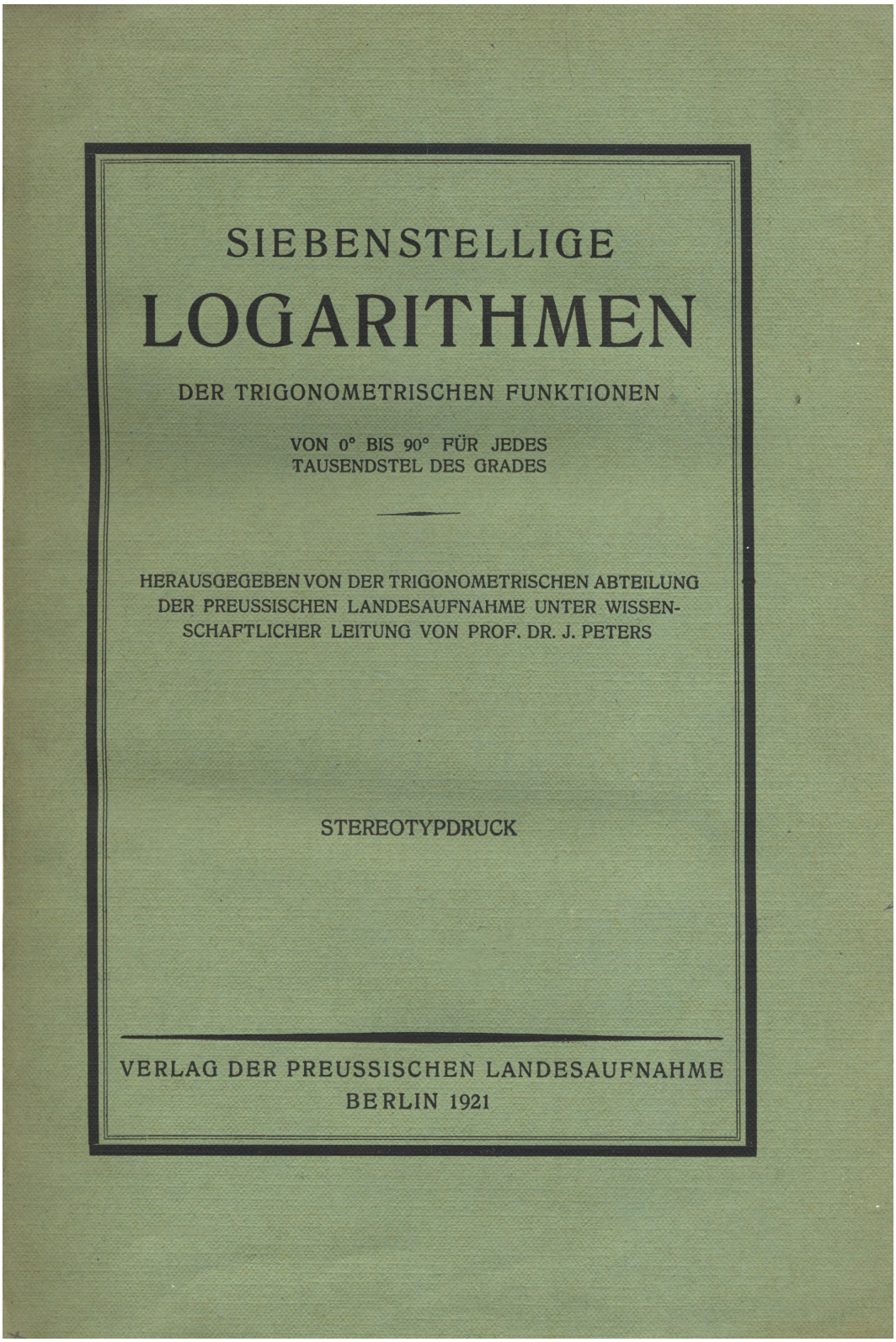
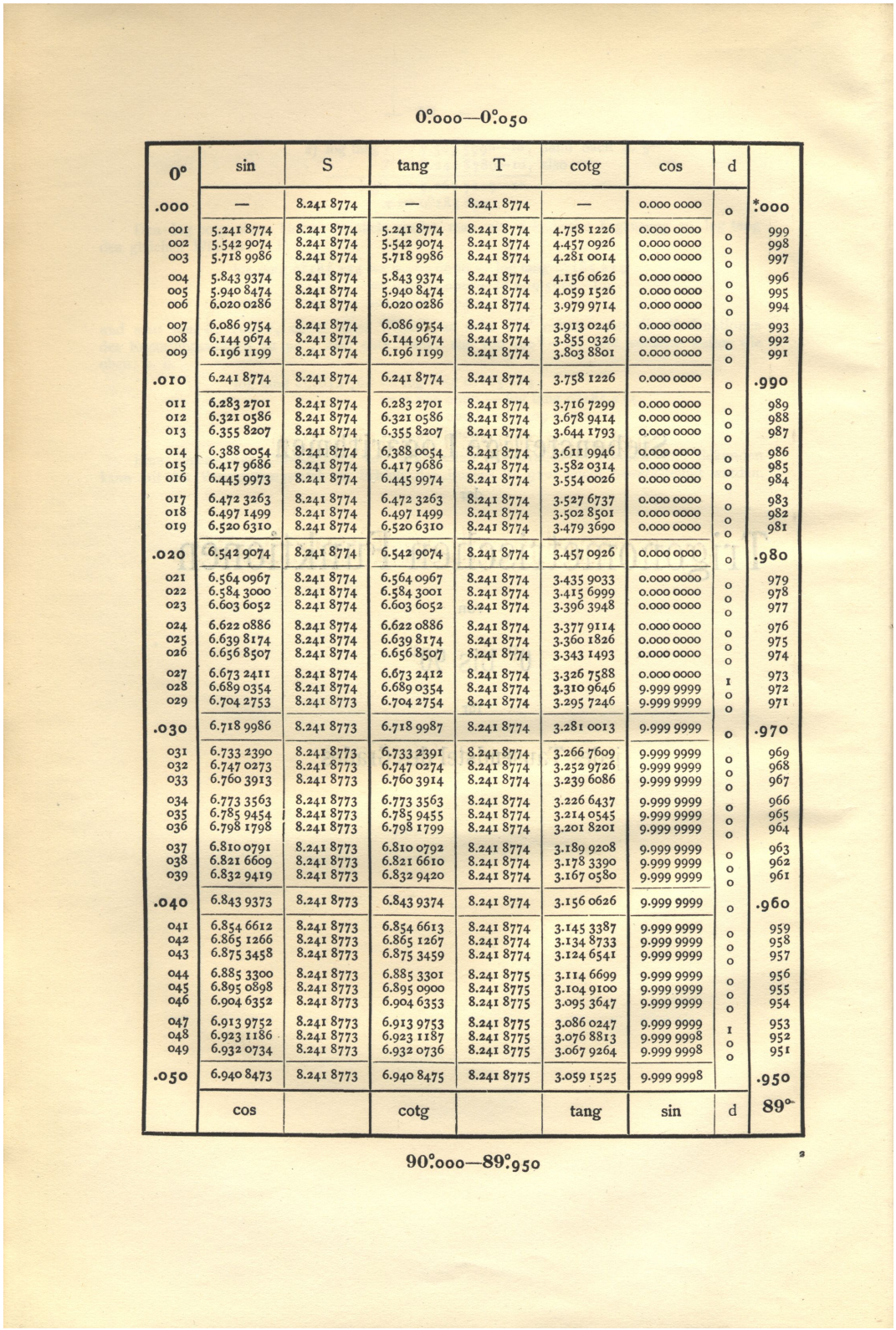


Figure 1: Cover page of Peters's table.

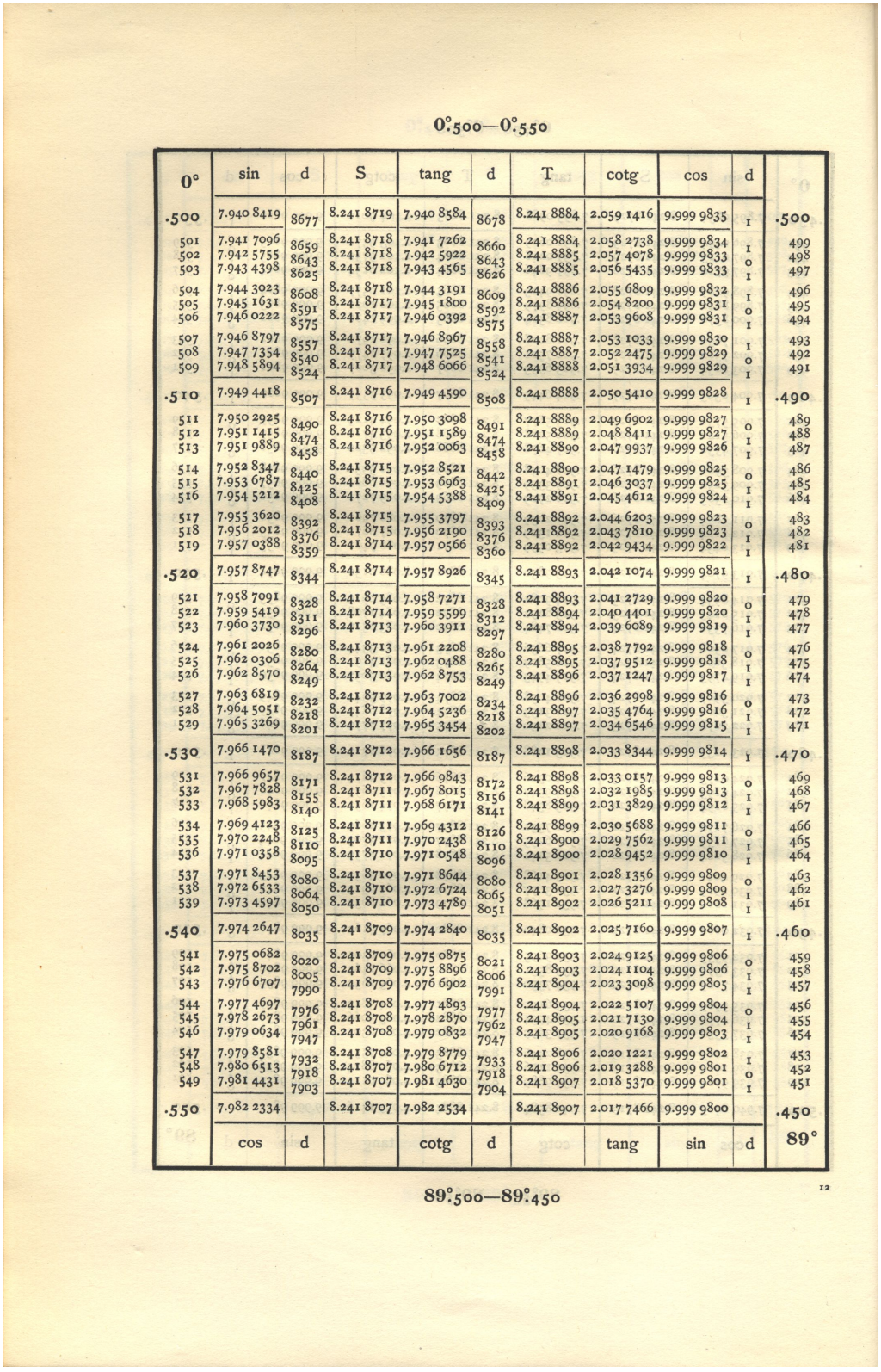


0°.000—0°.050

0°	sin	S	tang	T	cotg	cos	d	
.000	—	8.241 8774	—	8.241 8774	—	0.000 0000	o	*000
001	5.241 8774	8.241 8774	5.241 8774	8.241 8774	4.758 1226	0.000 0000	o	999
002	5.542 9074	8.241 8774	5.542 9074	8.241 8774	4.457 0926	0.000 0000	o	998
003	5.718 9986	8.241 8774	5.718 9986	8.241 8774	4.281 0014	0.000 0000	o	997
004	5.843 9374	8.241 8774	5.843 9374	8.241 8774	4.156 0626	0.000 0000	o	996
005	5.940 8474	8.241 8774	5.940 8474	8.241 8774	4.059 1526	0.000 0000	o	995
006	6.020 0286	8.241 8774	6.020 0286	8.241 8774	3.979 9714	0.000 0000	o	994
007	6.086 9754	8.241 8774	6.086 9754	8.241 8774	3.913 0246	0.000 0000	o	993
008	6.144 9674	8.241 8774	6.144 9674	8.241 8774	3.855 0326	0.000 0000	o	992
009	6.196 1199	8.241 8774	6.196 1199	8.241 8774	3.803 8801	0.000 0000	o	991
.010	6.241 8774	8.241 8774	6.241 8774	8.241 8774	3.758 1226	0.000 0000	o	.990
011	6.283 2701	8.241 8774	6.283 2701	8.241 8774	3.716 7299	0.000 0000	o	989
012	6.321 0586	8.241 8774	6.321 0586	8.241 8774	3.678 9414	0.000 0000	o	988
013	6.355 8207	8.241 8774	6.355 8207	8.241 8774	3.644 1793	0.000 0000	o	987
014	6.388 0054	8.241 8774	6.388 0054	8.241 8774	3.611 9946	0.000 0000	o	986
015	6.417 9686	8.241 8774	6.417 9686	8.241 8774	3.582 0314	0.000 0000	o	985
016	6.445 9973	8.241 8774	6.445 9974	8.241 8774	3.554 0026	0.000 0000	o	984
017	6.472 3263	8.241 8774	6.472 3263	8.241 8774	3.527 6737	0.000 0000	o	983
018	6.497 1499	8.241 8774	6.497 1499	8.241 8774	3.502 8501	0.000 0000	o	982
019	6.520 6310	8.241 8774	6.520 6310	8.241 8774	3.479 3690	0.000 0000	o	981
.020	6.542 9074	8.241 8774	6.542 9074	8.241 8774	3.457 0926	0.000 0000	o	.980
021	6.564 0967	8.241 8774	6.564 0967	8.241 8774	3.435 9033	0.000 0000	o	979
022	6.584 3000	8.241 8774	6.584 3001	8.241 8774	3.415 6999	0.000 0000	o	978
023	6.603 6052	8.241 8774	6.603 6052	8.241 8774	3.396 3948	0.000 0000	o	977
024	6.622 0886	8.241 8774	6.622 0886	8.241 8774	3.377 9114	0.000 0000	o	976
025	6.639 8174	8.241 8774	6.639 8174	8.241 8774	3.360 1826	0.000 0000	o	975
026	6.656 8507	8.241 8774	6.656 8507	8.241 8774	3.343 1493	0.000 0000	o	974
027	6.673 2411	8.241 8774	6.673 2412	8.241 8774	3.326 7588	0.000 0000	1	973
028	6.689 0354	8.241 8774	6.689 0354	8.241 8774	3.310 9646	9.999 9999	o	972
029	6.704 2753	8.241 8773	6.704 2754	8.241 8774	3.295 7246	9.999 9999	o	971
.030	6.718 9986	8.241 8773	6.718 9987	8.241 8774	3.281 0013	9.999 9999	o	.970
031	6.733 2390	8.241 8773	6.733 2391	8.241 8774	3.266 7609	9.999 9999	o	969
032	6.747 0273	8.241 8773	6.747 0274	8.241 8774	3.252 9726	9.999 9999	o	968
033	6.760 3913	8.241 8773	6.760 3914	8.241 8774	3.239 6086	9.999 9999	o	967
034	6.773 3563	8.241 8773	6.773 3563	8.241 8774	3.226 6437	9.999 9999	o	966
035	6.785 9454	8.241 8773	6.785 9455	8.241 8774	3.214 0545	9.999 9999	o	965
036	6.798 1798	8.241 8773	6.798 1799	8.241 8774	3.201 8201	9.999 9999	o	964
037	6.810 0791	8.241 8773	6.810 0792	8.241 8774	3.189 9208	9.999 9999	o	963
038	6.821 6609	8.241 8773	6.821 6610	8.241 8774	3.178 3390	9.999 9999	o	962
039	6.832 9419	8.241 8773	6.832 9420	8.241 8774	3.167 0580	9.999 9999	o	961
.040	6.843 9373	8.241 8773	6.843 9374	8.241 8774	3.156 0626	9.999 9999	o	.960
041	6.854 6612	8.241 8773	6.854 6613	8.241 8774	3.145 3387	9.999 9999	o	959
042	6.865 1266	8.241 8773	6.865 1267	8.241 8774	3.134 8733	9.999 9999	o	958
043	6.875 3458	8.241 8773	6.875 3459	8.241 8774	3.124 6541	9.999 9999	o	957
044	6.885 3300	8.241 8773	6.885 3301	8.241 8775	3.114 6699	9.999 9999	o	956
045	6.895 0898	8.241 8773	6.895 0900	8.241 8775	3.104 9100	9.999 9999	o	955
046	6.904 6352	8.241 8773	6.904 6353	8.241 8775	3.095 3647	9.999 9999	o	954
047	6.913 9752	8.241 8773	6.913 9753	8.241 8775	3.086 0247	9.999 9999	1	953
048	6.923 1186	8.241 8773	6.923 1187	8.241 8775	3.076 8813	9.999 9998	o	952
049	6.932 0734	8.241 8773	6.932 0736	8.241 8775	3.067 9264	9.999 9998	o	951
.050	6.940 8473	8.241 8773	6.940 8475	8.241 8775	3.059 1525	9.999 9998		.950
	cos		cotg		tang	sin	d	89°

90°.000—89°.950

Figure 2: Excerpt of Peters's table.



0°.500—0°.550

0°	sin	d	S	tang	d	T	cotg	cos	d	
·500	7.940 8419	8677	8.241 8719	7.940 8584	8678	8.241 8884	2.059 1416	9.999 9835	1	·500
501	7.941 7096	8659	8.241 8718	7.941 7262	8660	8.241 8884	2.058 2738	9.999 9834	1	499
502	7.942 5755	8643	8.241 8718	7.942 5922	8643	8.241 8885	2.057 4078	9.999 9833	0	498
503	7.943 4398	8625	8.241 8718	7.943 4565	8626	8.241 8885	2.056 5435	9.999 9833	1	497
504	7.944 3023	8608	8.241 8718	7.944 3191	8609	8.241 8886	2.055 6809	9.999 9832	1	496
505	7.945 1631	8591	8.241 8717	7.945 1800	8592	8.241 8886	2.054 8200	9.999 9831	0	495
506	7.946 0222	8575	8.241 8717	7.946 0392	8575	8.241 8887	2.053 9608	9.999 9831	1	494
507	7.946 8797	8557	8.241 8717	7.946 8967	8558	8.241 8887	2.053 1033	9.999 9830	1	493
508	7.947 7354	8540	8.241 8717	7.947 7525	8541	8.241 8887	2.052 2475	9.999 9829	0	492
509	7.948 5894	8524	8.241 8717	7.948 6066	8524	8.241 8888	2.051 3934	9.999 9829	1	491
·510	7.949 4418	8507	8.241 8716	7.949 4590	8508	8.241 8888	2.050 5410	9.999 9828	1	·490
511	7.950 2925	8490	8.241 8716	7.950 3098	8491	8.241 8889	2.049 6902	9.999 9827	0	489
512	7.951 1415	8474	8.241 8716	7.951 1589	8474	8.241 8889	2.048 8411	9.999 9827	1	488
513	7.951 9889	8458	8.241 8716	7.952 0063	8458	8.241 8890	2.047 9937	9.999 9826	1	487
514	7.952 8347	8440	8.241 8715	7.952 8521	8442	8.241 8890	2.047 1479	9.999 9825	0	486
515	7.953 6787	8425	8.241 8715	7.953 6963	8425	8.241 8891	2.046 3037	9.999 9825	1	485
516	7.954 5212	8408	8.241 8715	7.954 5388	8409	8.241 8891	2.045 4612	9.999 9824	1	484
517	7.955 3620	8392	8.241 8715	7.955 3797	8393	8.241 8892	2.044 6203	9.999 9823	0	483
518	7.956 2012	8376	8.241 8715	7.956 2190	8376	8.241 8892	2.043 7810	9.999 9823	1	482
519	7.957 0388	8359	8.241 8714	7.957 0566	8360	8.241 8892	2.042 9434	9.999 9822	1	481
·520	7.957 8747	8344	8.241 8714	7.957 8926	8345	8.241 8893	2.042 1074	9.999 9821	1	·480
521	7.958 7091	8328	8.241 8714	7.958 7271	8328	8.241 8893	2.041 2729	9.999 9820	0	479
522	7.959 5419	8311	8.241 8714	7.959 5599	8312	8.241 8894	2.040 4401	9.999 9820	1	478
523	7.960 3730	8296	8.241 8713	7.960 3911	8297	8.241 8894	2.039 6089	9.999 9819	1	477
524	7.961 2026	8280	8.241 8713	7.961 2208	8280	8.241 8895	2.038 7792	9.999 9818	0	476
525	7.962 0306	8264	8.241 8713	7.962 0488	8265	8.241 8895	2.037 9512	9.999 9818	1	475
526	7.962 8570	8249	8.241 8713	7.962 8753	8249	8.241 8896	2.037 1247	9.999 9817	1	474
527	7.963 6819	8232	8.241 8712	7.963 7002	8234	8.241 8896	2.036 2998	9.999 9816	0	473
528	7.964 5051	8218	8.241 8712	7.964 5236	8218	8.241 8897	2.035 4764	9.999 9816	1	472
529	7.965 3269	8201	8.241 8712	7.965 3454	8202	8.241 8897	2.034 6546	9.999 9815	1	471
·530	7.966 1470	8187	8.241 8712	7.966 1656	8187	8.241 8898	2.033 8344	9.999 9814	1	·470
531	7.966 9657	8171	8.241 8712	7.966 9843	8172	8.241 8898	2.033 0157	9.999 9813	0	469
532	7.967 7828	8155	8.241 8711	7.967 8015	8156	8.241 8898	2.032 1985	9.999 9813	1	468
533	7.968 5983	8140	8.241 8711	7.968 6171	8141	8.241 8899	2.031 3829	9.999 9812	1	467
534	7.969 4123	8125	8.241 8711	7.969 4312	8126	8.241 8899	2.030 5688	9.999 9811	0	466
535	7.970 2248	8110	8.241 8711	7.970 2438	8110	8.241 8900	2.029 7562	9.999 9811	1	465
536	7.971 0358	8095	8.241 8710	7.971 0548	8096	8.241 8900	2.028 9452	9.999 9810	1	464
537	7.971 8453	8080	8.241 8710	7.971 8644	8080	8.241 8901	2.028 1356	9.999 9809	0	463
538	7.972 6533	8064	8.241 8710	7.972 6724	8065	8.241 8901	2.027 3276	9.999 9809	1	462
539	7.973 4597	8050	8.241 8710	7.973 4789	8051	8.241 8902	2.026 5211	9.999 9808	1	461
·540	7.974 2647	8035	8.241 8709	7.974 2840	8035	8.241 8902	2.025 7160	9.999 9807	1	·460
541	7.975 0682	8020	8.241 8709	7.975 0875	8021	8.241 8903	2.024 9125	9.999 9806	0	459
542	7.975 8702	8005	8.241 8709	7.975 8896	8006	8.241 8903	2.024 1104	9.999 9806	1	458
543	7.976 6707	7990	8.241 8709	7.976 6902	7991	8.241 8904	2.023 3098	9.999 9805	1	457
544	7.977 4697	7976	8.241 8708	7.977 4893	7977	8.241 8904	2.022 5107	9.999 9804	0	456
545	7.978 2673	7961	8.241 8708	7.978 2870	7962	8.241 8905	2.021 7130	9.999 9804	1	455
546	7.979 0634	7947	8.241 8708	7.979 0832	7947	8.241 8905	2.020 9168	9.999 9803	1	454
547	7.979 8581	7932	8.241 8708	7.979 8779	7933	8.241 8906	2.020 1221	9.999 9802	1	453
548	7.980 6513	7918	8.241 8707	7.980 6712	7918	8.241 8906	2.019 3288	9.999 9801	0	452
549	7.981 4431	7903	8.241 8707	7.981 4630	7904	8.241 8907	2.018 5370	9.999 9801	1	451
·550	7.982 2334		8.241 8707	7.982 2534		8.241 8907	2.017 7466	9.999 9800		·450
	cos	d		cotg	d		tang	sin	d	89°

89°.500—89°.450

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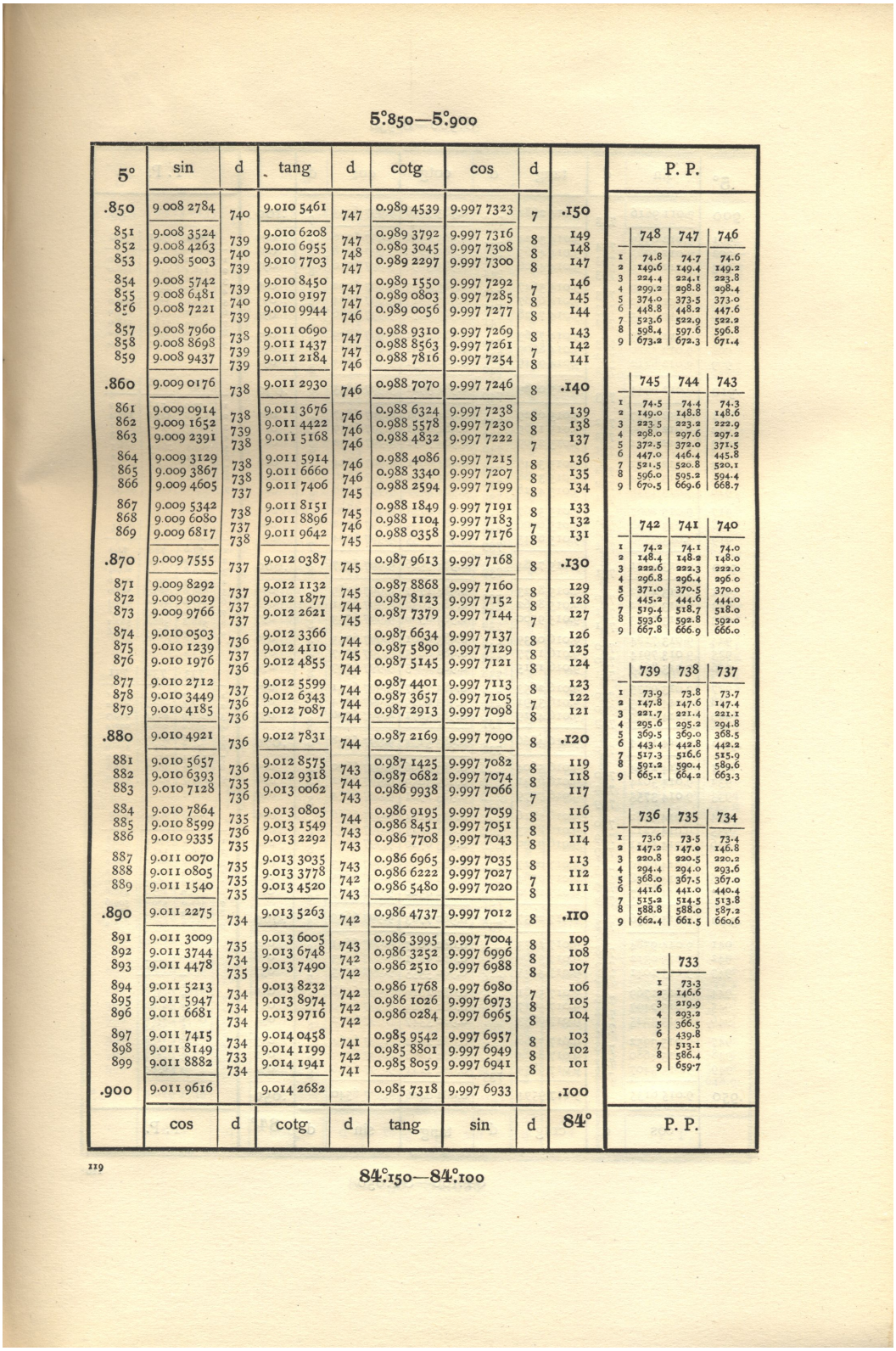
Figure 3: Excerpt of Peters's table.



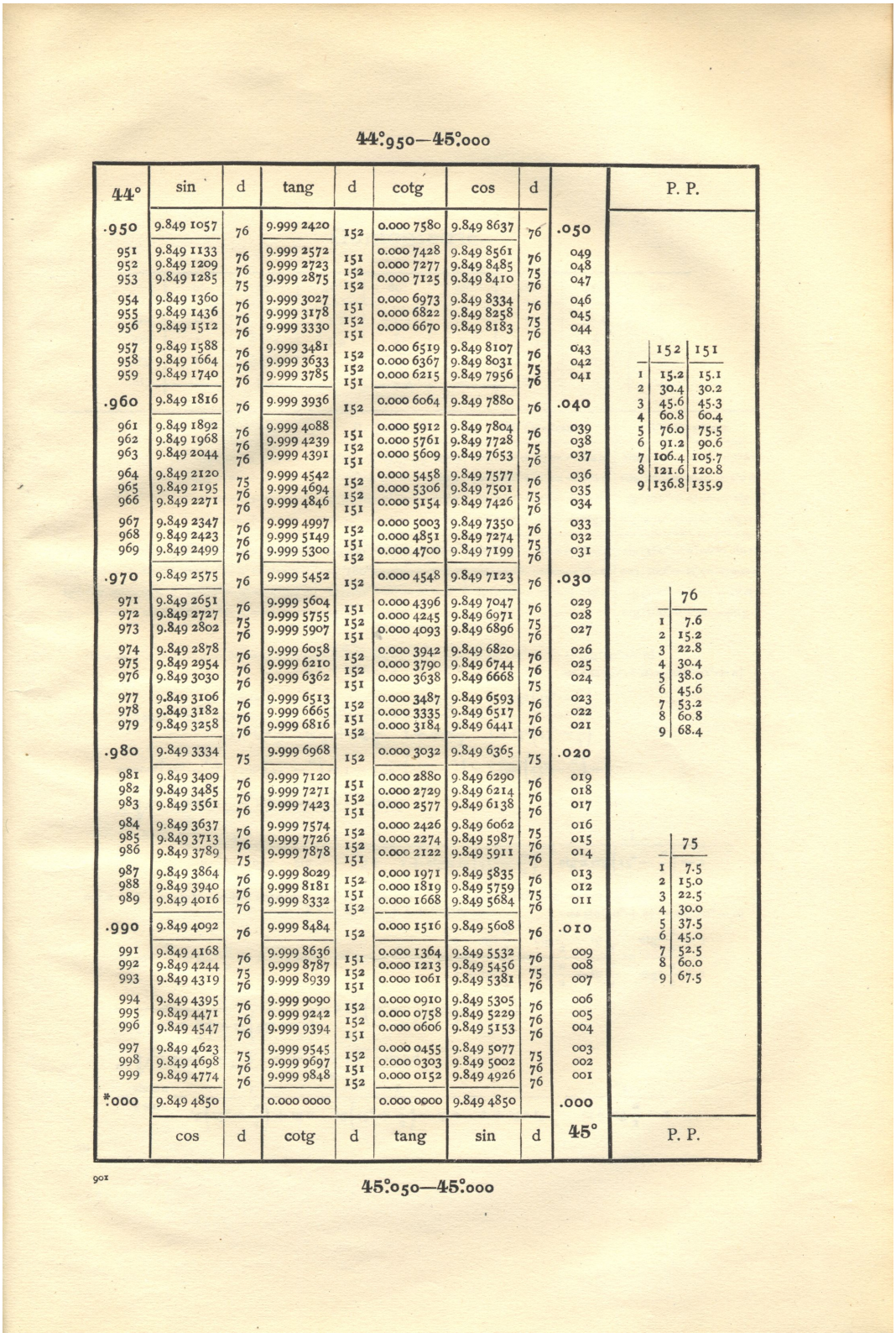
5°.850—5°.900

5°	sin	d	tang	d	cotg	cos	d		P. P.
.850	9.008 2784	740	9.010 5461	747	0.989 4539	9.997 7323	7	.150	
851	9.008 3524	739	9.010 6208	747	0.989 3792	9.997 7316	8	149	748 747 746
852	9.008 4263	740	9.010 6955	748	0.989 3045	9.997 7308	8	148	1 74.8 74.7 74.6
853	9.008 5003	739	9.010 7703	747	0.989 2297	9.997 7300	8	147	2 149.6 149.4 149.2
854	9.008 5742	739	9.010 8450	747	0.989 1550	9.997 7292	7	146	3 224.4 224.1 223.8
855	9.008 6481	740	9.010 9197	747	0.989 0803	9.997 7285	8	145	4 299.2 298.8 298.4
856	9.008 7221	739	9.010 9944	746	0.989 0056	9.997 7277	8	144	5 374.0 373.5 373.0
857	9.008 7960	738	9.011 0690	747	0.988 9310	9.997 7269	8	143	6 448.8 448.2 447.6
858	9.008 8698	739	9.011 1437	747	0.988 8563	9.997 7261	7	142	7 523.6 522.9 522.2
859	9.008 9437	739	9.011 2184	746	0.988 7816	9.997 7254	8	141	8 598.4 597.6 596.8
.860	9.009 0176	738	9.011 2930	746	0.988 7070	9.997 7246	8	.140	9 673.2 672.3 671.4
861	9.009 0914	738	9.011 3676	746	0.988 6324	9.997 7238	8	139	745 744 743
862	9.009 1652	739	9.011 4422	746	0.988 5578	9.997 7230	8	138	1 74.5 74.4 74.3
863	9.009 2391	738	9.011 5168	746	0.988 4832	9.997 7222	7	137	2 149.0 148.8 148.6
864	9.009 3129	738	9.011 5914	746	0.988 4086	9.997 7215	8	136	3 223.5 223.2 222.9
865	9.009 3867	738	9.011 6660	746	0.988 3340	9.997 7207	8	135	4 298.0 297.6 297.2
866	9.009 4605	737	9.011 7406	745	0.988 2594	9.997 7199	8	134	5 372.5 372.0 371.5
867	9.009 5342	738	9.011 8151	745	0.988 1849	9.997 7191	8	133	6 447.0 446.4 445.8
868	9.009 6080	737	9.011 8896	746	0.988 1104	9.997 7183	7	132	7 521.5 520.8 520.1
869	9.009 6817	738	9.011 9642	745	0.988 0358	9.997 7176	8	131	8 596.0 595.2 594.4
.870	9.009 7555	737	9.012 0387	745	0.987 9613	9.997 7168	8	.130	9 670.5 669.6 668.7
871	9.009 8292	737	9.012 1132	745	0.987 8868	9.997 7160	8	129	742 741 740
872	9.009 9029	737	9.012 1877	744	0.987 8123	9.997 7152	8	128	1 74.2 74.1 74.0
873	9.009 9766	737	9.012 2621	745	0.987 7379	9.997 7144	7	127	2 148.4 148.2 148.0
874	9.010 0503	736	9.012 3366	744	0.987 6634	9.997 7137	8	126	3 222.6 222.3 222.0
875	9.010 1239	737	9.012 4110	745	0.987 5890	9.997 7129	8	125	4 296.8 296.4 296.0
876	9.010 1976	736	9.012 4855	744	0.987 5145	9.997 7121	8	124	5 371.0 370.5 370.0
877	9.010 2712	737	9.012 5599	744	0.987 4401	9.997 7113	8	123	6 445.2 444.6 444.0
878	9.010 3449	736	9.012 6343	744	0.987 3657	9.997 7105	7	122	7 519.4 518.7 518.0
879	9.010 4185	736	9.012 7087	744	0.987 2913	9.997 7098	8	121	8 593.6 592.8 592.0
.880	9.010 4921	736	9.012 7831	744	0.987 2169	9.997 7090	8	.120	9 667.8 666.9 666.0
881	9.010 5657	736	9.012 8575	743	0.987 1425	9.997 7082	8	119	739 738 737
882	9.010 6393	735	9.012 9318	744	0.987 0682	9.997 7074	8	118	1 73.9 73.8 73.7
883	9.010 7128	736	9.013 0062	743	0.986 9938	9.997 7066	7	117	2 147.8 147.6 147.4
884	9.010 7864	735	9.013 0805	744	0.986 9195	9.997 7059	8	116	3 221.7 221.4 221.1
885	9.010 8599	736	9.013 1549	743	0.986 8451	9.997 7051	8	115	4 295.6 295.2 294.8
886	9.010 9335	735	9.013 2292	743	0.986 7708	9.997 7043	8	114	5 369.5 369.0 368.5
887	9.011 0070	735	9.013 3035	743	0.986 6965	9.997 7035	8	113	6 443.4 442.8 442.2
888	9.011 0805	735	9.013 3778	742	0.986 6222	9.997 7027	7	112	7 517.3 516.6 515.9
889	9.011 1540	735	9.013 4520	743	0.986 5480	9.997 7020	8	111	8 591.2 590.4 589.6
.890	9.011 2275	734	9.013 5263	742	0.986 4737	9.997 7012	8	.110	9 665.1 664.2 663.3
891	9.011 3009	735	9.013 6005	743	0.986 3995	9.997 7004	8	109	736 735 734
892	9.011 3744	734	9.013 6748	742	0.986 3252	9.997 6996	8	108	1 73.6 73.5 73.4
893	9.011 4478	735	9.013 7490	742	0.986 2510	9.997 6988	8	107	2 147.2 147.0 146.8
894	9.011 5213	734	9.013 8232	742	0.986 1768	9.997 6980	7	106	3 220.8 220.5 220.2
895	9.011 5947	734	9.013 8974	742	0.986 1026	9.997 6973	8	105	4 294.4 294.0 293.6
896	9.011 6681	734	9.013 9716	742	0.986 0284	9.997 6965	8	104	5 368.0 367.5 367.0
897	9.011 7415	734	9.014 0458	741	0.985 9542	9.997 6957	8	103	6 441.6 441.0 440.4
898	9.011 8149	733	9.014 1199	742	0.985 8801	9.997 6949	8	102	7 515.2 514.5 513.8
899	9.011 8882	734	9.014 1941	741	0.985 8059	9.997 6941	8	101	8 588.8 588.0 587.2
.900	9.011 9616		9.014 2682		0.985 7318	9.997 6933		.100	9 662.4 661.5 660.6
	cos	d	cotg	d	tang	sin	d	84°	P. P.

	733
1	73.3
2	146.6
3	219.9
4	293.2
5	366.5
6	439.8
7	513.1
8	586.4
9	659.7

84°.150—84°.100

Figure 4: Excerpt of Peters's table.



44°.950—45°.000

44°	sin	d	tang	d	cotg	cos	d		P. P.
.950	9.849 1057	76	9.999 2420	152	0.000 7580	9.849 8637	76	.050	
951	9.849 1133	76	9.999 2572	151	0.000 7428	9.849 8561	76	049	
952	9.849 1209	76	9.999 2723	152	0.000 7277	9.849 8485	75	048	
953	9.849 1285	75	9.999 2875	152	0.000 7125	9.849 8410	76	047	
954	9.849 1360	76	9.999 3027	151	0.000 6973	9.849 8334	76	046	
955	9.849 1436	76	9.999 3178	152	0.000 6822	9.849 8258	75	045	
956	9.849 1512	76	9.999 3330	151	0.000 6670	9.849 8183	76	044	
957	9.849 1588	76	9.999 3481	152	0.000 6519	9.849 8107	76	043	
958	9.849 1664	76	9.999 3633	152	0.000 6367	9.849 8031	75	042	
959	9.849 1740	76	9.999 3785	151	0.000 6215	9.849 7956	76	041	
.960	9.849 1816	76	9.999 3936	152	0.000 6064	9.849 7880	76	.040	
961	9.849 1892	76	9.999 4088	151	0.000 5912	9.849 7804	76	039	
962	9.849 1968	76	9.999 4239	152	0.000 5761	9.849 7728	75	038	
963	9.849 2044	76	9.999 4391	151	0.000 5609	9.849 7653	76	037	
964	9.849 2120	75	9.999 4542	152	0.000 5458	9.849 7577	76	036	
965	9.849 2195	76	9.999 4694	152	0.000 5306	9.849 7501	75	035	
966	9.849 2271	76	9.999 4846	151	0.000 5154	9.849 7426	76	034	
967	9.849 2347	76	9.999 4997	152	0.000 5003	9.849 7350	76	033	
968	9.849 2423	76	9.999 5149	151	0.000 4851	9.849 7274	75	032	
969	9.849 2499	76	9.999 5300	152	0.000 4700	9.849 7199	76	031	
.970	9.849 2575	76	9.999 5452	152	0.000 4548	9.849 7123	76	.030	
971	9.849 2651	76	9.999 5604	151	0.000 4396	9.849 7047	76	029	
972	9.849 2727	75	9.999 5755	152	0.000 4245	9.849 6971	75	028	
973	9.849 2802	76	9.999 5907	151	0.000 4093	9.849 6896	76	027	
974	9.849 2878	76	9.999 6058	152	0.000 3942	9.849 6820	76	026	
975	9.849 2954	76	9.999 6210	152	0.000 3790	9.849 6744	76	025	
976	9.849 3030	76	9.999 6362	151	0.000 3638	9.849 6668	75	024	
977	9.849 3106	76	9.999 6513	152	0.000 3487	9.849 6593	76	023	
978	9.849 3182	76	9.999 6665	151	0.000 3335	9.849 6517	76	022	
979	9.849 3258	76	9.999 6816	152	0.000 3184	9.849 6441	76	021	
.980	9.849 3334	75	9.999 6968	152	0.000 3032	9.849 6365	75	.020	
981	9.849 3409	76	9.999 7120	151	0.000 2880	9.849 6290	76	019	
982	9.849 3485	76	9.999 7271	152	0.000 2729	9.849 6214	76	018	
983	9.849 3561	76	9.999 7423	151	0.000 2577	9.849 6138	76	017	
984	9.849 3637	76	9.999 7574	152	0.000 2426	9.849 6062	75	016	
985	9.849 3713	76	9.999 7726	152	0.000 2274	9.849 5987	76	015	
986	9.849 3789	75	9.999 7878	151	0.000 2122	9.849 5911	76	014	
987	9.849 3864	76	9.999 8029	152	0.000 1971	9.849 5835	76	013	
988	9.849 3940	76	9.999 8181	151	0.000 1819	9.849 5759	75	012	
989	9.849 4016	76	9.999 8332	152	0.000 1668	9.849 5684	76	011	
.990	9.849 4092	76	9.999 8484	152	0.000 1516	9.849 5608	76	.010	
991	9.849 4168	76	9.999 8636	151	0.000 1364	9.849 5532	76	009	
992	9.849 4244	75	9.999 8787	152	0.000 1213	9.849 5456	75	008	
993	9.849 4319	76	9.999 8939	151	0.000 1061	9.849 5381	76	007	
994	9.849 4395	76	9.999 9090	152	0.000 0910	9.849 5305	76	006	
995	9.849 4471	76	9.999 9242	152	0.000 0758	9.849 5229	76	005	
996	9.849 4547	76	9.999 9394	151	0.000 0606	9.849 5153	76	004	
997	9.849 4623	75	9.999 9545	152	0.000 0455	9.849 5077	75	003	
998	9.849 4698	76	9.999 9697	151	0.000 0303	9.849 5002	76	002	
999	9.849 4774	76	9.999 9848	152	0.000 0152	9.849 4926	76	001	
*.000	9.849 4850		0.000 0000		0.000 0000	9.849 4850		.000	
	cos	d	cotg	d	tang	sin	d	45°	P. P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	76
1	7.6
2	15.2
3	22.8
4	30.4
5	38.0
6	45.6
7	53.2
8	60.8
9	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

901

45°.050—45°.000

Figure 5: Excerpt of Peters's table.

References

The following list covers the most important references[2] related to Peters's table. Not all items of this list are mentioned in the text, and the sources which have not been seen are marked so. We have added notes about the contents of the articles in certain cases.

[1] ???? On the eight-figure table of Peters and Comrie. *Mathematical Tables and other Aids to Computation*, 1(2):64–65, 1943. [The title is ours, and there are actually two notices, on the accuracy of the table published in 1939 [55], and its comparison with other tables.]

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[3] Marie Henri Andoyer. *Nouvelles tables trigonométriques fondamentales contenant les valeurs naturelles des lignes trigonométriques....* Paris: Librairie A. Hermann et fils, 1915–1918. [3 volumes, reconstruction by D. Roegel in 2010 [66].]

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[2] **Note on the titles of the works:** Original titles come with many idiosyncrasies and features (line splitting, size, fonts, etc.) which can often not be reproduced in a list of references. It has therefore seemed pointless to capitalize works according to conventions which not only have no relation with the original work, but also do not restore the title entirely. In the following list of references, most title words (except in German) will therefore be left uncapitalized. The names of the authors have also been homogenized and initials expanded, as much as possible.

The reader should keep in mind that this list is not meant as a facsimile of the original works. The original style information could no doubt have been added as a note, but we have not done it here.

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0°.000 — 0°.050

0°	sin	S	tang	T	cotg	cos	d	
.000	—	8.241 8774	—	8.241 8774	—	0.000 0000		***000**
001	5.241 8774	8.241 8774	5.241 8774	8.241 8774	4.758 1226	0.000 0000	0	999
002	5.542 9074	8.241 8774	5.542 9074	8.241 8774	4.457 0926	0.000 0000	0	998
003	5.718 9986	8.241 8774	5.718 9986	8.241 8774	4.281 0014	0.000 0000	0	997
004	5.843 9374	8.241 8774	5.843 9374	8.241 8774	4.156 0626	0.000 0000	0	996
005	5.940 8474	8.241 8774	5.940 8474	8.241 8774	4.059 1526	0.000 0000	0	995
006	6.020 0286	8.241 8774	6.020 0286	8.241 8774	3.979 9714	0.000 0000	0	994
007	6.086 9754	8.241 8774	6.086 9754	8.241 8774	3.913 0246	0.000 0000	0	993
008	6.144 9674	8.241 8774	6.144 9674	8.241 8774	3.855 0326	0.000 0000	0	992
009	6.196 1199	8.241 8774	6.196 1199	8.241 8774	3.803 8801	0.000 0000	0	991
.010	6.241 8774	8.241 8774	6.241 8774	8.241 8774	3.758 1226	0.000 0000	0	**.990**
011	6.283 2701	8.241 8774	6.283 2701	8.241 8774	3.716 7299	0.000 0000	0	989
012	6.321 0586	8.241 8774	6.321 0586	8.241 8774	3.678 9414	0.000 0000	0	988
013	6.355 8207	8.241 8774	6.355 8207	8.241 8774	3.644 1793	0.000 0000	0	987
014	6.388 0054	8.241 8774	6.388 0054	8.241 8774	3.611 9946	0.000 0000	0	986
015	6.417 9686	8.241 8774	6.417 9686	8.241 8774	3.582 0314	0.000 0000	0	985
016	6.445 9973	8.241 8774	6.445 9974	8.241 8774	3.554 0026	0.000 0000	0	984
017	6.472 3263	8.241 8774	6.472 3263	8.241 8774	3.527 6737	0.000 0000	0	983
018	6.497 1499	8.241 8774	6.497 1499	8.241 8774	3.502 8501	0.000 0000	0	982
019	6.520 6310	8.241 8774	6.520 6310	8.241 8774	3.479 3690	0.000 0000	0	981
.020	6.542 9074	8.241 8774	6.542 9074	8.241 8774	3.457 0926	0.000 0000	0	**.980**
021	6.564 0967	8.241 8774	6.564 0967	8.241 8774	3.435 9033	0.000 0000	0	979
022	6.584 3000	8.241 8774	6.584 3001	8.241 8774	3.415 6999	0.000 0000	0	978
023	6.603 6052	8.241 8774	6.603 6052	8.241 8774	3.396 3948	0.000 0000	0	977
024	6.622 0886	8.241 8774	6.622 0886	8.241 8774	3.377 9114	0.000 0000	0	976
025	6.639 8174	8.241 8774	6.639 8174	8.241 8774	3.360 1826	0.000 0000	0	975
026	6.656 8507	8.241 8774	6.656 8507	8.241 8774	3.343 1493	0.000 0000	0	974
027	6.673 2411	8.241 8774	6.673 2412	8.241 8774	3.326 7588	0.000 0000	0	973
028	6.689 0354	8.241 8774	6.689 0354	8.241 8774	3.310 9646	9.999 9999	1	972
029	6.704 2753	8.241 8773	6.704 2754	8.241 8774	3.295 7246	9.999 9999	0	971
.030	6.718 9986	8.241 8773	6.718 9987	8.241 8774	3.281 0013	9.999 9999	0	**.970**
031	6.733 2390	8.241 8773	6.733 2391	8.241 8774	3.266 7609	9.999 9999	0	969
032	6.747 0273	8.241 8773	6.747 0274	8.241 8774	3.252 9726	9.999 9999	0	968
033	6.760 3913	8.241 8773	6.760 3914	8.241 8774	3.239 6086	9.999 9999	0	967
034	6.773 3563	8.241 8773	6.773 3563	8.241 8774	3.226 6437	9.999 9999	0	966
035	6.785 9454	8.241 8773	6.785 9455	8.241 8774	3.214 0545	9.999 9999	0	965
036	6.798 1798	8.241 8773	6.798 1799	8.241 8774	3.201 8201	9.999 9999	0	964
037	6.810 0791	8.241 8773	6.810 0792	8.241 8774	3.189 9208	9.999 9999	0	963
038	6.821 6609	8.241 8773	6.821 6610	8.241 8774	3.178 3390	9.999 9999	0	962
039	6.832 9419	8.241 8773	6.832 9420	8.241 8774	3.167 0580	9.999 9999	0	961
.040	6.843 9373	8.241 8773	6.843 9374	8.241 8774	3.156 0626	9.999 9999	0	**.960**
041	6.854 6612	8.241 8773	6.854 6613	8.241 8774	3.145 3387	9.999 9999	0	959
042	6.865 1266	8.241 8773	6.865 1267	8.241 8774	3.134 8733	9.999 9999	0	958
043	6.875 3458	8.241 8773	6.875 3459	8.241 8774	3.124 6541	9.999 9999	0	957
044	6.885 3300	8.241 8773	6.885 3301	8.241 8775	3.114 6699	9.999 9999	0	956
045	6.895 0898	8.241 8773	6.895 0900	8.241 8775	3.104 9100	9.999 9999	0	955
046	6.904 6352	8.241 8773	6.904 6353	8.241 8775	3.095 3647	9.999 9999	0	954
047	6.913 9752	8.241 8773	6.913 9753	8.241 8775	3.086 0247	9.999 9999	0	953
048	6.923 1186	8.241 8773	6.923 1187	8.241 8775	3.076 8813	9.999 9998	1	952
049	6.932 0734	8.241 8773	6.932 0736	8.241 8775	3.067 9264	9.999 9998	0	951
.050	6.940 8473	8.241 8773	6.940 8475	8.241 8775	3.059 1525	9.999 9998	0	**.950**
	cos		cotg		tang	sin	d	**89°**

90°.000 — 89°.950

$0^\circ.050 - 0^\circ.100$

0°	sin	S	tang	T	cotg	cos	d	
.050	6.940 8473	8.241 8773	6.940 8475	8.241 8775	3.059 1525	9.999 9998		**.950**
051	6.949 4475	8.241 8773	6.949 4477	8.241 8775	3.050 5523	9.999 9998	0	949
052	6.957 8807	8.241 8773	6.957 8808	8.241 8775	3.042 1192	9.999 9998	0	948
053	6.966 1532	8.241 8773	6.966 1534	8.241 8775	3.033 8466	9.999 9998	0	947
054	6.974 2711	8.241 8773	6.974 2713	8.241 8775	3.025 7287	9.999 9998	0	946
055	6.982 2400	8.241 8773	6.982 2402	8.241 8775	3.017 7598	9.999 9998	0	945
056	6.990 0653	8.241 8773	6.990 0655	8.241 8775	3.009 9345	9.999 9998	0	944
057	6.997 7522	8.241 8773	6.997 7524	8.241 8775	3.002 2476	9.999 9998	0	943
058	7.005 3053	8.241 8773	7.005 3055	8.241 8775	2.994 6945	9.999 9998	0	942
059	7.012 7293	8.241 8773	7.012 7295	8.241 8775	2.987 2705	9.999 9998	0	941
.060	7.020 0285	8.241 8773	7.020 0288	8.241 8775	2.979 9712	9.999 9998	0	**.940**
061	7.027 2071	8.241 8773	7.027 2074	8.241 8775	2.972 7926	9.999 9998	1	939
062	7.034 2690	8.241 8773	7.034 2692	8.241 8775	2.965 7308	9.999 9997	0	938
063	7.041 2178	8.241 8773	7.041 2181	8.241 8775	2.958 7819	9.999 9997	0	937
064	7.048 0573	8.241 8773	7.048 0575	8.241 8775	2.951 9425	9.999 9997	0	936
065	7.054 7906	8.241 8773	7.054 7909	8.241 8776	2.945 2091	9.999 9997	0	935
066	7.061 4212	8.241 8773	7.061 4215	8.241 8776	2.938 5785	9.999 9997	0	934
067	7.067 9521	8.241 8773	7.067 9524	8.241 8776	2.932 0476	9.999 9997	0	933
068	7.074 3862	8.241 8773	7.074 3865	8.241 8776	2.925 6135	9.999 9997	0	932
069	7.080 7264	8.241 8773	7.080 7267	8.241 8776	2.919 2733	9.999 9997	0	931
.070	7.086 9753	8.241 8773	7.086 9756	8.241 8776	2.913 0244	9.999 9997	0	**.930**
071	7.093 1356	8.241 8773	7.093 1359	8.241 8776	2.906 8641	9.999 9997	0	929
072	7.099 2097	8.241 8773	7.099 2101	8.241 8776	2.900 7899	9.999 9997	0	928
073	7.105 2001	8.241 8773	7.105 2005	8.241 8776	2.894 7995	9.999 9996	1	927
074	7.111 1090	8.241 8772	7.111 1093	8.241 8776	2.888 8907	9.999 9996	0	926
075	7.116 9385	8.241 8772	7.116 9389	8.241 8776	2.883 0611	9.999 9996	0	925
076	7.122 6908	8.241 8772	7.122 6912	8.241 8776	2.877 3088	9.999 9996	0	924
077	7.128 3680	8.241 8772	7.128 3684	8.241 8776	2.871 6316	9.999 9996	0	923
078	7.133 9718	8.241 8772	7.133 9722	8.241 8776	2.866 0278	9.999 9996	0	922
079	7.139 5043	8.241 8772	7.139 5047	8.241 8776	2.860 4953	9.999 9996	0	921
.080	7.144 9672	8.241 8772	7.144 9676	8.241 8776	2.855 0324	9.999 9996	0	**.920**
081	7.150 3622	8.241 8772	7.150 3627	8.241 8777	2.849 6373	9.999 9996	0	919
082	7.155 6911	8.241 8772	7.155 6915	8.241 8777	2.844 3085	9.999 9996	1	918
083	7.160 9553	8.241 8772	7.160 9558	8.241 8777	2.839 0442	9.999 9995	0	917
084	7.166 1565	8.241 8772	7.166 1570	8.241 8777	2.833 8430	9.999 9995	0	916
085	7.171 2961	8.241 8772	7.171 2966	8.241 8777	2.828 7034	9.999 9995	0	915
086	7.176 3757	8.241 8772	7.176 3761	8.241 8777	2.823 6239	9.999 9995	0	914
087	7.181 3965	8.241 8772	7.181 3970	8.241 8777	2.818 6030	9.999 9995	0	913
088	7.186 3599	8.241 8772	7.186 3604	8.241 8777	2.813 6396	9.999 9995	0	912
089	7.191 2672	8.241 8772	7.191 2677	8.241 8777	2.808 7323	9.999 9995	0	911
.090	7.196 1197	8.241 8772	7.196 1202	8.241 8777	2.803 8798	9.999 9995	0	**.910**
091	7.200 9186	8.241 8772	7.200 9191	8.241 8777	2.799 0809	9.999 9995	1	909
092	7.205 6650	8.241 8772	7.205 6656	8.241 8777	2.794 3344	9.999 9994	0	908
093	7.210 3601	8.241 8772	7.210 3607	8.241 8777	2.789 6393	9.999 9994	0	907
094	7.215 0050	8.241 8772	7.215 0056	8.241 8778	2.784 9944	9.999 9994	0	906
095	7.219 6008	8.241 8772	7.219 6014	8.241 8778	2.780 3986	9.999 9994	0	905
096	7.224 1484	8.241 8772	7.224 1490	8.241 8778	2.775 8510	9.999 9994	0	904
097	7.228 6489	8.241 8772	7.228 6495	8.241 8778	2.771 3505	9.999 9994	0	903
098	7.233 1032	8.241 8772	7.233 1039	8.241 8778	2.766 8961	9.999 9994	0	902
099	7.237 5123	8.241 8772	7.237 5130	8.241 8778	2.762 4870	9.999 9994	0	901
.100	7.241 8771	8.241 8771	7.241 8778	8.241 8778	2.758 1222	9.999 9993	1	**.900**
	cos		cotg		tang	sin	d	89°

$89^\circ.950 - 89^\circ.900$

$0^\circ.100 - 0^\circ.150$

0°	sin	S	tang	T	cotg	cos	d	
.100	7.241 8771	8.241 8771	7.241 8778	8.241 8778	2.758 1222	9.999 9993		**.900**
101	7.246 1985	8.241 8771	7.246 1992	8.241 8778	2.753 8008	9.999 9993	0	899
102	7.250 4773	8.241 8771	7.250 4780	8.241 8778	2.749 5220	9.999 9993	0	898
103	7.254 7144	8.241 8771	7.254 7151	8.241 8778	2.745 2849	9.999 9993	0	897
104	7.258 9105	8.241 8771	7.258 9112	8.241 8778	2.741 0888	9.999 9993	0	896
105	7.263 0664	8.241 8771	7.263 0672	8.241 8779	2.736 9328	9.999 9993	0	895
106	7.267 1830	8.241 8771	7.267 1837	8.241 8779	2.732 8163	9.999 9993	0	894
107	7.271 2609	8.241 8771	7.271 2617	8.241 8779	2.728 7383	9.999 9992	1	893
108	7.275 3009	8.241 8771	7.275 3016	8.241 8779	2.724 6984	9.999 9992	0	892
109	7.279 3036	8.241 8771	7.279 3044	8.241 8779	2.720 6956	9.999 9992	0	891
.110	7.283 2698	8.241 8771	7.283 2706	8.241 8779	2.716 7294	9.999 9992	0	**.890**
111	7.287 2001	8.241 8771	7.287 2009	8.241 8779	2.712 7991	9.999 9992	0	889
112	7.291 0951	8.241 8771	7.291 0959	8.241 8779	2.708 9041	9.999 9992	0	888
113	7.294 9555	8.241 8771	7.294 9564	8.241 8779	2.705 0436	9.999 9992	0	887
114	7.298 7819	8.241 8771	7.298 7828	8.241 8779	2.701 2172	9.999 9991	1	886
115	7.302 5749	8.241 8771	7.302 5758	8.241 8780	2.697 4242	9.999 9991	0	885
116	7.306 3351	8.241 8771	7.306 3360	8.241 8780	2.693 6640	9.999 9991	0	884
117	7.310 0629	8.241 8771	7.310 0638	8.241 8780	2.689 9362	9.999 9991	0	883
118	7.313 7591	8.241 8771	7.313 7600	8.241 8780	2.686 2400	9.999 9991	0	882
119	7.317 4240	8.241 8771	7.317 4250	8.241 8780	2.682 5750	9.999 9991	0	881
.120	7.321 0583	8.241 8771	7.321 0592	8.241 8780	2.678 9408	9.999 9990	1	**.880**
121	7.324 6624	8.241 8770	7.324 6634	8.241 8780	2.675 3366	9.999 9990	0	879
122	7.328 2369	8.241 8770	7.328 2379	8.241 8780	2.671 7621	9.999 9990	0	878
123	7.331 7821	8.241 8770	7.331 7831	8.241 8780	2.668 2169	9.999 9990	0	877
124	7.335 2987	8.241 8770	7.335 2997	8.241 8780	2.664 7003	9.999 9990	0	876
125	7.338 7870	8.241 8770	7.338 7881	8.241 8781	2.661 2119	9.999 9990	0	875
126	7.342 2476	8.241 8770	7.342 2486	8.241 8781	2.657 7514	9.999 9989	1	874
127	7.345 6807	8.241 8770	7.345 6818	8.241 8781	2.654 3182	9.999 9989	0	873
128	7.349 0870	8.241 8770	7.349 0881	8.241 8781	2.650 9119	9.999 9989	0	872
129	7.352 4667	8.241 8770	7.352 4678	8.241 8781	2.647 5322	9.999 9989	0	871
.130	7.355 8203	8.241 8770	7.355 8215	8.241 8781	2.644 1785	9.999 9989	0	**.870**
131	7.359 1483	8.241 8770	7.359 1494	8.241 8781	2.640 8506	9.999 9989	0	869
132	7.362 4509	8.241 8770	7.362 4521	8.241 8781	2.637 5479	9.999 9988	1	868
133	7.365 7286	8.241 8770	7.365 7298	8.241 8781	2.634 2702	9.999 9988	0	867
134	7.368 9818	8.241 8770	7.368 9830	8.241 8782	2.631 0170	9.999 9988	0	866
135	7.372 2107	8.241 8770	7.372 2119	8.241 8782	2.627 7881	9.999 9988	0	865
136	7.375 4159	8.241 8770	7.375 4171	8.241 8782	2.624 5829	9.999 9988	0	864
137	7.378 5975	8.241 8770	7.378 5988	8.241 8782	2.621 4012	9.999 9988	0	863
138	7.381 7560	8.241 8769	7.381 7573	8.241 8782	2.618 2427	9.999 9987	1	862
139	7.384 8917	8.241 8769	7.384 8930	8.241 8782	2.615 1070	9.999 9987	0	861
.140	7.388 0050	8.241 8769	7.388 0063	8.241 8782	2.611 9937	9.999 9987	0	**.860**
141	7.391 0960	8.241 8769	7.391 0974	8.241 8782	2.608 9026	9.999 9987	0	859
142	7.394 1653	8.241 8769	7.394 1666	8.241 8783	2.605 8334	9.999 9987	0	858
143	7.397 2130	8.241 8769	7.397 2143	8.241 8783	2.602 7857	9.999 9986	1	857
144	7.400 2394	8.241 8769	7.400 2408	8.241 8783	2.599 7592	9.999 9986	0	856
145	7.403 2449	8.241 8769	7.403 2463	8.241 8783	2.596 7537	9.999 9986	0	855
146	7.406 2298	8.241 8769	7.406 2312	8.241 8783	2.593 7688	9.999 9986	0	854
147	7.409 1942	8.241 8769	7.409 1957	8.241 8783	2.590 8043	9.999 9986	0	853
148	7.412 1386	8.241 8769	7.412 1400	8.241 8783	2.587 8600	9.999 9986	0	852
149	7.415 0631	8.241 8769	7.415 0646	8.241 8783	2.584 9354	9.999 9985	1	851
.150	7.417 9681	8.241 8769	7.417 9696	8.241 8784	2.582 0304	9.999 9985	0	**.850**
	cos		cotg		tang	sin	d	**89°**

$89^\circ.900 - 89^\circ.850$

0°.150 — 0°.200

0°	sin	S	tang	T	cotg	cos	d	
.150	7.417 9681	8.241 8769	7.417 9696	8.241 8784	2.582 0304	9.999 9985		**.850**
151	7.420 8538	8.241 8769	7.420 8553	8.241 8784	2.579 1447	9.999 9985	0	849
152	7.423 7204	8.241 8769	7.423 7220	8.241 8784	2.576 2780	9.999 9985	0	848
153	7.426 5683	8.241 8769	7.426 5698	8.241 8784	2.573 4302	9.999 9985	0	847
154	7.429 3976	8.241 8768	7.429 3991	8.241 8784	2.570 6009	9.999 9984	1	846
155	7.432 2085	8.241 8768	7.432 2101	8.241 8784	2.567 7899	9.999 9984	0	845
156	7.435 0014	8.241 8768	7.435 0030	8.241 8784	2.564 9970	9.999 9984	0	844
157	7.437 7765	8.241 8768	7.437 7781	8.241 8785	2.562 2219	9.999 9984	0	843
158	7.440 5339	8.241 8768	7.440 5356	8.241 8785	2.559 4644	9.999 9983	1	842
159	7.443 2739	8.241 8768	7.443 2756	8.241 8785	2.556 7244	9.999 9983	0	841
.160	7.445 9968	8.241 8768	7.445 9985	8.241 8785	2.554 0015	9.999 9983	0	**.840**
161	7.448 7027	8.241 8768	7.448 7044	8.241 8785	2.551 2956	9.999 9983	0	839
162	7.451 3918	8.241 8768	7.451 3935	8.241 8785	2.548 6065	9.999 9983	0	838
163	7.454 0644	8.241 8768	7.454 0661	8.241 8785	2.545 9339	9.999 9982	1	837
164	7.456 7206	8.241 8768	7.456 7224	8.241 8786	2.543 2776	9.999 9982	0	836
165	7.459 3607	8.241 8768	7.459 3625	8.241 8786	2.540 6375	9.999 9982	0	835
166	7.461 9848	8.241 8768	7.461 9867	8.241 8786	2.538 0133	9.999 9982	0	834
167	7.464 5932	8.241 8768	7.464 5951	8.241 8786	2.535 4049	9.999 9982	0	833
168	7.467 1860	8.241 8767	7.467 1879	8.241 8786	2.532 8121	9.999 9981	1	832
169	7.469 7634	8.241 8767	7.469 7653	8.241 8786	2.530 2347	9.999 9981	0	831
.170	7.472 3257	8.241 8767	7.472 3276	8.241 8786	2.527 6724	9.999 9981	0	**.830**
171	7.474 8728	8.241 8767	7.474 8748	8.241 8787	2.525 1252	9.999 9981	0	829
172	7.477 4052	8.241 8767	7.477 4071	8.241 8787	2.522 5929	9.999 9980	1	828
173	7.479 9228	8.241 8767	7.479 9248	8.241 8787	2.520 0752	9.999 9980	0	827
174	7.482 4259	8.241 8767	7.482 4280	8.241 8787	2.517 5720	9.999 9980	0	826
175	7.484 9147	8.241 8767	7.484 9168	8.241 8787	2.515 0832	9.999 9980	0	825
176	7.487 3894	8.241 8767	7.487 3914	8.241 8787	2.512 6086	9.999 9980	0	824
177	7.489 8499	8.241 8767	7.489 8520	8.241 8787	2.510 1480	9.999 9979	1	823
178	7.492 2967	8.241 8767	7.492 2988	8.241 8788	2.507 7012	9.999 9979	0	822
179	7.494 7297	8.241 8767	7.494 7318	8.241 8788	2.505 2682	9.999 9979	0	821
.180	7.497 1492	8.241 8767	7.497 1513	8.241 8788	2.502 8487	9.999 9979	0	**.820**
181	7.499 5552	8.241 8766	7.499 5574	8.241 8788	2.500 4426	9.999 9978	1	819
182	7.501 9480	8.241 8766	7.501 9502	8.241 8788	2.498 0498	9.999 9978	0	818
183	7.504 3277	8.241 8766	7.504 3299	8.241 8788	2.495 6701	9.999 9978	0	817
184	7.506 6944	8.241 8766	7.506 6967	8.241 8789	2.493 3033	9.999 9978	0	816
185	7.509 0483	8.241 8766	7.509 0506	8.241 8789	2.490 9494	9.999 9977	1	815
186	7.511 3895	8.241 8766	7.511 3918	8.241 8789	2.488 6082	9.999 9977	0	814
187	7.513 7182	8.241 8766	7.513 7205	8.241 8789	2.486 2795	9.999 9977	0	813
188	7.516 0344	8.241 8766	7.516 0368	8.241 8789	2.483 9632	9.999 9977	0	812
189	7.518 3384	8.241 8766	7.518 3407	8.241 8789	2.481 6593	9.999 9976	1	811
.190	7.520 6302	8.241 8766	7.520 6326	8.241 8790	2.479 3674	9.999 9976	0	**.810**
191	7.522 9099	8.241 8766	7.522 9123	8.241 8790	2.477 0877	9.999 9976	0	809
192	7.525 1778	8.241 8766	7.525 1802	8.241 8790	2.474 8198	9.999 9976	0	808
193	7.527 4339	8.241 8765	7.527 4363	8.241 8790	2.472 5637	9.999 9975	1	807
194	7.529 6783	8.241 8765	7.529 6808	8.241 8790	2.470 3192	9.999 9975	0	806
195	7.531 9111	8.241 8765	7.531 9137	8.241 8790	2.468 0863	9.999 9975	0	805
196	7.534 1326	8.241 8765	7.534 1351	8.241 8791	2.465 8649	9.999 9975	0	804
197	7.536 3427	8.241 8765	7.536 3453	8.241 8791	2.463 6547	9.999 9974	1	803
198	7.538 5417	8.241 8765	7.538 5443	8.241 8791	2.461 4557	9.999 9974	0	802
199	7.540 7296	8.241 8765	7.540 7322	8.241 8791	2.459 2678	9.999 9974	0	801
.200	7.542 9065	8.241 8765	7.542 9091	8.241 8791	2.457 0909	9.999 9974		**.800**
	cos		cotg		tang	sin	d	**89°**

89°.850 — 89°.800

0°.200 — 0°.250

0°	sin	S	tang	T	cotg	cos	d	
.200	7·542 9065	8.241 8765	7·542 9091	8.241 8791	2.457 0909	9·999 9974		**.800**
201	7·545 0725	8.241 8765	7·545 0752	8.241 8791	2.454 9248	9·999 9973	1	799
202	7·547 2278	8.241 8765	7·547 2305	8.241 8792	2.452 7695	9·999 9973	0	798
203	7·549 3725	8.241 8765	7·549 3752	8.241 8792	2.450 6248	9·999 9973	0	797
204	7·551 5066	8.241 8765	7·551 5094	8.241 8792	2.448 4906	9·999 9972	1	796
205	7·553 6303	8.241 8764	7·553 6331	8.241 8792	2.446 3669	9·999 9972	0	795
206	7·555 7437	8.241 8764	7·555 7465	8.241 8792	2.444 2535	9·999 9972	0	794
207	7·557 8468	8.241 8764	7·557 8496	8.241 8793	2.442 1504	9·999 9972	0	793
208	7·559 9397	8.241 8764	7·559 9426	8.241 8793	2.440 0574	9·999 9971	1	792
209	7·562 0227	8.241 8764	7·562 0256	8.241 8793	2.437 9744	9·999 9971	0	791
.210	7·564 0957	8.241 8764	7·564 0986	8.241 8793	2.435 9014	9·999 9971	0	**.790**
211	7·566 1588	8.241 8764	7·566 1618	8.241 8793	2.433 8382	9·999 9971	0	789
212	7·568 2122	8.241 8764	7·568 2152	8.241 8793	2.431 7848	9·999 9970	1	788
213	7·570 2560	8.241 8764	7·570 2590	8.241 8794	2.429 7410	9·999 9970	0	787
214	7·572 2901	8.241 8764	7·572 2932	8.241 8794	2.427 7068	9·999 9970	0	786
215	7·574 3148	8.241 8763	7·574 3179	8.241 8794	2.425 6821	9·999 9969	1	785
216	7·576 3301	8.241 8763	7·576 3332	8.241 8794	2.423 6668	9·999 9969	0	784
217	7·578 3361	8.241 8763	7·578 3392	8.241 8794	2.421 6608	9·999 9969	0	783
218	7·580 3328	8.241 8763	7·580 3360	8.241 8795	2.419 6640	9·999 9969	0	782
219	7·582 3204	8.241 8763	7·582 3236	8.241 8795	2.417 6764	9·999 9968	1	781
.220	7·584 2990	8.241 8763	7·584 3022	8.241 8795	2.415 6978	9·999 9968	0	**.780**
221	7·586 2686	8.241 8763	7·586 2718	8.241 8795	2.413 7282	9·999 9968	0	779
222	7·588 2293	8.241 8763	7·588 2325	8.241 8795	2.411 7675	9·999 9967	1	778
223	7·590 1811	8.241 8763	7·590 1844	8.241 8796	2.409 8156	9·999 9967	0	777
224	7·592 1243	8.241 8763	7·592 1276	8.241 8796	2.407 8724	9·999 9967	0	776
225	7·594 0588	8.241 8763	7·594 0621	8.241 8796	2.405 9379	9·999 9967	0	775
226	7·595 9847	8.241 8762	7·595 9881	8.241 8796	2.404 0119	9·999 9966	1	774
227	7·597 9021	8.241 8762	7·597 9055	8.241 8796	2.402 0945	9·999 9966	0	773
228	7·599 8111	8.241 8762	7·599 8145	8.241 8797	2.400 1855	9·999 9966	0	772
229	7·601 7117	8.241 8762	7·601 7152	8.241 8797	2.398 2848	9·999 9965	1	771
.230	7·603 6040	8.241 8762	7·603 6075	8.241 8797	2.396 3925	9·999 9965	0	**.770**
231	7·605 4882	8.241 8762	7·605 4917	8.241 8797	2.394 5083	9·999 9965	0	769
232	7·607 3642	8.241 8762	7·607 3677	8.241 8797	2.392 6323	9·999 9964	1	768
233	7·609 2321	8.241 8762	7·609 2357	8.241 8798	2.390 7643	9·999 9964	0	767
234	7·611 0920	8.241 8762	7·611 0956	8.241 8798	2.388 9044	9·999 9964	0	766
235	7·612 9440	8.241 8761	7·612 9477	8.241 8798	2.387 0523	9·999 9963	1	765
236	7·614 7881	8.241 8761	7·614 7918	8.241 8798	2.385 2082	9·999 9963	0	764
237	7·616 6245	8.241 8761	7·616 6282	8.241 8798	2.383 3718	9·999 9963	0	763
238	7·618 4531	8.241 8761	7·618 4568	8.241 8799	2.381 5432	9·999 9963	0	762
239	7·620 2740	8.241 8761	7·620 2778	8.241 8799	2.379 7222	9·999 9962	1	761
.240	7·622 0873	8.241 8761	7·622 0911	8.241 8799	2.377 9089	9·999 9962	0	**.760**
241	7·623 8931	8.241 8761	7·623 8970	8.241 8799	2.376 1030	9·999 9962	0	759
242	7·625 6914	8.241 8761	7·625 6953	8.241 8800	2.374 3047	9·999 9961	1	758
243	7·627 4823	8.241 8761	7·627 4862	8.241 8800	2.372 5138	9·999 9961	0	757
244	7·629 2659	8.241 8761	7·629 2698	8.241 8800	2.370 7302	9·999 9961	0	756
245	7·631 0421	8.241 8760	7·631 0461	8.241 8800	2.368 9539	9·999 9960	1	755
246	7·632 8111	8.241 8760	7·632 8151	8.241 8800	2.367 1849	9·999 9960	0	754
247	7·634 5730	8.241 8760	7·634 5770	8.241 8801	2.365 4230	9·999 9960	0	753
248	7·636 3277	8.241 8760	7·636 3318	8.241 8801	2.363 6682	9·999 9959	1	752
249	7·638 0753	8.241 8760	7·638 0794	8.241 8801	2.361 9206	9·999 9959	0	751
.250	7·639 8160	8.241 8760	7·639 8201	8.241 8801	2.360 1799	9·999 9959		**.750**
	cos		cotg		tang	sin	d	**89°**

89°.800 — 89°.750

0°.250 — 0°.300

0°	sin	S	tang	T	cotg	cos	d	
.250	7.639 8160	8.241 8760	7.639 8201	8.241 8801	2.360 1799	9.999 9959		**.750**
251	7.641 5497	8.241 8760	7.641 5539	8.241 8801	2.358 4461	9.999 9958	1	749
252	7.643 2765	8.241 8760	7.643 2807	8.241 8802	2.356 7193	9.999 9958	0	748
253	7.644 9965	8.241 8760	7.645 0007	8.241 8802	2.354 9993	9.999 9958	0	747
254	7.646 7097	8.241 8759	7.646 7139	8.241 8802	2.353 2861	9.999 9957	1	746
255	7.648 4161	8.241 8759	7.648 4204	8.241 8802	2.351 5796	9.999 9957	0	745
256	7.650 1159	8.241 8759	7.650 1202	8.241 8803	2.349 8798	9.999 9957	0	744
257	7.651 8090	8.241 8759	7.651 8134	8.241 8803	2.348 1866	9.999 9956	1	743
258	7.653 4956	8.241 8759	7.653 5000	8.241 8803	2.346 5000	9.999 9956	0	742
259	7.655 1757	8.241 8759	7.655 1801	8.241 8803	2.344 8199	9.999 9956	0	741
.260	7.656 8492	8.241 8759	7.656 8537	8.241 8803	2.343 1463	9.999 9955	1	**.740**
261	7.658 5164	8.241 8759	7.658 5209	8.241 8804	2.341 4791	9.999 9955	0	739
262	7.660 1771	8.241 8759	7.660 1817	8.241 8804	2.339 8183	9.999 9955	0	738
263	7.661 8316	8.241 8758	7.661 8362	8.241 8804	2.338 1638	9.999 9954	1	737
264	7.663 4798	8.241 8758	7.663 4844	8.241 8804	2.336 5156	9.999 9954	0	736
265	7.665 1217	8.241 8758	7.665 1263	8.241 8805	2.334 8737	9.999 9954	0	735
266	7.666 7574	8.241 8758	7.666 7621	8.241 8805	2.333 2379	9.999 9953	1	734
267	7.668 3871	8.241 8758	7.668 3918	8.241 8805	2.331 6082	9.999 9953	0	733
268	7.670 0106	8.241 8758	7.670 0153	8.241 8805	2.329 9847	9.999 9952	1	732
269	7.671 6281	8.241 8758	7.671 6328	8.241 8806	2.328 3672	9.999 9952	0	731
.270	7.673 2395	8.241 8758	7.673 2443	8.241 8806	2.326 7557	9.999 9952	0	**.730**
271	7.674 8450	8.241 8757	7.674 8499	8.241 8806	2.325 1501	9.999 9951	1	729
272	7.676 4446	8.241 8757	7.676 4495	8.241 8806	2.323 5505	9.999 9951	0	728
273	7.678 0384	8.241 8757	7.678 0433	8.241 8807	2.321 9567	9.999 9951	0	727
274	7.679 6263	8.241 8757	7.679 6312	8.241 8807	2.320 3688	9.999 9950	1	726
275	7.681 2084	8.241 8757	7.681 2134	8.241 8807	2.318 7866	9.999 9950	0	725
276	7.682 7848	8.241 8757	7.682 7898	8.241 8807	2.317 2102	9.999 9950	0	724
277	7.684 3554	8.241 8757	7.684 3605	8.241 8808	2.315 6395	9.999 9949	1	723
278	7.685 9205	8.241 8757	7.685 9256	8.241 8808	2.314 0744	9.999 9949	0	722
279	7.687 4799	8.241 8757	7.687 4850	8.241 8808	2.312 5150	9.999 9949	0	721
.280	7.689 0337	8.241 8756	7.689 0389	8.241 8808	2.310 9611	9.999 9948	1	**.720**
281	7.690 5819	8.241 8756	7.690 5872	8.241 8808	2.309 4128	9.999 9948	0	719
282	7.692 1247	8.241 8756	7.692 1300	8.241 8809	2.307 8700	9.999 9947	1	718
283	7.693 6620	8.241 8756	7.693 6673	8.241 8809	2.306 3327	9.999 9947	0	717
284	7.695 1939	8.241 8756	7.695 1993	8.241 8809	2.304 8007	9.999 9947	0	716
285	7.696 7204	8.241 8756	7.696 7258	8.241 8809	2.303 2742	9.999 9946	1	715
286	7.698 2416	8.241 8756	7.698 2470	8.241 8810	2.301 7530	9.999 9946	0	714
287	7.699 7574	8.241 8756	7.699 7629	8.241 8810	2.300 2371	9.999 9946	0	713
288	7.701 2680	8.241 8755	7.701 2735	8.241 8810	2.298 7265	9.999 9945	1	712
289	7.702 7734	8.241 8755	7.702 7789	8.241 8811	2.297 2211	9.999 9945	0	711
.290	7.704 2735	8.241 8755	7.704 2791	8.241 8811	2.295 7209	9.999 9944	1	**.710**
291	7.705 7685	8.241 8755	7.705 7741	8.241 8811	2.294 2259	9.999 9944	0	709
292	7.707 2583	8.241 8755	7.707 2640	8.241 8811	2.292 7360	9.999 9944	0	708
293	7.708 7431	8.241 8755	7.708 7488	8.241 8812	2.291 2512	9.999 9943	1	707
294	7.710 2228	8.241 8755	7.710 2285	8.241 8812	2.289 7715	9.999 9943	0	706
295	7.711 6975	8.241 8754	7.711 7032	8.241 8812	2.288 2968	9.999 9942	1	705
296	7.713 1671	8.241 8754	7.713 1729	8.241 8812	2.286 8271	9.999 9942	0	704
297	7.714 6319	8.241 8754	7.714 6377	8.241 8813	2.285 3623	9.999 9942	0	703
298	7.716 0917	8.241 8754	7.716 0975	8.241 8813	2.283 9025	9.999 9941	1	702
299	7.717 5466	8.241 8754	7.717 5525	8.241 8813	2.282 4475	9.999 9941	0	701
.300	7.718 9966	8.241 8754	7.719 0026	8.241 8813	2.280 9974	9.999 9940	1	**.700**
	cos		cotg		tang	sin	d	**89°**

89°.750 — 89°.700

$0^\circ.300 - 0^\circ.350$

0°	sin	S	tang	T	cotg	cos	d	
.300	7.718 9966	8.241 8754	7.719 0026	8.241 8813	2.280 9974	9.999 9940		**.700**
301	7.720 4419	8.241 8754	7.720 4479	8.241 8814	2.279 5521	9.999 9940	0	699
302	7.721 8823	8.241 8754	7.721 8883	8.241 8814	2.278 1117	9.999 9940	0	698
303	7.723 3180	8.241 8753	7.723 3240	8.241 8814	2.276 6760	9.999 9939	1	697
304	7.724 7489	8.241 8753	7.724 7550	8.241 8814	2.275 2450	9.999 9939	0	696
305	7.726 1752	8.241 8753	7.726 1813	8.241 8815	2.273 8187	9.999 9938	1	695
306	7.727 5967	8.241 8753	7.727 6029	8.241 8815	2.272 3971	9.999 9938	0	694
307	7.729 0137	8.241 8753	7.729 0199	8.241 8815	2.270 9801	9.999 9938	0	693
308	7.730 4260	8.241 8753	7.730 4323	8.241 8816	2.269 5677	9.999 9937	1	692
309	7.731 8337	8.241 8753	7.731 8401	8.241 8816	2.268 1599	9.999 9937	0	691
.310	7.733 2369	8.241 8752	7.733 2433	8.241 8816	2.266 7567	9.999 9936	1	**.690**
311	7.734 6356	8.241 8752	7.734 6420	8.241 8816	2.265 3580	9.999 9936	0	689
312	7.736 0298	8.241 8752	7.736 0363	8.241 8817	2.263 9637	9.999 9936	0	688
313	7.737 4195	8.241 8752	7.737 4260	8.241 8817	2.262 5740	9.999 9935	1	687
314	7.738 8048	8.241 8752	7.738 8114	8.241 8817	2.261 1886	9.999 9935	0	686
315	7.740 1857	8.241 8752	7.740 1923	8.241 8817	2.259 8077	9.999 9934	1	685
316	7.741 5622	8.241 8752	7.741 5689	8.241 8818	2.258 4311	9.999 9934	0	684
317	7.742 9344	8.241 8752	7.742 9411	8.241 8818	2.257 0589	9.999 9934	0	683
318	7.744 3023	8.241 8751	7.744 3089	8.241 8818	2.255 6911	9.999 9933	1	682
319	7.745 6658	8.241 8751	7.745 6725	8.241 8819	2.254 3275	9.999 9933	0	681
.320	7.747 0251	8.241 8751	7.747 0319	8.241 8819	2.252 9681	9.999 9932	1	**.680**
321	7.748 3801	8.241 8751	7.748 3869	8.241 8819	2.251 6131	9.999 9932	0	679
322	7.749 7310	8.241 8751	7.749 7378	8.241 8819	2.250 2622	9.999 9931	1	678
323	7.751 0776	8.241 8751	7.751 0845	8.241 8820	2.248 9155	9.999 9931	0	677
324	7.752 4201	8.241 8751	7.752 4270	8.241 8820	2.247 5730	9.999 9931	0	676
325	7.753 7584	8.241 8750	7.753 7654	8.241 8820	2.246 2346	9.999 9930	1	675
326	7.755 0926	8.241 8750	7.755 0997	8.241 8821	2.244 9003	9.999 9930	0	674
327	7.756 4228	8.241 8750	7.756 4298	8.241 8821	2.243 5702	9.999 9929	1	673
328	7.757 7488	8.241 8750	7.757 7560	8.241 8821	2.242 2440	9.999 9929	0	672
329	7.759 0709	8.241 8750	7.759 0780	8.241 8821	2.240 9220	9.999 9928	1	671
.330	7.760 3889	8.241 8750	7.760 3961	8.241 8822	2.239 6039	9.999 9928	0	**.670**
331	7.761 7029	8.241 8750	7.761 7102	8.241 8822	2.238 2898	9.999 9928	0	669
332	7.763 0130	8.241 8749	7.763 0203	8.241 8822	2.236 9797	9.999 9927	1	668
333	7.764 3192	8.241 8749	7.764 3265	8.241 8823	2.235 6735	9.999 9927	0	667
334	7.765 6214	8.241 8749	7.765 6288	8.241 8823	2.234 3712	9.999 9926	1	666
335	7.766 9197	8.241 8749	7.766 9271	8.241 8823	2.233 0729	9.999 9926	0	665
336	7.768 2142	8.241 8749	7.768 2216	8.241 8823	2.231 7784	9.999 9925	1	664
337	7.769 5048	8.241 8749	7.769 5123	8.241 8824	2.230 4877	9.999 9925	0	663
338	7.770 7915	8.241 8748	7.770 7991	8.241 8824	2.229 2009	9.999 9924	1	662
339	7.772 0745	8.241 8748	7.772 0821	8.241 8824	2.227 9179	9.999 9924	0	661
.340	7.773 3537	8.241 8748	7.773 3614	8.241 8825	2.226 6386	9.999 9924	0	**.660**
341	7.774 6292	8.241 8748	7.774 6369	8.241 8825	2.225 3631	9.999 9923	1	659
342	7.775 9009	8.241 8748	7.775 9086	8.241 8825	2.224 0914	9.999 9923	0	658
343	7.777 1689	8.241 8748	7.777 1767	8.241 8826	2.222 8233	9.999 9922	1	657
344	7.778 4332	8.241 8748	7.778 4410	8.241 8826	2.221 5590	9.999 9922	0	656
345	7.779 6938	8.241 8747	7.779 7017	8.241 8826	2.220 2983	9.999 9921	1	655
346	7.780 9508	8.241 8747	7.780 9587	8.241 8826	2.219 0413	9.999 9921	0	654
347	7.782 2042	8.241 8747	7.782 2122	8.241 8827	2.217 7878	9.999 9920	1	653
348	7.783 4539	8.241 8747	7.783 4620	8.241 8827	2.216 5380	9.999 9920	0	652
349	7.784 7001	8.241 8747	7.784 7082	8.241 8827	2.215 2918	9.999 9919	1	651
.350	7.785 9427	8.241 8747	7.785 9508	8.241 8828	2.214 0492	9.999 9919	0	**.650**
	cos		cotg		tang	sin	d	**89°**

$89^\circ.700 - 89^\circ.650$

0°.350 — 0°.400

0°	sin	S	tang	T	cotg	cos	d	
.350	7·785 9427	8.241 8747	7·785 9508	8.241 8828	2.214 0492	9.999 9919		**.650**
351	7·787 1818	8.241 8747	7·787 1899	8.241 8828	2.212 8101	9.999 9919	0	649
352	7·788 4173	8.241 8746	7·788 4255	8.241 8828	2.211 5745	9.999 9918	1	648
353	7·789 6493	8.241 8746	7·789 6576	8.241 8829	2.210 3424	9.999 9918	0	647
354	7·790 8779	8.241 8746	7·790 8862	8.241 8829	2.209 1138	9.999 9917	1	646
355	7·792 1029	8.241 8746	7·792 1113	8.241 8829	2.207 8887	9.999 9917	0	645
356	7·793 3246	8.241 8746	7·793 3330	8.241 8830	2.206 6670	9.999 9916	1	644
357	7·794 5428	8.241 8746	7·794 5512	8.241 8830	2.205 4488	9.999 9916	0	643
358	7·795 7576	8.241 8745	7·795 7660	8.241 8830	2.204 2340	9.999 9915	1	642
359	7·796 9690	8.241 8745	7·796 9775	8.241 8831	2.203 0225	9.999 9915	0	641
.360	7·798 1770	8.241 8745	7·798 1856	8.241 8831	2.201 8144	9.999 9914	1	**.640**
361	7·799 3817	8.241 8745	7·799 3903	8.241 8831	2.200 6097	9.999 9914	0	639
362	7·800 5830	8.241 8745	7·800 5917	8.241 8831	2.199 4083	9.999 9913	1	638
363	7·801 7811	8.241 8745	7·801 7898	8.241 8832	2.198 2102	9.999 9913	0	637
364	7·802 9758	8.241 8744	7·802 9846	8.241 8832	2.197 0154	9.999 9912	1	636
365	7·804 1673	8.241 8744	7·804 1761	8.241 8832	2.195 8239	9.999 9912	0	635
366	7·805 3555	8.241 8744	7·805 3644	8.241 8833	2.194 6356	9.999 9911	1	634
367	7·806 5405	8.241 8744	7·806 5494	8.241 8833	2.193 4506	9.999 9911	0	633
368	7·807 7222	8.241 8744	7·807 7312	8.241 8833	2.192 2688	9.999 9910	1	632
369	7·808 9007	8.241 8744	7·808 9097	8.241 8834	2.191 0903	9.999 9910	0	631
.370	7·810 0761	8.241 8743	7·810 0851	8.241 8834	2.189 9149	9.999 9909	1	**.630**
371	7·811 2482	8.241 8743	7·811 2573	8.241 8834	2.188 7427	9.999 9909	0	629
372	7·812 4173	8.241 8743	7·812 4264	8.241 8835	2.187 5736	9.999 9908	1	628
373	7·813 5831	8.241 8743	7·813 5923	8.241 8835	2.186 4077	9.999 9908	0	627
374	7·814 7459	8.241 8743	7·814 7551	8.241 8835	2.185 2449	9.999 9907	1	626
375	7·815 9055	8.241 8743	7·815 9148	8.241 8836	2.184 0852	9.999 9907	0	625
376	7·817 0621	8.241 8743	7·817 0714	8.241 8836	2.182 9286	9.999 9906	1	624
377	7·818 2156	8.241 8742	7·818 2250	8.241 8836	2.181 7750	9.999 9906	0	623
378	7·819 3660	8.241 8742	7·819 3755	8.241 8837	2.180 6245	9.999 9905	1	622
379	7·820 5134	8.241 8742	7·820 5229	8.241 8837	2.179 4771	9.999 9905	0	621
.380	7·821 6578	8.241 8742	7·821 6673	8.241 8837	2.178 3327	9.999 9904	1	**.620**
381	7·822 7991	8.241 8742	7·822 8087	8.241 8838	2.177 1913	9.999 9904	0	619
382	7·823 9375	8.241 8742	7·823 9472	8.241 8838	2.176 0528	9.999 9903	1	618
383	7·825 0729	8.241 8741	7·825 0826	8.241 8838	2.174 9174	9.999 9903	0	617
384	7·826 2053	8.241 8741	7·826 2151	8.241 8839	2.173 7849	9.999 9902	1	616
385	7·827 3348	8.241 8741	7·827 3446	8.241 8839	2.172 6554	9.999 9902	0	615
386	7·828 4614	8.241 8741	7·828 4712	8.241 8839	2.171 5288	9.999 9901	1	614
387	7·829 5850	8.241 8741	7·829 5949	8.241 8840	2.170 4051	9.999 9901	0	613
388	7·830 7058	8.241 8740	7·830 7157	8.241 8840	2.169 2843	9.999 9900	1	612
389	7·831 8236	8.241 8740	7·831 8336	8.241 8840	2.168 1664	9.999 9900	0	611
.390	7·832 9386	8.241 8740	7·832 9487	8.241 8841	2.167 0513	9.999 9899	1	**.610**
391	7·834 0508	8.241 8740	7·834 0609	8.241 8841	2.165 9391	9.999 9899	0	609
392	7·835 1600	8.241 8740	7·835 1702	8.241 8841	2.164 8298	9.999 9898	1	608
393	7·836 2665	8.241 8740	7·836 2767	8.241 8842	2.163 7233	9.999 9898	0	607
394	7·837 3702	8.241 8739	7·837 3804	8.241 8842	2.162 6196	9.999 9897	1	606
395	7·838 4710	8.241 8739	7·838 4813	8.241 8842	2.161 5187	9.999 9897	0	605
396	7·839 5691	8.241 8739	7·839 5795	8.241 8843	2.160 4205	9.999 9896	1	604
397	7·840 6644	8.241 8739	7·840 6748	8.241 8843	2.159 3252	9.999 9896	0	603
398	7·841 7569	8.241 8739	7·841 7674	8.241 8844	2.158 2326	9.999 9895	1	602
399	7·842 8468	8.241 8739	7·842 8573	8.241 8844	2.157 1427	9.999 9895	0	601
.400	7·843 9338	8.241 8738	7·843 9444	8.241 8844	2.156 0556	9.999 9894	1	**.600**
	cos		cotg		tang	sin	d	**89°**

89°.650 — 89°.600

$0^\circ.400 - 0^\circ.450$

0°	sin	S	tang	T	cotg	cos	d	
.400	7.843 9338	8.241 8738	7.843 9444	8.241 8844	2.156 0556	9.999 9894		**.600**
401	7.845 0182	8.241 8738	7.845 0288	8.241 8844	2.154 9712	9.999 9894	0	599
402	7.846 0999	8.241 8738	7.846 1105	8.241 8844	2.153 8895	9.999 9893	1	598
403	7.847 1788	8.241 8738	7.847 1896	8.241 8844	2.152 8104	9.999 9893	0	597
404	7.848 2551	8.241 8738	7.848 2659	8.241 8844	2.151 7341	9.999 9892	1	596
405	7.849 3288	8.241 8738	7.849 3396	8.241 8844	2.150 6604	9.999 9892	0	595
406	7.850 3998	8.241 8738	7.850 4107	8.241 8844	2.149 5893	9.999 9891	1	594
407	7.851 4681	8.241 8738	7.851 4791	8.241 8844	2.148 5209	9.999 9890	1	593
408	7.852 5339	8.241 8738	7.852 5449	8.241 8844	2.147 4551	9.999 9890	0	592
409	7.853 5970	8.241 8738	7.853 6081	8.241 8844	2.146 3919	9.999 9889	1	591
.410	7.854 6575	8.241 8738	7.854 6686	8.241 8844	2.145 3314	9.999 9889	0	**.590**
411	7.855 7155	8.241 8738	7.855 7266	8.241 8844	2.144 2734	9.999 9888	1	589
412	7.856 7708	8.241 8738	7.856 7821	8.241 8844	2.143 2179	9.999 9888	0	588
413	7.857 8237	8.241 8738	7.857 8349	8.241 8844	2.142 1651	9.999 9887	1	587
414	7.858 8739	8.241 8738	7.858 8853	8.241 8844	2.141 1147	9.999 9887	0	586
415	7.859 9217	8.241 8738	7.859 9331	8.241 8844	2.140 0669	9.999 9886	1	585
416	7.860 9669	8.241 8738	7.860 9783	8.241 8844	2.139 0217	9.999 9886	0	584
417	7.862 0096	8.241 8738	7.862 0211	8.241 8844	2.137 9789	9.999 9885	1	583
418	7.863 0498	8.241 8738	7.863 0614	8.241 8844	2.136 9386	9.999 9884	1	582
419	7.864 0875	8.241 8738	7.864 0991	8.241 8844	2.135 9009	9.999 9884	0	581
.420	7.865 1228	8.241 8738	7.865 1344	8.241 8844	2.134 8656	9.999 9883	1	**.580**
421	7.866 1556	8.241 8738	7.866 1673	8.241 8844	2.133 8327	9.999 9883	0	579
422	7.867 1859	8.241 8738	7.867 1977	8.241 8844	2.132 8023	9.999 9882	1	578
423	7.868 2138	8.241 8738	7.868 2256	8.241 8844	2.131 7744	9.999 9882	0	577
424	7.869 2393	8.241 8738	7.869 2512	8.241 8844	2.130 7488	9.999 9881	1	576
425	7.870 2623	8.241 8738	7.870 2743	8.241 8844	2.129 7257	9.999 9881	0	575
426	7.871 2830	8.241 8738	7.871 2950	8.241 8844	2.128 7050	9.999 9880	1	574
427	7.872 3012	8.241 8738	7.872 3133	8.241 8844	2.127 6867	9.999 9879	1	573
428	7.873 3171	8.241 8738	7.873 3292	8.241 8844	2.126 6708	9.999 9879	0	572
429	7.874 3306	8.241 8738	7.874 3428	8.241 8844	2.125 6572	9.999 9878	1	571
.430	7.875 3417	8.241 8738	7.875 3540	8.241 8844	2.124 6460	9.999 9878	0	**.570**
431	7.876 3505	8.241 8738	7.876 3628	8.241 8844	2.123 6372	9.999 9877	1	569
432	7.877 3570	8.241 8738	7.877 3693	8.241 8844	2.122 6307	9.999 9877	0	568
433	7.878 3611	8.241 8738	7.878 3735	8.241 8844	2.121 6265	9.999 9876	1	567
434	7.879 3629	8.241 8738	7.879 3754	8.241 8844	2.120 6246	9.999 9875	1	566
435	7.880 3625	8.241 8738	7.880 3750	8.241 8844	2.119 6250	9.999 9875	0	565
436	7.881 3597	8.241 8738	7.881 3722	8.241 8844	2.118 6278	9.999 9874	1	564
437	7.882 3546	8.241 8738	7.882 3672	8.241 8844	2.117 6328	9.999 9874	0	563
438	7.883 3472	8.241 8738	7.883 3599	8.241 8844	2.116 6401	9.999 9873	1	562
439	7.884 3376	8.241 8738	7.884 3504	8.241 8844	2.115 6496	9.999 9873	0	561
.440	7.885 3258	8.241 8738	7.885 3386	8.241 8844	2.114 6614	9.999 9872	1	**.560**
441	7.886 3117	8.241 8738	7.886 3245	8.241 8844	2.113 6755	9.999 9871	1	559
442	7.887 2953	8.241 8738	7.887 3083	8.241 8844	2.112 6917	9.999 9871	0	558
443	7.888 2768	8.241 8738	7.888 2897	8.241 8844	2.111 7103	9.999 9870	1	557
444	7.889 2560	8.241 8738	7.889 2690	8.241 8844	2.110 7310	9.999 9870	0	556
445	7.890 2330	8.241 8738	7.890 2461	8.241 8844	2.109 7539	9.999 9869	1	555
446	7.891 2078	8.241 8738	7.891 2210	8.241 8844	2.108 7790	9.999 9868	1	554
447	7.892 1805	8.241 8738	7.892 1937	8.241 8844	2.107 8063	9.999 9868	0	553
448	7.893 1510	8.241 8738	7.893 1642	8.241 8844	2.106 8358	9.999 9867	1	552
449	7.894 1193	8.241 8738	7.894 1326	8.241 8844	2.105 8674	9.999 9867	0	551
.450	7.895 0854	8.241 8738	7.895 0988	8.241 8844	2.104 9012	9.999 9866	1	**.550**
	cos		cotg		tang	sin	d	**89°**

$89^\circ.600 - 89^\circ.550$

$0^\circ.450 - 0^\circ.500$

0°	sin	S	tang	T	cotg	cos	d	
.450	7.895 0854	8.241 8738	7.895 0988	8.241 8844	2.104 9012	9.999 9866		**.550**
451	7.896 0494	8.241 8738	7.896 0629	8.241 8844	2.103 9371	9.999 9865	1	549
452	7.897 0113	8.241 8738	7.897 0248	8.241 8844	2.102 9752	9.999 9865	0	548
453	7.897 9710	8.241 8738	7.897 9846	8.241 8844	2.102 0154	9.999 9864	1	547
454	7.898 9287	8.241 8738	7.898 9423	8.241 8844	2.101 0577	9.999 9864	0	546
455	7.899 8842	8.241 8738	7.899 8979	8.241 8844	2.100 1021	9.999 9863	1	545
456	7.900 8376	8.241 8738	7.900 8514	8.241 8844	2.099 1486	9.999 9862	1	544
457	7.901 7890	8.241 8738	7.901 8028	8.241 8844	2.098 1972	9.999 9862	0	543
458	7.902 7382	8.241 8738	7.902 7521	8.241 8844	2.097 2479	9.999 9861	1	542
459	7.903 6854	8.241 8738	7.903 6993	8.241 8844	2.096 3007	9.999 9861	0	541
.460	7.904 6305	8.241 8738	7.904 6445	8.241 8844	2.095 3555	9.999 9860	1	**.540**
461	7.905 5736	8.241 8738	7.905 5877	8.241 8844	2.094 4123	9.999 9859	1	539
462	7.906 5146	8.241 8738	7.906 5288	8.241 8844	2.093 4712	9.999 9859	0	538
463	7.907 4536	8.241 8738	7.907 4678	8.241 8844	2.092 5322	9.999 9858	1	537
464	7.908 3906	8.241 8738	7.908 4048	8.241 8844	2.091 5952	9.999 9858	0	536
465	7.909 3256	8.241 8738	7.909 3399	8.241 8844	2.090 6601	9.999 9857	1	535
466	7.910 2585	8.241 8738	7.910 2729	8.241 8844	2.089 7271	9.999 9856	1	534
467	7.911 1894	8.241 8738	7.911 2039	8.241 8844	2.088 7961	9.999 9856	0	533
468	7.912 1184	8.241 8738	7.912 1329	8.241 8844	2.087 8671	9.999 9855	1	532
469	7.913 0454	8.241 8738	7.913 0599	8.241 8844	2.086 9401	9.999 9855	0	531
.470	7.913 9704	8.241 8738	7.913 9850	8.241 8844	2.086 0150	9.999 9854	1	**.530**
471	7.914 8934	8.241 8738	7.914 9081	8.241 8844	2.085 0919	9.999 9853	1	529
472	7.915 8145	8.241 8738	7.915 8292	8.241 8844	2.084 1708	9.999 9853	0	528
473	7.916 7336	8.241 8738	7.916 7484	8.241 8844	2.083 2516	9.999 9852	1	527
474	7.917 6508	8.241 8738	7.917 6656	8.241 8844	2.082 3344	9.999 9851	1	526
475	7.918 5660	8.241 8738	7.918 5809	8.241 8844	2.081 4191	9.999 9851	0	525
476	7.919 4793	8.241 8738	7.919 4943	8.241 8844	2.080 5057	9.999 9850	1	524
477	7.920 3907	8.241 8738	7.920 4058	8.241 8844	2.079 5942	9.999 9849	1	523
478	7.921 3002	8.241 8738	7.921 3153	8.241 8844	2.078 6847	9.999 9849	0	522
479	7.922 2078	8.241 8738	7.922 2230	8.241 8844	2.077 7770	9.999 9848	1	521
.480	7.923 1135	8.241 8738	7.923 1288	8.241 8844	2.076 8712	9.999 9848	0	**.520**
481	7.924 0173	8.241 8738	7.924 0326	8.241 8844	2.075 9674	9.999 9847	1	519
482	7.924 9193	8.241 8738	7.924 9347	8.241 8844	2.075 0653	9.999 9846	1	518
483	7.925 8194	8.241 8738	7.925 8348	8.241 8844	2.074 1652	9.999 9846	0	517
484	7.926 7176	8.241 8738	7.926 7331	8.241 8844	2.073 2669	9.999 9845	1	516
485	7.927 6139	8.241 8738	7.927 6295	8.241 8844	2.072 3705	9.999 9844	1	515
486	7.928 5084	8.241 8738	7.928 5241	8.241 8844	2.071 4759	9.999 9844	0	514
487	7.929 4011	8.241 8738	7.929 4168	8.241 8844	2.070 5832	9.999 9843	1	513
488	7.930 2919	8.241 8738	7.930 3077	8.241 8844	2.069 6923	9.999 9842	1	512
489	7.931 1810	8.241 8738	7.931 1968	8.241 8844	2.068 8032	9.999 9842	0	511
.490	7.932 0682	8.241 8738	7.932 0840	8.241 8844	2.067 9160	9.999 9841	1	**.510**
491	7.932 9535	8.241 8738	7.932 9695	8.241 8844	2.067 0305	9.999 9841	0	509
492	7.933 8371	8.241 8738	7.933 8531	8.241 8844	2.066 1469	9.999 9840	1	508
493	7.934 7189	8.241 8738	7.934 7350	8.241 8844	2.065 2650	9.999 9839	1	507
494	7.935 5989	8.241 8738	7.935 6151	8.241 8844	2.064 3849	9.999 9839	0	506
495	7.936 4772	8.241 8738	7.936 4934	8.241 8844	2.063 5066	9.999 9838	1	505
496	7.937 3536	8.241 8738	7.937 3699	8.241 8844	2.062 6301	9.999 9837	1	504
497	7.938 2283	8.241 8738	7.938 2446	8.241 8844	2.061 7554	9.999 9837	0	503
498	7.939 1012	8.241 8738	7.939 1176	8.241 8844	2.060 8824	9.999 9836	1	502
499	7.939 9724	8.241 8738	7.939 9889	8.241 8844	2.060 0111	9.999 9835	1	501
.500	7.940 8419	8.241 8738	7.940 8584	8.241 8844	2.059 1416	9.999 9835	0	**.500**
	cos		cotg		tang	sin	d	**89°**

$89^\circ.550 - 89^\circ.500$

$0^\circ.500 - 0^\circ.550$

0°	sin	d	S	tang	d	T	cotg	cos	d	
.500	7.940 8419		8.241 8738	7.940 8584		8.241 8844	2.059 1416	9.999 9835		**.500**
		8677			8678				1	
501	7.941 7096		8.241 8738	7.941 7262		8.241 8844	2.058 2738	9.999 9834		499
502	7.942 5755	8659	8.241 8738	7.942 5922	8660	8.241 8844	2.057 4078	9.999 9833	1	498
503	7.943 4398	8643	8.241 8738	7.943 4565	8643	8.241 8844	2.056 5435	9.999 9833	0	497
		8625			8626				1	
504	7.944 3023		8.241 8738	7.944 3191		8.241 8844	2.055 6809	9.999 9832		496
505	7.945 1631	8608	8.241 8738	7.945 1800	8609	8.241 8844	2.054 8200	9.999 9831	1	495
506	7.946 0222	8591	8.241 8738	7.946 0392	8592	8.241 8844	2.053 9608	9.999 9831	0	494
		8575			8575				1	
507	7.946 8797		8.241 8738	7.946 8967		8.241 8844	2.053 1033	9.999 9830		493
508	7.947 7354	8557	8.241 8738	7.947 7525	8558	8.241 8844	2.052 2475	9.999 9829	1	492
509	7.948 5894	8540	8.241 8738	7.948 6066	8541	8.241 8844	2.051 3934	9.999 9829	0	491
		8524			8524				1	
.510	7.949 4418		8.241 8738	7.949 4590		8.241 8844	2.050 5410	9.999 9828		**.490**
		8507			8508				1	
511	7.950 2925		8.241 8738	7.950 3098		8.241 8844	2.049 6902	9.999 9827		489
512	7.951 1415	8490	8.241 8738	7.951 1589	8491	8.241 8844	2.048 8411	9.999 9827	0	488
513	7.951 9889	8474	8.241 8738	7.952 0063	8474	8.241 8844	2.047 9937	9.999 9826	1	487
		8458			8458				1	
514	7.952 8347		8.241 8738	7.952 8521		8.241 8844	2.047 1479	9.999 9825		486
515	7.953 6787	8440	8.241 8738	7.953 6963	8442	8.241 8844	2.046 3037	9.999 9825	0	485
516	7.954 5212	8425	8.241 8738	7.954 5388	8425	8.241 8844	2.045 4612	9.999 9824	1	484
		8408			8409				1	
517	7.955 3620		8.241 8738	7.955 3797		8.241 8844	2.044 6203	9.999 9823		483
518	7.956 2012	8392	8.241 8738	7.956 2190	8393	8.241 8844	2.043 7810	9.999 9823	0	482
519	7.957 0388	8376	8.241 8738	7.957 0566	8376	8.241 8844	2.042 9434	9.999 9822	1	481
		8359			8360				1	
.520	7.957 8747		8.241 8738	7.957 8926		8.241 8844	2.042 1074	9.999 9821		**.480**
		8344			8345				1	
521	7.958 7091		8.241 8738	7.958 7271		8.241 8844	2.041 2729	9.999 9820		479
522	7.959 5419	8328	8.241 8738	7.959 5599	8328	8.241 8844	2.040 4401	9.999 9820	0	478
523	7.960 3730	8311	8.241 8738	7.960 3911	8312	8.241 8844	2.039 6089	9.999 9819	1	477
		8296			8297				1	
524	7.961 2026		8.241 8738	7.961 2208		8.241 8844	2.038 7792	9.999 9818		476
525	7.962 0306	8280	8.241 8738	7.962 0488	8280	8.241 8844	2.037 9512	9.999 9818	0	475
526	7.962 8570	8264	8.241 8738	7.962 8753	8265	8.241 8844	2.037 1247	9.999 9817	1	474
		8249			8249				1	
527	7.963 6819		8.241 8738	7.963 7002		8.241 8844	2.036 2998	9.999 9816		473
528	7.964 5051	8232	8.241 8738	7.964 5236	8234	8.241 8844	2.035 4764	9.999 9816	0	472
529	7.965 3269	8218	8.241 8738	7.965 3454	8218	8.241 8844	2.034 6546	9.999 9815	1	471
		8201			8202				1	
.530	7.966 1470		8.241 8738	7.966 1656		8.241 8844	2.033 8344	9.999 9814		**.470**
		8187			8187				1	
531	7.966 9657		8.241 8738	7.966 9843		8.241 8844	2.033 0157	9.999 9813		469
532	7.967 7828	8171	8.241 8738	7.967 8015	8172	8.241 8844	2.032 1985	9.999 9813	0	468
533	7.968 5983	8155	8.241 8738	7.968 6171	8156	8.241 8844	2.031 3829	9.999 9812	1	467
		8140			8141				1	
534	7.969 4123		8.241 8738	7.969 4312		8.241 8844	2.030 5688	9.999 9811		466
535	7.970 2248	8125	8.241 8738	7.970 2438	8126	8.241 8844	2.029 7562	9.999 9811	0	465
536	7.971 0358	8110	8.241 8738	7.971 0548	8110	8.241 8844	2.028 9452	9.999 9810	1	464
		8095			8096				1	
537	7.971 8453		8.241 8738	7.971 8644		8.241 8844	2.028 1356	9.999 9809		463
538	7.972 6533	8080	8.241 8738	7.972 6724	8080	8.241 8844	2.027 3276	9.999 9809	0	462
539	7.973 4597	8064	8.241 8738	7.973 4789	8065	8.241 8844	2.026 5211	9.999 9808	1	461
		8050			8051				1	
.540	7.974 2647		8.241 8738	7.974 2840		8.241 8844	2.025 7160	9.999 9807		**.460**
		8035			8035				1	
541	7.975 0682		8.241 8738	7.975 0875		8.241 8844	2.024 9125	9.999 9806		459
542	7.975 8702	8020	8.241 8738	7.975 8896	8021	8.241 8844	2.024 1104	9.999 9806	0	458
543	7.976 6707	8005	8.241 8738	7.976 6902	8006	8.241 8844	2.023 3098	9.999 9805	1	457
		7990			7991				1	
544	7.977 4697		8.241 8738	7.977 4893		8.241 8844	2.022 5107	9.999 9804		456
545	7.978 2673	7976	8.241 8738	7.978 2870	7977	8.241 8844	2.021 7130	9.999 9804	0	455
546	7.979 0634	7961	8.241 8738	7.979 0832	7962	8.241 8844	2.020 9168	9.999 9803	1	454
		7947			7947				1	
547	7.979 8581		8.241 8738	7.979 8779		8.241 8844	2.020 1221	9.999 9802		453
548	7.980 6513	7932	8.241 8738	7.980 6712	7933	8.241 8844	2.019 3288	9.999 9801	1	452
549	7.981 4431	7918	8.241 8738	7.981 4630	7918	8.241 8844	2.018 5370	9.999 9801	0	451
		7903			7904				1	
.550	7.982 2334		8.241 8738	7.982 2534		8.241 8844	2.017 7466	9.999 9800		**.450**
	cos	d		cotg	d		tang	sin	d	89°

$89^\circ.500 - 89^\circ.450$

$0^\circ.550 - 0^\circ.600$

0°	sin	d	S	tang	d	T	cotg	cos	d	
.550	7.982 2334		8.241 8738	7.982 2534		8.241 8844	2.017 7466	9.999 9800		**.450**
		7889			7890				1	
551	7.983 0223		8.241 8738	7.983 0424		8.241 8844	2.016 9576	9.999 9799		449
552	7.983 8097	7874	8.241 8738	7.983 8299	7875	8.241 8844	2.016 1701	9.999 9798	1	448
553	7.984 5958	7861	8.241 8738	7.984 6160	7861	8.241 8844	2.015 3840	9.999 9798	0	447
		7846			7847				1	
554	7.985 3804		8.241 8738	7.985 4007		8.241 8844	2.014 5993	9.999 9797		446
555	7.986 1636	7832	8.241 8738	7.986 1839	7832	8.241 8844	2.013 8161	9.999 9796	1	445
556	7.986 9453	7817	8.241 8738	7.986 9658	7819	8.241 8844	2.013 0342	9.999 9796	0	444
		7804			7804				1	
557	7.987 7257		8.241 8738	7.987 7462		8.241 8844	2.012 2538	9.999 9795		443
558	7.988 5047	7790	8.241 8738	7.988 5253	7791	8.241 8844	2.011 4747	9.999 9794	1	442
559	7.989 2823	7776	8.241 8738	7.989 3030	7777	8.241 8844	2.010 6970	9.999 9793	1	441
		7762			7762				0	
.560	7.990 0585		8.241 8738	7.990 0792		8.241 8844	2.009 9208	9.999 9793		**.440**
		7748			7749				1	
561	7.990 8333		8.241 8738	7.990 8541		8.241 8844	2.009 1459	9.999 9792		439
562	7.991 6067	7734	8.241 8738	7.991 6276	7735	8.241 8844	2.008 3724	9.999 9791	1	438
563	7.992 3788	7721	8.241 8738	7.992 3997	7721	8.241 8844	2.007 6003	9.999 9790	1	437
		7707			7708				0	
564	7.993 1495		8.241 8738	7.993 1705		8.241 8844	2.006 8295	9.999 9790		436
565	7.993 9188	7693	8.241 8738	7.993 9399	7694	8.241 8844	2.006 0601	9.999 9789	1	435
566	7.994 6867	7679	8.241 8738	7.994 7079	7680	8.241 8844	2.005 2921	9.999 9788	1	434
		7666			7667				1	
567	7.995 4533		8.241 8738	7.995 4746		8.241 8844	2.004 5254	9.999 9787		433
568	7.996 2186	7653	8.241 8738	7.996 2399	7653	8.241 8844	2.003 7601	9.999 9787	0	432
569	7.996 9825	7639	8.241 8738	7.997 0039	7640	8.241 8844	2.002 9961	9.999 9786	1	431
		7626			7627				1	
.570	7.997 7451		8.241 8738	7.997 7666		8.241 8844	2.002 2334	9.999 9785		**.430**
		7612			7613				1	
571	7.998 5063		8.241 8738	7.998 5279		8.241 8844	2.001 4721	9.999 9784		429
572	7.999 2662	7599	8.241 8738	7.999 2878	7599	8.241 8844	2.000 7122	9.999 9784	0	428
573	8.000 0248	7586	8.241 8738	8.000 0465	7587	8.241 8844	1.999 9535	9.999 9783	1	427
		7572			7573				1	
574	8.000 7820		8.241 8738	8.000 8038		8.241 8844	1.999 1962	9.999 9782		426
575	8.001 5379	7559	8.241 8738	8.001 5598	7560	8.241 8844	1.998 4402	9.999 9781	1	425
576	8.002 2925	7546	8.241 8738	8.002 3145	7547	8.241 8844	1.997 6855	9.999 9781	0	424
		7533			7534				1	
577	8.003 0458		8.241 8738	8.003 0679		8.241 8844	1.996 9321	9.999 9780		423
578	8.003 7978	7520	8.241 8738	8.003 8199	7520	8.241 8844	1.996 1801	9.999 9779	1	422
579	8.004 5485	7507	8.241 8738	8.004 5707	7508	8.241 8844	1.995 4293	9.999 9778	1	421
		7494			7495				1	
.580	8.005 2979		8.241 8738	8.005 3202		8.241 8844	1.994 6798	9.999 9777		**.420**
		7482			7482				0	
581	8.006 0461		8.241 8738	8.006 0684		8.241 8844	1.993 9316	9.999 9777		419
582	8.006 7929	7468	8.241 8738	8.006 8153	7469	8.241 8844	1.993 1847	9.999 9776	1	418
583	8.007 5384	7455	8.241 8738	8.007 5609	7456	8.241 8844	1.992 4391	9.999 9775	1	417
		7443			7444				1	
584	8.008 2827		8.241 8738	8.008 3053		8.241 8844	1.991 6947	9.999 9774		416
585	8.009 0257	7430	8.241 8738	8.009 0483	7430	8.241 8844	1.990 9517	9.999 9774	0	415
586	8.009 7674	7417	8.241 8738	8.009 7901	7418	8.241 8844	1.990 2099	9.999 9773	1	414
		7405			7406				1	
587	8.010 5079		8.241 8738	8.010 5307		8.241 8844	1.989 4693	9.999 9772		413
588	8.011 2471	7392	8.241 8738	8.011 2699	7392	8.241 8844	1.988 7301	9.999 9771	1	412
589	8.011 9850	7379	8.241 8738	8.012 0080	7381	8.241 8844	1.987 9920	9.999 9771	0	411
		7367			7367				1	
.590	8.012 7217		8.241 8738	8.012 7447		8.241 8844	1.987 2553	9.999 9770		**.410**
		7354			7356				1	
591	8.013 4571		8.241 8738	8.013 4803		8.241 8844	1.986 5197	9.999 9769		409
592	8.014 1913	7342	8.241 8738	8.014 2145	7342	8.241 8844	1.985 7855	9.999 9768	1	408
593	8.014 9243	7330	8.241 8738	8.014 9476	7331	8.241 8844	1.985 0524	9.999 9767	1	407
		7317			7318				0	
594	8.015 6560		8.241 8738	8.015 6794		8.241 8844	1.984 3206	9.999 9767		406
595	8.016 3865	7305	8.241 8738	8.016 4099	7305	8.241 8844	1.983 5901	9.999 9766	1	405
596	8.017 1158	7293	8.241 8738	8.017 1393	7294	8.241 8844	1.982 8607	9.999 9765	1	404
		7280			7281				1	
597	8.017 8438		8.241 8738	8.017 8674		8.241 8844	1.982 1326	9.999 9764		403
598	8.018 5707	7269	8.241 8738	8.018 5943	7269	8.241 8844	1.981 4057	9.999 9763	1	402
599	8.019 2963	7256	8.241 8738	8.019 3200	7257	8.241 8844	1.980 6800	9.999 9763	0	401
		7244			7245				1	
.600	8.020 0207		8.241 8738	8.020 0445		8.241 8844	1.979 9555	9.999 9762		**.400**
	cos	d		cotg	d		tang	sin	d	**89°**

$89^\circ.450 - 89^\circ.400$

$0^\circ.600 - 0^\circ.650$

0°	sin	d	S	tang	d	T	cotg	cos	d	
.600	8.020 0207		8.241 8738	8.020 0445		8.241 8844	1.979 9555	9.999 9762		**.400**
		7232			7233				1	
601	8.020 7439		8.241 8738	8.020 7678		8.241 8844	1.979 2322	9.999 9761		399
602	8.021 4659	7220	8.241 8738	8.021 4898	7220	8.241 8844	1.978 5102	9.999 9760	1	398
603	8.022 1867	7208	8.241 8738	8.022 2107	7209	8.241 8844	1.977 7893	9.999 9759	1	397
		7196			7197				0	
604	8.022 9063		8.241 8738	8.022 9304		8.241 8844	1.977 0696	9.999 9759		396
605	8.023 6247	7184	8.241 8738	8.023 6489	7185	8.241 8844	1.976 3511	9.999 9758	1	395
606	8.024 3419	7172	8.241 8738	8.024 3662	7173	8.241 8844	1.975 6338	9.999 9757	1	394
		7160			7161				1	
607	8.025 0579		8.241 8738	8.025 0823		8.241 8844	1.974 9177	9.999 9756		393
608	8.025 7728	7149	8.241 8738	8.025 7972	7149	8.241 8844	1.974 2028	9.999 9755	1	392
609	8.026 4865	7137	8.241 8738	8.026 5110	7138	8.241 8844	1.973 4890	9.999 9755	0	391
		7125			7126				1	
.610	8.027 1990		8.241 8738	8.027 2236		8.241 8844	1.972 7764	9.999 9754		**.390**
		7113			7114				1	
611	8.027 9103		8.241 8738	8.027 9350		8.241 8844	1.972 0650	9.999 9753		389
612	8.028 6205	7102	8.241 8738	8.028 6453	7103	8.241 8844	1.971 3547	9.999 9752	1	388
613	8.029 3296	7091	8.241 8738	8.029 3544	7091	8.241 8844	1.970 6456	9.999 9751	1	387
		7078			7080				0	
614	8.030 0374		8.241 8738	8.030 0624		8.241 8844	1.969 9376	9.999 9751		386
615	8.030 7441	7067	8.241 8738	8.030 7692	7068	8.241 8844	1.969 2308	9.999 9750	1	385
616	8.031 4497	7056	8.241 8738	8.031 4748	7056	8.241 8844	1.968 5252	9.999 9749	1	384
		7044			7045				1	
617	8.032 1541		8.241 8738	8.032 1793		8.241 8844	1.967 8207	9.999 9748		383
618	8.032 8574	7033	8.241 8738	8.032 8827	7034	8.241 8844	1.967 1173	9.999 9747	1	382
619	8.033 5596	7022	8.241 8738	8.033 5849	7022	8.241 8844	1.966 4151	9.999 9747	0	381
		7010			7011				1	
.620	8.034 2606		8.241 8738	8.034 2860		8.241 8844	1.965 7140	9.999 9746		**.380**
		6999			7000				1	
621	8.034 9605		8.241 8738	8.034 9860		8.241 8844	1.965 0140	9.999 9745		379
622	8.035 6592	6987	8.241 8738	8.035 6848	6988	8.241 8844	1.964 3152	9.999 9744	1	378
623	8.036 3569	6977	8.241 8738	8.036 3825	6977	8.241 8844	1.963 6175	9.999 9743	1	377
		6965			6966				1	
624	8.037 0534		8.241 8738	8.037 0791		8.241 8844	1.962 9209	9.999 9742		376
625	8.037 7488	6954	8.241 8738	8.037 7746	6955	8.241 8844	1.962 2254	9.999 9742	0	375
626	8.038 4431	6943	8.241 8738	8.038 4690	6944	8.241 8844	1.961 5310	9.999 9741	1	374
		6931			6932				1	
627	8.039 1362		8.241 8738	8.039 1622		8.241 8844	1.960 8378	9.999 9740		373
628	8.039 8283	6921	8.241 8738	8.039 8544	6922	8.241 8844	1.960 1456	9.999 9739	1	372
629	8.040 5193	6910	8.241 8738	8.040 5455	6911	8.241 8844	1.959 4545	9.999 9738	1	371
		6899			6899				1	
.630	8.041 2092		8.241 8738	8.041 2354		8.241 8844	1.958 7646	9.999 9737		**.370**
		6887			6889				0	
631	8.041 8979		8.241 8738	8.041 9243		8.241 8844	1.958 0757	9.999 9737		369
632	8.042 5856	6877	8.241 8738	8.042 6121	6878	8.241 8844	1.957 3879	9.999 9736	1	368
633	8.043 2722	6866	8.241 8738	8.043 2987	6866	8.241 8844	1.956 7013	9.999 9735	1	367
		6856			6857				1	
634	8.043 9578		8.241 8738	8.043 9844		8.241 8844	1.956 0156	9.999 9734		366
635	8.044 6422	6844	8.241 8738	8.044 6689	6845	8.241 8844	1.955 3311	9.999 9733	1	365
636	8.045 3256	6834	8.241 8738	8.045 3523	6834	8.241 8844	1.954 6477	9.999 9732	1	364
		6823			6824				0	
637	8.046 0079		8.241 8738	8.046 0347		8.241 8844	1.953 9653	9.999 9732		363
638	8.046 6891	6812	8.241 8738	8.046 7160	6813	8.241 8844	1.953 2840	9.999 9731	1	362
639	8.047 3692	6801	8.241 8738	8.047 3962	6802	8.241 8844	1.952 6038	9.999 9730	1	361
		6791			6792				1	
.640	8.048 0483		8.241 8738	8.048 0754		8.241 8844	1.951 9246	9.999 9729		**.360**
		6780			6781				1	
641	8.048 7263		8.241 8738	8.048 7535		8.241 8844	1.951 2465	9.999 9728		359
642	8.049 4033	6770	8.241 8738	8.049 4306	6771	8.241 8844	1.950 5694	9.999 9727	1	358
643	8.050 0792	6759	8.241 8738	8.050 1066	6760	8.241 8844	1.949 8934	9.999 9727	0	357
		6749			6749				1	
644	8.050 7541		8.241 8738	8.050 7815		8.241 8844	1.949 2185	9.999 9726		356
645	8.051 4279	6738	8.241 8738	8.051 4554	6739	8.241 8844	1.948 5446	9.999 9725	1	355
646	8.052 1007	6728	8.241 8738	8.052 1283	6729	8.241 8844	1.947 8717	9.999 9724	1	354
		6717			6718				1	
647	8.052 7724		8.241 8738	8.052 8001		8.241 8844	1.947 1999	9.999 9723		353
648	8.053 4431	6707	8.241 8738	8.053 4709	6708	8.241 8844	1.946 5291	9.999 9722	1	352
649	8.054 1128	6697	8.241 8738	8.054 1406	6697	8.241 8844	1.945 8594	9.999 9721	1	351
		6686			6688				0	
.650	8.054 7814		8.241 8738	8.054 8094		8.241 8844	1.945 1906	9.999 9721		**.350**
	cos	d		cotg	d		tang	sin	d	**89°**

$89^\circ.400 - 89^\circ.350$

$0^\circ.650 - 0^\circ.700$

0°	sin	d	S	tang	d	T	cotg	cos	d	
.650	8.054 7814		8.241 8738	8.054 8094		8.241 8844	1.945 1906	9.999 9721		**.350**
		6676			6676				1	
651	8.055 4490		8.241 8738	8.055 4770		8.241 8844	1.944 5230	9.999 9720		349
652	8.056 1156	6666	8.241 8738	8.056 1437	6667	8.241 8844	1.943 8563	9.999 9719	1	348
653	8.056 7811	6655	8.241 8738	8.056 8094	6657	8.241 8844	1.943 1906	9.999 9718	1	347
		6646			6646				1	
654	8.057 4457		8.241 8738	8.057 4740		8.241 8844	1.942 5260	9.999 9717		346
655	8.058 1092	6635	8.241 8738	8.058 1376	6636	8.241 8844	1.941 8624	9.999 9716	1	345
656	8.058 7717	6625	8.241 8738	8.058 8002	6626	8.241 8844	1.941 1998	9.999 9715	1	344
		6615			6616				1	
657	8.059 4332		8.241 8738	8.059 4618		8.241 8844	1.940 5382	9.999 9714		343
658	8.060 0937	6605	8.241 8738	8.060 1224	6606	8.241 8844	1.939 8776	9.999 9714	0	342
659	8.060 7532	6595	8.241 8738	8.060 7819	6595	8.241 8844	1.939 2181	9.999 9713	1	341
		6585			6586				1	
.660	8.061 4117		8.241 8738	8.061 4405		8.241 8844	1.938 5595	9.999 9712		**.340**
		6575			6576				1	
661	8.062 0692		8.241 8738	8.062 0981		8.241 8844	1.937 9019	9.999 9711		339
662	8.062 7257	6565	8.241 8738	8.062 7547	6566	8.241 8844	1.937 2453	9.999 9710	1	338
663	8.063 3812	6555	8.241 8738	8.063 4103	6556	8.241 8844	1.936 5897	9.999 9709	1	337
		6545			6546				1	
664	8.064 0357		8.241 8738	8.064 0649		8.241 8844	1.935 9351	9.999 9708		336
665	8.064 6893	6536	8.241 8738	8.064 7185	6536	8.241 8844	1.935 2815	9.999 9707	1	335
666	8.065 3418	6525	8.241 8738	8.065 3712	6527	8.241 8844	1.934 6288	9.999 9707	0	334
		6516			6516				1	
667	8.065 9934		8.241 8738	8.066 0228		8.241 8844	1.933 9772	9.999 9706		333
668	8.066 6440	6506	8.241 8738	8.066 6735	6507	8.241 8844	1.933 3265	9.999 9705	1	332
669	8.067 2936	6496	8.241 8738	8.067 3232	6497	8.241 8844	1.932 6768	9.999 9704	1	331
		6487			6488				1	
.670	8.067 9423		8.241 8738	8.067 9720		8.241 8844	1.932 0280	9.999 9703		**.330**
		6477			6477				1	
671	8.068 5900		8.241 8738	8.068 6197		8.241 8844	1.931 3803	9.999 9702		329
672	8.069 2367	6467	8.241 8738	8.069 2666	6469	8.241 8844	1.930 7334	9.999 9701	1	328
673	8.069 8824	6457	8.241 8738	8.069 9124	6458	8.241 8844	1.930 0876	9.999 9700	1	327
		6448			6449				0	
674	8.070 5272		8.241 8738	8.070 5573		8.241 8844	1.929 4427	9.999 9700		326
675	8.071 1711	6439	8.241 8738	8.071 2012	6439	8.241 8844	1.928 7988	9.999 9699	1	325
676	8.071 8140	6429	8.241 8738	8.071 8442	6430	8.241 8844	1.928 1558	9.999 9698	1	324
		6419			6420				1	
677	8.072 4559		8.241 8738	8.072 4862		8.241 8844	1.927 5138	9.999 9697		323
678	8.073 0969	6410	8.241 8738	8.073 1273	6411	8.241 8844	1.926 8727	9.999 9696	1	322
679	8.073 7370	6401	8.241 8738	8.073 7675	6402	8.241 8844	1.926 2325	9.999 9695	1	321
		6391			6392				1	
.680	8.074 3761		8.241 8738	8.074 4067		8.241 8844	1.925 5933	9.999 9694		**.320**
		6382			6382				1	
681	8.075 0143		8.241 8738	8.075 0449		8.241 8844	1.924 9551	9.999 9693		319
682	8.075 6515	6372	8.241 8738	8.075 6823	6374	8.241 8844	1.924 3177	9.999 9692	1	318
683	8.076 2878	6363	8.241 8738	8.076 3186	6363	8.241 8844	1.923 6814	9.999 9691	1	317
		6354			6355				0	
684	8.076 9232		8.241 8738	8.076 9541		8.241 8844	1.923 0459	9.999 9691		316
685	8.077 5576	6344	8.241 8738	8.077 5886	6345	8.241 8844	1.922 4114	9.999 9690	1	315
686	8.078 1911	6335	8.241 8738	8.078 2222	6336	8.241 8844	1.921 7778	9.999 9689	1	314
		6326			6327				1	
687	8.078 8237		8.241 8738	8.078 8549		8.241 8844	1.921 1451	9.999 9688		313
688	8.079 4554	6317	8.241 8738	8.079 4867	6318	8.241 8844	1.920 5133	9.999 9687	1	312
689	8.080 0861	6307	8.241 8738	8.080 1175	6308	8.241 8844	1.919 8825	9.999 9686	1	311
		6299			6300				1	
.690	8.080 7160		8.241 8738	8.080 7475		8.241 8844	1.919 2525	9.999 9685		**.310**
		6289			6290				1	
691	8.081 3449		8.241 8738	8.081 3765		8.241 8844	1.918 6235	9.999 9684		309
692	8.081 9729	6280	8.241 8738	8.082 0046	6281	8.241 8844	1.917 9954	9.999 9683	1	308
693	8.082 6000	6271	8.241 8738	8.082 6318	6272	8.241 8844	1.917 3682	9.999 9682	1	307
		6262			6263				1	
694	8.083 2262		8.241 8738	8.083 2581		8.241 8844	1.916 7419	9.999 9681		306
695	8.083 8515	6253	8.241 8738	8.083 8835	6254	8.241 8844	1.916 1165	9.999 9680	1	305
696	8.084 4759	6244	8.241 8738	8.084 5080	6245	8.241 8844	1.915 4920	9.999 9680	0	304
		6235			6236				1	
697	8.085 0994		8.241 8738	8.085 1316		8.241 8844	1.914 8684	9.999 9679		303
698	8.085 7220	6226	8.241 8738	8.085 7543	6227	8.241 8844	1.914 2457	9.999 9678	1	302
699	8.086 3438	6218	8.241 8738	8.086 3761	6218	8.241 8844	1.913 6239	9.999 9677	1	301
		6208			6209				1	
.700	8.086 9646		8.241 8738	8.086 9970		8.241 8844	1.913 0030	9.999 9676		**.300**
	cos	d		cotg	d		tang	sin	d	**89°**

$89^\circ.350 - 89^\circ.300$

$0^\circ.700 - 0^\circ.750$

0°	sin	d	S	tang	d	T	cotg	cos	d	
.700	8.086 9646		8.241 8738	8.086 9970		8.241 8844	1.913 0030	9.999 9676		**.300**
		6200			6201				1	
701	8.087 5846		8.241 8738	8.087 6171		8.241 8844	1.912 3829	9.999 9675		299
702	8.088 2036	6190	8.241 8738	8.088 2362	6191	8.241 8844	1.911 7638	9.999 9674	1	298
703	8.088 8218	6182	8.241 8738	8.088 8545	6183	8.241 8844	1.911 1455	9.999 9673	1	297
		6173			6174				1	
704	8.089 4391		8.241 8738	8.089 4719		8.241 8844	1.910 5281	9.999 9672		296
705	8.090 0555	6164	8.241 8738	8.090 0884	6165	8.241 8844	1.909 9116	9.999 9671	1	295
706	8.090 6711	6156	8.241 8738	8.090 7040	6156	8.241 8844	1.909 2960	9.999 9670	1	294
		6147			6148				1	
707	8.091 2858		8.241 8738	8.091 3188		8.241 8844	1.908 6812	9.999 9669		293
708	8.091 8996	6138	8.241 8738	8.091 9327	6139	8.241 8844	1.908 0673	9.999 9668	1	292
709	8.092 5125	6129	8.241 8738	8.092 5458	6131	8.241 8844	1.907 4542	9.999 9667	1	291
		6121			6121				0	
.710	8.093 1246		8.241 8738	8.093 1579		8.241 8844	1.906 8421	9.999 9667		**.290**
		6112			6114				1	
711	8.093 7358		8.241 8738	8.093 7693		8.241 8844	1.906 2307	9.999 9666		289
712	8.094 3462	6104	8.241 8738	8.094 3797	6104	8.241 8844	1.905 6203	9.999 9665	1	288
713	8.094 9557	6095	8.241 8738	8.094 9893	6096	8.241 8844	1.905 0107	9.999 9664	1	287
		6086			6088				1	
714	8.095 5643		8.241 8738	8.095 5981		8.241 8844	1.904 4019	9.999 9663		286
715	8.096 1721	6078	8.241 8738	8.096 2060	6079	8.241 8844	1.903 7940	9.999 9662	1	285
716	8.096 7791	6070	8.241 8738	8.096 8130	6070	8.241 8844	1.903 1870	9.999 9661	1	284
		6061			6062				1	
717	8.097 3852		8.241 8738	8.097 4192		8.241 8844	1.902 5808	9.999 9660		283
718	8.097 9904	6052	8.241 8738	8.098 0245	6053	8.241 8844	1.901 9755	9.999 9659	1	282
719	8.098 5949	6045	8.241 8738	8.098 6291	6046	8.241 8844	1.901 3709	9.999 9658	1	281
		6035			6036				1	
.720	8.099 1984		8.241 8738	8.099 2327		8.241 8844	1.900 7673	9.999 9657		**.280**
		6028			6029				1	
721	8.099 8012		8.241 8738	8.099 8356		8.241 8844	1.900 1644	9.999 9656		279
722	8.100 4031	6019	8.241 8738	8.100 4376	6020	8.241 8844	1.899 5624	9.999 9655	1	278
723	8.101 0041	6010	8.241 8738	8.101 0387	6011	8.241 8844	1.898 9613	9.999 9654	1	277
		6003			6003				1	
724	8.101 6044		8.241 8738	8.101 6390		8.241 8844	1.898 3610	9.999 9653		276
725	8.102 2038	5994	8.241 8738	8.102 2386	5996	8.241 8844	1.897 7614	9.999 9652	1	275
726	8.102 8024	5986	8.241 8738	8.102 8372	5986	8.241 8844	1.897 1628	9.999 9651	1	274
		5977			5979				1	
727	8.103 4001		8.241 8738	8.103 4351		8.241 8844	1.896 5649	9.999 9650		273
728	8.103 9971	5970	8.241 8738	8.104 0321	5970	8.241 8844	1.895 9679	9.999 9649	1	272
729	8.104 5932	5961	8.241 8738	8.104 6283	5962	8.241 8844	1.895 3717	9.999 9648	1	271
		5953			5954				1	
.730	8.105 1885		8.241 8738	8.105 2237		8.241 8844	1.894 7763	9.999 9647		**.270**
		5945			5946				0	
731	8.105 7830		8.241 8738	8.105 8183		8.241 8844	1.894 1817	9.999 9647		269
732	8.106 3766	5936	8.241 8738	8.106 4121	5938	8.241 8844	1.893 5879	9.999 9646	1	268
733	8.106 9695	5929	8.241 8738	8.107 0050	5929	8.241 8844	1.892 9950	9.999 9645	1	267
		5920			5922				1	
734	8.107 5615		8.241 8738	8.107 5972		8.241 8844	1.892 4028	9.999 9644		266
735	8.108 1528	5913	8.241 8738	8.108 1885	5913	8.241 8844	1.891 8115	9.999 9643	1	265
736	8.108 7432	5904	8.241 8738	8.108 7791	5906	8.241 8844	1.891 2209	9.999 9642	1	264
		5897			5897				1	
737	8.109 3329		8.241 8738	8.109 3688		8.241 8844	1.890 6312	9.999 9641		263
738	8.109 9217	5888	8.241 8738	8.109 9577	5889	8.241 8844	1.890 0423	9.999 9640	1	262
739	8.110 5098	5881	8.241 8738	8.110 5459	5882	8.241 8844	1.889 4541	9.999 9639	1	261
		5872			5873				1	
.740	8.111 0970		8.241 8738	8.111 1332		8.241 8844	1.888 8668	9.999 9638		**.260**
		5865			5866				1	
741	8.111 6835		8.241 8738	8.111 7198		8.241 8844	1.888 2802	9.999 9637		259
742	8.112 2691	5856	8.241 8738	8.112 3056	5858	8.241 8844	1.887 6944	9.999 9636	1	258
743	8.112 8540	5849	8.241 8738	8.112 8905	5849	8.241 8844	1.887 1095	9.999 9635	1	257
		5841			5842				1	
744	8.113 4381		8.241 8738	8.113 4747		8.241 8844	1.886 5253	9.999 9634		256
745	8.114 0214	5833	8.241 8738	8.114 0581	5834	8.241 8844	1.885 9419	9.999 9633	1	255
746	8.114 6039	5825	8.241 8738	8.114 6407	5826	8.241 8844	1.885 3593	9.999 9632	1	254
		5818			5819				1	
747	8.115 1857		8.241 8738	8.115 2226		8.241 8844	1.884 7774	9.999 9631		253
748	8.115 7666	5809	8.241 8738	8.115 8036	5810	8.241 8844	1.884 1964	9.999 9630	1	252
749	8.116 3468	5802	8.241 8738	8.116 3839	5803	8.241 8844	1.883 6161	9.999 9629	1	251
		5794			5795				1	
.750	8.116 9262		8.241 8738	8.116 9634		8.241 8844	1.883 0366	9.999 9628		**.250**
	cos	d		cotg	d		tang	sin	d	**89°**

$89^\circ.300 - 89^\circ.250$

0°.750 — 0°.800

0°	sin	d	S	tang	d	T	cotg	cos	d	
.750	8.116 9262		8.241 8738	8.116 9634		8.241 8844	1.883 0366	9.999 9628		**.250**
		5787			5788				1	
751	8.117 5049		8.241 8738	8.117 5422		8.241 8844	1.882 4578	9.999 9627		249
752	8.118 0827	5778	8.241 8738	8.118 1201	5779	8.241 8844	1.881 8799	9.999 9626	1	248
753	8.118 6598	5771	8.241 8738	8.118 6973	5772	8.241 8844	1.881 3027	9.999 9625	1	247
		5764			5765				1	
754	8.119 2362		8.241 8738	8.119 2738		8.241 8844	1.880 7262	9.999 9624		246
755	8.119 8118	5756	8.241 8738	8.119 8495	5757	8.241 8844	1.880 1505	9.999 9623	1	245
756	8.120 3866	5748	8.241 8738	8.120 4244	5749	8.241 8844	1.879 5756	9.999 9622	1	244
		5740			5741				1	
757	8.120 9606		8.241 8738	8.120 9985		8.241 8844	1.879 0015	9.999 9621		243
758	8.121 5339	5733	8.241 8738	8.121 5719	5734	8.241 8844	1.878 4281	9.999 9620	1	242
759	8.122 1064	5725	8.241 8738	8.122 1445	5726	8.241 8844	1.877 8555	9.999 9619	1	241
		5718			5719				1	
.760	8.122 6782		8.241 8738	8.122 7164		8.241 8844	1.877 2836	9.999 9618		**.240**
		5711			5712				1	
761	8.123 2493		8.241 8738	8.123 2876		8.241 8844	1.876 7124	9.999 9617		239
762	8.123 8195	5702	8.241 8738	8.123 8579	5703	8.241 8844	1.876 1421	9.999 9616	1	238
763	8.124 3891	5696	8.241 8738	8.124 4276	5697	8.241 8844	1.875 5724	9.999 9615	1	237
		5688			5689				1	
764	8.124 9579		8.241 8738	8.124 9965		8.241 8844	1.875 0035	9.999 9614		236
765	8.125 5259	5680	8.241 8738	8.125 5646	5681	8.241 8844	1.874 4354	9.999 9613	1	235
766	8.126 0932	5673	8.241 8738	8.126 1320	5674	8.241 8844	1.873 8680	9.999 9612	1	234
		5666			5667				1	
767	8.126 6598		8.241 8738	8.126 6987		8.241 8844	1.873 3013	9.999 9611		233
768	8.127 2256	5658	8.241 8738	8.127 2646	5659	8.241 8844	1.872 7354	9.999 9610	1	232
769	8.127 7907	5651	8.241 8738	8.127 8298	5652	8.241 8844	1.872 1702	9.999 9609	1	231
		5643			5644				1	
.770	8.128 3550		8.241 8738	8.128 3942		8.241 8844	1.871 6058	9.999 9608		**.230**
		5636			5638				1	
771	8.128 9186		8.241 8738	8.128 9580		8.241 8844	1.871 0420	9.999 9607		229
772	8.129 4815	5629	8.241 8738	8.129 5210	5630	8.241 8844	1.870 4790	9.999 9606	1	228
773	8.130 0437	5622	8.241 8738	8.130 0832	5622	8.241 8844	1.869 9168	9.999 9605	1	227
		5614			5615				1	
774	8.130 6051		8.241 8738	8.130 6447		8.241 8844	1.869 3553	9.999 9604		226
775	8.131 1658	5607	8.241 8738	8.131 2056	5609	8.241 8844	1.868 7944	9.999 9603	1	225
776	8.131 7258	5600	8.241 8738	8.131 7656	5600	8.241 8844	1.868 2344	9.999 9602	1	224
		5593			5594				1	
777	8.132 2851		8.241 8738	8.132 3250		8.241 8844	1.867 6750	9.999 9601		223
778	8.132 8436	5585	8.241 8738	8.132 8837	5587	8.241 8844	1.867 1163	9.999 9600	1	222
779	8.133 4014	5578	8.241 8738	8.133 4416	5579	8.241 8844	1.866 5584	9.999 9599	1	221
		5572			5572				1	
.780	8.133 9586		8.241 8738	8.133 9988		8.241 8844	1.866 0012	9.999 9598		**.220**
		5564			5565				1	
781	8.134 5150		8.241 8738	8.134 5553		8.241 8844	1.865 4447	9.999 9597		219
782	8.135 0706	5556	8.241 8738	8.135 1111	5558	8.241 8844	1.864 8889	9.999 9595	2	218
783	8.135 6256	5550	8.241 8738	8.135 6662	5551	8.241 8844	1.864 3338	9.999 9594	1	217
		5543			5543				1	
784	8.136 1799		8.241 8738	8.136 2205		8.241 8844	1.863 7795	9.999 9593		216
785	8.136 7334	5535	8.241 8738	8.136 7742	5537	8.241 8844	1.863 2258	9.999 9592	1	215
786	8.137 2863	5529	8.241 8738	8.137 3272	5530	8.241 8844	1.862 6728	9.999 9591	1	214
		5521			5522				1	
787	8.137 8384		8.241 8738	8.137 8794		8.241 8844	1.862 1206	9.999 9590		213
788	8.138 3899	5515	8.241 8738	8.138 4310	5516	8.241 8844	1.861 5690	9.999 9589	1	212
789	8.138 9406	5507	8.241 8738	8.138 9818	5508	8.241 8844	1.861 0182	9.999 9588	1	211
		5501			5502				1	
.790	8.139 4907		8.241 8738	8.139 5320		8.241 8844	1.860 4680	9.999 9587		**.210**
		5494			5494				1	
791	8.140 0401		8.241 8738	8.140 0814		8.241 8844	1.859 9186	9.999 9586		209
792	8.140 5887	5486	8.241 8738	8.140 6302	5488	8.241 8844	1.859 3698	9.999 9585	1	208
793	8.141 1367	5480	8.241 8738	8.141 1783	5481	8.241 8844	1.858 8217	9.999 9584	1	207
		5473			5474				1	
794	8.141 6840		8.241 8738	8.141 7257		8.241 8844	1.858 2743	9.999 9583		206
795	8.142 2306	5466	8.241 8738	8.142 2724	5467	8.241 8844	1.857 7276	9.999 9582	1	205
796	8.142 7765	5459	8.241 8738	8.142 8184	5460	8.241 8844	1.857 1816	9.999 9581	1	204
		5452			5453				1	
797	8.143 3217		8.241 8738	8.143 3637		8.241 8844	1.856 6363	9.999 9580		203
798	8.143 8662	5445	8.241 8738	8.143 9083	5446	8.241 8844	1.856 0917	9.999 9579	1	202
799	8.144 4101	5439	8.241 8738	8.144 4523	5440	8.241 8844	1.855 5477	9.999 9578	1	201
		5431			5433				1	
.800	8.144 9532		8.241 8738	8.144 9956		8.241 8844	1.855 0044	9.999 9577		**.200**
	cos	d		cotg	d		tang	sin	d	**89°**

89°.250 — 89°.200

0°.800 — 0°.850

0°	sin	d	S	tang	d	T	cotg	cos	d	
.800	8.144 9532		8.241 8738	8.144 9956		8.241 8844	1.855 0044	9.999 9577		.200
		5425			5426				1	
801	8.145 4957		8.241 8738	8.145 5382		8.241 8844	1.854 4618	9.999 9576		199
802	8.146 0376	5419	8.241 8738	8.146 0801	5419	8.241 8844	1.853 9199	9.999 9575	1	198
803	8.146 5787	5411	8.241 8738	8.146 6213	5412	8.241 8844	1.853 3787	9.999 9573	2	197
		5405			5406				1	
804	8.147 1192		8.241 8738	8.147 1619		8.241 8844	1.852 8381	9.999 9572		196
805	8.147 6590	5398	8.241 8738	8.147 7018	5399	8.241 8844	1.852 2982	9.999 9571	1	195
806	8.148 1981	5391	8.241 8738	8.148 2411	5393	8.241 8844	1.851 7589	9.999 9570	1	194
		5384			5385				1	
807	8.148 7365		8.241 8738	8.148 7796		8.241 8844	1.851 2204	9.999 9569		193
808	8.149 2743	5378	8.241 8738	8.149 3175	5379	8.241 8844	1.850 6825	9.999 9568	1	192
809	8.149 8115	5372	8.241 8738	8.149 8548	5373	8.241 8844	1.850 1452	9.999 9567	1	191
		5364			5365				1	
.810	8.150 3479		8.241 8738	8.150 3913		8.241 8844	1.849 6087	9.999 9566		.190
		5358			5359				1	
811	8.150 8837		8.241 8738	8.150 9272		8.241 8844	1.849 0728	9.999 9565		189
812	8.151 4189	5352	8.241 8738	8.151 4625	5353	8.241 8844	1.848 5375	9.999 9564	1	188
813	8.151 9533	5344	8.241 8738	8.151 9971	5346	8.241 8844	1.848 0029	9.999 9563	1	187
		5339			5339				1	
814	8.152 4872		8.241 8738	8.152 5310		8.241 8844	1.847 4690	9.999 9562		186
815	8.153 0203	5331	8.241 8738	8.153 0643	5333	8.241 8844	1.846 9357	9.999 9561	1	185
816	8.153 5528	5325	8.241 8738	8.153 5969	5326	8.241 8844	1.846 4031	9.999 9560	1	184
		5319			5320				2	
817	8.154 0847		8.241 8738	8.154 1289		8.241 8844	1.845 8711	9.999 9558		183
818	8.154 6159	5312	8.241 8738	8.154 6602	5313	8.241 8844	1.845 3398	9.999 9557	1	182
819	8.155 1465	5306	8.241 8738	8.155 1908	5306	8.241 8844	1.844 8092	9.999 9556	1	181
		5299			5301				1	
.820	8.155 6764		8.241 8738	8.155 7209		8.241 8844	1.844 2791	9.999 9555		.180
		5293			5293				1	
821	8.156 2057		8.241 8738	8.156 2502		8.241 8844	1.843 7498	9.999 9554		179
822	8.156 7343	5286	8.241 8738	8.156 7790	5288	8.241 8844	1.843 2210	9.999 9553	1	178
823	8.157 2623	5280	8.241 8738	8.157 3071	5281	8.241 8844	1.842 6929	9.999 9552	1	177
		5273			5274				1	
824	8.157 7896		8.241 8738	8.157 8345		8.241 8844	1.842 1655	9.999 9551		176
825	8.158 3163	5267	8.241 8738	8.158 3613	5268	8.241 8844	1.841 6387	9.999 9550	1	175
826	8.158 8424	5261	8.241 8738	8.158 8875	5262	8.241 8844	1.841 1125	9.999 9549	1	174
		5254			5255				1	
827	8.159 3678		8.241 8738	8.159 4130		8.241 8844	1.840 5870	9.999 9548		173
828	8.159 8926	5248	8.241 8738	8.159 9379	5249	8.241 8844	1.840 0621	9.999 9546	2	172
829	8.160 4167	5241	8.241 8738	8.160 4622	5243	8.241 8844	1.839 5378	9.999 9545	1	171
		5236			5236				1	
.830	8.160 9403		8.241 8738	8.160 9858		8.241 8844	1.839 0142	9.999 9544		.170
		5229			5230				1	
831	8.161 4632		8.241 8738	8.161 5088		8.241 8844	1.838 4912	9.999 9543		169
832	8.161 9854	5222	8.241 8738	8.162 0312	5224	8.241 8844	1.837 9688	9.999 9542	1	168
833	8.162 5071	5217	8.241 8738	8.162 5530	5218	8.241 8844	1.837 4470	9.999 9541	1	167
		5210			5211				1	
834	8.163 0281		8.241 8738	8.163 0741		8.241 8844	1.836 9259	9.999 9540		166
835	8.163 5485	5204	8.241 8738	8.163 5946	5205	8.241 8844	1.836 4054	9.999 9539	1	165
836	8.164 0682	5197	8.241 8738	8.164 1145	5199	8.241 8844	1.835 8855	9.999 9538	1	164
		5192			5192				1	
837	8.164 5874		8.241 8738	8.164 6337		8.241 8844	1.835 3663	9.999 9537		163
838	8.165 1059	5185	8.241 8738	8.165 1524	5187	8.241 8844	1.834 8476	9.999 9535	2	162
839	8.165 6238	5179	8.241 8738	8.165 6704	5180	8.241 8844	1.834 3296	9.999 9534	1	161
		5173			5174				1	
.840	8.166 1411		8.241 8738	8.166 1878		8.241 8844	1.833 8122	9.999 9533		.160
		5167			5168				1	
841	8.166 6578		8.241 8738	8.166 7046		8.241 8844	1.833 2954	9.999 9532		159
842	8.167 1738	5160	8.241 8738	8.167 2207	5161	8.241 8844	1.832 7793	9.999 9531	1	158
843	8.167 6893	5155	8.241 8738	8.167 7363	5156	8.241 8844	1.832 2637	9.999 9530	1	157
		5148			5149				1	
844	8.168 2041		8.241 8738	8.168 2512		8.241 8844	1.831 7488	9.999 9529		156
845	8.168 7183	5142	8.241 8738	8.168 7656	5144	8.241 8844	1.831 2344	9.999 9528	1	155
846	8.169 2319	5136	8.241 8738	8.169 2793	5137	8.241 8844	1.830 7207	9.999 9527	1	154
		5131			5131				2	
847	8.169 7450		8.241 8738	8.169 7924		8.241 8844	1.830 2076	9.999 9525		153
848	8.170 2574	5124	8.241 8738	8.170 3049	5125	8.241 8844	1.829 6951	9.999 9524	1	152
849	8.170 7692	5118	8.241 8738	8.170 8168	5119	8.241 8844	1.829 1832	9.999 9523	1	151
		5112			5114				1	
.850	8.171 2804		8.241 8738	8.171 3282		8.241 8844	1.828 6718	9.999 9522		.150
	cos	d		cotg	d		tang	sin	d	89°

89°.200 — 89°.150

$0^\circ.850 - 0^\circ.900$

0°	sin	d	S	tang	d	T	cotg	cos	d	
.850	8.171 2804		8.241 8738	8.171 3282		8.241 8844	1.828 6718	9.999 9522		**.150**
		5106			5107				1	
851	8.171 7910		8.241 8738	8.171 8389		8.241 8844	1.828 1611	9.999 9521		149
852	8.172 3010	5100	8.241 8738	8.172 3490	5101	8.241 8844	1.827 6510	9.999 9520	1	148
853	8.172 8104	5094	8.241 8738	8.172 8585	5095	8.241 8844	1.827 1415	9.999 9519	1	147
		5088			5089				1	
854	8.173 3192		8.241 8738	8.173 3674		8.241 8844	1.826 6326	9.999 9518		146
855	8.173 8274	5082	8.241 8738	8.173 8757	5083	8.241 8844	1.826 1243	9.999 9516	2	145
856	8.174 3350	5076	8.241 8738	8.174 3834	5077	8.241 8844	1.825 6166	9.999 9515	1	144
		5070			5072				1	
857	8.174 8420		8.241 8738	8.174 8906		8.241 8844	1.825 1094	9.999 9514		143
858	8.175 3484	5064	8.241 8738	8.175 3971	5065	8.241 8844	1.824 6029	9.999 9513	1	142
859	8.175 8543	5059	8.241 8738	8.175 9031	5060	8.241 8844	1.824 0969	9.999 9512	1	141
		5052			5053				1	
.860	8.176 3595		8.241 8738	8.176 4084		8.241 8844	1.823 5916	9.999 9511		**.140**
		5047			5048				1	
861	8.176 8642		8.241 8738	8.176 9132		8.241 8844	1.823 0868	9.999 9510		139
862	8.177 3682	5040	8.241 8738	8.177 4174	5042	8.241 8844	1.822 5826	9.999 9508	2	138
863	8.177 8717	5035	8.241 8738	8.177 9210	5036	8.241 8844	1.822 0790	9.999 9507	1	137
		5030			5030				1	
864	8.178 3747		8.241 8738	8.178 4240		8.241 8844	1.821 5760	9.999 9506		136
865	8.178 8770	5023	8.241 8738	8.178 9265	5025	8.241 8844	1.821 0735	9.999 9505	1	135
866	8.179 3787	5017	8.241 8738	8.179 4283	5018	8.241 8844	1.820 5717	9.999 9504	1	134
		5012			5013				1	
867	8.179 8799		8.241 8738	8.179 9296		8.241 8844	1.820 0704	9.999 9503		133
868	8.180 3805	5006	8.241 8738	8.180 4303	5007	8.241 8844	1.819 5697	9.999 9502	1	132
869	8.180 8805	5000	8.241 8738	8.180 9304	5001	8.241 8844	1.819 0696	9.999 9500	2	131
		4994			4996				1	
.870	8.181 3799		8.241 8738	8.181 4300		8.241 8844	1.818 5700	9.999 9499		**.130**
		4989			4990				1	
871	8.181 8788		8.241 8738	8.181 9290		8.241 8844	1.818 0710	9.999 9498		129
872	8.182 3771	4983	8.241 8738	8.182 4274	4984	8.241 8844	1.817 5726	9.999 9497	1	128
873	8.182 8748	4977	8.241 8738	8.182 9252	4978	8.241 8844	1.817 0748	9.999 9496	1	127
		4972			4973				1	
874	8.183 3720		8.241 8738	8.183 4225		8.241 8844	1.816 5775	9.999 9495		126
875	8.183 8685	4965	8.241 8738	8.183 9192	4967	8.241 8844	1.816 0808	9.999 9494	1	125
876	8.184 3646	4961	8.241 8738	8.184 4153	4961	8.241 8844	1.815 5847	9.999 9492	2	124
		4954			4956				1	
877	8.184 8600		8.241 8738	8.184 9109		8.241 8844	1.815 0891	9.999 9491		123
878	8.185 3549	4949	8.241 8738	8.185 4059	4950	8.241 8844	1.814 5941	9.999 9490	1	122
879	8.185 8492	4943	8.241 8738	8.185 9003	4944	8.241 8844	1.814 0997	9.999 9489	1	121
		4938			4939				1	
.880	8.186 3430		8.241 8738	8.186 3942		8.241 8844	1.813 6058	9.999 9488		**.120**
		4932			4933				1	
881	8.186 8362		8.241 8738	8.186 8875		8.241 8844	1.813 1125	9.999 9487		119
882	8.187 3288	4926	8.241 8738	8.187 3803	4928	8.241 8844	1.812 6197	9.999 9485	2	118
883	8.187 8209	4921	8.241 8738	8.187 8725	4922	8.241 8844	1.812 1275	9.999 9484	1	117
		4915			4916				1	
884	8.188 3124		8.241 8738	8.188 3641		8.241 8844	1.811 6359	9.999 9483		116
885	8.188 8034	4910	8.241 8738	8.188 8552	4911	8.241 8844	1.811 1448	9.999 9482	1	115
886	8.189 2938	4904	8.241 8738	8.189 3457	4905	8.241 8844	1.810 6543	9.999 9481	1	114
		4898			4900				1	
887	8.189 7836		8.241 8738	8.189 8357		8.241 8844	1.810 1643	9.999 9480		113
888	8.190 2729	4893	8.241 8738	8.190 3251	4894	8.241 8844	1.809 6749	9.999 9478	2	112
889	8.190 7617	4888	8.241 8738	8.190 8140	4889	8.241 8844	1.809 1860	9.999 9477	1	111
		4882			4883				1	
.890	8.191 2499		8.241 8738	8.191 3023		8.241 8844	1.808 6977	9.999 9476		**.110**
		4877			4878				1	
891	8.191 7376		8.241 8738	8.191 7901		8.241 8844	1.808 2099	9.999 9475		109
892	8.192 2247	4871	8.241 8738	8.192 2773	4872	8.241 8844	1.807 7227	9.999 9474	1	108
893	8.192 7112	4865	8.241 8738	8.192 7640	4867	8.241 8844	1.807 2360	9.999 9472	2	107
		4861			4861				1	
894	8.193 1973		8.241 8738	8.193 2501		8.241 8844	1.806 7499	9.999 9471		106
895	8.193 6827	4854	8.241 8738	8.193 7357	4856	8.241 8844	1.806 2643	9.999 9470	1	105
896	8.194 1677	4850	8.241 8738	8.194 2208	4851	8.241 8844	1.805 7792	9.999 9469	1	104
		4844			4845				1	
897	8.194 6521		8.241 8738	8.194 7053		8.241 8844	1.805 2947	9.999 9468		103
898	8.195 1359	4838	8.241 8738	8.195 1893	4840	8.241 8844	1.804 8107	9.999 9467	1	102
899	8.195 6192	4833	8.241 8738	8.195 6727	4834	8.241 8844	1.804 3273	9.999 9465	2	101
		4828			4829				1	
.900	8.196 1020		8.241 8738	8.196 1556		8.241 8844	1.803 8444	9.999 9464		**.100**
	cos	d		cotg	d		tang	sin	d	89°

$89^\circ.150 - 89^\circ.100$

$0^\circ.900 - 0^\circ.950$

0°	sin	d	S	tang	d	T	cotg	cos	d	
.900	8.196 1020		8.241 8738	8.196 1556		8.241 8844	1.803 8444	9.999 9464		**.100**
		4823			4824				1	
901	8.196 5843		8.241 8738	8.196 6380		8.241 8844	1.803 3620	9.999 9463		099
902	8.197 0660	4817	8.241 8738	8.197 1198	4818	8.241 8844	1.802 8802	9.999 9462	1	098
903	8.197 5471	4811	8.241 8738	8.197 6011	4813	8.241 8844	1.802 3989	9.999 9461	1	097
		4807			4807				2	
904	8.198 0278		8.241 8738	8.198 0818		8.241 8844	1.801 9182	9.999 9459		096
905	8.198 5079	4801	8.241 8738	8.198 5621	4803	8.241 8844	1.801 4379	9.999 9458	1	095
906	8.198 9875	4796	8.241 8738	8.199 0418	4797	8.241 8844	1.800 9582	9.999 9457	1	094
		4790			4791				1	
907	8.199 4665		8.241 8738	8.199 5209		8.241 8844	1.800 4791	9.999 9456		093
908	8.199 9450	4785	8.241 8738	8.199 9996	4787	8.241 8844	1.800 0004	9.999 9455	1	092
909	8.200 4230	4780	8.241 8738	8.200 4777	4781	8.241 8844	1.799 5223	9.999 9453	2	091
		4775			4776				1	
.910	8.200 9005		8.241 8738	8.200 9553		8.241 8844	1.799 0447	9.999 9452		**.090**
		4769			4770				1	
911	8.201 3774		8.241 8738	8.201 4323		8.241 8844	1.798 5677	9.999 9451		089
912	8.201 8539	4765	8.241 8738	8.201 9089	4766	8.241 8844	1.798 0911	9.999 9450	1	088
913	8.202 3298	4759	8.241 8738	8.202 3849	4760	8.241 8844	1.797 6151	9.999 9449	1	087
		4753			4755				2	
914	8.202 8051		8.241 8738	8.202 8604		8.241 8844	1.797 1396	9.999 9447		086
915	8.203 2800	4749	8.241 8738	8.203 3354	4750	8.241 8844	1.796 6646	9.999 9446	1	085
916	8.203 7543	4743	8.241 8738	8.203 8098	4744	8.241 8844	1.796 1902	9.999 9445	1	084
		4739			4740				1	
917	8.204 2282		8.241 8738	8.204 2838		8.241 8844	1.795 7162	9.999 9444		083
918	8.204 7015	4733	8.241 8738	8.204 7572	4734	8.241 8844	1.795 2428	9.999 9443	1	082
919	8.205 1743	4728	8.241 8738	8.205 2301	4729	8.241 8844	1.794 7699	9.999 9441	2	081
		4722			4724				1	
.920	8.205 6465		8.241 8738	8.205 7025		8.241 8844	1.794 2975	9.999 9440		**.080**
		4718			4719				1	
921	8.206 1183		8.241 8738	8.206 1744		8.241 8844	1.793 8256	9.999 9439		079
922	8.206 5895	4712	8.241 8738	8.206 6458	4714	8.241 8844	1.793 3542	9.999 9438	1	078
923	8.207 0603	4708	8.241 8738	8.207 1166	4708	8.241 8844	1.792 8834	9.999 9436	2	077
		4702			4704				1	
924	8.207 5305		8.241 8738	8.207 5870		8.241 8844	1.792 4130	9.999 9435		076
925	8.208 0002	4697	8.241 8738	8.208 0568	4698	8.241 8844	1.791 9432	9.999 9434	1	075
926	8.208 4694	4692	8.241 8738	8.208 5262	4694	8.241 8844	1.791 4738	9.999 9433	1	074
		4688			4688				1	
927	8.208 9382		8.241 8738	8.208 9950		8.241 8844	1.791 0050	9.999 9432		073
928	8.209 4064	4682	8.241 8738	8.209 4633	4683	8.241 8844	1.790 5367	9.999 9430	2	072
929	8.209 8741	4677	8.241 8738	8.209 9311	4678	8.241 8844	1.790 0689	9.999 9429	1	071
		4671			4674				1	
.930	8.210 3412		8.241 8738	8.210 3985		8.241 8844	1.789 6015	9.999 9428		**.070**
		4667			4668				1	
931	8.210 8079		8.241 8738	8.210 8653		8.241 8844	1.789 1347	9.999 9427		069
932	8.211 2741	4662	8.241 8738	8.211 3316	4663	8.241 8844	1.788 6684	9.999 9425	2	068
933	8.211 7398	4657	8.241 8738	8.211 7974	4658	8.241 8844	1.788 2026	9.999 9424	1	067
		4652			4653				1	
934	8.212 2050		8.241 8738	8.212 2627		8.241 8844	1.787 7373	9.999 9423		066
935	8.212 6697	4647	8.241 8738	8.212 7275	4648	8.241 8844	1.787 2725	9.999 9422	1	065
936	8.213 1339	4642	8.241 8738	8.213 1919	4644	8.241 8844	1.786 8081	9.999 9420	2	064
		4637			4638				1	
937	8.213 5976		8.241 8738	8.213 6557		8.241 8844	1.786 3443	9.999 9419		063
938	8.214 0608	4632	8.241 8738	8.214 1190	4633	8.241 8844	1.785 8810	9.999 9418	1	062
939	8.214 5235	4627	8.241 8738	8.214 5818	4628	8.241 8844	1.785 4182	9.999 9417	1	061
		4622			4624				1	
.940	8.214 9857		8.241 8738	8.215 0442		8.241 8844	1.784 9558	9.999 9416		**.060**
		4618			4618				2	
941	8.215 4475		8.241 8738	8.215 5060		8.241 8844	1.784 4940	9.999 9414		059
942	8.215 9087	4612	8.241 8738	8.215 9674	4614	8.241 8844	1.784 0326	9.999 9413	1	058
943	8.216 3695	4608	8.241 8738	8.216 4283	4609	8.241 8844	1.783 5717	9.999 9412	1	057
		4602			4604				1	
944	8.216 8297		8.241 8738	8.216 8887		8.241 8844	1.783 1113	9.999 9411		056
945	8.217 2895	4598	8.241 8738	8.217 3486	4599	8.241 8844	1.782 6514	9.999 9409	2	055
946	8.217 7488	4593	8.241 8738	8.217 8080	4594	8.241 8844	1.782 1920	9.999 9408	1	054
		4588			4589				1	
947	8.218 2076		8.241 8738	8.218 2669		8.241 8844	1.781 7331	9.999 9407		053
948	8.218 6659	4583	8.241 8738	8.218 7253	4584	8.241 8844	1.781 2747	9.999 9406	1	052
949	8.219 1237	4578	8.241 8738	8.219 1833	4580	8.241 8844	1.780 8167	9.999 9404	2	051
		4574			4575				1	
.950	8.219 5811		8.241 8738	8.219 6408		8.241 8844	1.780 3592	9.999 9403		**.050**
	cos	d		cotg	d		tang	sin	d	**89°**

$89^\circ.100 - 89^\circ.050$

$0^\circ.950 - 1^\circ.000$

0°	sin	d	S	tang	d	T	cotg	cos	d	
.950	8.219 5811		8.241 8738	8.219 6408		8.241 8844	1.780 3592	9.999 9403		**.050**
		4568			4570				1	
951	8.220 0379		8.241 8738	8.220 0978		8.241 8844	1.779 9022	9.999 9402		049
952	8.220 4943	4564	8.241 8738	8.220 5543	4565	8.241 8844	1.779 4457	9.999 9400	2	048
953	8.220 9502	4559	8.241 8738	8.221 0103	4560	8.241 8844	1.778 9897	9.999 9399	1	047
		4555			4556				1	
954	8.221 4057		8.241 8738	8.221 4659		8.241 8844	1.778 5341	9.999 9398		046
955	8.221 8606	4549	8.241 8738	8.221 9210	4551	8.241 8844	1.778 0790	9.999 9397	1	045
956	8.222 3151	4545	8.241 8738	8.222 3756	4546	8.241 8844	1.777 6244	9.999 9395	2	044
		4540			4541				1	
957	8.222 7691		8.241 8738	8.222 8297		8.241 8844	1.777 1703	9.999 9394		043
958	8.223 2226	4535	8.241 8738	8.223 2834	4537	8.241 8844	1.776 7166	9.999 9393	1	042
959	8.223 6757	4531	8.241 8738	8.223 7365	4531	8.241 8844	1.776 2635	9.999 9392	1	041
		4526			4527				2	
.960	8.224 1283		8.241 8738	8.224 1892		8.241 8844	1.775 8108	9.999 9390		**.040**
		4521			4523				1	
961	8.224 5804		8.241 8738	8.224 6415		8.241 8844	1.775 3585	9.999 9389		039
962	8.225 0320	4516	8.241 8738	8.225 0933	4518	8.241 8844	1.774 9067	9.999 9388	1	038
963	8.225 4832	4512	8.241 8738	8.225 5446	4513	8.241 8844	1.774 4554	9.999 9387	1	037
		4507			4508				2	
964	8.225 9339		8.241 8738	8.225 9954		8.241 8844	1.774 0046	9.999 9385		036
965	8.226 3841	4502	8.241 8738	8.226 4457	4503	8.241 8844	1.773 5543	9.999 9384	1	035
966	8.226 8339	4498	8.241 8738	8.226 8956	4499	8.241 8844	1.773 1044	9.999 9383	1	034
		4493			4495				2	
967	8.227 2832		8.241 8738	8.227 3451		8.241 8844	1.772 6549	9.999 9381		033
968	8.227 7321	4489	8.241 8738	8.227 7940	4489	8.241 8844	1.772 2060	9.999 9380	1	032
969	8.228 1804	4483	8.241 8738	8.228 2426	4486	8.241 8844	1.771 7574	9.999 9379	1	031
		4480			4480				1	
.970	8.228 6284		8.241 8738	8.228 6906		8.241 8844	1.771 3094	9.999 9378		**.030**
		4474			4476				2	
971	8.229 0758		8.241 8738	8.229 1382		8.241 8844	1.770 8618	9.999 9376		029
972	8.229 5228	4470	8.241 8738	8.229 5853	4471	8.241 8844	1.770 4147	9.999 9375	1	028
973	8.229 9693	4465	8.241 8738	8.230 0320	4467	8.241 8844	1.769 9680	9.999 9374	1	027
		4461			4462				2	
974	8.230 4154		8.241 8738	8.230 4782		8.241 8844	1.769 5218	9.999 9372		026
975	8.230 8610	4456	8.241 8738	8.230 9239	4457	8.241 8844	1.769 0761	9.999 9371	1	025
976	8.231 3062	4452	8.241 8738	8.231 3692	4453	8.241 8844	1.768 6308	9.999 9370	1	024
		4447			4448				1	
977	8.231 7509		8.241 8738	8.231 8140		8.241 8844	1.768 1860	9.999 9369		023
978	8.232 1951	4442	8.241 8738	8.232 2584	4444	8.241 8844	1.767 7416	9.999 9367	2	022
979	8.232 6389	4438	8.241 8738	8.232 7023	4439	8.241 8844	1.767 2977	9.999 9366	1	021
		4434			4435				1	
.980	8.233 0823		8.241 8738	8.233 1458		8.241 8844	1.766 8542	9.999 9365		**.020**
		4429			4430				2	
981	8.233 5252		8.241 8738	8.233 5888		8.241 8844	1.766 4112	9.999 9363		019
982	8.233 9676	4424	8.241 8738	8.234 0314	4426	8.241 8844	1.765 9686	9.999 9362	1	018
983	8.234 4096	4420	8.241 8738	8.234 4735	4421	8.241 8844	1.765 5265	9.999 9361	1	017
		4415			4417				2	
984	8.234 8511		8.241 8738	8.234 9152		8.241 8844	1.765 0848	9.999 9359		016
985	8.235 2922	4411	8.241 8738	8.235 3564	4412	8.241 8844	1.764 6436	9.999 9358	1	015
986	8.235 7328	4406	8.241 8738	8.235 7972	4408	8.241 8844	1.764 2028	9.999 9357	1	014
		4402			4403				1	
987	8.236 1730		8.241 8738	8.236 2375		8.241 8844	1.763 7625	9.999 9356		013
988	8.236 6128	4398	8.241 8738	8.236 6774	4399	8.241 8844	1.763 3226	9.999 9354	2	012
989	8.237 0521	4393	8.241 8738	8.237 1168	4394	8.241 8844	1.762 8832	9.999 9353	1	011
		4389			4390				1	
.990	8.237 4910		8.241 8738	8.237 5558		8.241 8844	1.762 4442	9.999 9352		**.010**
		4384			4385				2	
991	8.237 9294		8.241 8738	8.237 9943		8.241 8844	1.762 0057	9.999 9350		009
992	8.238 3673	4379	8.241 8738	8.238 4324	4381	8.241 8844	1.761 5676	9.999 9349	1	008
993	8.238 8049	4376	8.241 8738	8.238 8701	4377	8.241 8844	1.761 1299	9.999 9348	1	007
		4371			4372				2	
994	8.239 2420		8.241 8738	8.239 3073		8.241 8844	1.760 6927	9.999 9346		006
995	8.239 6786	4366	8.241 8738	8.239 7441	4368	8.241 8844	1.760 2559	9.999 9345	1	005
996	8.240 1148	4362	8.241 8738	8.240 1805	4364	8.241 8844	1.759 8195	9.999 9344	1	004
		4358			4359				2	
997	8.240 5506		8.241 8738	8.240 6164		8.241 8844	1.759 3836	9.999 9342		003
998	8.240 9859	4353	8.241 8738	8.241 0518	4354	8.241 8844	1.758 9482	9.999 9341	1	002
999	8.241 4209	4350	8.241 8738	8.241 4869	4351	8.241 8844	1.758 5131	9.999 9340	1	001
		4344			4346				2	
***000**	8.241 8553		8.241 8738	8.241 9215		8.241 8844	1.758 0785	9.999 9338		**.000**
	cos	d		cotg	d		tang	sin	d	**89°**

$89^\circ.050 - 89^\circ.000$

$1^\circ.000 - 1^\circ.050$

1°	sin	d	tang	d	cotg	cos	d
.000	8.241 8553	4341	8.241 9215	4341	1.758 0785	9.999 9338	1
001	8.242 2894	4336	8.242 3556	4338	1.757 6444	9.999 9337	1
002	8.242 7230	4331	8.242 7894	4333	1.757 2106	9.999 9336	1
003	8.243 1561	4328	8.243 2227	4328	1.756 7773	9.999 9335	2
004	8.243 5889	4323	8.243 6555	4325	1.756 3445	9.999 9333	1
005	8.244 0212	4318	8.244 0880	4320	1.755 9120	9.999 9332	1
006	8.244 4530	4315	8.244 5200	4316	1.755 4800	9.999 9331	2
007	8.244 8845	4310	8.244 9516	4311	1.755 0484	9.999 9329	1
008	8.245 3155	4306	8.245 3827	4307	1.754 6173	9.999 9328	1
009	8.245 7461	4301	8.245 8134	4303	1.754 1866	9.999 9327	2
.010	8.246 1762	4298	8.246 2437	4299	1.753 7563	9.999 9325	1
011	8.246 6060	4293	8.246 6736	4294	1.753 3264	9.999 9324	1
012	8.247 0353	4289	8.247 1030	4291	1.752 8970	9.999 9323	2
013	8.247 4642	4285	8.247 5321	4286	1.752 4679	9.999 9321	1
014	8.247 8927	4280	8.247 9607	4281	1.752 0393	9.999 9320	1
015	8.248 3207	4276	8.248 3888	4278	1.751 6112	9.999 9319	2
016	8.248 7483	4272	8.248 8166	4273	1.751 1834	9.999 9317	1
017	8.249 1755	4268	8.249 2439	4269	1.750 7561	9.999 9316	2
018	8.249 6023	4264	8.249 6708	4265	1.750 3292	9.999 9314	1
019	8.250 0287	4259	8.250 0973	4261	1.749 9027	9.999 9313	1
.020	8.250 4546	4255	8.250 5234	4257	1.749 4766	9.999 9312	2
021	8.250 8801	4251	8.250 9491	4252	1.749 0509	9.999 9310	1
022	8.251 3052	4247	8.251 3743	4249	1.748 6257	9.999 9309	1
023	8.251 7299	4243	8.251 7992	4244	1.748 2008	9.999 9308	2
024	8.252 1542	4239	8.252 2236	4240	1.747 7764	9.999 9306	1
025	8.252 5781	4234	8.252 6476	4236	1.747 3524	9.999 9305	1
026	8.253 0015	4231	8.253 0712	4231	1.746 9288	9.999 9304	2
027	8.253 4246	4226	8.253 4943	4228	1.746 5057	9.999 9302	1
028	8.253 8472	4222	8.253 9171	4223	1.746 0829	9.999 9301	1
029	8.254 2694	4218	8.254 3394	4220	1.745 6606	9.999 9300	2
.030	8.254 6912	4214	8.254 7614	4215	1.745 2386	9.999 9298	1
031	8.255 1126	4210	8.255 1829	4211	1.744 8171	9.999 9297	2
032	8.255 5336	4206	8.255 6040	4207	1.744 3960	9.999 9295	1
033	8.255 9542	4201	8.256 0247	4204	1.743 9753	9.999 9294	1
034	8.256 3743	4198	8.256 4451	4199	1.743 5549	9.999 9293	2
035	8.256 7941	4194	8.256 8650	4195	1.743 1350	9.999 9291	1
036	8.257 2135	4189	8.257 2845	4190	1.742 7155	9.999 9290	1
037	8.257 6324	4186	8.257 7035	4187	1.742 2965	9.999 9289	2
038	8.258 0510	4181	8.258 1222	4183	1.741 8778	9.999 9287	1
039	8.258 4691	4178	8.258 5405	4179	1.741 4595	9.999 9286	1
.040	8.258 8869	4173	8.258 9584	4175	1.741 0416	9.999 9285	2
041	8.259 3042	4169	8.259 3759	4171	1.740 6241	9.999 9283	1
042	8.259 7211	4166	8.259 7930	4167	1.740 2070	9.999 9282	2
043	8.260 1377	4161	8.260 2097	4162	1.739 7903	9.999 9280	1
044	8.260 5538	4158	8.260 6259	4159	1.739 3741	9.999 9279	1
045	8.260 9696	4153	8.261 0418	4155	1.738 9582	9.999 9278	2
046	8.261 3849	4150	8.261 4573	4151	1.738 5427	9.999 9276	1
047	8.261 7999	4145	8.261 8724	4147	1.738 1276	9.999 9275	2
048	8.262 2144	4142	8.262 2871	4143	1.737 7129	9.999 9273	1
049	8.262 6286	4138	8.262 7014	4139	1.737 2986	9.999 9272	1
.050	8.263 0424		8.263 1153		1.736 8847	9.999 9271	
	cos	d	cotg	d	tang	sin	d

1°	P.P.
*000	
999	4340 4330 4320
998	1 434.0 433.0 432.0
997	2 868.0 866.0 864.0
996	3 1302.0 1299.0 1296.0
995	4 1736.0 1732.0 1728.0
994	5 2170.0 2165.0 2160.0
993	6 2604.0 2598.0 2592.0
992	7 3038.0 3031.0 3024.0
991	8 3472.0 3464.0 3456.0
.990	9 3906.0 3897.0 3888.0
989	4310 4300 4290
988	1 431.0 430.0 429.0
987	2 862.0 860.0 858.0
986	3 1293.0 1290.0 1287.0
985	4 1724.0 1720.0 1716.0
984	5 2155.0 2150.0 2145.0
983	6 2586.0 2580.0 2574.0
982	7 3017.0 3010.0 3003.0
981	8 3448.0 3440.0 3432.0
.980	9 3879.0 3870.0 3861.0
979	4280 4270 4260
978	1 428.0 427.0 426.0
977	2 856.0 854.0 852.0
976	3 1284.0 1281.0 1278.0
975	4 1712.0 1708.0 1704.0
974	5 2140.0 2135.0 2130.0
973	6 2568.0 2562.0 2556.0
972	7 2996.0 2989.0 2982.0
971	8 3424.0 3416.0 3408.0
.970	9 3852.0 3843.0 3834.0
969	4250 4240 4230
968	1 425.0 424.0 423.0
967	2 850.0 848.0 846.0
966	3 1275.0 1272.0 1269.0
965	4 1700.0 1696.0 1692.0
964	5 2125.0 2120.0 2115.0
963	6 2550.0 2544.0 2538.0
962	7 2975.0 2968.0 2961.0
961	8 3400.0 3392.0 3384.0
.960	9 3825.0 3816.0 3807.0
959	4220 4210 4200
958	1 422.0 421.0 420.0
957	2 844.0 842.0 840.0
956	3 1266.0 1263.0 1260.0
955	4 1688.0 1684.0 1680.0
954	5 2110.0 2105.0 2100.0
953	6 2532.0 2526.0 2520.0
952	7 2954.0 2947.0 2940.0
951	8 3376.0 3368.0 3360.0
.950	9 3798.0 3789.0 3780.0
	4190 4180 4170
	1 419.0 418.0 417.0
	2 838.0 836.0 834.0
	3 1257.0 1254.0 1251.0
	4 1676.0 1672.0 1668.0
	5 2095.0 2090.0 2085.0
	6 2514.0 2508.0 2502.0
	7 2933.0 2926.0 2919.0
	8 3352.0 3344.0 3336.0
	9 3771.0 3762.0 3753.0
	4160 4150 4140
	1 416.0 415.0 414.0
	2 832.0 830.0 828.0
	3 1248.0 1245.0 1242.0
	4 1664.0 1660.0 1656.0
	5 2080.0 2075.0 2070.0
	6 2496.0 2490.0 2484.0
	7 2912.0 2905.0 2898.0
	8 3328.0 3320.0 3312.0
	9 3744.0 3735.0 3726.0
88°	P.P.

$89^\circ.000 - 88^\circ.950$

1°.050 — 1°.100

1°	sin	d	tang	d	cotg	cos	d		P.P.
.050	8.263 0424		8.263 1153		1.736 8847	9.999 9271		.950	
		4133		4135			2		4135 4130 4125
051	8.263 4557		8.263 5288		1.736 4712	9.999 9269		949	
052	8.263 8687	4130	8.263 9419	4131	1.736 0581	9.999 9268	1	948	1 413.5 413.0 412.5
053	8.264 2813	4126	8.264 3546	4127	1.735 6454	9.999 9267	1	947	2 827.0 826.0 825.0
		4122		4124			2		3 1240.5 1239.0 1237.5
054	8.264 6935		8.264 7670		1.735 2330	9.999 9265		946	4 1654.0 1652.0 1650.0
055	8.265 1053	4118	8.265 1789	4119	1.734 8211	9.999 9264	1	945	5 2067.5 2065.0 2062.5
056	8.265 5167	4114	8.265 5905	4116	1.734 4095	9.999 9262	2	944	6 2481.0 2478.0 2475.0
		4110		4111			1		7 2894.5 2891.0 2887.5
057	8.265 9277		8.266 0016		1.733 9984	9.999 9261		943	8 3308.0 3304.0 3300.0
058	8.266 3384	4107	8.266 4124	4108	1.733 5876	9.999 9260	1	942	9 3721.5 3717.0 3712.5
059	8.266 7486	4102	8.266 8228	4104	1.733 1772	9.999 9258	2	941	
		4099		4100			1		4120 4110 4100
.060	8.267 1585		8.267 2328		1.732 7672	9.999 9257		.940	
		4094		4096			2		1 412.0 411.0 410.0
061	8.267 5679		8.267 6424		1.732 3576	9.999 9255		939	2 824.0 822.0 820.0
062	8.267 9770	4091	8.268 0516	4092	1.731 9484	9.999 9254	1	938	3 1236.0 1233.0 1230.0
063	8.268 3857	4087	8.268 4605	4089	1.731 5395	9.999 9253	1	937	4 1648.0 1644.0 1640.0
		4083		4084			2		5 2060.0 2055.0 2050.0
064	8.268 7940		8.268 8689		1.731 1311	9.999 9251		936	6 2472.0 2466.0 2460.0
065	8.269 2020	4080	8.269 2770	4081	1.730 7230	9.999 9250	1	935	7 2884.0 2877.0 2870.0
066	8.269 6095	4075	8.269 6847	4077	1.730 3153	9.999 9248	2	934	8 3296.0 3288.0 3280.0
		4072		4073			1		9 3708.0 3699.0 3690.0
067	8.270 0167		8.270 0920		1.729 9080	9.999 9247		933	
068	8.270 4235	4068	8.270 4989	4069	1.729 5011	9.999 9245	2	932	4090 4080 4070
069	8.270 8299	4064	8.270 9055	4066	1.729 0945	9.999 9244	1	931	
		4060		4061			1		1 409.0 408.0 407.0
.070	8.271 2359		8.271 3116		1.728 6884	9.999 9243		.930	2 818.0 816.0 814.0
		4056		4058			2		3 1227.0 1224.0 1221.0
071	8.271 6415		8.271 7174		1.728 2826	9.999 9241		929	4 1636.0 1632.0 1628.0
072	8.272 0468	4053	8.272 1228	4054	1.727 8772	9.999 9240	1	928	5 2045.0 2040.0 2035.0
073	8.272 4517	4049	8.272 5279	4051	1.727 4721	9.999 9238	2	927	6 2454.0 2448.0 2442.0
		4045		4046			1		7 2863.0 2856.0 2849.0
074	8.272 8562		8.272 9325		1.727 0675	9.999 9237		926	8 3272.0 3264.0 3256.0
075	8.273 2604	4042	8.273 3368	4043	1.726 6632	9.999 9236	1	925	9 3681.0 3672.0 3663.0
076	8.273 6641	4037	8.273 7407	4039	1.726 2593	9.999 9234	2	924	
		4034		4035			1		4060 4050 4040
077	8.274 0675		8.274 1442		1.725 8558	9.999 9233		923	
078	8.274 4705	4030	8.274 5474	4032	1.725 4526	9.999 9231	2	922	1 406.0 405.0 404.0
079	8.274 8731	4026	8.274 9502	4028	1.725 0498	9.999 9230	1	921	2 812.0 810.0 808.0
		4023		4024			2		3 1218.0 1215.0 1212.0
.080	8.275 2754		8.275 3526		1.724 6474	9.999 9228		.920	4 1624.0 1620.0 1616.0
		4019		4020			1		5 2030.0 2025.0 2020.0
081	8.275 6773		8.275 7546		1.724 2454	9.999 9227		919	6 2436.0 2430.0 2424.0
082	8.276 0788	4015	8.276 1563	4017	1.723 8437	9.999 9226	1	918	7 2842.0 2835.0 2828.0
083	8.276 4800	4012	8.276 5576	4013	1.723 4424	9.999 9224	2	917	8 3248.0 3240.0 3232.0
		4007		4009			1		9 3654.0 3645.0 3636.0
084	8.276 8807		8.276 9585		1.723 0415	9.999 9223		916	
085	8.277 2811	4004	8.277 3590	4005	1.722 6410	9.999 9221	2	915	4030 4020 4010
086	8.277 6812	4001	8.277 7592	4002	1.722 2408	9.999 9220	1	914	
		3997		3998			2		
087	8.278 0809		8.278 1590		1.721 8410	9.999 9218		913	1 403.0 402.0 401.0
088	8.278 4802	3993	8.278 5585	3995	1.721 4415	9.999 9217	1	912	2 806.0 804.0 802.0
089	8.278 8791	3989	8.278 9575	3990	1.721 0425	9.999 9216	1	911	3 1209.0 1206.0 1203.0
		3986		3988			2		4 1612.0 1608.0 1604.0
.090	8.279 2777		8.279 3563		1.720 6437	9.999 9214		.910	5 2015.0 2010.0 2005.0
		3982		3983			1		6 2418.0 2412.0 2406.0
091	8.279 6759		8.279 7546		1.720 2454	9.999 9213		909	7 2821.0 2814.0 2807.0
092	8.280 0737	3978	8.280 1526	3980	1.719 8474	9.999 9211	2	908	8 3224.0 3216.0 3208.0
093	8.280 4712	3975	8.280 5502	3976	1.719 4498	9.999 9210	1	907	9 3627.0 3618.0 3609.0
		3971		3973			2		
094	8.280 8683		8.280 9475		1.719 0525	9.999 9208		906	4000 3990 3980
095	8.281 2650	3967	8.281 3444	3969	1.718 6556	9.999 9207	1	905	
096	8.281 6614	3964	8.281 7409	3965	1.718 2591	9.999 9205	2	904	1 400.0 399.0 398.0
		3961		3962			1		2 800.0 798.0 796.0
097	8.282 0575		8.282 1371		1.717 8629	9.999 9204		903	3 1200.0 1197.0 1194.0
098	8.282 4531	3956	8.282 5329	3958	1.717 4671	9.999 9202	2	902	4 1600.0 1596.0 1592.0
099	8.282 8484	3953	8.282 9283	3954	1.717 0717	9.999 9201	1	901	5 2000.0 1995.0 1990.0
		3950		3951			1		6 2400.0 2394.0 2388.0
.100	8.283 2434		8.283 3234		1.716 6766	9.999 9200		.900	7 2800.0 2793.0 2786.0
									8 3200.0 3192.0 3184.0
									9 3600.0 3591.0 3582.0
									3970 3960 3950
									1 397.0 396.0 395.0
									2 794.0 792.0 790.0
									3 1191.0 1188.0 1185.0
									4 1588.0 1584.0 1580.0
									5 1985.0 1980.0 1975.0
									6 2382.0 2376.0 2370.0
									7 2779.0 2772.0 2765.0
									8 3176.0 3168.0 3160.0
									9 3573.0 3564.0 3555.0
	cos	d	cotg	d	tang	sin	d	88°	P.P.

88°.950 — 88°.900

1°.100 — 1°.150

1°	sin	d	tang	d	cotg	cos	d	
.100	8.283 2434		8.283 3234		1.716 6766	9.999 9200		.900
		3946		3947			2	
101	8.283 6380		8.283 7181		1.716 2819	9.999 9198		899
102	8.284 0322	3942	8.284 1125	3944	1.715 8875	9.999 9197	1	898
103	8.284 4261	3939	8.284 5065	3940	1.715 4935	9.999 9195	2	897
		3935		3937			1	
104	8.284 8196		8.284 9002		1.715 0998	9.999 9194		896
105	8.285 2127	3931	8.285 2935	3933	1.714 7065	9.999 9192	2	895
106	8.285 6055	3928	8.285 6864	3929	1.714 3136	9.999 9191	1	894
		3925		3926			2	
107	8.285 9980		8.286 0790		1.713 9210	9.999 9189		893
108	8.286 3901	3921	8.286 4713	3923	1.713 5287	9.999 9188	1	892
109	8.286 7818	3917	8.286 8632	3919	1.713 1368	9.999 9186	2	891
		3914		3915			1	
.110	8.287 1732		8.287 2547		1.712 7453	9.999 9185		.890
		3910		3912			2	
111	8.287 5642		8.287 6459		1.712 3541	9.999 9183		889
112	8.287 9549	3907	8.288 0367	3908	1.711 9633	9.999 9182	1	888
113	8.288 3452	3903	8.288 4272	3905	1.711 5728	9.999 9181	1	887
		3900		3901			2	
114	8.288 7352		8.288 8173		1.711 1827	9.999 9179		886
115	8.289 1248	3896	8.289 2071	3898	1.710 7929	9.999 9178	1	885
116	8.289 5141	3893	8.289 5965	3894	1.710 4035	9.999 9176	2	884
		3889		3891			1	
117	8.289 9030		8.289 9856		1.710 0144	9.999 9175		883
118	8.290 2916	3886	8.290 3743	3887	1.709 6257	9.999 9173	2	882
119	8.290 6798	3882	8.290 7627	3884	1.709 2373	9.999 9172	1	881
		3879		3880			2	
.120	8.291 0677		8.291 1507		1.708 8493	9.999 9170		.880
		3876		3877			1	
121	8.291 4553		8.291 5384		1.708 4616	9.999 9169		879
122	8.291 8425	3872	8.291 9257	3873	1.708 0743	9.999 9167	2	878
123	8.292 2293	3868	8.292 3127	3870	1.707 6873	9.999 9166	1	877
		3865		3867			2	
124	8.292 6158		8.292 6994		1.707 3006	9.999 9164		876
125	8.293 0020	3862	8.293 0857	3863	1.706 9143	9.999 9163	1	875
126	8.293 3878	3858	8.293 4717	3860	1.706 5283	9.999 9161	2	874
		3855		3856			1	
127	8.293 7733		8.293 8573		1.706 1427	9.999 9160		873
128	8.294 1584	3851	8.294 2426	3853	1.705 7574	9.999 9158	2	872
129	8.294 5432	3848	8.294 6275	3849	1.705 3725	9.999 9157	1	871
		3845		3846			2	
.130	8.294 9277		8.295 0121		1.704 9879	9.999 9155		.870
		3841		3843			1	
131	8.295 3118		8.295 3964		1.704 6036	9.999 9154		869
132	8.295 6955	3837	8.295 7803	3839	1.704 2197	9.999 9152	2	868
133	8.296 0790	3835	8.296 1639	3836	1.703 8361	9.999 9151	1	867
		3831		3832			2	
134	8.296 4621		8.296 5471		1.703 4529	9.999 9149		866
135	8.296 8448	3827	8.296 9300	3829	1.703 0700	9.999 9148	1	865
136	8.297 2272	3824	8.297 3126	3826	1.702 6874	9.999 9146	2	864
		3821		3822			1	
137	8.297 6093		8.297 6948		1.702 3052	9.999 9145		863
138	8.297 9911	3818	8.298 0767	3819	1.701 9233	9.999 9143	2	862
139	8.298 3725	3814	8.298 4583	3816	1.701 5417	9.999 9142	1	861
		3811		3812			2	
.140	8.298 7536		8.298 8395		1.701 1605	9.999 9140		.860
		3807		3809			1	
141	8.299 1343		8.299 2204		1.700 7796	9.999 9139		859
142	8.299 5147	3804	8.299 6010	3806	1.700 3990	9.999 9137	2	858
143	8.299 8948	3801	8.299 9812	3802	1.700 0188	9.999 9136	1	857
		3797		3799			2	
144	8.300 2745		8.300 3611		1.699 6389	9.999 9134		856
145	8.300 6539	3794	8.300 7407	3796	1.699 2593	9.999 9133	1	855
146	8.301 0330	3791	8.301 1199	3792	1.698 8801	9.999 9131	2	854
		3788		3789			1	
147	8.301 4118		8.301 4988		1.698 5012	9.999 9130		853
148	8.301 7902	3784	8.301 8774	3786	1.698 1226	9.999 9128	2	852
149	8.302 1683	3781	8.302 2556	3782	1.697 7444	9.999 9127	1	851
		3777		3779			2	
.150	8.302 5460		8.302 6335		1.697 3665	9.999 9125		.850
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	3947	3944	3940
1	394.7	394.4	394.0
2	789.4	788.8	788.0
3	1184.1	1183.2	1182.0
4	1578.8	1577.6	1576.0
5	1973.5	1972.0	1970.0
6	2368.2	2366.4	2364.0
7	2762.9	2760.8	2758.0
8	3157.6	3155.2	3152.0
9	3552.3	3549.6	3546.0

	3930	3920	3910
1	393.0	392.0	391.0
2	786.0	784.0	782.0
3	1179.0	1176.0	1173.0
4	1572.0	1568.0	1564.0
5	1965.0	1960.0	1955.0
6	2358.0	2352.0	2346.0
7	2751.0	2744.0	2737.0
8	3144.0	3136.0	3128.0
9	3537.0	3528.0	3519.0

	3900	3890	3880
1	390.0	389.0	388.0
2	780.0	778.0	776.0
3	1170.0	1167.0	1164.0
4	1560.0	1556.0	1552.0
5	1950.0	1945.0	1940.0
6	2340.0	2334.0	2328.0
7	2730.0	2723.0	2716.0
8	3120.0	3112.0	3104.0
9	3510.0	3501.0	3492.0

	3870	3860	3850
1	387.0	386.0	385.0
2	774.0	772.0	770.0
3	1161.0	1158.0	1155.0
4	1548.0	1544.0	1540.0
5	1935.0	1930.0	1925.0
6	2322.0	2316.0	2310.0
7	2709.0	2702.0	2695.0
8	3096.0	3088.0	3080.0
9	3483.0	3474.0	3465.0

	3840	3830	3820
1	384.0	383.0	382.0
2	768.0	766.0	764.0
3	1152.0	1149.0	1146.0
4	1536.0	1532.0	1528.0
5	1920.0	1915.0	1910.0
6	2304.0	2298.0	2292.0
7	2688.0	2681.0	2674.0
8	3072.0	3064.0	3056.0
9	3456.0	3447.0	3438.0

	3810	3800	3790
1	381.0	380.0	379.0
2	762.0	760.0	758.0
3	1143.0	1140.0	1137.0
4	1524.0	1520.0	1516.0
5	1905.0	1900.0	1895.0
6	2286.0	2280.0	2274.0
7	2667.0	2660.0	2653.0
8	3048.0	3040.0	3032.0
9	3429.0	3420.0	3411.0

	3780	3779	3777
1	378.0	377.9	377.7
2	756.0	755.8	755.4
3	1134.0	1133.7	1133.1
4	1512.0	1511.6	1510.8
5	1890.0	1889.5	1888.5
6	2268.0	2267.4	2266.2
7	2646.0	2645.3	2643.9
8	3024.0	3023.2	3021.6
9	3402.0	3401.1	3399.3

88°.900 — 88°.850

$1^\circ.150 - 1^\circ.200$

1°	sin	d	tang	d	cotg	cos	d		P.P.
.150	8.302 5460		8.302 6335		1.697 3665	9.999 9125		**.850**	
		3775		3776			1		3776 3773 3770
151	8.302 9235		8.303 0111		1.696 9889	9.999 9124		849	1 377.6 377.3 377.0
152	8.303 3006	3771	8.303 3884	3773	1.696 6116	9.999 9122	2	848	2 755.2 754.6 754.0
153	8.303 6774	3768	8.303 7653	3769	1.696 2347	9.999 9121	1	847	3 1132.8 1131.9 1131.0
		3764		3766			2		4 1510.4 1509.2 1508.0
154	8.304 0538		8.304 1419		1.695 8581	9.999 9119		846	5 1888.0 1886.5 1885.0
155	8.304 4299	3761	8.304 5182	3763	1.695 4818	9.999 9118	1	845	6 2265.6 2263.8 2262.0
156	8.304 8057	3758	8.304 8941	3759	1.695 1059	9.999 9116	2	844	7 2643.2 2641.1 2639.0
		3755		3757			2		8 3020.8 3018.4 3016.0
157	8.305 1812		8.305 2698		1.694 7302	9.999 9114		843	9 3398.4 3395.7 3393.0
158	8.305 5564	3752	8.305 6451	3753	1.694 3549	9.999 9113	1	842	
159	8.305 9312	3748	8.306 0200	3749	1.693 9800	9.999 9111	2	841	3765 3760 3755
		3745		3747			1		1 376.5 376.0 375.5
.160	8.306 3057		8.306 3947		1.693 6053	9.999 9110		**.840**	2 753.0 752.0 751.0
		3742		3743			2		3 1129.5 1128.0 1126.5
161	8.306 6799		8.306 7690		1.693 2310	9.999 9108		839	4 1506.0 1504.0 1502.0
162	8.307 0537	3738	8.307 1430	3740	1.692 8570	9.999 9107	1	838	5 1882.5 1880.0 1877.5
163	8.307 4273	3736	8.307 5167	3737	1.692 4833	9.999 9105	2	837	6 2259.0 2256.0 2253.0
		3732		3734			1		7 2635.5 2632.0 2628.5
164	8.307 8005		8.307 8901		1.692 1099	9.999 9104		836	8 3012.0 3008.0 3004.0
165	8.308 1734	3729	8.308 2631	3730	1.691 7369	9.999 9102	2	835	9 3388.5 3384.0 3379.5
166	8.308 5459	3725	8.308 6359	3728	1.691 3641	9.999 9101	1	834	
		3723		3724			2		3750 3745 3740
167	8.308 9182		8.309 0083		1.690 9917	9.999 9099		833	1 375.0 374.5 374.0
168	8.309 2901	3719	8.309 3804	3721	1.690 6196	9.999 9098	1	832	2 750.0 749.0 748.0
169	8.309 6617	3716	8.309 7521	3717	1.690 2479	9.999 9096	2	831	3 1125.0 1123.5 1122.0
		3713		3715			2		4 1500.0 1498.0 1496.0
.170	8.310 0330		8.310 1236		1.689 8764	9.999 9094		**.830**	5 1875.0 1872.5 1870.0
		3710		3711			1		6 2250.0 2247.0 2244.0
171	8.310 4040		8.310 4947		1.689 5053	9.999 9093		829	7 2625.0 2621.5 2618.0
172	8.310 7747	3707	8.310 8656	3709	1.689 1344	9.999 9091	2	828	8 3000.0 2996.0 2992.0
173	8.311 1450	3703	8.311 2361	3705	1.688 7639	9.999 9090	1	827	9 3375.0 3370.5 3366.0
		3701		3701			2		
174	8.311 5151		8.311 6062		1.688 3938	9.999 9088		826	3730 3720 3710
175	8.311 8848	3697	8.311 9761	3699	1.688 0239	9.999 9087	1	825	1 373.0 372.0 371.0
176	8.312 2542	3694	8.312 3457	3696	1.687 6543	9.999 9085	2	824	2 746.0 744.0 742.0
		3691		3692			1		3 1119.0 1116.0 1113.0
177	8.312 6233		8.312 7149		1.687 2851	9.999 9084		823	4 1492.0 1488.0 1484.0
178	8.312 9921	3688	8.313 0839	3690	1.686 9161	9.999 9082	2	822	5 1865.0 1860.0 1855.0
179	8.313 3605	3684	8.313 4525	3686	1.686 5475	9.999 9080	2	821	6 2238.0 2232.0 2226.0
		3682		3683			1		7 2611.0 2604.0 2597.0
.180	8.313 7287		8.313 8208		1.686 1792	9.999 9079		**.820**	8 2984.0 2976.0 2968.0
		3678		3680			2		9 3357.0 3348.0 3339.0
181	8.314 0965		8.314 1888		1.685 8112	9.999 9077		819	
182	8.314 4640	3675	8.314 5565	3677	1.685 4435	9.999 9076	1	818	3700 3690 3680
183	8.314 8313	3673	8.314 9238	3673	1.685 0762	9.999 9074	2	817	1 370.0 369.0 368.0
		3669		3671			1		2 740.0 738.0 736.0
184	8.315 1982		8.315 2909		1.684 7091	9.999 9073		816	3 1110.0 1107.0 1104.0
185	8.315 5648	3666	8.315 6576	3667	1.684 3424	9.999 9071	2	815	4 1480.0 1476.0 1472.0
186	8.315 9310	3662	8.316 0241	3665	1.683 9759	9.999 9070	1	814	5 1850.0 1845.0 1840.0
		3660		3661			2		6 2220.0 2214.0 2208.0
187	8.316 2970		8.316 3902		1.683 6098	9.999 9068		813	7 2590.0 2583.0 2576.0
188	8.316 6627	3657	8.316 7561	3659	1.683 2439	9.999 9066	2	812	8 2960.0 2952.0 2944.0
189	8.317 0281	3654	8.317 1216	3655	1.682 8784	9.999 9065	1	811	9 3330.0 3321.0 3312.0
		3650		3652			2		
.190	8.317 3931		8.317 4868		1.682 5132	9.999 9063		**.810**	3670 3660 3650
		3648		3649			1		1 367.0 366.0 365.0
191	8.317 7579		8.317 8517		1.682 1483	9.999 9062		809	2 734.0 732.0 730.0
192	8.318 1223	3644	8.318 2163	3646	1.681 7837	9.999 9060	2	808	3 1101.0 1098.0 1095.0
193	8.318 4864	3641	8.318 5806	3643	1.681 4194	9.999 9058	2	807	4 1468.0 1464.0 1460.0
		3639		3640			1		5 1835.0 1830.0 1825.0
194	8.318 8503		8.318 9446		1.681 0554	9.999 9057		806	6 2202.0 2196.0 2190.0
195	8.319 2138	3635	8.319 3083	3637	1.680 6917	9.999 9055	2	805	7 2569.0 2562.0 2555.0
196	8.319 5770	3632	8.319 6716	3633	1.680 3284	9.999 9054	1	804	8 2936.0 2928.0 2920.0
		3629		3631			2		9 3303.0 3294.0 3285.0
197	8.319 9399		8.320 0347		1.679 9653	9.999 9052		803	
198	8.320 3025	3626	8.320 3975	3628	1.679 6025	9.999 9051	1	802	3640 3630 3620
199	8.320 6649	3624	8.320 7600	3625	1.679 2400	9.999 9049	2	801	1 364.0 363.0 362.0
		3620		3621			2		2 728.0 726.0 724.0
.200	8.321 0269		8.321 1221		1.678 8779	9.999 9047		**.800**	3 1092.0 1089.0 1086.0
									4 1456.0 1452.0 1448.0
									5 1820.0 1815.0 1810.0
									6 2184.0 2178.0 2172.0
									7 2548.0 2541.0 2534.0
									8 2912.0 2904.0 2896.0
									9 3276.0 3267.0 3258.0
	cos	d	cotg	d	tang	sin	d	88°	P.P.

$88^\circ.850 - 88^\circ.800$

$1^\circ.200 - 1^\circ.250$

1°	sin	d	tang	d	cotg	cos	d	
.200	8.321 0269		8.321 1221		1.678 8779	9.999 9047		**.800**
		3617		3619			1	
201	8.321 3886		8.321 4840		1.678 5160	9.999 9046		799
202	8.321 7500	3614	8.321 8456	3616	1.678 1544	9.999 9044	2	798
203	8.322 1111	3611	8.322 2068	3612	1.677 7932	9.999 9043	1	797
		3608		3610			2	
204	8.322 4719		8.322 5678		1.677 4322	9.999 9041		796
205	8.322 8324	3605	8.322 9285	3607	1.677 0715	9.999 9039	2	795
206	8.323 1926	3602	8.323 2888	3603	1.676 7112	9.999 9038	1	794
		3599		3601			2	
207	8.323 5525		8.323 6489		1.676 3511	9.999 9036		793
208	8.323 9121	3596	8.324 0087	3598	1.675 9913	9.999 9035	1	792
209	8.324 2714	3593	8.324 3681	3594	1.675 6319	9.999 9033	2	791
		3591		3592			2	
.210	8.324 6305		8.324 7273		1.675 2727	9.999 9031		**.790**
		3587		3589			1	
211	8.324 9892		8.325 0862		1.674 9138	9.999 9030		789
212	8.325 3476	3584	8.325 4448	3586	1.674 5552	9.999 9028	2	788
213	8.325 7057	3581	8.325 8031	3583	1.674 1969	9.999 9027	1	787
		3579		3580			2	
214	8.326 0636		8.326 1611		1.673 8389	9.999 9025		786
215	8.326 4211	3575	8.326 5188	3577	1.673 4812	9.999 9023	2	785
216	8.326 7783	3572	8.326 8762	3574	1.673 1238	9.999 9022	1	784
		3570		3571			2	
217	8.327 1353		8.327 2333		1.672 7667	9.999 9020		783
218	8.327 4919	3566	8.327 5901	3568	1.672 4099	9.999 9019	1	782
219	8.327 8483	3564	8.327 9466	3565	1.672 0534	9.999 9017	2	781
		3561		3562			2	
.220	8.328 2044		8.328 3028		1.671 6972	9.999 9015		**.780**
		3558		3560			1	
221	8.328 5602		8.328 6588		1.671 3412	9.999 9014		779
222	8.328 9156	3554	8.329 0144	3556	1.670 9856	9.999 9012	2	778
223	8.329 2708	3552	8.329 3698	3554	1.670 6302	9.999 9011	1	777
		3550		3551			2	
224	8.329 6258		8.329 7249		1.670 2751	9.999 9009		776
225	8.329 9804	3546	8.330 0796	3547	1.669 9204	9.999 9007	2	775
226	8.330 3347	3543	8.330 4341	3545	1.669 5659	9.999 9006	1	774
		3540		3542			2	
227	8.330 6887		8.330 7883		1.669 2117	9.999 9004		773
228	8.331 0425	3538	8.331 1422	3539	1.668 8578	9.999 9002	2	772
229	8.331 3959	3534	8.331 4959	3537	1.668 5041	9.999 9001	1	771
		3532		3533			2	
.230	8.331 7491		8.331 8492		1.668 1508	9.999 8999		**.770**
		3529		3531			1	
231	8.332 1020		8.332 2023		1.667 7977	9.999 8998		769
232	8.332 4546	3526	8.332 5550	3527	1.667 4450	9.999 8996	2	768
233	8.332 8069	3523	8.332 9075	3525	1.667 0925	9.999 8994	2	767
		3521		3522			1	
234	8.333 1590		8.333 2597		1.666 7403	9.999 8993		766
235	8.333 5107	3517	8.333 6116	3519	1.666 3884	9.999 8991	2	765
236	8.333 8622	3515	8.333 9632	3516	1.666 0368	9.999 8989	2	764
		3511		3514			1	
237	8.334 2133		8.334 3146		1.665 6854	9.999 8988		763
238	8.334 5642	3509	8.334 6656	3510	1.665 3344	9.999 8986	2	762
239	8.334 9148	3506	8.335 0164	3508	1.664 9836	9.999 8984	2	761
		3503		3505			1	
.240	8.335 2651		8.335 3669		1.664 6331	9.999 8983		**.760**
		3501		3502			2	
241	8.335 6152		8.335 7171		1.664 2829	9.999 8981		759
242	8.335 9650	3498	8.336 0670	3499	1.663 9330	9.999 8980	1	758
243	8.336 3144	3494	8.336 4166	3496	1.663 5834	9.999 8978	2	757
		3492		3494			2	
244	8.336 6636		8.336 7660		1.663 2340	9.999 8976		756
245	8.337 0125	3489	8.337 1151	3491	1.662 8849	9.999 8975	1	755
246	8.337 3612	3487	8.337 4639	3488	1.662 5361	9.999 8973	2	754
		3483		3485			2	
247	8.337 7095		8.337 8124		1.662 1876	9.999 8971		753
248	8.338 0576	3481	8.338 1606	3482	1.661 8394	9.999 8970	1	752
249	8.338 4054	3478	8.338 5086	3480	1.661 4914	9.999 8968	2	751
		3475		3477			2	
.250	8.338 7529		8.338 8563		1.661 1437	9.999 8966		**.750**
	cos	d	cotg	d	tang	sin	d	88°

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	3619	3615	3610
1	361.9	361.5	361.0
2	723.8	723.0	722.0
3	1085.7	1084.5	1083.0
4	1447.6	1446.0	1444.0
5	1809.5	1807.5	1805.0
6	2171.4	2169.0	2166.0
7	2533.3	2530.5	2527.0
8	2895.2	2892.0	2888.0
9	3257.1	3253.5	3249.0

	3605	3600	3595
1	360.5	360.0	359.5
2	721.0	720.0	719.0
3	1081.5	1080.0	1078.5
4	1442.0	1440.0	1438.0
5	1802.5	1800.0	1797.5
6	2163.0	2160.0	2157.0
7	2523.5	2520.0	2516.5
8	2884.0	2880.0	2876.0
9	3244.5	3240.0	3235.5

	3590	3585	3580
1	359.0	358.5	358.0
2	718.0	717.0	716.0
3	1077.0	1075.5	1074.0
4	1436.0	1434.0	1432.0
5	1795.0	1792.5	1790.0
6	2154.0	2151.0	2148.0
7	2513.0	2509.5	2506.0
8	2872.0	2868.0	2864.0
9	3231.0	3226.5	3222.0

	3575	3570	3560
1	357.5	357.0	356.0
2	715.0	714.0	712.0
3	1072.5	1071.0	1068.0
4	1430.0	1428.0	1424.0
5	1787.5	1785.0	1780.0
6	2145.0	2142.0	2136.0
7	2502.5	2499.0	2492.0
8	2860.0	2856.0	2848.0
9	3217.5	3213.0	3204.0

	3550	3540	3530
1	355.0	354.0	353.0
2	710.0	708.0	706.0
3	1065.0	1062.0	1059.0
4	1420.0	1416.0	1412.0
5	1775.0	1770.0	1765.0
6	2130.0	2124.0	2118.0
7	2485.0	2478.0	2471.0
8	2840.0	2832.0	2824.0
9	3195.0	3186.0	3177.0

	3520	3510	3500
1	352.0	351.0	350.0
2	704.0	702.0	700.0
3	1056.0	1053.0	1050.0
4	1408.0	1404.0	1400.0
5	1760.0	1755.0	1750.0
6	2112.0	2106.0	2100.0
7	2464.0	2457.0	2450.0
8	2816.0	2808.0	2800.0
9	3168.0	3159.0	3150.0

	3490	3480	3470
1	349.0	348.0	347.0
2	698.0	696.0	694.0
3	1047.0	1044.0	1041.0
4	1396.0	1392.0	1388.0
5	1745.0	1740.0	1735.0
6	2094.0	2088.0	2082.0
7	2443.0	2436.0	2429.0
8	2792.0	2784.0	2776.0
9	3141.0	3132.0	3123.0

$88^\circ.800 - 88^\circ.750$

$1^\circ.250 - 1^\circ.300$

1°	sin	d	tang	d	cotg	cos	d		P.P.
.250	8.338 7529		8.338 8563		1.661 1437	9.999 8966		**.750**	
		3473		3474			1		3474 3470 3465
251	8.339 1002		8.339 2037		1.660 7963	9.999 8965		749	
		3469		3471			2		1 347.4 347.0 346.5
252	8.339 4471		8.339 5508		1.660 4492	9.999 8963		748	2 694.8 694.0 693.0
		3467		3469			2		3 1042.2 1041.0 1039.5
253	8.339 7938		8.339 8977		1.660 1023	9.999 8961		747	4 1389.6 1388.0 1386.0
		3464		3466			1		5 1737.0 1735.0 1732.5
254	8.340 1402		8.340 2443		1.659 7557	9.999 8960		746	6 2084.4 2082.0 2079.0
		3462		3463			2		7 2431.8 2429.0 2425.5
255	8.340 4864		8.340 5906		1.659 4094	9.999 8958		745	8 2779.2 2776.0 2772.0
		3458		3460			2		9 3126.6 3123.0 3118.5
256	8.340 8322		8.340 9366		1.659 0634	9.999 8956		744	
		3456		3457			1		
257	8.341 1778		8.341 2823		1.658 7177	9.999 8955		743	
		3453		3455			2		3460 3455 3450
258	8.341 5231		8.341 6278		1.658 3722	9.999 8953		742	
		3450		3452			2		1 346.0 345.5 345.0
259	8.341 8681		8.341 9730		1.658 0270	9.999 8951		741	2 692.0 691.0 690.0
		3448		3449			1		3 1038.0 1036.5 1035.0
.260	8.342 2129		8.342 3179		1.657 6821	9.999 8950		**.740**	4 1384.0 1382.0 1380.0
		3445		3447			2		5 1730.0 1727.5 1725.0
261	8.342 5574		8.342 6626		1.657 3374	9.999 8948		739	6 2076.0 2073.0 2070.0
		3442		3444			2		7 2422.0 2418.5 2415.0
262	8.342 9016		8.343 0070		1.656 9930	9.999 8946		738	8 2768.0 2764.0 2760.0
		3439		3441			1		9 3114.0 3109.5 3105.0
263	8.343 2455		8.343 3511		1.656 6489	9.999 8945		737	
		3437		3438			2		
264	8.343 5892		8.343 6949		1.656 3051	9.999 8943		736	
		3434		3436			2		3445 3440 3435
265	8.343 9326		8.344 0385		1.655 9615	9.999 8941		735	
		3431		3433			1		1 344.5 344.0 343.5
266	8.344 2757		8.344 3818		1.655 6182	9.999 8940		734	2 689.0 688.0 687.0
		3429		3430			2		3 1033.5 1032.0 1030.5
267	8.344 6186		8.344 7248		1.655 2752	9.999 8938		733	4 1378.0 1376.0 1374.0
		3426		3427			2		5 1722.5 1720.0 1717.5
268	8.344 9612		8.345 0675		1.654 9325	9.999 8936		732	6 2067.0 2064.0 2061.0
		3423		3425			1		7 2411.5 2408.0 2404.5
269	8.345 3035		8.345 4100		1.654 5900	9.999 8935		731	8 2756.0 2752.0 2748.0
		3420		3422			2		9 3100.5 3096.0 3091.5
.270	8.345 6455		8.345 7522		1.654 2478	9.999 8933		**.730**	
		3418		3420			2		
271	8.345 9873		8.346 0942		1.653 9058	9.999 8931		729	
		3415		3416			1		3430 3425 3420
272	8.346 3288		8.346 4358		1.653 5642	9.999 8930		728	
		3412		3414			2		1 343.0 342.5 342.0
273	8.346 6700		8.346 7772		1.653 2228	9.999 8928		727	2 686.0 685.0 684.0
		3410		3412			2		3 1029.0 1027.5 1026.0
274	8.347 0110		8.347 1184		1.652 8816	9.999 8926		726	4 1372.0 1370.0 1368.0
		3407		3408			1		5 1715.0 1712.5 1710.0
275	8.347 3517		8.347 4592		1.652 5408	9.999 8925		725	6 2058.0 2055.0 2052.0
		3404		3406			2		7 2401.0 2397.5 2394.0
276	8.347 6921		8.347 7998		1.652 2002	9.999 8923		724	8 2744.0 2740.0 2736.0
		3402		3404			2		9 3087.0 3082.5 3078.0
277	8.348 0323		8.348 1402		1.651 8598	9.999 8921		723	
		3399		3401			1		
278	8.348 3722		8.348 4803		1.651 5197	9.999 8920		722	3415 3410 3400
		3396		3398			2		
279	8.348 7118		8.348 8201		1.651 1799	9.999 8918		721	
		3394		3395			2		
.280	8.349 0512		8.349 1596		1.650 8404	9.999 8916		**.720**	1 341.5 341.0 340.0
		3391		3393			2		2 683.0 682.0 680.0
281	8.349 3903		8.349 4989		1.650 5011	9.999 8914		719	3 1024.5 1023.0 1020.0
		3389		3390			1		4 1366.0 1364.0 1360.0
282	8.349 7292		8.349 8379		1.650 1621	9.999 8913		718	5 1707.5 1705.0 1700.0
		3385		3387			2		6 2049.0 2046.0 2040.0
283	8.350 0677		8.350 1766		1.649 8234	9.999 8911		717	7 2390.5 2387.0 2380.0
		3383		3385			2		8 2732.0 2728.0 2720.0
284	8.350 4060		8.350 5151		1.649 4849	9.999 8909		716	9 3073.5 3069.0 3060.0
		3381		3382			1		
285	8.350 7441		8.350 8533		1.649 1467	9.999 8908		715	
		3378		3380			2		
286	8.351 0819		8.351 1913		1.648 8087	9.999 8906		714	3390 3380 3370
		3375		3377			2		
287	8.351 4194		8.351 5290		1.648 4710	9.999 8904		713	
		3373		3374			1		1 339.0 338.0 337.0
288	8.351 7567		8.351 8664		1.648 1336	9.999 8903		712	2 678.0 676.0 674.0
		3369		3372			2		3 1017.0 1014.0 1011.0
289	8.352 0936		8.352 2036		1.647 7964	9.999 8901		711	4 1356.0 1352.0 1348.0
		3368		3369			2		5 1695.0 1690.0 1685.0
.290	8.352 4304		8.352 5405		1.647 4595	9.999 8899		**.710**	6 2034.0 2028.0 2022.0
		3365		3366			2		7 2373.0 2366.0 2359.0
291	8.352 7669		8.352 8771		1.647 1229	9.999 8897		709	8 2712.0 2704.0 2696.0
		3362		3364			1		9 3051.0 3042.0 3033.0
292	8.353 1031		8.353 2135		1.646 7865	9.999 8896		708	
		3359		3361			2		
293	8.353 4390		8.353 5496		1.646 4504	9.999 8894		707	3360 3350 3340
		3357		3359			2		
294	8.353 7747		8.353 8855		1.646 1145	9.999 8892		706	
		3355		3356			1		1 336.0 335.0 334.0
295	8.354 1102		8.354 2211		1.645 7789	9.999 8891		705	2 672.0 670.0 668.0
		3351		3353			2		3 1008.0 1005.0 1002.0
296	8.354 4453		8.354 5564		1.645 4436	9.999 8889		704	4 1344.0 1340.0 1336.0
		3350		3351			2		5 1680.0 1675.0 1670.0
297	8.354 7803		8.354 8915		1.645 1085	9.999 8887		703	6 2016.0 2010.0 2004.0
		3346		3349			2		7 2352.0 2345.0 2338.0
298	8.355 1149		8.355 2264		1.644 7736	9.999 8885		702	8 2688.0 2680.0 2672.0
		3344		3345			1		9 3024.0 3015.0 3006.0
299	8.355 4493		8.355 5609		1.644 4391	9.999 8884		701	
		3342		3344			2		
.300	8.355 7835		8.355 8953		1.644 1047	9.999 8882		**.700**	
	cos	d	cotg	d	tang	sin	d	88°	P.P.

$88^\circ.750 - 88^\circ.700$

$1^\circ.300 - 1^\circ.350$

1°	sin	d	tang	d	cotg	cos	d	
.300	8.355 7835		8.355 8953		1.644 1047	9.999 8882		.700
		3338		3340			2	
301	8.356 1173		8.356 2293		1.643 7707	9.999 8880		699
302	8.356 4510	3337	8.356 5631	3338	1.643 4369	9.999 8879	1	698
303	8.356 7843	3333	8.356 8967	3336	1.643 1033	9.999 8877	2	697
		3332		3333			2	
304	8.357 1175		8.357 2300		1.642 7700	9.999 8875		696
305	8.357 4503	3328	8.357 5630	3330	1.642 4370	9.999 8873	2	695
306	8.357 7829	3326	8.357 8958	3328	1.642 1042	9.999 8872	1	694
		3324		3325			2	
307	8.358 1153		8.358 2283		1.641 7717	9.999 8870		693
308	8.358 4474	3321	8.358 5606	3323	1.641 4394	9.999 8868	2	692
309	8.358 7792	3318	8.358 8926	3320	1.641 1074	9.999 8866	2	691
		3316		3317			1	
.310	8.359 1108		8.359 2243		1.640 7757	9.999 8865		.690
		3314		3316			2	
311	8.359 4422		8.359 5559		1.640 4441	9.999 8863		689
312	8.359 7732	3310	8.359 8871	3312	1.640 1129	9.999 8861	2	688
313	8.360 1041	3309	8.360 2181	3310	1.639 7819	9.999 8860	1	687
		3306		3308			2	
314	8.360 4347		8.360 5489		1.639 4511	9.999 8858		686
315	8.360 7650	3303	8.360 8794	3305	1.639 1206	9.999 8856	2	685
316	8.361 0951	3301	8.361 2096	3302	1.638 7904	9.999 8854	2	684
		3298		3300			1	
317	8.361 4249		8.361 5396		1.638 4604	9.999 8853		683
318	8.361 7545	3296	8.361 8694	3298	1.638 1306	9.999 8851	2	682
319	8.362 0838	3293	8.362 1989	3295	1.637 8011	9.999 8849	2	681
		3291		3292			2	
.320	8.362 4129		8.362 5281		1.637 4719	9.999 8847		.680
		3288		3290			1	
321	8.362 7417		8.362 8571		1.637 1429	9.999 8846		679
322	8.363 0703	3286	8.363 1859	3288	1.636 8141	9.999 8844	2	678
323	8.363 3986	3283	8.363 5144	3285	1.636 4856	9.999 8842	2	677
		3281		3283			2	
324	8.363 7267		8.363 8427		1.636 1573	9.999 8840		676
325	8.364 0545	3278	8.364 1707	3280	1.635 8293	9.999 8839	1	675
326	8.364 3821	3276	8.364 4984	3277	1.635 5016	9.999 8837	2	674
		3274		3276			2	
327	8.364 7095		8.364 8260		1.635 1740	9.999 8835		673
328	8.365 0366	3271	8.365 1532	3272	1.634 8468	9.999 8833	2	672
329	8.365 3634	3268	8.365 4802	3270	1.634 5198	9.999 8832	1	671
		3266		3268			2	
.330	8.365 6900		8.365 8070		1.634 1930	9.999 8830		.670
		3264		3266			2	
331	8.366 0164		8.366 1336		1.633 8664	9.999 8828		669
332	8.366 3425	3261	8.366 4598	3262	1.633 5402	9.999 8826	2	668
333	8.366 6683	3258	8.366 7859	3261	1.633 2141	9.999 8825	1	667
		3257		3258			2	
334	8.366 9940		8.367 1117		1.632 8883	9.999 8823		666
335	8.367 3193	3253	8.367 4372	3255	1.632 5628	9.999 8821	2	665
336	8.367 6445	3252	8.367 7625	3253	1.632 2375	9.999 8819	2	664
		3249		3251			2	
337	8.367 9694		8.368 0876		1.631 9124	9.999 8817		663
338	8.368 2940	3246	8.368 4124	3248	1.631 5876	9.999 8816	1	662
339	8.368 6184	3244	8.368 7370	3246	1.631 2630	9.999 8814	2	661
		3242		3244			2	
.340	8.368 9426		8.369 0614		1.630 9386	9.999 8812		.660
		3239		3241			2	
341	8.369 2665		8.369 3855		1.630 6145	9.999 8810		659
342	8.369 5902	3237	8.369 7093	3238	1.630 2907	9.999 8809	1	658
343	8.369 9136	3234	8.370 0329	3236	1.629 9671	9.999 8807	2	657
		3232		3234			2	
344	8.370 2368		8.370 3563		1.629 6437	9.999 8805		656
345	8.370 5598	3230	8.370 6794	3231	1.629 3206	9.999 8803	2	655
346	8.370 8825	3227	8.371 0023	3229	1.628 9977	9.999 8801	2	654
		3225		3227			1	
347	8.371 2050		8.371 3250		1.628 6750	9.999 8800		653
348	8.371 5272	3222	8.371 6474	3224	1.628 3526	9.999 8798	2	652
349	8.371 8492	3220	8.371 9696	3222	1.628 0304	9.999 8796	2	651
		3218		3219			2	
.350	8.372 1710		8.372 2915		1.627 7085	9.999 8794		.650
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	3340	3335	3330
1	334.0	333.5	333.0
2	668.0	667.0	666.0
3	1002.0	1000.5	999.0
4	1336.0	1334.0	1332.0
5	1670.0	1667.5	1665.0
6	2004.0	2001.0	1998.0
7	2338.0	2334.5	2331.0
8	2672.0	2668.0	2664.0
9	3006.0	3001.5	2997.0

	3325	3320	3315
1	332.5	332.0	331.5
2	665.0	664.0	663.0
3	997.5	996.0	994.5
4	1330.0	1328.0	1326.0
5	1662.5	1660.0	1657.5
6	1995.0	1992.0	1989.0
7	2327.5	2324.0	2320.5
8	2660.0	2656.0	2652.0
9	2992.5	2988.0	2983.5

	3310	3305	3300
1	331.0	330.5	330.0
2	662.0	661.0	660.0
3	993.0	991.5	990.0
4	1324.0	1322.0	1320.0
5	1655.0	1652.5	1650.0
6	1986.0	1983.0	1980.0
7	2317.0	2313.5	2310.0
8	2648.0	2644.0	2640.0
9	2979.0	2974.5	2970.0

	3295	3290	3285
1	329.5	329.0	328.5
2	659.0	658.0	657.0
3	988.5	987.0	985.5
4	1318.0	1316.0	1314.0
5	1647.5	1645.0	1642.5
6	1977.0	1974.0	1971.0
7	2306.5	2303.0	2299.5
8	2636.0	2632.0	2628.0
9	2965.5	2961.0	2956.5

	3280	3270	3260
1	328.0	327.0	326.0
2	656.0	654.0	652.0
3	984.0	981.0	978.0
4	1312.0	1308.0	1304.0
5	1640.0	1635.0	1630.0
6	1968.0	1962.0	1956.0
7	2296.0	2289.0	2282.0
8	2624.0	2616.0	2608.0
9	2952.0	2943.0	2934.0

	3250	3240	3230
1	325.0	324.0	323.0
2	650.0	648.0	646.0
3	975.0	972.0	969.0
4	1300.0	1296.0	1292.0
5	1625.0	1620.0	1615.0
6	1950.0	1944.0	1938.0
7	2275.0	2268.0	2261.0
8	2600.0	2592.0	2584.0
9	2925.0	2916.0	2907.0

	3220	3219	3218
1	322.0	321.9	321.8
2	644.0	643.8	643.6
3	966.0	965.7	965.4
4	1288.0	1287.6	1287.2
5	1610.0	1609.5	1609.0
6	1932.0	1931.4	1930.8
7	2254.0	2253.3	2252.6
8	2576.0	2575.2	2574.4
9	2898.0	2897.1	2896.2

$88^\circ.700 - 88^\circ.650$

$1^\circ.350 - 1^\circ.400$

1°	sin	d	tang	d	cotg	cos	d
.350	8.372 1710		8.372 2915		1.627 7085	9.999 8794	
		3215		3217			1
351	8.372 4925		8.372 6132		1.627 3868	9.999 8793	
352	8.372 8138	3213	8.372 9347	3215	1.627 0653	9.999 8791	2
353	8.373 1348	3210	8.373 2559	3212	1.626 7441	9.999 8789	2
		3208		3210			2
354	8.373 4556		8.373 5769		1.626 4231	9.999 8787	
355	8.373 7762	3206	8.373 8976	3207	1.626 1024	9.999 8785	2
356	8.374 0965	3203	8.374 2182	3206	1.625 7818	9.999 8784	1
		3201		3202			2
357	8.374 4166		8.374 5384		1.625 4616	9.999 8782	
358	8.374 7365	3199	8.374 8585	3201	1.625 1415	9.999 8780	2
359	8.375 0561	3196	8.375 1783	3198	1.624 8217	9.999 8778	2
		3194		3196			2
.360	8.375 3755		8.375 4979		1.624 5021	9.999 8776	
		3192		3193			1
361	8.375 6947		8.375 8172		1.624 1828	9.999 8775	
362	8.376 0136	3189	8.376 1363	3191	1.623 8637	9.999 8773	2
363	8.376 3323	3187	8.376 4552	3189	1.623 5448	9.999 8771	2
		3184		3186			2
364	8.376 6507		8.376 7738		1.623 2262	9.999 8769	
365	8.376 9689	3182	8.377 0922	3184	1.622 9078	9.999 8767	2
366	8.377 2869	3180	8.377 4104	3182	1.622 5896	9.999 8766	1
		3178		3179			2
367	8.377 6047		8.377 7283		1.622 2717	9.999 8764	
368	8.377 9222	3175	8.378 0460	3177	1.621 9540	9.999 8762	2
369	8.378 2395	3173	8.378 3635	3175	1.621 6365	9.999 8760	2
		3171		3172			2
.370	8.378 5566		8.378 6807		1.621 3193	9.999 8758	
		3168		3170			1
371	8.378 8734		8.378 9977		1.621 0023	9.999 8757	
372	8.379 1900	3166	8.379 3145	3168	1.620 6855	9.999 8755	2
373	8.379 5063	3163	8.379 6310	3165	1.620 3690	9.999 8753	2
		3162		3164			2
374	8.379 8225		8.379 9474		1.620 0526	9.999 8751	
375	8.380 1384	3159	8.380 2634	3160	1.619 7366	9.999 8749	2
376	8.380 4541	3157	8.380 5793	3159	1.619 4207	9.999 8747	2
		3154		3156			1
377	8.380 7695		8.380 8949		1.619 1051	9.999 8746	
378	8.381 0847	3152	8.381 2103	3154	1.618 7897	9.999 8744	2
379	8.381 3997	3150	8.381 5255	3152	1.618 4745	9.999 8742	2
		3148		3149			2
.380	8.381 7145		8.381 8404		1.618 1596	9.999 8740	
		3145		3148			2
381	8.382 0290		8.382 1552		1.617 8448	9.999 8738	
382	8.382 3433	3143	8.382 4696	3144	1.617 5304	9.999 8737	1
383	8.382 6574	3141	8.382 7839	3143	1.617 2161	9.999 8735	2
		3138		3140			2
384	8.382 9712		8.383 0979		1.616 9021	9.999 8733	
385	8.383 2848	3136	8.383 4117	3138	1.616 5883	9.999 8731	2
386	8.383 5982	3134	8.383 7253	3136	1.616 2747	9.999 8729	2
		3132		3134			2
387	8.383 9114		8.384 0387		1.615 9613	9.999 8727	
388	8.384 2244	3130	8.384 3518	3131	1.615 6482	9.999 8726	1
389	8.384 5371	3127	8.384 6647	3129	1.615 3353	9.999 8724	2
		3125		3127			2
.390	8.384 8496		8.384 9774		1.615 0226	9.999 8722	
		3122		3124			2
391	8.385 1618		8.385 2898		1.614 7102	9.999 8720	
392	8.385 4739	3121	8.385 6021	3123	1.614 3979	9.999 8718	2
393	8.385 7857	3118	8.385 9141	3120	1.614 0859	9.999 8716	2
		3116		3117			2
394	8.386 0973		8.386 2258		1.613 7742	9.999 8714	
395	8.386 4087	3114	8.386 5374	3116	1.613 4626	9.999 8713	1
396	8.386 7198	3111	8.386 8487	3113	1.613 1513	9.999 8711	2
		3109		3111			2
397	8.387 0307		8.387 1598		1.612 8402	9.999 8709	
398	8.387 3414	3107	8.387 4707	3109	1.612 5293	9.999 8707	2
399	8.387 6519	3105	8.387 7814	3107	1.612 2186	9.999 8705	2
		3103		3104			2
.400	8.387 9622		8.388 0918		1.611 9082	9.999 8703	
	cos	d	cotg	d	tang	sin	d

	P.P.		
.650			
	3217	3215	3210
649			
1	321.7	321.5	321.0
648 2	643.4	643.0	642.0
647 3	965.1	964.5	963.0
4	1286.8	1286.0	1284.0
646 5	1608.5	1607.5	1605.0
645 6	1930.2	1929.0	1926.0
644 7	2251.9	2250.5	2247.0
8	2573.6	2572.0	2568.0
643 9	2895.3	2893.5	2889.0
	3205	3200	3195
642			
1	320.5	320.0	319.5
641 2	641.0	640.0	639.0
.640 3	961.5	960.0	958.5
4	1282.0	1280.0	1278.0
639 5	1602.5	1600.0	1597.5
638 6	1923.0	1920.0	1917.0
637 7	2243.5	2240.0	2236.5
8	2564.0	2560.0	2556.0
636 9	2884.5	2880.0	2875.5
	3190	3185	3180
635			
1	319.0	318.5	318.0
634 2	638.0	637.0	636.0
633 3	957.0	955.5	954.0
632 4	1276.0	1274.0	1272.0
631 5	1595.0	1592.5	1590.0
6	1914.0	1911.0	1908.0
7	2233.0	2229.5	2226.0
.630 8	2552.0	2548.0	2544.0
9	2871.0	2866.5	2862.0
629			
	3175	3170	3165
628			
1	317.5	317.0	316.5
627 2	635.0	634.0	633.0
3	952.5	951.0	949.5
626 4	1270.0	1268.0	1266.0
625 5	1587.5	1585.0	1582.5
624 6	1905.0	1902.0	1899.0
7	2222.5	2219.0	2215.5
623 8	2540.0	2536.0	2532.0
622 9	2857.5	2853.0	2848.5
621			
	3160	3155	3150
.620			
1	316.0	315.5	315.0
619 2	632.0	631.0	630.0
3	948.0	946.5	945.0
618 4	1264.0	1262.0	1260.0
617 5	1580.0	1577.5	1575.0
6	1896.0	1893.0	1890.0
7	2212.0	2208.5	2205.0
616 8	2528.0	2524.0	2520.0
615 9	2844.0	2839.5	2835.0
614			
	3145	3140	3130
613			
1	314.5	314.0	313.0
612 2	629.0	628.0	626.0
611 3	943.5	942.0	939.0
4	1258.0	1256.0	1252.0
.610 5	1572.5	1570.0	1565.0
6	1887.0	1884.0	1878.0
7	2201.5	2198.0	2191.0
609 8	2516.0	2512.0	2504.0
608 9	2830.5	2826.0	2817.0
607			
	3120	3110	3100
606			
1	312.0	311.0	310.0
605 2	624.0	622.0	620.0
604 3	936.0	933.0	930.0
4	1248.0	1244.0	1240.0
603 5	1560.0	1555.0	1550.0
6	1872.0	1866.0	1860.0
602 7	2184.0	2177.0	2170.0
8	2496.0	2488.0	2480.0
601 9	2808.0	2799.0	2790.0
.600			
88°	P.P.		

$88^\circ.650 - 88^\circ.600$

$1^\circ.400 - 1^\circ.450$

1°	sin	d	tang	d	cotg	cos	d	
.400	8.387 9622		8.388 0918		1.611 9082	9.999 8703		.600
		3100		3103			1	
401	8.388 2722		8.388 4021		1.611 5979	9.999 8702		599
402	8.388 5820	3098	8.388 7121	3100	1.611 2879	9.999 8700	2	598
403	8.388 8916	3096	8.389 0219	3098	1.610 9781	9.999 8698	2	597
		3094		3095			2	
404	8.389 2010		8.389 3314		1.610 6686	9.999 8696		596
405	8.389 5102	3092	8.389 6408	3094	1.610 3592	9.999 8694	2	595
406	8.389 8191	3089	8.389 9499	3091	1.610 0501	9.999 8692	2	594
		3087		3089			2	
407	8.390 1278		8.390 2588		1.609 7412	9.999 8690		593
408	8.390 4363	3085	8.390 5675	3087	1.609 4325	9.999 8689	1	592
409	8.390 7446	3083	8.390 8759	3084	1.609 1241	9.999 8687	2	591
		3080		3083			2	
.410	8.391 0526		8.391 1842		1.608 8158	9.999 8685		.590
		3079		3080			2	
411	8.391 3605		8.391 4922		1.608 5078	9.999 8683		589
412	8.391 6681	3076	8.391 8000	3078	1.608 2000	9.999 8681	2	588
413	8.391 9755	3074	8.392 1076	3076	1.607 8924	9.999 8679	2	587
		3072		3074			2	
414	8.392 2827		8.392 4150		1.607 5850	9.999 8677		586
415	8.392 5897	3070	8.392 7221	3071	1.607 2779	9.999 8675	2	585
416	8.392 8964	3067	8.393 0291	3070	1.606 9709	9.999 8674	1	584
		3065		3067			2	
417	8.393 2029		8.393 3358		1.606 6642	9.999 8672		583
418	8.393 5093	3064	8.393 6423	3065	1.606 3577	9.999 8670	2	582
419	8.393 8154	3061	8.393 9486	3063	1.606 0514	9.999 8668	2	581
		3059		3060			2	
.420	8.394 1213		8.394 2546		1.605 7454	9.999 8666		.580
		3056		3059			2	
421	8.394 4269		8.394 5605		1.605 4395	9.999 8664		579
422	8.394 7324	3055	8.394 8661	3056	1.605 1339	9.999 8662	2	578
423	8.395 0376	3052	8.395 1716	3055	1.604 8284	9.999 8660	2	577
		3050		3052			1	
424	8.395 3426		8.395 4768		1.604 5232	9.999 8659		576
425	8.395 6475	3049	8.395 7818	3050	1.604 2182	9.999 8657	2	575
426	8.395 9521	3046	8.396 0866	3048	1.603 9134	9.999 8655	2	574
		3043		3046			2	
427	8.396 2564		8.396 3912		1.603 6088	9.999 8653		573
428	8.396 5606	3042	8.396 6955	3043	1.603 3045	9.999 8651	2	572
429	8.396 8646	3040	8.396 9997	3042	1.603 0003	9.999 8649	2	571
		3037		3039			2	
.430	8.397 1683		8.397 3036		1.602 6964	9.999 8647		.570
		3035		3037			2	
431	8.397 4718		8.397 6073		1.602 3927	9.999 8645		569
432	8.397 7752	3034	8.397 9108	3035	1.602 0892	9.999 8643	2	568
433	8.398 0783	3031	8.398 2141	3033	1.601 7859	9.999 8642	1	567
		3029		3031			2	
434	8.398 3812		8.398 5172		1.601 4828	9.999 8640		566
435	8.398 6839	3027	8.398 8201	3029	1.601 1799	9.999 8638	2	565
436	8.398 9863	3024	8.399 1228	3027	1.600 8772	9.999 8636	2	564
		3023		3024			2	
437	8.399 2886		8.399 4252		1.600 5748	9.999 8634		563
438	8.399 5907	3021	8.399 7275	3023	1.600 2725	9.999 8632	2	562
439	8.399 8925	3018	8.400 0295	3020	1.599 9705	9.999 8630	2	561
		3016		3018			2	
.440	8.400 1941		8.400 3313		1.599 6687	9.999 8628		.560
		3015		3016			2	
441	8.400 4956		8.400 6329		1.599 3671	9.999 8626		559
442	8.400 7968	3012	8.400 9343	3014	1.599 0657	9.999 8624	2	558
443	8.401 0978	3010	8.401 2355	3012	1.598 7645	9.999 8623	1	557
		3008		3010			2	
444	8.401 3986		8.401 5365		1.598 4635	9.999 8621		556
445	8.401 6992	3006	8.401 8373	3008	1.598 1627	9.999 8619	2	555
446	8.401 9996	3004	8.402 1379	3006	1.597 8621	9.999 8617	2	554
		3001		3003			2	
447	8.402 2997		8.402 4382		1.597 5618	9.999 8615		553
448	8.402 5997	3000	8.402 7384	3002	1.597 2616	9.999 8613	2	552
449	8.402 8995	2998	8.403 0384	3000	1.596 9616	9.999 8611	2	551
		2995		2997			2	
.450	8.403 1990		8.403 3381		1.596 6619	9.999 8609		.550
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	3100	3095	3090
1	310.0	309.5	309.0
2	620.0	619.0	618.0
3	930.0	928.5	927.0
4	1240.0	1238.0	1236.0
5	1550.0	1547.5	1545.0
6	1860.0	1857.0	1854.0
7	2170.0	2166.5	2163.0
8	2480.0	2476.0	2472.0
9	2790.0	2785.5	2781.0

	3085	3080	3075
1	308.5	308.0	307.5
2	617.0	616.0	615.0
3	925.5	924.0	922.5
4	1234.0	1232.0	1230.0
5	1542.5	1540.0	1537.5
6	1851.0	1848.0	1845.0
7	2159.5	2156.0	2152.5
8	2468.0	2464.0	2460.0
9	2776.5	2772.0	2767.5

	3070	3065	3060
1	307.0	306.5	306.0
2	614.0	613.0	612.0
3	921.0	919.5	918.0
4	1228.0	1226.0	1224.0
5	1535.0	1532.5	1530.0
6	1842.0	1839.0	1836.0
7	2149.0	2145.5	2142.0
8	2456.0	2452.0	2448.0
9	2763.0	2758.5	2754.0

	3055	3050	3045
1	305.5	305.0	304.5
2	611.0	610.0	609.0
3	916.5	915.0	913.5
4	1222.0	1220.0	1218.0
5	1527.5	1525.0	1522.5
6	1833.0	1830.0	1827.0
7	2138.5	2135.0	2131.5
8	2444.0	2440.0	2436.0
9	2749.5	2745.0	2740.5

	3040	3035	3030
1	304.0	303.5	303.0
2	608.0	607.0	606.0
3	912.0	910.5	909.0
4	1216.0	1214.0	1212.0
5	1520.0	1517.5	1515.0
6	1824.0	1821.0	1818.0
7	2128.0	2124.5	2121.0
8	2432.0	2428.0	2424.0
9	2736.0	2731.5	2727.0

	3025	3020	3015
1	302.5	302.0	301.5
2	605.0	604.0	603.0
3	907.5	906.0	904.5
4	1210.0	1208.0	1206.0
5	1512.5	1510.0	1507.5
6	1815.0	1812.0	1809.0
7	2117.5	2114.0	2110.5
8	2420.0	2416.0	2412.0
9	2722.5	2718.0	2713.5

	3010	3000	2990
1	301.0	300.0	299.0
2	602.0	600.0	598.0
3	903.0	900.0	897.0
4	1204.0	1200.0	1196.0
5	1505.0	1500.0	1495.0
6	1806.0	1800.0	1794.0
7	2107.0	2100.0	2093.0
8	2408.0	2400.0	2392.0
9	2709.0	2700.0	2691.0

$88^\circ.600 - 88^\circ.550$

$1^\circ.450 - 1^\circ.500$

1°	sin	d	tang	d	cotg	cos	d	
.450	8.403 1990		8.403 3381		1.596 6619	9.999 8609		**.550**
		2994		2995			2	
451	8.403 4984		8.403 6376		1.596 3624	9.999 8607		549
452	8.403 7975	2991	8.403 9370	2994	1.596 0630	9.999 8605	2	548
453	8.404 0964	2989	8.404 2361	2991	1.595 7639	9.999 8603	2	547
		2988		2989			2	
454	8.404 3952		8.404 5350		1.595 4650	9.999 8601		546
455	8.404 6937	2985	8.404 8337	2987	1.595 1663	9.999 8600	1	545
456	8.404 9920	2983	8.405 1322	2985	1.594 8678	9.999 8598	2	544
		2981		2983			2	
457	8.405 2901		8.405 4305		1.594 5695	9.999 8596		543
458	8.405 5880	2979	8.405 7286	2981	1.594 2714	9.999 8594	2	542
459	8.405 8857	2977	8.406 0265	2979	1.593 9735	9.999 8592	2	541
		2975		2977			2	
.460	8.406 1832		8.406 3242		1.593 6758	9.999 8590		**.540**
		2973		2975			2	
461	8.406 4805		8.406 6217		1.593 3783	9.999 8588		539
462	8.406 7776	2971	8.406 9190	2973	1.593 0810	9.999 8586	2	538
463	8.407 0745	2969	8.407 2161	2971	1.592 7839	9.999 8584	2	537
		2967		2969			2	
464	8.407 3712		8.407 5130		1.592 4870	9.999 8582		536
465	8.407 6677	2965	8.407 8097	2967	1.592 1903	9.999 8580	2	535
466	8.407 9640	2963	8.408 1061	2964	1.591 8939	9.999 8578	2	534
		2960		2963			2	
467	8.408 2600		8.408 4024		1.591 5976	9.999 8576		533
468	8.408 5559	2959	8.408 6985	2961	1.591 3015	9.999 8574	2	532
469	8.408 8516	2957	8.408 9943	2958	1.591 0057	9.999 8572	2	531
		2955		2957			2	
.470	8.409 1471		8.409 2900		1.590 7100	9.999 8570		**.530**
		2952		2955			1	
471	8.409 4423		8.409 5855		1.590 4145	9.999 8569		529
472	8.409 7374	2951	8.409 8807	2952	1.590 1193	9.999 8567	2	528
473	8.410 0323	2949	8.410 1758	2951	1.589 8242	9.999 8565	2	527
		2946		2949			2	
474	8.410 3269		8.410 4707		1.589 5293	9.999 8563		526
475	8.410 6214	2945	8.410 7653	2946	1.589 2347	9.999 8561	2	525
476	8.410 9157	2943	8.411 0598	2945	1.588 9402	9.999 8559	2	524
		2941		2943			2	
477	8.411 2098		8.411 3541		1.588 6459	9.999 8557		523
478	8.411 5036	2938	8.411 6481	2940	1.588 3519	9.999 8555	2	522
479	8.411 7973	2937	8.411 9420	2939	1.588 0580	9.999 8553	2	521
		2935		2937			2	
.480	8.412 0908		8.412 2357		1.587 7643	9.999 8551		**.520**
		2933		2935			2	
481	8.412 3841		8.412 5292		1.587 4708	9.999 8549		519
482	8.412 6771	2930	8.412 8224	2932	1.587 1776	9.999 8547	2	518
483	8.412 9700	2929	8.413 1155	2931	1.586 8845	9.999 8545	2	517
		2927		2929			2	
484	8.413 2627		8.413 4084		1.586 5916	9.999 8543		516
485	8.413 5552	2925	8.413 7011	2927	1.586 2989	9.999 8541	2	515
486	8.413 8475	2923	8.413 9936	2925	1.586 0064	9.999 8539	2	514
		2921		2923			2	
487	8.414 1396		8.414 2859		1.585 7141	9.999 8537		513
488	8.414 4315	2919	8.414 5780	2921	1.585 4220	9.999 8535	2	512
489	8.414 7232	2917	8.414 8699	2919	1.585 1301	9.999 8533	2	511
		2915		2917			2	
.490	8.415 0147		8.415 1616		1.584 8384	9.999 8531		**.510**
		2913		2915			2	
491	8.415 3060		8.415 4531		1.584 5469	9.999 8529		509
492	8.415 5971	2911	8.415 7444	2913	1.584 2556	9.999 8527	2	508
493	8.415 8880	2909	8.416 0355	2911	1.583 9645	9.999 8525	2	507
		2907		2909			2	
494	8.416 1787		8.416 3264		1.583 6736	9.999 8523		506
495	8.416 4693	2906	8.416 6171	2907	1.583 3829	9.999 8521	2	505
496	8.416 7596	2903	8.416 9077	2906	1.583 0923	9.999 8519	2	504
		2902		2903			2	
497	8.417 0498		8.417 1980		1.582 8020	9.999 8517		503
498	8.417 3397	2899	8.417 4882	2902	1.582 5118	9.999 8515	2	502
499	8.417 6295	2898	8.417 7781	2899	1.582 2219	9.999 8514	1	501
		2895		2898			2	
.500	8.417 9190		8.418 0679		1.581 9321	9.999 8512		**.500**
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	2995	2990	2985
1	299.5	299.0	298.5
2	599.0	598.0	597.0
3	898.5	897.0	895.5
4	1198.0	1196.0	1194.0
5	1497.5	1495.0	1492.5
6	1797.0	1794.0	1791.0
7	2096.5	2093.0	2089.5
8	2396.0	2392.0	2388.0
9	2695.5	2691.0	2686.5

	2980	2975	2970
1	298.0	297.5	297.0
2	596.0	595.0	594.0
3	894.0	892.5	891.0
4	1192.0	1190.0	1188.0
5	1490.0	1487.5	1485.0
6	1788.0	1785.0	1782.0
7	2086.0	2082.5	2079.0
8	2384.0	2380.0	2376.0
9	2682.0	2677.5	2673.0

	2965	2960	2955
1	296.5	296.0	295.5
2	593.0	592.0	591.0
3	889.5	888.0	886.5
4	1186.0	1184.0	1182.0
5	1482.5	1480.0	1477.5
6	1779.0	1776.0	1773.0
7	2075.5	2072.0	2068.5
8	2372.0	2368.0	2364.0
9	2668.5	2664.0	2659.5

	2950	2945	2940
1	295.0	294.5	294.0
2	590.0	589.0	588.0
3	885.0	883.5	882.0
4	1180.0	1178.0	1176.0
5	1475.0	1472.5	1470.0
6	1770.0	1767.0	1764.0
7	2065.0	2061.5	2058.0
8	2360.0	2356.0	2352.0
9	2655.0	2650.5	2646.0

	2935	2930	2925
1	293.5	293.0	292.5
2	587.0	586.0	585.0
3	880.5	879.0	877.5
4	1174.0	1172.0	1170.0
5	1467.5	1465.0	1462.5
6	1761.0	1758.0	1755.0
7	2054.5	2051.0	2047.5
8	2348.0	2344.0	2340.0
9	2641.5	2637.0	2632.5

	2920	2915	2910
1	292.0	291.5	291.0
2	584.0	583.0	582.0
3	876.0	874.5	873.0
4	1168.0	1166.0	1164.0
5	1460.0	1457.5	1455.0
6	1752.0	1749.0	1746.0
7	2044.0	2040.5	2037.0
8	2336.0	2332.0	2328.0
9	2628.0	2623.5	2619.0

	2900	2895	2890
1	290.0	289.5	289.0
2	580.0	579.0	578.0
3	870.0	868.5	867.0
4	1160.0	1158.0	1156.0
5	1450.0	1447.5	1445.0
6	1740.0	1737.0	1734.0
7	2030.0	2026.5	2023.0
8	2320.0	2316.0	2312.0
9	2610.0	2605.5	2601.0

$88^\circ.550 - 88^\circ.500$

$1^\circ.500 - 1^\circ.550$

1°	sin	d	tang	d	cotg	cos	d	
.500	8.417 9190	2894	8.418 0679	2895	1.581 9321	9.999 8512	2	**.500**
501	8.418 2084	2892	8.418 3574	2894	1.581 6426	9.999 8510	2	499
502	8.418 4976	2889	8.418 6468	2892	1.581 3532	9.999 8508	2	498
503	8.418 7865	2888	8.418 9360	2890	1.581 0640	9.999 8506	2	497
504	8.419 0753	2886	8.419 2250	2888	1.580 7750	9.999 8504	2	496
505	8.419 3639	2884	8.419 5138	2886	1.580 4862	9.999 8502	2	495
506	8.419 6523	2882	8.419 8024	2884	1.580 1976	9.999 8500	2	494
507	8.419 9405	2881	8.420 0908	2882	1.579 9092	9.999 8498	2	493
508	8.420 2286	2878	8.420 3790	2880	1.579 6210	9.999 8496	2	492
509	8.420 5164	2876	8.420 6670	2879	1.579 0451	9.999 8494	2	491
.510	8.420 8040	2875	8.420 9549	2876	1.578 7575	9.999 8492	2	**.490**
511	8.421 0915	2873	8.421 2425	2875	1.578 4700	9.999 8490	2	489
512	8.421 3788	2870	8.421 5300	2873	1.578 1827	9.999 8488	2	488
513	8.421 6658	2869	8.421 8173	2870	1.577 8957	9.999 8486	2	487
514	8.421 9527	2867	8.422 1043	2869	1.577 6088	9.999 8484	2	486
515	8.422 2394	2865	8.422 3912	2867	1.577 3221	9.999 8482	2	485
516	8.422 5259	2863	8.422 6779	2865	1.577 0356	9.999 8480	2	484
517	8.422 8122	2861	8.422 9644	2864	1.576 7492	9.999 8478	2	483
518	8.423 0983	2860	8.423 2508	2861	1.576 4631	9.999 8476	2	482
519	8.423 3843	2857	8.423 5369	2860	1.576 1771	9.999 8474	2	481
.520	8.423 6700	2856	8.423 8229	2857	1.575 8914	9.999 8472	2	**.480**
521	8.423 9556	2853	8.424 1086	2856	1.575 6058	9.999 8470	2	479
522	8.424 2409	2852	8.424 3942	2854	1.575 3204	9.999 8468	2	478
523	8.424 5261	2850	8.424 6796	2852	1.575 0352	9.999 8466	2	477
524	8.424 8111	2848	8.424 9648	2850	1.574 7502	9.999 8464	2	476
525	8.425 0959	2847	8.425 2498	2848	1.574 4654	9.999 8461	3	475
526	8.425 3806	2844	8.425 5346	2846	1.574 1808	9.999 8459	2	474
527	8.425 6650	2842	8.425 8192	2845	1.573 8963	9.999 8457	2	473
528	8.425 9492	2841	8.426 1037	2843	1.573 6120	9.999 8455	2	472
529	8.426 2333	2839	8.426 3880	2840	1.573 3280	9.999 8453	2	471
.530	8.426 5172	2837	8.426 6720	2839	1.573 0441	9.999 8451	2	**.470**
531	8.426 8009	2835	8.426 9559	2837	1.572 7604	9.999 8449	2	469
532	8.427 0844	2833	8.427 2396	2836	1.572 4768	9.999 8447	2	468
533	8.427 3677	2831	8.427 5232	2833	1.572 1935	9.999 8445	2	467
534	8.427 6508	2830	8.427 8065	2832	1.571 9103	9.999 8443	2	466
535	8.427 9338	2828	8.428 0897	2829	1.571 6274	9.999 8441	2	465
536	8.428 2166	2825	8.428 3726	2828	1.571 3446	9.999 8439	2	464
537	8.428 4991	2824	8.428 6554	2826	1.571 0620	9.999 8437	2	463
538	8.428 7815	2823	8.428 9380	2825	1.570 7795	9.999 8435	2	462
539	8.429 0638	2820	8.429 2205	2822	1.570 4973	9.999 8433	2	461
.540	8.429 3458	2818	8.429 5027	2820	1.570 2153	9.999 8431	2	**.460**
541	8.429 6276	2817	8.429 7847	2819	1.569 9334	9.999 8429	2	459
542	8.429 9093	2815	8.430 0666	2817	1.569 6517	9.999 8427	2	458
543	8.430 1908	2813	8.430 3483	2815	1.569 3702	9.999 8425	2	457
544	8.430 4721	2811	8.430 6298	2813	1.569 0889	9.999 8423	2	456
545	8.430 7532	2810	8.430 9111	2812	1.568 8077	9.999 8421	2	455
546	8.431 0342	2807	8.431 1923	2809	1.568 5268	9.999 8419	2	454
547	8.431 3149	2806	8.431 4732	2808	1.568 2460	9.999 8417	2	453
548	8.431 5955	2804	8.431 7540	2806	1.567 9654	9.999 8415	2	452
549	8.431 8759	2802	8.432 0346	2804	1.567 6850	9.999 8413	2	451
.550	8.432 1561		8.432 3150			9.999 8411		**.450**
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	2895	2890	2885
1	289.5	289.0	288.5
2	579.0	578.0	577.0
3	868.5	867.0	865.5
4	1158.0	1156.0	1154.0
5	1447.5	1445.0	1442.5
6	1737.0	1734.0	1731.0
7	2026.5	2023.0	2019.5
8	2316.0	2312.0	2308.0
9	2605.5	2601.0	2596.5

	2880	2875	2870
1	288.0	287.5	287.0
2	576.0	575.0	574.0
3	864.0	862.5	861.0
4	1152.0	1150.0	1148.0
5	1440.0	1437.5	1435.0
6	1728.0	1725.0	1722.0
7	2016.0	2012.5	2009.0
8	2304.0	2300.0	2296.0
9	2592.0	2587.5	2583.0

	2865	2860	2855
1	286.5	286.0	285.5
2	573.0	572.0	571.0
3	859.5	858.0	856.5
4	1146.0	1144.0	1142.0
5	1432.5	1430.0	1427.5
6	1719.0	1716.0	1713.0
7	2005.5	2002.0	1998.5
8	2292.0	2288.0	2284.0
9	2578.5	2574.0	2569.5

	2850	2845	2840
1	285.0	284.5	284.0
2	570.0	569.0	568.0
3	855.0	853.5	852.0
4	1140.0	1138.0	1136.0
5	1425.0	1422.5	1420.0
6	1710.0	1707.0	1704.0
7	1995.0	1991.5	1988.0
8	2280.0	2276.0	2272.0
9	2565.0	2560.5	2556.0

	2835	2830	2825
1	283.5	283.0	282.5
2	567.0	566.0	565.0
3	850.5	849.0	847.5
4	1134.0	1132.0	1130.0
5	1417.5	1415.0	1412.5
6	1701.0	1698.0	1695.0
7	1984.5	1981.0	1977.5
8	2268.0	2264.0	2260.0
9	2551.5	2547.0	2542.5

	2820	2815	2810
1	282.0	281.5	281.0
2	564.0	563.0	562.0
3	846.0	844.5	843.0
4	1128.0	1126.0	1124.0
5	1410.0	1407.5	1405.0
6	1692.0	1689.0	1686.0
7	1974.0	1970.5	1967.0
8	2256.0	2252.0	2248.0
9	2538.0	2533.5	2529.0

	2807	2804	2802
1	280.7	280.4	280.2
2	561.4	560.8	560.4
3	842.1	841.2	840.6
4	1122.8	1121.6	1120.8
5	1403.5	1402.0	1401.0
6	1684.2	1682.4	1681.2
7	1964.9	1962.8	1961.4
8	2245.6	2243.2	2241.6
9	2526.3	2523.6	2521.8

$88^\circ.500 - 88^\circ.450$

$1^\circ.550 - 1^\circ.600$

1°	sin	d	tang	d	cotg	cos	d	
.550	8.432 1561	2800	8.432 3150	2803	1.567 6850	9.999 8411	2	**.450**
551	8.432 4361	2799	8.432 5953	2800	1.567 4047	9.999 8409	2	449
552	8.432 7160	2796	8.432 8753	2799	1.567 1247	9.999 8407	3	448
553	8.432 9956	2795	8.433 1552	2797	1.566 8448	9.999 8404	2	447
554	8.433 2751	2793	8.433 4349	2795	1.566 5651	9.999 8402	2	446
555	8.433 5544	2792	8.433 7144	2793	1.566 2856	9.999 8400	2	445
556	8.433 8336	2789	8.433 9937	2792	1.566 0063	9.999 8398	2	444
557	8.434 1125	2788	8.434 2729	2790	1.565 7271	9.999 8396	2	443
558	8.434 3913	2786	8.434 5519	2788	1.565 4481	9.999 8394	2	442
559	8.434 6699	2784	8.434 8307	2786	1.565 1693	9.999 8392	2	441
.560	8.434 9483	2782	8.435 1093	2784	1.564 8907	9.999 8390	2	**.440**
561	8.435 2265	2781	8.435 3877	2783	1.564 6123	9.999 8388	2	439
562	8.435 5046	2779	8.435 6660	2781	1.564 3340	9.999 8386	2	438
563	8.435 7825	2777	8.435 9441	2779	1.564 0559	9.999 8384	2	437
564	8.436 0602	2775	8.436 2220	2777	1.563 7780	9.999 8382	2	436
565	8.436 3377	2774	8.436 4997	2776	1.563 5003	9.999 8380	2	435
566	8.436 6151	2771	8.436 7773	2774	1.563 2227	9.999 8378	2	434
567	8.436 8922	2770	8.437 0547	2772	1.562 9453	9.999 8376	3	433
568	8.437 1692	2768	8.437 3319	2770	1.562 6681	9.999 8373	2	432
569	8.437 4460	2767	8.437 6089	2768	1.562 3911	9.999 8371	2	431
.570	8.437 7227	2764	8.437 8857	2767	1.562 1143	9.999 8369	2	**.430**
571	8.437 9991	2763	8.438 1624	2765	1.561 8376	9.999 8367	2	429
572	8.438 2754	2761	8.438 4389	2763	1.561 5611	9.999 8365	2	428
573	8.438 5515	2760	8.438 7152	2762	1.561 2848	9.999 8363	2	427
574	8.438 8275	2757	8.438 9914	2759	1.561 0086	9.999 8361	2	426
575	8.439 1032	2756	8.439 2673	2758	1.560 7327	9.999 8359	2	425
576	8.439 3788	2754	8.439 5431	2756	1.560 4569	9.999 8357	2	424
577	8.439 6542	2753	8.439 8187	2755	1.560 1813	9.999 8355	2	423
578	8.439 9295	2750	8.440 0942	2753	1.559 9058	9.999 8353	2	422
579	8.440 2045	2749	8.440 3695	2751	1.559 6305	9.999 8351	2	421
.580	8.440 4794	2747	8.440 6446	2749	1.559 3554	9.999 8349	3	**.420**
581	8.440 7541	2746	8.440 9195	2747	1.559 0805	9.999 8346	2	419
582	8.441 0287	2743	8.441 1942	2746	1.558 8058	9.999 8344	2	418
583	8.441 3030	2742	8.441 4688	2744	1.558 5312	9.999 8342	2	417
584	8.441 5772	2740	8.441 7432	2742	1.558 2568	9.999 8340	2	416
585	8.441 8512	2739	8.442 0174	2741	1.557 9826	9.999 8338	2	415
586	8.442 1251	2737	8.442 2915	2739	1.557 7085	9.999 8336	2	414
587	8.442 3988	2735	8.442 5654	2737	1.557 4346	9.999 8334	2	413
588	8.442 6723	2733	8.442 8391	2735	1.557 1609	9.999 8332	2	412
589	8.442 9456	2731	8.443 1126	2734	1.556 8874	9.999 8330	2	411
.590	8.443 2187	2730	8.443 3860	2732	1.556 6140	9.999 8328	3	**.410**
591	8.443 4917	2728	8.443 6592	2730	1.556 3408	9.999 8325	2	409
592	8.443 7645	2727	8.443 9322	2729	1.556 0678	9.999 8323	2	408
593	8.444 0372	2725	8.444 2051	2727	1.555 7949	9.999 8321	2	407
594	8.444 3097	2723	8.444 4778	2725	1.555 5222	9.999 8319	2	406
595	8.444 5820	2721	8.444 7503	2723	1.555 2497	9.999 8317	2	405
596	8.444 8541	2719	8.445 0226	2722	1.554 9774	9.999 8315	2	404
597	8.445 1260	2718	8.445 2948	2720	1.554 7052	9.999 8313	2	403
598	8.445 3978	2717	8.445 5668	2718	1.554 4332	9.999 8311	2	402
599	8.445 6695	2714	8.445 8386	2717	1.554 1614	9.999 8309	3	401
.600	8.445 9409		8.446 1103		1.553 8897	9.999 8306		**.400**
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	2803	2800	2795
1	280.3	280.0	279.5
2	560.6	560.0	559.0
3	840.9	840.0	838.5
4	1121.2	1120.0	1118.0
5	1401.5	1400.0	1397.5
6	1681.8	1680.0	1677.0
7	1962.1	1960.0	1956.5
8	2242.4	2240.0	2236.0
9	2522.7	2520.0	2515.5

	2790	2785	2780
1	279.0	278.5	278.0
2	558.0	557.0	556.0
3	837.0	835.5	834.0
4	1116.0	1114.0	1112.0
5	1395.0	1392.5	1390.0
6	1674.0	1671.0	1668.0
7	1953.0	1949.5	1946.0
8	2232.0	2228.0	2224.0
9	2511.0	2506.5	2502.0

	2775	2770	2765
1	277.5	277.0	276.5
2	555.0	554.0	553.0
3	832.5	831.0	829.5
4	1110.0	1108.0	1106.0
5	1387.5	1385.0	1382.5
6	1665.0	1662.0	1659.0
7	1942.5	1939.0	1935.5
8	2220.0	2216.0	2212.0
9	2497.5	2493.0	2488.5

	2760	2755	2750
1	276.0	275.5	275.0
2	552.0	551.0	550.0
3	828.0	826.5	825.0
4	1104.0	1102.0	1100.0
5	1380.0	1377.5	1375.0
6	1656.0	1653.0	1650.0
7	1932.0	1928.5	1925.0
8	2208.0	2204.0	2200.0
9	2484.0	2479.5	2475.0

	2745	2740	2735
1	274.5	274.0	273.5
2	549.0	548.0	547.0
3	823.5	822.0	820.5
4	1098.0	1096.0	1094.0
5	1372.5	1370.0	1367.5
6	1647.0	1644.0	1641.0
7	1921.5	1918.0	1914.5
8	2196.0	2192.0	2188.0
9	2470.5	2466.0	2461.5

	2730	2725	2722
1	273.0	272.5	272.2
2	546.0	545.0	544.4
3	819.0	817.5	816.6
4	1092.0	1090.0	1088.8
5	1365.0	1362.5	1361.0
6	1638.0	1635.0	1633.2
7	1911.0	1907.5	1905.4
8	2184.0	2180.0	2177.6
9	2457.0	2452.5	2449.8

	2720	2717	2714
1	272.0	271.7	271.4
2	544.0	543.4	542.8
3	816.0	815.1	814.2
4	1088.0	1086.8	1085.6
5	1360.0	1358.5	1357.0
6	1632.0	1630.2	1628.4
7	1904.0	1901.9	1899.8
8	2176.0	2173.6	2171.2
9	2448.0	2445.3	2442.6

$88^\circ.450 - 88^\circ.400$

1°.600 — 1°.650

1°	sin	d	tang	d	cotg	cos	d
.600	8.445 9409		8.446 1103		1.553 8897	9.999 8306	
		2713		2715			2
601	8.446 2122		8.446 3818		1.553 6182	9.999 8304	
602	8.446 4833	2711	8.446 6531	2713	1.553 3469	9.999 8302	2
603	8.446 7542	2709	8.446 9242	2711	1.553 0758	9.999 8300	2
		2708		2710			2
604	8.447 0250		8.447 1952		1.552 8048	9.999 8298	
605	8.447 2956	2706	8.447 4660	2708	1.552 5340	9.999 8296	2
606	8.447 5660	2704	8.447 7367	2707	1.552 2633	9.999 8294	2
		2703		2704			2
607	8.447 8363		8.448 0071		1.551 9929	9.999 8292	
608	8.448 1064	2701	8.448 2775	2704	1.551 7225	9.999 8289	3
609	8.448 3763	2699	8.448 5476	2701	1.551 4524	9.999 8287	2
		2698		2700			2
.610	8.448 6461		8.448 8176		1.551 1824	9.999 8285	
		2696		2698			2
611	8.448 9157		8.449 0874		1.550 9126	9.999 8283	
612	8.449 1851	2694	8.449 3570	2696	1.550 6430	9.999 8281	2
613	8.449 4544	2693	8.449 6265	2695	1.550 3735	9.999 8279	2
		2691		2693			2
614	8.449 7235		8.449 8958		1.550 1042	9.999 8277	
615	8.449 9924	2689	8.450 1649	2691	1.549 8351	9.999 8275	2
616	8.450 2611	2687	8.450 4339	2690	1.549 5661	9.999 8272	3
		2686		2688			2
617	8.450 5297		8.450 7027		1.549 2973	9.999 8270	
618	8.450 7982	2685	8.450 9714	2687	1.549 0286	9.999 8268	2
619	8.451 0664	2682	8.451 2398	2684	1.548 7602	9.999 8266	2
		2681		2683			2
.620	8.451 3345		8.451 5081		1.548 4919	9.999 8264	
		2679		2682			2
621	8.451 6024		8.451 7763		1.548 2237	9.999 8262	
622	8.451 8702	2678	8.452 0443	2680	1.547 9557	9.999 8260	2
623	8.452 1378	2676	8.452 3121	2678	1.547 6879	9.999 8257	3
		2674		2676			2
624	8.452 4052		8.452 5797		1.547 4203	9.999 8255	
625	8.452 6725	2673	8.452 8472	2675	1.547 1528	9.999 8253	2
626	8.452 9396	2671	8.453 1145	2673	1.546 8855	9.999 8251	2
		2670		2672			2
627	8.453 2066		8.453 3817		1.546 6183	9.999 8249	
628	8.453 4733	2667	8.453 6487	2670	1.546 3513	9.999 8247	2
629	8.453 7399	2666	8.453 9155	2668	1.546 0845	9.999 8244	3
		2665		2667			2
.630	8.454 0064		8.454 1822		1.545 8178	9.999 8242	
		2663		2665			2
631	8.454 2727		8.454 4487		1.545 5513	9.999 8240	
632	8.454 5388	2661	8.454 7150	2663	1.545 2850	9.999 8238	2
633	8.454 8048	2660	8.454 9812	2662	1.545 0188	9.999 8236	2
		2657		2660			2
634	8.455 0705		8.455 2472		1.544 7528	9.999 8234	
635	8.455 3362	2657	8.455 5130	2658	1.544 4870	9.999 8232	2
636	8.455 6017	2655	8.455 7787	2657	1.544 2213	9.999 8229	3
		2653		2655			2
637	8.455 8670		8.456 0442		1.543 9558	9.999 8227	
638	8.456 1321	2651	8.456 3096	2654	1.543 6904	9.999 8225	2
639	8.456 3971	2650	8.456 5748	2652	1.543 4252	9.999 8223	2
		2648		2650			2
.640	8.456 6619		8.456 8398		1.543 1602	9.999 8221	
		2647		2649			2
641	8.456 9266		8.457 1047		1.542 8953	9.999 8219	
642	8.457 1911	2645	8.457 3694	2647	1.542 6306	9.999 8216	3
643	8.457 4554	2643	8.457 6340	2646	1.542 3660	9.999 8214	2
		2642		2644			2
644	8.457 7196		8.457 8984		1.542 1016	9.999 8212	
645	8.457 9836	2640	8.458 1626	2642	1.541 8374	9.999 8210	2
646	8.458 2475	2639	8.458 4267	2641	1.541 5733	9.999 8208	2
		2637		2639			3
647	8.458 5112		8.458 6906		1.541 3094	9.999 8205	
648	8.458 7747	2635	8.458 9544	2638	1.541 0456	9.999 8203	2
649	8.459 0381	2634	8.459 2180	2636	1.540 7820	9.999 8201	2
		2632		2634			2
.650	8.459 3013		8.459 4814		1.540 5186	9.999 8199	
	cos	d	cotg	d	tang	sin	d

	P.P.		
.400			
	2715	2710	2705
399			
1	271.5	271.0	270.5
398	2 543.0	542.0	541.0
3	814.5	813.0	811.5
397	4 1086.0	1084.0	1082.0
5	1357.5	1355.0	1352.5
396	6 1629.0	1626.0	1623.0
7	1900.5	1897.0	1893.5
395	8 2172.0	2168.0	2164.0
9	2443.5	2439.0	2434.5
394			
	2700	2695	2690
393			
1	270.0	269.5	269.0
392	2 540.0	539.0	538.0
3	810.0	808.5	807.0
391	4 1080.0	1078.0	1076.0
5	1350.0	1347.5	1345.0
.390	6 1620.0	1617.0	1614.0
7	1890.0	1886.5	1883.0
389	8 2160.0	2156.0	2152.0
9	2430.0	2425.5	2421.0
388			
	2685	2680	2675
387			
1	268.5	268.0	267.5
386	2 537.0	536.0	535.0
3	805.5	804.0	802.5
385	4 1074.0	1072.0	1070.0
5	1342.5	1340.0	1337.5
384	6 1611.0	1608.0	1605.0
7	1879.5	1876.0	1872.5
383	8 2148.0	2144.0	2140.0
9	2416.5	2412.0	2407.5
382			
	2670	2665	2660
381			
1	267.0	266.5	266.0
.380	2 534.0	533.0	532.0
3	801.0	799.5	798.0
379	4 1068.0	1066.0	1064.0
5	1335.0	1332.5	1330.0
378	6 1602.0	1599.0	1596.0
7	1869.0	1865.5	1862.0
377	8 2136.0	2132.0	2128.0
9	2403.0	2398.5	2394.0
376			
	2655	2653	2650
375			
1	265.5	265.3	265.0
374	2 531.0	530.6	530.0
3	796.5	795.9	795.0
373	4 1062.0	1061.2	1060.0
5	1327.5	1326.5	1325.0
372	6 1593.0	1591.8	1590.0
7	1858.5	1857.1	1855.0
371	8 2124.0	2122.4	2120.0
9	2389.5	2387.7	2385.0
.370			
	2647	2644	2641
369			
1	264.7	264.4	264.1
368	2 529.4	528.8	528.2
3	794.1	793.2	792.3
367	4 1058.8	1057.6	1056.4
5	1323.5	1322.0	1320.5
366	6 1588.2	1586.4	1584.6
7	1852.9	1850.8	1848.7
365	8 2117.6	2115.2	2112.8
9	2382.3	2379.6	2376.9
364			
	2638	2635	2632
363			
1	263.8	263.5	263.2
362	2 527.6	527.0	526.4
3	791.4	790.5	789.6
361	4 1055.2	1054.0	1052.8
5	1319.0	1317.5	1316.0
.360	6 1582.8	1581.0	1579.2
7	1846.6	1844.5	1842.4
359	8 2110.4	2108.0	2105.6
9	2374.2	2371.5	2368.8
358			
357			
356			
355			
354			
353			
352			
351			
.350			
88°	P.P.		

88°.400 — 88°.350

$1^\circ.650 - 1^\circ.700$

1°	sin	d	tang	d	cotg	cos	d	
.650	8.459 3013		8.459 4814		1.540 5186	9.999 8199		**.350**
		2630		2633			2	
651	8.459 5643		8.459 7447		1.540 2553	9.999 8197		349
652	8.459 8272	2629	8.460 0078	2631	1.539 9922	9.999 8195	2	348
653	8.460 0900	2628	8.460 2707	2629	1.539 7293	9.999 8192	3	347
		2626		2628			2	
654	8.460 3526		8.460 5335		1.539 4665	9.999 8190		346
655	8.460 6150	2624	8.460 7962	2627	1.539 2038	9.999 8188	2	345
656	8.460 8772	2622	8.461 0587	2625	1.538 9413	9.999 8186	2	344
		2621		2623			2	
657	8.461 1393		8.461 3210		1.538 6790	9.999 8184		343
658	8.461 4013	2620	8.461 5831	2621	1.538 4169	9.999 8181	3	342
659	8.461 6631	2618	8.461 8451	2620	1.538 1549	9.999 8179	2	341
		2616		2619			2	
.660	8.461 9247		8.462 1070		1.537 8930	9.999 8177		**.340**
		2615		2617			2	
661	8.462 1862		8.462 3687		1.537 6313	9.999 8175		339
662	8.462 4475	2613	8.462 6302	2615	1.537 3698	9.999 8173	2	338
663	8.462 7086	2611	8.462 8916	2614	1.537 1084	9.999 8170	3	337
		2610		2612			2	
664	8.462 9696		8.463 1528		1.536 8472	9.999 8168		336
665	8.463 2305	2609	8.463 4139	2611	1.536 5861	9.999 8166	2	335
666	8.463 4912	2607	8.463 6748	2609	1.536 3252	9.999 8164	2	334
		2605		2607			2	
667	8.463 7517		8.463 9355		1.536 0645	9.999 8162		333
668	8.464 0121	2604	8.464 1961	2606	1.535 8039	9.999 8159	3	332
669	8.464 2723	2602	8.464 4566	2605	1.535 5434	9.999 8157	2	331
		2600		2602			2	
.670	8.464 5323		8.464 7168		1.535 2832	9.999 8155		**.330**
		2599		2602			2	
671	8.464 7922		8.464 9770		1.535 0230	9.999 8153		329
672	8.465 0520	2598	8.465 2369	2599	1.534 7631	9.999 8151	2	328
673	8.465 3116	2596	8.465 4968	2599	1.534 5032	9.999 8148	3	327
		2594		2596			2	
674	8.465 5710		8.465 7564		1.534 2436	9.999 8146		326
675	8.465 8303	2593	8.466 0159	2595	1.533 9841	9.999 8144	2	325
676	8.466 0894	2591	8.466 2753	2594	1.533 7247	9.999 8142	2	324
		2590		2592			3	
677	8.466 3484		8.466 5345		1.533 4655	9.999 8139		323
678	8.466 6072	2588	8.466 7935	2590	1.533 2065	9.999 8137	2	322
679	8.466 8659	2587	8.467 0524	2589	1.532 9476	9.999 8135	2	321
		2585		2587			2	
.680	8.467 1244		8.467 3111		1.532 6889	9.999 8133		**.320**
		2584		2586			2	
681	8.467 3828		8.467 5697		1.532 4303	9.999 8131		319
682	8.467 6410	2582	8.467 8281	2584	1.532 1719	9.999 8128	3	318
683	8.467 8990	2580	8.468 0864	2583	1.531 9136	9.999 8126	2	317
		2579		2581			2	
684	8.468 1569		8.468 3445		1.531 6555	9.999 8124		316
685	8.468 4147	2578	8.468 6025	2580	1.531 3975	9.999 8122	2	315
686	8.468 6723	2576	8.468 8603	2578	1.531 1397	9.999 8119	3	314
		2574		2577			2	
687	8.468 9297		8.469 1180		1.530 8820	9.999 8117		313
688	8.469 1870	2573	8.469 3755	2575	1.530 6245	9.999 8115	2	312
689	8.469 4441	2571	8.469 6328	2573	1.530 3672	9.999 8113	2	311
		2570		2572			2	
.690	8.469 7011		8.469 8900		1.530 1100	9.999 8111		**.310**
		2568		2571			3	
691	8.469 9579		8.470 1471		1.529 8529	9.999 8108		309
692	8.470 2146	2567	8.470 4040	2569	1.529 5960	9.999 8106	2	308
693	8.470 4711	2565	8.470 6607	2567	1.529 3393	9.999 8104	2	307
		2564		2566			2	
694	8.470 7275		8.470 9173		1.529 0827	9.999 8102		306
695	8.470 9837	2562	8.471 1738	2565	1.528 8262	9.999 8099	3	305
696	8.471 2398	2561	8.471 4301	2563	1.528 5699	9.999 8097	2	304
		2559		2561			2	
697	8.471 4957		8.471 6862		1.528 3138	9.999 8095		303
698	8.471 7515	2558	8.471 9422	2560	1.528 0578	9.999 8093	2	302
699	8.472 0071	2556	8.472 1981	2559	1.527 8019	9.999 8090	3	301
		2555		2557			2	
.700	8.472 2626		8.472 4538		1.527 5462	9.999 8088		**.300**
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	2633	2630	2625
1	263.3	263.0	262.5
2	526.6	526.0	525.0
3	789.9	789.0	787.5
4	1053.2	1052.0	1050.0
5	1316.5	1315.0	1312.5
6	1579.8	1578.0	1575.0
7	1843.1	1841.0	1837.5
8	2106.4	2104.0	2100.0
9	2369.7	2367.0	2362.5

	2620	2615	2610
1	262.0	261.5	261.0
2	524.0	523.0	522.0
3	786.0	784.5	783.0
4	1048.0	1046.0	1044.0
5	1310.0	1307.5	1305.0
6	1572.0	1569.0	1566.0
7	1834.0	1830.5	1827.0
8	2096.0	2092.0	2088.0
9	2358.0	2353.5	2349.0

	2605	2600	2595
1	260.5	260.0	259.5
2	521.0	520.0	519.0
3	781.5	780.0	778.5
4	1042.0	1040.0	1038.0
5	1302.5	1300.0	1297.5
6	1563.0	1560.0	1557.0
7	1823.5	1820.0	1816.5
8	2084.0	2080.0	2076.0
9	2344.5	2340.0	2335.5

	2590	2585	2582
1	259.0	258.5	258.2
2	518.0	517.0	516.4
3	777.0	775.5	774.6
4	1036.0	1034.0	1032.8
5	1295.0	1292.5	1291.0
6	1554.0	1551.0	1549.2
7	1813.0	1809.5	1807.4
8	2072.0	2068.0	2065.6
9	2331.0	2326.5	2323.8

	2579	2576	2573
1	257.9	257.6	257.3
2	515.8	515.2	514.6
3	773.7	772.8	771.9
4	1031.6	1030.4	1029.2
5	1289.5	1288.0	1286.5
6	1547.4	1545.6	1543.8
7	1805.3	1803.2	1801.1
8	2063.2	2060.8	2058.4
9	2321.1	2318.4	2315.7

	2570	2567	2564
1	257.0	256.7	256.4
2	514.0	513.4	512.8
3	771.0	770.1	769.2
4	1028.0	1026.8	1025.6
5	1285.0	1283.5	1282.0
6	1542.0	1540.2	1538.4
7	1799.0	1796.9	1794.8
8	2056.0	2053.6	2051.2
9	2313.0	2310.3	2307.6

	2561	2558	2555
1	256.1	255.8	255.5
2	512.2	511.6	511.0
3	768.3	767.4	766.5
4	1024.4	1023.2	1022.0
5	1280.5	1279.0	1277.5
6	1536.6	1534.8	1533.0
7	1792.7	1790.6	1788.5
8	2048.8	2046.4	2044.0
9	2304.9	2302.2	2299.5

$88^\circ.350 - 88^\circ.300$

$1^\circ.700 - 1^\circ.750$

1°	sin	d	tang	d	cotg	cos	d	
.700	8.472 2626		8.472 4538		1.527 5462	9.999 8088		**.300**
		2553		2555			2	
701	8.472 5179		8.472 7093		1.527 2907	9.999 8086		299
702	8.472 7730	2551	8.472 9647	2554	1.527 0353	9.999 8084	2	298
703	8.473 0281	2551	8.473 2199	2552	1.526 7801	9.999 8081	3	297
		2548		2551			2	
704	8.473 2829		8.473 4750		1.526 5250	9.999 8079		296
705	8.473 5377	2548	8.473 7300	2550	1.526 2700	9.999 8077	2	295
706	8.473 7922	2545	8.473 9848	2548	1.526 0152	9.999 8075	2	294
		2544		2546			3	
707	8.474 0466		8.474 2394		1.525 7606	9.999 8072		293
708	8.474 3009	2543	8.474 4939	2545	1.525 5061	9.999 8070	2	292
709	8.474 5550	2541	8.474 7483	2544	1.525 2517	9.999 8068	2	291
		2540		2542			2	
.710	8.474 8090		8.475 0025		1.524 9975	9.999 8066		**.290**
		2538		2540			3	
711	8.475 0628		8.475 2565		1.524 7435	9.999 8063		289
712	8.475 3165	2537	8.475 5104	2539	1.524 4896	9.999 8061	2	288
713	8.475 5700	2535	8.475 7642	2538	1.524 2358	9.999 8059	2	287
		2534		2536			3	
714	8.475 8234		8.476 0178		1.523 9822	9.999 8056		286
715	8.476 0766	2532	8.476 2712	2534	1.523 7288	9.999 8054	2	285
716	8.476 3297	2531	8.476 5245	2533	1.523 4755	9.999 8052	2	284
		2530		2532			2	
717	8.476 5827		8.476 7777		1.523 2223	9.999 8050		283
718	8.476 8354	2527	8.477 0307	2530	1.522 9693	9.999 8047	3	282
719	8.477 0881	2527	8.477 2836	2529	1.522 7164	9.999 8045	2	281
		2525		2527			2	
.720	8.477 3406		8.477 5363		1.522 4637	9.999 8043		**.280**
		2523		2526			2	
721	8.477 5929		8.477 7889		1.522 2111	9.999 8041		279
722	8.477 8451	2522	8.478 0413	2524	1.521 9587	9.999 8038	3	278
723	8.478 0972	2521	8.478 2936	2523	1.521 7064	9.999 8036	2	277
		2519		2521			2	
724	8.478 3491		8.478 5457		1.521 4543	9.999 8034		276
725	8.478 6009	2518	8.478 7977	2520	1.521 2023	9.999 8031	3	275
726	8.478 8525	2516	8.479 0496	2519	1.520 9504	9.999 8029	2	274
		2514		2517			2	
727	8.479 1039		8.479 3013		1.520 6987	9.999 8027		273
728	8.479 3553	2514	8.479 5528	2515	1.520 4472	9.999 8025	2	272
729	8.479 6064	2511	8.479 8042	2514	1.520 1958	9.999 8022	3	271
		2511		2513			2	
.730	8.479 8575		8.480 0555		1.519 9445	9.999 8020		**.270**
		2509		2511			2	
731	8.480 1084		8.480 3066		1.519 6934	9.999 8018		269
732	8.480 3591	2507	8.480 5576	2510	1.519 4424	9.999 8015	3	268
733	8.480 6097	2506	8.480 8084	2508	1.519 1916	9.999 8013	2	267
		2505		2507			2	
734	8.480 8602		8.481 0591		1.518 9409	9.999 8011		266
735	8.481 1105	2503	8.481 3096	2505	1.518 6904	9.999 8009	2	265
736	8.481 3606	2501	8.481 5600	2504	1.518 4400	9.999 8006	3	264
		2501		2503			2	
737	8.481 6107		8.481 8103		1.518 1897	9.999 8004		263
738	8.481 8605	2498	8.482 0604	2501	1.517 9396	9.999 8002	2	262
739	8.482 1103	2498	8.482 3103	2499	1.517 6897	9.999 7999	3	261
		2496		2499			2	
.740	8.482 3599		8.482 5602		1.517 4398	9.999 7997		**.260**
		2494		2496			2	
741	8.482 6093		8.482 8098		1.517 1902	9.999 7995		259
742	8.482 8586	2493	8.483 0594	2496	1.516 9406	9.999 7992	3	258
743	8.483 1078	2492	8.483 3088	2494	1.516 6912	9.999 7990	2	257
		2490		2492			2	
744	8.483 3568		8.483 5580		1.516 4420	9.999 7988		256
745	8.483 6057	2489	8.483 8071	2491	1.516 1929	9.999 7986	2	255
746	8.483 8544	2487	8.484 0561	2490	1.515 9439	9.999 7983	3	254
		2486		2488			2	
747	8.484 1030		8.484 3049		1.515 6951	9.999 7981		253
748	8.484 3514	2484	8.484 5536	2487	1.515 4464	9.999 7979	2	252
749	8.484 5997	2483	8.484 8021	2485	1.515 1979	9.999 7976	3	251
		2482		2484			2	
.750	8.484 8479		8.485 0505		1.514 9495	9.999 7974		**.250**
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	2555	2550	2545
1	255.5	255.0	254.5
2	511.0	510.0	509.0
3	766.5	765.0	763.5
4	1022.0	1020.0	1018.0
5	1277.5	1275.0	1272.5
6	1533.0	1530.0	1527.0
7	1788.5	1785.0	1781.5
8	2044.0	2040.0	2036.0
9	2299.5	2295.0	2290.5

	2540	2535	2530
1	254.0	253.5	253.0
2	508.0	507.0	506.0
3	762.0	760.5	759.0
4	1016.0	1014.0	1012.0
5	1270.0	1267.5	1265.0
6	1524.0	1521.0	1518.0
7	1778.0	1774.5	1771.0
8	2032.0	2028.0	2024.0
9	2286.0	2281.5	2277.0

	2525	2520	2517
1	252.5	252.0	251.7
2	505.0	504.0	503.4
3	757.5	756.0	755.1
4	1010.0	1008.0	1006.8
5	1262.5	1260.0	1258.5
6	1515.0	1512.0	1510.2
7	1767.5	1764.0	1761.9
8	2020.0	2016.0	2013.6
9	2272.5	2268.0	2265.3

	2515	2512	2509
1	251.5	251.2	250.9
2	503.0	502.4	501.8
3	754.5	753.6	752.7
4	1006.0	1004.8	1003.6
5	1257.5	1256.0	1254.5
6	1509.0	1507.2	1505.4
7	1760.5	1758.4	1756.3
8	2012.0	2009.6	2007.2
9	2263.5	2260.8	2258.1

	2506	2503	2500
1	250.6	250.3	250.0
2	501.2	500.6	500.0
3	751.8	750.9	750.0
4	1002.4	1001.2	1000.0
5	1253.0	1251.5	1250.0
6	1503.6	1501.8	1500.0
7	1754.2	1752.1	1750.0
8	2004.8	2002.4	2000.0
9	2255.4	2252.7	2250.0

	2497	2494	2491
1	249.7	249.4	249.1
2	499.4	498.8	498.2
3	749.1	748.2	747.3
4	998.8	997.6	996.4
5	1248.5	1247.0	1245.5
6	1498.2	1496.4	1494.6
7	1747.9	1745.8	1743.7
8	1997.6	1995.2	1992.8
9	2247.3	2244.6	2241.9

	2488	2485	2482
1	248.8	248.5	248.2
2	497.6	497.0	496.4
3	746.4	745.5	744.6
4	995.2	994.0	992.8
5	1244.0	1242.5	1241.0
6	1492.8	1491.0	1489.2
7	1741.6	1739.5	1737.4
8	1990.4	1988.0	1985.6
9	2239.2	2236.5	2233.8

$88^\circ.300 - 88^\circ.250$

$1^\circ.750 - 1^\circ.800$

1°	sin	d	tang	d	cotg	cos	d	
.750	8.484 8479	2480	8.485 0505	2482	1.514 9495	9.999 7974	2	**.250**
751	8.485 0959	2479	8.485 2987	2482	1.514 7013	9.999 7972	3	249
752	8.485 3438	2477	8.485 5469	2479	1.514 4531	9.999 7969	2	248
753	8.485 5915	2476	8.485 7948	2479	1.514 2052	9.999 7967	2	247
754	8.485 8391	2475	8.486 0427	2476	1.513 9573	9.999 7965	3	246
755	8.486 0866	2473	8.486 2903	2476	1.513 7097	9.999 7962	2	245
756	8.486 3339	2472	8.486 5379	2474	1.513 4621	9.999 7960	2	244
757	8.486 5811	2470	8.486 7853	2473	1.513 2147	9.999 7958	3	243
758	8.486 8281	2469	8.487 0326	2471	1.512 9674	9.999 7955	2	242
759	8.487 0750	2467	8.487 2797	2470	1.512 7203	9.999 7953	2	241
.760	8.487 3217	2466	8.487 5267	2468	1.512 4733	9.999 7951	3	**.240**
761	8.487 5683	2465	8.487 7735	2467	1.512 2265	9.999 7948	2	239
762	8.487 8148	2463	8.488 0202	2466	1.511 9798	9.999 7946	2	238
763	8.488 0611	2462	8.488 2668	2464	1.511 7332	9.999 7944	3	237
764	8.488 3073	2461	8.488 5132	2463	1.511 4868	9.999 7941	2	236
765	8.488 5534	2459	8.488 7595	2461	1.511 2405	9.999 7939	2	235
766	8.488 7993	2458	8.489 0056	2460	1.510 9944	9.999 7937	3	234
767	8.489 0451	2456	8.489 2516	2459	1.510 7484	9.999 7934	2	233
768	8.489 2907	2455	8.489 4975	2457	1.510 5025	9.999 7932	2	232
769	8.489 5362	2454	8.489 7432	2456	1.510 2568	9.999 7930	3	231
.770	8.489 7816	2452	8.489 9888	2455	1.510 0112	9.999 7927	2	**.230**
771	8.490 0268	2450	8.490 2343	2453	1.509 7657	9.999 7925	2	229
772	8.490 2718	2450	8.490 4796	2452	1.509 5204	9.999 7923	3	228
773	8.490 5168	2448	8.490 7248	2450	1.509 2752	9.999 7920	2	227
774	8.490 7616	2447	8.490 9698	2449	1.509 0302	9.999 7918	2	226
775	8.491 0063	2445	8.491 2147	2448	1.508 7853	9.999 7916	3	225
776	8.491 2508	2444	8.491 4595	2446	1.508 5405	9.999 7913	2	224
777	8.491 4952	2442	8.491 7041	2445	1.508 2959	9.999 7911	2	223
778	8.491 7394	2441	8.491 9486	2443	1.508 0514	9.999 7909	3	222
779	8.491 9835	2440	8.492 1929	2442	1.507 8071	9.999 7906	2	221
.780	8.492 2275	2438	8.492 4371	2441	1.507 5629	9.999 7904	2	**.220**
781	8.492 4713	2437	8.492 6812	2439	1.507 3188	9.999 7902	3	219
782	8.492 7150	2436	8.492 9251	2438	1.507 0749	9.999 7899	2	218
783	8.492 9586	2434	8.493 1689	2437	1.506 8311	9.999 7897	3	217
784	8.493 2020	2433	8.493 4126	2435	1.506 5874	9.999 7894	2	216
785	8.493 4453	2432	8.493 6561	2434	1.506 3439	9.999 7892	2	215
786	8.493 6885	2430	8.493 8995	2433	1.506 1005	9.999 7890	3	214
787	8.493 9315	2429	8.494 1428	2431	1.505 8572	9.999 7887	2	213
788	8.494 1744	2427	8.494 3859	2430	1.505 6141	9.999 7885	2	212
789	8.494 4171	2426	8.494 6289	2428	1.505 3711	9.999 7883	3	211
.790	8.494 6597	2425	8.494 8717	2427	1.505 1283	9.999 7880	2	**.210**
791	8.494 9022	2424	8.495 1144	2426	1.504 8856	9.999 7878	2	209
792	8.495 1446	2422	8.495 3570	2425	1.504 6430	9.999 7876	3	208
793	8.495 3868	2420	8.495 5995	2423	1.504 4005	9.999 7873	2	207
794	8.495 6288	2420	8.495 8418	2421	1.504 1582	9.999 7871	3	206
795	8.495 8708	2418	8.496 0839	2421	1.503 9161	9.999 7868	2	205
796	8.496 1126	2416	8.496 3260	2419	1.503 6740	9.999 7866	2	204
797	8.496 3542	2416	8.496 5679	2417	1.503 4321	9.999 7864	3	203
798	8.496 5958	2414	8.496 8096	2417	1.503 1904	9.999 7861	2	202
799	8.496 8372	2412	8.497 0513	2415	1.502 9487	9.999 7859	3	201
.800	8.497 0784		8.497 2928		1.502 7072	9.999 7856		**.200**
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	2482	2480	2475
1	248.2	248.0	247.5
2	496.4	496.0	495.0
3	744.6	744.0	742.5
4	992.8	992.0	990.0
5	1241.0	1240.0	1237.5
6	1489.2	1488.0	1485.0
7	1737.4	1736.0	1732.5
8	1985.6	1984.0	1980.0
9	2233.8	2232.0	2227.5

	2470	2465	2460
1	247.0	246.5	246.0
2	494.0	493.0	492.0
3	741.0	739.5	738.0
4	988.0	986.0	984.0
5	1235.0	1232.5	1230.0
6	1482.0	1479.0	1476.0
7	1729.0	1725.5	1722.0
8	1976.0	1972.0	1968.0
9	2223.0	2218.5	2214.0

	2455	2450	2447
1	245.5	245.0	244.7
2	491.0	490.0	489.4
3	736.5	735.0	734.1
4	982.0	980.0	978.8
5	1227.5	1225.0	1223.5
6	1473.0	1470.0	1468.2
7	1718.5	1715.0	1712.9
8	1964.0	1960.0	1957.6
9	2209.5	2205.0	2202.3

	2444	2441	2438
1	244.4	244.1	243.8
2	488.8	488.2	487.6
3	733.2	732.3	731.4
4	977.6	976.4	975.2
5	1222.0	1220.5	1219.0
6	1466.4	1464.6	1462.8
7	1710.8	1708.7	1706.6
8	1955.2	1952.8	1950.4
9	2199.6	2196.9	2194.2

	2435	2432	2429
1	243.5	243.2	242.9
2	487.0	486.4	485.8
3	730.5	729.6	728.7
4	974.0	972.8	971.6
5	1217.5	1216.0	1214.5
6	1461.0	1459.2	1457.4
7	1704.5	1702.4	1700.3
8	1948.0	1945.6	1943.2
9	2191.5	2188.8	2186.1

	2426	2423	2420
1	242.6	242.3	242.0
2	485.2	484.6	484.0
3	727.8	726.9	726.0
4	970.4	969.2	968.0
5	1213.0	1211.5	1210.0
6	1455.6	1453.8	1452.0
7	1698.2	1696.1	1694.0
8	1940.8	1938.4	1936.0
9	2183.4	2180.7	2178.0

	2418	2415	2412
1	241.8	241.5	241.2
2	483.6	483.0	482.4
3	725.4	724.5	723.6
4	967.2	966.0	964.8
5	1209.0	1207.5	1206.0
6	1450.8	1449.0	1447.2
7	1692.6	1690.5	1688.4
8	1934.4	1932.0	1929.6
9	2176.2	2173.5	2170.8

$88^\circ.250 - 88^\circ.200$

$1^\circ.800 - 1^\circ.850$

1°	sin	d	tang	d	cotg	cos	d	
.800	8.497 0784		8.497 2928		1.502 7072	9.999 7856		**.200**
		2412		2413			2	
801	8.497 3196		8.497 5341		1.502 4659	9.999 7854		199
802	8.497 5606	2410	8.497 7754	2413	1.502 2246	9.999 7852	2	198
803	8.497 8014	2408	8.498 0165	2411	1.501 9835	9.999 7849	3	197
		2407		2409			2	
804	8.498 0421		8.498 2574		1.501 7426	9.999 7847		196
805	8.498 2827	2406	8.498 4983	2409	1.501 5017	9.999 7845	2	195
806	8.498 5232	2405	8.498 7390	2407	1.501 2610	9.999 7842	3	194
		2403		2405			2	
807	8.498 7635		8.498 9795		1.501 0205	9.999 7840		193
808	8.499 0037	2402	8.499 2200	2405	1.500 7800	9.999 7837	3	192
809	8.499 2438	2401	8.499 4603	2403	1.500 5397	9.999 7835	2	191
		2399		2401			2	
.810	8.499 4837		8.499 7004		1.500 2996	9.999 7833		**.190**
		2398		2401			3	
811	8.499 7235		8.499 9405		1.500 0595	9.999 7830		189
812	8.499 9632	2397	8.500 1804	2399	1.499 8196	9.999 7828	2	188
813	8.500 2027	2395	8.500 4202	2398	1.499 5798	9.999 7825	3	187
		2394		2396			2	
814	8.500 4421		8.500 6598		1.499 3402	9.999 7823		186
815	8.500 6814	2393	8.500 8993	2395	1.499 1007	9.999 7821	2	185
816	8.500 9205	2391	8.501 1387	2394	1.498 8613	9.999 7818	3	184
		2390		2392			2	
817	8.501 1595		8.501 3779		1.498 6221	9.999 7816		183
818	8.501 3984	2389	8.501 6170	2391	1.498 3830	9.999 7813	3	182
819	8.501 6371	2387	8.501 8560	2390	1.498 1440	9.999 7811	2	181
		2386		2389			2	
.820	8.501 8757		8.502 0949		1.497 9051	9.999 7809		**.180**
		2385		2387			3	
821	8.502 1142		8.502 3336		1.497 6664	9.999 7806		179
822	8.502 3525	2383	8.502 5722	2386	1.497 4278	9.999 7804	2	178
823	8.502 5908	2383	8.502 8106	2384	1.497 1894	9.999 7801	3	177
		2380		2383			2	
824	8.502 8288		8.503 0489		1.496 9511	9.999 7799		176
825	8.503 0668	2380	8.503 2871	2382	1.496 7129	9.999 7797	2	175
826	8.503 3046	2378	8.503 5252	2381	1.496 4748	9.999 7794	3	174
		2377		2379			2	
827	8.503 5423		8.503 7631		1.496 2369	9.999 7792		173
828	8.503 7799	2376	8.504 0010	2379	1.495 9990	9.999 7789	3	172
829	8.504 0173	2374	8.504 2386	2376	1.495 7614	9.999 7787	2	171
		2373		2376			3	
.830	8.504 2546		8.504 4762		1.495 5238	9.999 7784		**.170**
		2372		2374			2	
831	8.504 4918		8.504 7136		1.495 2864	9.999 7782		169
832	8.504 7288	2370	8.504 9509	2373	1.495 0491	9.999 7780	2	168
833	8.504 9657	2369	8.505 1880	2371	1.494 8120	9.999 7777	3	167
		2368		2371			2	
834	8.505 2025		8.505 4251		1.494 5749	9.999 7775		166
835	8.505 4392	2367	8.505 6620	2369	1.494 3380	9.999 7772	3	165
836	8.505 6757	2365	8.505 8987	2367	1.494 1013	9.999 7770	2	164
		2364		2367			3	
837	8.505 9121		8.506 1354		1.493 8646	9.999 7767		163
838	8.506 1484	2363	8.506 3719	2365	1.493 6281	9.999 7765	2	162
839	8.506 3845	2361	8.506 6083	2364	1.493 3917	9.999 7763	2	161
		2360		2362			3	
.840	8.506 6205		8.506 8445		1.493 1555	9.999 7760		**.160**
		2359		2362			2	
841	8.506 8564		8.507 0807		1.492 9193	9.999 7758		159
842	8.507 0922	2358	8.507 3167	2360	1.492 6833	9.999 7755	3	158
843	8.507 3278	2356	8.507 5525	2358	1.492 4475	9.999 7753	2	157
		2355		2358			3	
844	8.507 5633		8.507 7883		1.492 2117	9.999 7750		156
845	8.507 7987	2354	8.508 0239	2356	1.491 9761	9.999 7748	2	155
846	8.508 0339	2352	8.508 2594	2355	1.491 7406	9.999 7746	2	154
		2351		2353			3	
847	8.508 2690		8.508 4947		1.491 5053	9.999 7743		153
848	8.508 5040	2350	8.508 7300	2353	1.491 2700	9.999 7741	2	152
849	8.508 7389	2349	8.508 9651	2351	1.491 0349	9.999 7738	3	151
		2347		2350			2	
.850	8.508 9736		8.509 2001		1.490 7999	9.999 7736		**.150**
	cos	d	cotg	d	tang	sin	d	88°

P.P.			
	2413	2410	2405
1	241.3	241.0	240.5
2	482.6	482.0	481.0
3	723.9	723.0	721.5
4	965.2	964.0	962.0
5	1206.5	1205.0	1202.5
6	1447.8	1446.0	1443.0
7	1689.1	1687.0	1683.5
8	1930.4	1928.0	1924.0
9	2171.7	2169.0	2164.5
	2400	2395	2392
1	240.0	239.5	239.2
2	480.0	479.0	478.4
3	720.0	718.5	717.6
4	960.0	958.0	956.8
5	1200.0	1197.5	1196.0
6	1440.0	1437.0	1435.2
7	1680.0	1676.5	1674.4
8	1920.0	1916.0	1913.6
9	2160.0	2155.5	2152.8
	2389	2386	2383
1	238.9	238.6	238.3
2	477.8	477.2	476.6
3	716.7	715.8	714.9
4	955.6	954.4	953.2
5	1194.5	1193.0	1191.5
6	1433.4	1431.6	1429.8
7	1672.3	1670.2	1668.1
8	1911.2	1908.8	1906.4
9	2150.1	2147.4	2144.7
	2380	2377	2374
1	238.0	237.7	237.4
2	476.0	475.4	474.8
3	714.0	713.1	712.2
4	952.0	950.8	949.6
5	1190.0	1188.5	1187.0
6	1428.0	1426.2	1424.4
7	1666.0	1663.9	1661.8
8	1904.0	1901.6	1899.2
9	2142.0	2139.3	2136.6
	2371	2368	2365
1	237.1	236.8	236.5
2	474.2	473.6	473.0
3	711.3	710.4	709.5
4	948.4	947.2	946.0
5	1185.5	1184.0	1182.5
6	1422.6	1420.8	1419.0
7	1659.7	1657.6	1655.5
8	1896.8	1894.4	1892.0
9	2133.9	2131.2	2128.5
	2362	2359	2356
1	236.2	235.9	235.6
2	472.4	471.8	471.2
3	708.6	707.7	706.8
4	944.8	943.6	942.4
5	1181.0	1179.5	1178.0
6	1417.2	1415.4	1413.6
7	1653.4	1651.3	1649.2
8	1889.6	1887.2	1884.8
9	2125.8	2123.1	2120.4
	2353	2350	2347
1	235.3	235.0	234.7
2	470.6	470.0	469.4
3	705.9	705.0	704.1
4	941.2	940.0	938.8
5	1176.5	1175.0	1173.5
6	1411.8	1410.0	1408.2
7	1647.1	1645.0	1642.9
8	1882.4	1880.0	1877.6
9	2117.7	2115.0	2112.3

1°.850 — 1°.900

1°	sin	d	tang	d	cotg	cos	d		P.P.		
.850	8.508 9736	2346	8.509 2001	2348	1.490 7999	9.999 7736	3	.150			
851	8.509 2082	2345	8.509 4349	2347	1.490 5651	9.999 7733	2	149	2348	2345	2340
852	8.509 4427	2344	8.509 6696	2346	1.490 3304	9.999 7731	3	148	1 234.8	234.5	234.0
853	8.509 6771	2342	8.509 9042	2345	1.490 0958	9.999 7728	2	147	2 469.6	469.0	468.0
854	8.509 9113	2341	8.510 1387	2344	1.489 8613	9.999 7726	3	146	3 704.4	703.5	702.0
855	8.510 1454	2340	8.510 3731	2342	1.489 6269	9.999 7723	2	145	4 939.2	938.0	936.0
856	8.510 3794	2338	8.510 6073	2341	1.489 3927	9.999 7721	2	144	5 1174.0	1172.5	1170.0
857	8.510 6132	2338	8.510 8414	2339	1.489 1586	9.999 7719	3	143	6 1408.8	1407.0	1404.0
858	8.510 8470	2336	8.511 0753	2339	1.488 9247	9.999 7716	2	142	7 1643.6	1641.5	1638.0
859	8.511 0806	2334	8.511 3092	2337	1.488 6908	9.999 7714	3	141	8 1878.4	1876.0	1872.0
.860	8.511 3140	2334	8.511 5429	2336	1.488 4571	9.999 7711	2	.140	9 2113.2	2110.5	2106.0
861	8.511 5474	2332	8.511 7765	2335	1.488 2235	9.999 7709	3	139			
862	8.511 7806	2331	8.512 0100	2333	1.487 9900	9.999 7706	2	138	2337	2334	2331
863	8.512 0137	2330	8.512 2433	2332	1.487 7567	9.999 7704	3	137	1 233.7	233.4	233.1
864	8.512 2467	2328	8.512 4765	2331	1.487 5235	9.999 7701	2	136	2 467.4	466.8	466.2
865	8.512 4795	2327	8.512 7096	2330	1.487 2904	9.999 7699	3	135	3 701.1	700.2	699.3
866	8.512 7122	2326	8.512 9426	2328	1.487 0574	9.999 7696	2	134	4 934.8	933.6	932.4
867	8.512 9448	2325	8.513 1754	2328	1.486 8246	9.999 7694	3	133	5 1168.5	1167.0	1165.5
868	8.513 1773	2323	8.513 4082	2325	1.486 5918	9.999 7691	2	132	6 1402.2	1400.4	1398.6
869	8.513 4096	2323	8.513 6407	2325	1.486 3593	9.999 7689	2	131	7 1635.9	1633.8	1631.7
.870	8.513 6419	2321	8.513 8732	2324	1.486 1268	9.999 7687	3	.130	8 1869.6	1867.2	1864.8
871	8.513 8740	2319	8.514 1056	2322	1.485 8944	9.999 7684	2	129	9 2103.3	2100.6	2097.9
872	8.514 1059	2319	8.514 3378	2321	1.485 6622	9.999 7682	3	128			
873	8.514 3378	2317	8.514 5699	2320	1.485 4301	9.999 7679	2	127	2328	2325	2322
874	8.514 5695	2316	8.514 8019	2318	1.485 1981	9.999 7677	3	126	1 232.8	232.5	232.2
875	8.514 8011	2315	8.515 0337	2317	1.484 9663	9.999 7674	2	125	2 465.6	465.0	464.4
876	8.515 0326	2314	8.515 2654	2316	1.484 7346	9.999 7672	3	124	3 698.4	697.5	696.6
877	8.515 2640	2312	8.515 4970	2315	1.484 5030	9.999 7669	2	123	4 931.2	930.0	928.8
878	8.515 4952	2311	8.515 7285	2314	1.484 2715	9.999 7667	3	122	5 1164.0	1162.5	1161.0
879	8.515 7263	2310	8.515 9599	2312	1.484 0401	9.999 7664	2	121	6 1396.8	1395.0	1393.2
.880	8.515 9573	2308	8.516 1911	2311	1.483 8089	9.999 7662	3	.120	7 1629.6	1627.5	1625.4
881	8.516 1881	2308	8.516 4222	2310	1.483 5778	9.999 7659	2	119	8 1862.4	1860.0	1857.6
882	8.516 4189	2306	8.516 6532	2309	1.483 3468	9.999 7657	3	118	9 2095.2	2092.5	2089.8
883	8.516 6495	2305	8.516 8841	2307	1.483 1159	9.999 7654	2	117			
884	8.516 8800	2304	8.517 1148	2307	1.482 8852	9.999 7652	3	116	2319	2316	2313
885	8.517 1104	2302	8.517 3455	2305	1.482 6545	9.999 7649	2	115	1 231.9	231.6	231.3
886	8.517 3406	2302	8.517 5760	2303	1.482 4240	9.999 7647	3	114	2 463.8	463.2	462.6
887	8.517 5708	2300	8.517 8063	2303	1.482 1937	9.999 7644	2	113	3 695.7	694.8	693.9
888	8.517 8008	2298	8.518 0366	2301	1.481 9634	9.999 7642	3	112	4 927.6	926.4	925.2
889	8.518 0306	2298	8.518 2667	2300	1.481 7333	9.999 7639	2	111	5 1159.5	1158.0	1156.5
.890	8.518 2604	2296	8.518 4967	2299	1.481 5033	9.999 7637	3	.110	6 1391.4	1389.6	1387.8
891	8.518 4900	2296	8.518 7266	2298	1.481 2734	9.999 7634	2	109	7 1623.3	1621.2	1619.1
892	8.518 7196	2294	8.518 9564	2296	1.481 0436	9.999 7632	3	108	8 1855.2	1852.8	1850.4
893	8.518 9490	2292	8.519 1860	2296	1.480 8140	9.999 7629	2	107	9 2087.1	2084.4	2081.7
894	8.519 1782	2292	8.519 4156	2294	1.480 5844	9.999 7627	3	106			
895	8.519 4074	2290	8.519 6450	2293	1.480 3550	9.999 7624	2	105	2310	2307	2304
896	8.519 6364	2290	8.519 8743	2291	1.480 1257	9.999 7622	3	104	1 231.0	230.7	230.4
897	8.519 8654	2287	8.520 1034	2291	1.479 8966	9.999 7619	2	103	2 462.0	461.4	460.8
898	8.520 0941	2287	8.520 3325	2289	1.479 6675	9.999 7617	3	102	3 693.0	692.1	691.2
899	8.520 3228	2286	8.520 5614	2288	1.479 4386	9.999 7614	2	101	4 924.0	922.8	921.6
.900	8.520 5514		8.520 7902		1.479 2098	9.999 7612		.100	5 1155.0	1153.5	1152.0
	cos	d	cotg	d	tang	sin	d	88°	6 1386.0	1384.2	1382.4
									7 1617.0	1614.9	1612.8
									8 1848.0	1845.6	1843.2
									9 2079.0	2076.3	2073.6
									2301	2298	2295
									1 230.1	229.8	229.5
									2 460.2	459.6	459.0
									3 690.3	689.4	688.5
									4 920.4	919.2	918.0
									5 1150.5	1149.0	1147.5
									6 1380.6	1378.8	1377.0
									7 1610.7	1608.6	1606.5
									8 1840.8	1838.4	1836.0
									9 2070.9	2068.2	2065.5
									2292	2289	2286
									1 229.2	228.9	228.6
									2 458.4	457.8	457.2
									3 687.6	686.7	685.8
									4 916.8	915.6	914.4
									5 1146.0	1144.5	1143.0
									6 1375.2	1373.4	1371.6
									7 1604.4	1602.3	1600.2
									8 1833.6	1831.2	1828.8
									9 2062.8	2060.1	2057.4

88°.150 — 88°.100

$1^\circ.900 - 1^\circ.950$

1°	sin	d	tang	d	cotg	cos	d	
.900	8.520 5514		8.520 7902		1.479 2098	9.999 7612		**.100**
		2284		2287			3	
901	8.520 7798		8.521 0189		1.478 9811	9.999 7609		099
902	8.521 0081	2283	8.521 2474	2285	1.478 7526	9.999 7607	2	098
903	8.521 2363	2282	8.521 4759	2285	1.478 5241	9.999 7604	3	097
		2281		2283			2	
904	8.521 4644		8.521 7042		1.478 2958	9.999 7602		096
905	8.521 6923	2279	8.521 9324	2282	1.478 0676	9.999 7599	3	095
906	8.521 9202	2279	8.522 1605	2281	1.477 8395	9.999 7597	2	094
		2277		2280			3	
907	8.522 1479		8.522 3885		1.477 6115	9.999 7594		093
908	8.522 3755	2276	8.522 6163	2278	1.477 3837	9.999 7592	2	092
909	8.522 6029	2274	8.522 8440	2277	1.477 1560	9.999 7589	3	091
		2274		2277			3	
.910	8.522 8303		8.523 0717		1.476 9283	9.999 7586		**.090**
		2272		2274			2	
911	8.523 0575		8.523 2991		1.476 7009	9.999 7584		089
912	8.523 2846	2271	8.523 5265	2274	1.476 4735	9.999 7581	3	088
913	8.523 5116	2270	8.523 7538	2273	1.476 2462	9.999 7579	2	087
		2269		2271			3	
914	8.523 7385		8.523 9809		1.476 0191	9.999 7576		086
915	8.523 9653	2268	8.524 2079	2270	1.475 7921	9.999 7574	2	085
916	8.524 1919	2266	8.524 4348	2269	1.475 5652	9.999 7571	3	084
		2266		2268			2	
917	8.524 4185		8.524 6616		1.475 3384	9.999 7569		083
918	8.524 6449	2264	8.524 8882	2266	1.475 1118	9.999 7566	3	082
919	8.524 8711	2262	8.525 1148	2266	1.474 8852	9.999 7564	2	081
		2262		2264			3	
.920	8.525 0973		8.525 3412		1.474 6588	9.999 7561		**.080**
		2261		2263			2	
921	8.525 3234		8.525 5675		1.474 4325	9.999 7559		079
922	8.525 5493	2259	8.525 7937	2262	1.474 2063	9.999 7556	3	078
923	8.525 7751	2258	8.526 0198	2261	1.473 9802	9.999 7553	3	077
		2257		2259			2	
924	8.526 0008		8.526 2457		1.473 7543	9.999 7551		076
925	8.526 2264	2256	8.526 4716	2259	1.473 5284	9.999 7548	3	075
926	8.526 4519	2255	8.526 6973	2257	1.473 3027	9.999 7546	2	074
		2253		2256			3	
927	8.526 6772		8.526 9229		1.473 0771	9.999 7543		073
928	8.526 9024	2252	8.527 1484	2255	1.472 8516	9.999 7541	2	072
929	8.527 1275	2251	8.527 3737	2253	1.472 6263	9.999 7538	3	071
		2250		2253			2	
.930	8.527 3525		8.527 5990		1.472 4010	9.999 7536		**.070**
		2249		2251			3	
931	8.527 5774		8.527 8241		1.472 1759	9.999 7533		069
932	8.527 8022	2248	8.528 0491	2250	1.471 9509	9.999 7531	2	068
933	8.528 0268	2246	8.528 2740	2249	1.471 7260	9.999 7528	3	067
		2246		2248			3	
934	8.528 2514		8.528 4988		1.471 5012	9.999 7525		066
935	8.528 4758	2244	8.528 7235	2247	1.471 2765	9.999 7523	2	065
936	8.528 7001	2243	8.528 9480	2245	1.471 0520	9.999 7520	3	064
		2242		2245			2	
937	8.528 9243		8.529 1725		1.470 8275	9.999 7518		063
938	8.529 1483	2240	8.529 3968	2243	1.470 6032	9.999 7515	3	062
939	8.529 3723	2240	8.529 6210	2242	1.470 3790	9.999 7513	2	061
		2238		2241			3	
.940	8.529 5961		8.529 8451		1.470 1549	9.999 7510		**.060**
		2237		2240			3	
941	8.529 8198		8.530 0691		1.469 9309	9.999 7507		059
942	8.530 0434	2236	8.530 2929	2238	1.469 7071	9.999 7505	2	058
943	8.530 2669	2235	8.530 5167	2238	1.469 4833	9.999 7502	3	057
		2234		2236			2	
944	8.530 4903		8.530 7403		1.469 2597	9.999 7500		056
945	8.530 7136	2233	8.530 9638	2235	1.469 0362	9.999 7497	3	055
946	8.530 9367	2231	8.531 1872	2234	1.468 8128	9.999 7495	2	054
		2230		2233			3	
947	8.531 1597		8.531 4105		1.468 5895	9.999 7492		053
948	8.531 3826	2229	8.531 6337	2232	1.468 3663	9.999 7489	3	052
949	8.531 6054	2228	8.531 8568	2231	1.468 1432	9.999 7487	2	051
		2227		2229			3	
.950	8.531 8281		8.532 0797		1.467 9203	9.999 7484		**.050**
	cos	d	cotg	d	tang	sin	d	88°

P.P.

	2287	2284	2281
1	228.7	228.4	228.1
2	457.4	456.8	456.2
3	686.1	685.2	684.3
4	914.8	913.6	912.4
5	1143.5	1142.0	1140.5
6	1372.2	1370.4	1368.6
7	1600.9	1598.8	1596.7
8	1829.6	1827.2	1824.8
9	2058.3	2055.6	2052.9

	2278	2275	2272
1	227.8	227.5	227.2
2	455.6	455.0	454.4
3	683.4	682.5	681.6
4	911.2	910.0	908.8
5	1139.0	1137.5	1136.0
6	1366.8	1365.0	1363.2
7	1594.6	1592.5	1590.4
8	1822.4	1820.0	1817.6
9	2050.2	2047.5	2044.8

	2269	2266	2263
1	226.9	226.6	226.3
2	453.8	453.2	452.6
3	680.7	679.8	678.9
4	907.6	906.4	905.2
5	1134.5	1133.0	1131.5
6	1361.4	1359.6	1357.8
7	1588.3	1586.2	1584.1
8	1815.2	1812.8	1810.4
9	2042.1	2039.4	2036.7

	2260	2257	2254
1	226.0	225.7	225.4
2	452.0	451.4	450.8
3	678.0	677.1	676.2
4	904.0	902.8	901.6
5	1130.0	1128.5	1127.0
6	1356.0	1354.2	1352.4
7	1582.0	1579.9	1577.8
8	1808.0	1805.6	1803.2
9	2034.0	2031.3	2028.6

	2251	2248	2245
1	225.1	224.8	224.5
2	450.2	449.6	449.0
3	675.3	674.4	673.5
4	900.4	899.2	898.0
5	1125.5	1124.0	1122.5
6	1350.6	1348.8	1347.0
7	1575.7	1573.6	1571.5
8	1800.8	1798.4	1796.0
9	2025.9	2023.2	2020.5

	2242	2239	2236
1	224.2	223.9	223.6
2	448.4	447.8	447.2
3	672.6	671.7	670.8
4	896.8	895.6	894.4
5	1121.0	1119.5	1118.0
6	1345.2	1343.4	1341.6
7	1569.4	1567.3	1565.2
8	1793.6	1791.2	1788.8
9	2017.8	2015.1	2012.4

	2233	2230	2227
1	223.3	223.0	222.7
2	446.6	446.0	445.4
3	669.9	669.0	668.1
4	893.2	892.0	890.8
5	1116.5	1115.0	1113.5
6	1339.8	1338.0	1336.2
7	1563.1	1561.0	1558.9
8	1786.4	1784.0	1781.6
9	2009.7	2007.0	2004.3

$88^\circ.100 - 88^\circ.050$

$1^\circ.950 - 2^\circ.000$

1°	sin	d	tang	d	cotg	cos	d		P.P.
.950	8.531 8281		8.532 0797		1.467 9203	9.999 7484		**.050**	
		2226		2228			2		2228 2225 2222
951	8.532 0507		8.532 3025		1.467 6975	9.999 7482		049	
		2225		2228			3		1 222.8 222.5 222.2
952	8.532 2732		8.532 5253		1.467 4747	9.999 7479		048	2 445.6 445.0 444.4
		2223		2226			2		3 668.4 667.5 666.6
953	8.532 4955		8.532 7479		1.467 2521	9.999 7477		047	4 891.2 890.0 888.8
		2222		2224			3		5 1114.0 1112.5 1111.0
954	8.532 7177		8.532 9703		1.467 0297	9.999 7474		046	6 1336.8 1335.0 1333.2
		2222		2224			3		7 1559.6 1557.5 1555.4
955	8.532 9399		8.533 1927		1.466 8073	9.999 7471		045	8 1782.4 1780.0 1777.6
		2220		2223			2		9 2005.2 2002.5 1999.8
956	8.533 1619		8.533 4150		1.466 5850	9.999 7469		044	
		2218		2221			3		
957	8.533 3837		8.533 6371		1.466 3629	9.999 7466		043	
		2218		2221			2		2220 2217 2214
958	8.533 6055		8.533 8592		1.466 1408	9.999 7464		042	
		2217		2219			3		1 222.0 221.7 221.4
959	8.533 8272		8.534 0811		1.465 9189	9.999 7461		041	2 444.0 443.4 442.8
		2215		2218			3		3 666.0 665.1 664.2
.960	8.534 0487		8.534 3029		1.465 6971	9.999 7458		**.040**	4 888.0 886.8 885.6
		2215		2217			2		5 1110.0 1108.5 1107.0
961	8.534 2702		8.534 5246		1.465 4754	9.999 7456		039	6 1332.0 1330.2 1328.4
		2213		2216			3		7 1554.0 1551.9 1549.8
962	8.534 4915		8.534 7462		1.465 2538	9.999 7453		038	8 1776.0 1773.6 1771.2
		2212		2214			2		9 1998.0 1995.3 1992.6
963	8.534 7127		8.534 9676		1.465 0324	9.999 7451		037	
		2211		2214			3		
964	8.534 9338		8.535 1890		1.464 8110	9.999 7448		036	
		2210		2212			3		2211 2208 2205
965	8.535 1548		8.535 4102		1.464 5898	9.999 7445		035	
		2209		2212			2		1 221.1 220.8 220.5
966	8.535 3757		8.535 6314		1.464 3686	9.999 7443		034	2 442.2 441.6 441.0
		2207		2210			3		3 663.3 662.4 661.5
967	8.535 5964		8.535 8524		1.464 1476	9.999 7440		033	4 884.4 883.2 882.0
		2207		2209			2		5 1105.5 1104.0 1102.5
968	8.535 8171		8.536 0733		1.463 9267	9.999 7438		032	6 1326.6 1324.8 1323.0
		2205		2208			3		7 1547.7 1545.6 1543.5
969	8.536 0376		8.536 2941		1.463 7059	9.999 7435		031	8 1768.8 1766.4 1764.0
		2204		2207			3		9 1989.9 1987.2 1984.5
.970	8.536 2580		8.536 5148		1.463 4852	9.999 7432		**.030**	
		2203		2206			2		
971	8.536 4783		8.536 7354		1.463 2646	9.999 7430		029	
		2202		2204			3		2203 2200 2197
972	8.536 6985		8.536 9558		1.463 0442	9.999 7427		028	
		2201		2204			2		1 220.3 220.0 219.7
973	8.536 9186		8.537 1762		1.462 8238	9.999 7425		027	2 440.6 440.0 439.4
		2200		2202			3		3 660.9 660.0 659.1
974	8.537 1386		8.537 3964		1.462 6036	9.999 7422		026	4 881.2 880.0 878.8
		2199		2201			3		5 1101.5 1100.0 1098.5
975	8.537 3585		8.537 6165		1.462 3835	9.999 7419		025	6 1321.8 1320.0 1318.2
		2197		2200			2		7 1542.1 1540.0 1537.9
976	8.537 5782		8.537 8365		1.462 1635	9.999 7417		024	8 1762.4 1760.0 1757.6
		2197		2199			3		9 1982.7 1980.0 1977.3
977	8.537 7979		8.538 0564		1.461 9436	9.999 7414		023	
		2195		2198			2		
978	8.538 0174		8.538 2762		1.461 7238	9.999 7412		022	2194 2191 2188
		2194		2197			3		
979	8.538 2368		8.538 4959		1.461 5041	9.999 7409		021	
		2193		2196			3		
.980	8.538 4561		8.538 7155		1.461 2845	9.999 7406		**.020**	1 219.4 219.1 218.8
		2192		2194			2		2 438.8 438.2 437.6
981	8.538 6753		8.538 9349		1.461 0651	9.999 7404		019	3 658.2 657.3 656.4
		2191		2194			3		4 877.6 876.4 875.2
982	8.538 8944		8.539 1543		1.460 8457	9.999 7401		018	5 1097.0 1095.5 1094.0
		2190		2192			3		6 1316.4 1314.6 1312.8
983	8.539 1134		8.539 3735		1.460 6265	9.999 7398		017	7 1535.8 1533.7 1531.6
		2188		2192			2		8 1755.2 1752.8 1750.4
984	8.539 3322		8.539 5927		1.460 4073	9.999 7396		016	9 1974.6 1971.9 1969.2
		2188		2190			3		
985	8.539 5510		8.539 8117		1.460 1883	9.999 7393		015	
		2186		2189			2		
986	8.539 7696		8.540 0306		1.459 9694	9.999 7391		014	2186 2183 2180
		2186		2188			3		
987	8.539 9882		8.540 2494		1.459 7506	9.999 7388		013	1 218.6 218.3 218.0
		2184		2187			3		2 437.2 436.6 436.0
988	8.540 2066		8.540 4681		1.459 5319	9.999 7385		012	3 655.8 654.9 654.0
		2183		2186			2		4 874.4 873.2 872.0
989	8.540 4249		8.540 6867		1.459 3133	9.999 7383		011	5 1093.0 1091.5 1090.0
		2182		2184			3		6 1311.6 1309.8 1308.0
.990	8.540 6431		8.540 9051		1.459 0949	9.999 7380		**.010**	7 1530.2 1528.1 1526.0
		2181		2184			3		8 1748.8 1746.4 1744.0
991	8.540 8612		8.541 1235		1.458 8765	9.999 7377		009	9 1967.4 1964.7 1962.0
		2180		2182			2		
992	8.541 0792		8.541 3417		1.458 6583	9.999 7375		008	
		2179		2182			3		
993	8.541 2971		8.541 5599		1.458 4401	9.999 7372		007	2177 2174 2171
		2178		2180			3		
994	8.541 5149		8.541 7779		1.458 2221	9.999 7369		006	
		2176		2179			2		
995	8.541 7325		8.541 9958		1.458 0042	9.999 7367		005	1 217.7 217.4 217.1
		2176		2178			3		2 435.4 434.8 434.2
996	8.541 9501		8.542 2136		1.457 7864	9.999 7364		004	3 653.1 652.2 651.3
		2174		2177			2		4 870.8 869.6 868.4
997	8.542 1675		8.542 4313		1.457 5687	9.999 7362		003	5 1088.5 1087.0 1085.5
		2173		2176			3		6 1306.2 1304.4 1302.6
998	8.542 3848		8.542 6489		1.457 3511	9.999 7359		002	7 1523.9 1521.8 1519.7
		2173		2175			3		8 1741.6 1739.2 1736.8
999	8.542 6021		8.542 8664		1.457 1336	9.999 7356		001	9 1959.3 1956.6 1953.9
		2171		2174			2		
***.000**	8.542 8192		8.543 0838		1.456 9162	9.999 7354		**.000**	
	cos	d	cotg	d	tang	sin	d	88°	P.P.

$88^\circ.050 - 88^\circ.000$

$2^\circ.000$ — $2^\circ.050$

2°	sin	d	tang	d	cotg	cos	d
.000	8.542 8192	2170	8.543 0838	2173	1.456 9162	9.999 7354	3
001	8.543 0362	2169	8.543 3011	2171	1.456 6989	9.999 7351	3
002	8.543 2531	2168	8.543 5182	2171	1.456 4818	9.999 7348	2
003	8.543 4699	2166	8.543 7353	2169	1.456 2647	9.999 7346	3
004	8.543 6865	2166	8.543 9522	2169	1.456 0478	9.999 7343	3
005	8.543 9031	2165	8.544 1691	2167	1.455 8309	9.999 7340	2
006	8.544 1196	2163	8.544 3858	2166	1.455 6142	9.999 7338	3
007	8.544 3359	2163	8.544 6024	2165	1.455 3976	9.999 7335	3
008	8.544 5522	2161	8.544 8189	2164	1.455 1811	9.999 7332	2
009	8.544 7683	2160	8.545 0353	2163	1.454 9647	9.999 7330	3
.010	8.544 9843	2160	8.545 2516	2162	1.454 7484	9.999 7327	3
011	8.545 2003	2158	8.545 4678	2161	1.454 5322	9.999 7324	2
012	8.545 4161	2157	8.545 6839	2160	1.454 3161	9.999 7322	3
013	8.545 6318	2156	8.545 8999	2159	1.454 1001	9.999 7319	3
014	8.545 8474	2155	8.546 1158	2157	1.453 8842	9.999 7316	2
015	8.546 0629	2154	8.546 3315	2157	1.453 6685	9.999 7314	3
016	8.546 2783	2153	8.546 5472	2155	1.453 4528	9.999 7311	3
017	8.546 4936	2151	8.546 7627	2155	1.453 2373	9.999 7308	2
018	8.546 7087	2151	8.546 9782	2153	1.453 0218	9.999 7306	3
019	8.546 9238	2150	8.547 1935	2152	1.452 8065	9.999 7303	3
.020	8.547 1388	2148	8.547 4087	2151	1.452 5913	9.999 7300	2
021	8.547 3536	2148	8.547 6238	2151	1.452 3762	9.999 7298	3
022	8.547 5684	2146	8.547 8389	2149	1.452 1611	9.999 7295	3
023	8.547 7830	2145	8.548 0538	2148	1.451 9462	9.999 7292	2
024	8.547 9975	2145	8.548 2686	2147	1.451 7314	9.999 7290	3
025	8.548 2120	2143	8.548 4833	2146	1.451 5167	9.999 7287	3
026	8.548 4263	2142	8.548 6979	2145	1.451 3021	9.999 7284	2
027	8.548 6405	2141	8.548 9124	2143	1.451 0876	9.999 7282	3
028	8.548 8546	2140	8.549 1267	2143	1.450 8733	9.999 7279	3
029	8.549 0686	2139	8.549 3410	2142	1.450 6590	9.999 7276	2
.030	8.549 2825	2138	8.549 5552	2140	1.450 4448	9.999 7274	3
031	8.549 4963	2137	8.549 7692	2140	1.450 2308	9.999 7271	3
032	8.549 7100	2136	8.549 9832	2139	1.450 0168	9.999 7268	2
033	8.549 9236	2135	8.550 1971	2137	1.449 8029	9.999 7266	3
034	8.550 1371	2134	8.550 4108	2137	1.449 5892	9.999 7263	3
035	8.550 3505	2132	8.550 6245	2135	1.449 3755	9.999 7260	3
036	8.550 5637	2132	8.550 8380	2134	1.449 1620	9.999 7257	2
037	8.550 7769	2131	8.551 0514	2134	1.448 9486	9.999 7255	3
038	8.550 9900	2129	8.551 2648	2132	1.448 7352	9.999 7252	3
039	8.551 2029	2129	8.551 4780	2131	1.448 5220	9.999 7249	2
.040	8.551 4158	2127	8.551 6911	2130	1.448 3089	9.999 7247	3
041	8.551 6285	2127	8.551 9041	2129	1.448 0959	9.999 7244	3
042	8.551 8412	2125	8.552 1170	2128	1.447 8830	9.999 7241	2
043	8.552 0537	2124	8.552 3298	2128	1.447 6702	9.999 7239	3
044	8.552 2661	2124	8.552 5426	2126	1.447 4574	9.999 7236	3
045	8.552 4785	2122	8.552 7552	2125	1.447 2448	9.999 7233	3
046	8.552 6907	2121	8.552 9677	2123	1.447 0323	9.999 7230	2
047	8.552 9028	2120	8.553 1800	2123	1.446 8200	9.999 7228	3
048	8.553 1148	2120	8.553 3923	2122	1.446 6077	9.999 7225	3
049	8.553 3268	2118	8.553 6045	2121	1.446 3955	9.999 7222	2
.050	8.553 5386		8.553 8166		1.446 1834	9.999 7220	
	cos	d	cotg	d	tang	sin	d

88°.000 — 87°.950

***000**	P.P.		
	2173	2170	2167
999	217.3	217.0	216.7
998	434.6	434.0	433.4
997	651.9	651.0	650.1
996	869.2	868.0	866.8
995	1086.5	1085.0	1083.5
994	1303.8	1302.0	1300.2
993	1521.1	1519.0	1516.9
992	1738.4	1736.0	1733.6
991	1955.7	1953.0	1950.3
	2165	2162	2159
.990	216.5	216.2	215.9
989	433.0	432.4	431.8
988	649.5	648.6	647.7
987	866.0	864.8	863.6
986	1082.5	1081.0	1079.5
985	1299.0	1297.2	1295.4
984	1515.5	1513.4	1511.3
983	1732.0	1729.6	1727.2
982	1948.5	1945.8	1943.1
981	2157	2154	2151
.980	215.7	215.4	215.1
979	431.4	430.8	430.2
978	647.1	646.2	645.3
977	862.8	861.6	860.4
976	1078.5	1077.0	1075.5
975	1294.2	1292.4	1290.6
974	1509.9	1507.8	1505.7
973	1725.6	1723.2	1720.8
972	1941.3	1938.6	1935.9
971	2149	2146	2143
.970	214.9	214.6	214.3
969	429.8	429.2	428.6
968	644.7	643.8	642.9
967	859.6	858.4	857.2
966	1074.5	1073.0	1071.5
965	1289.4	1287.6	1285.8
964	1504.3	1502.2	1500.1
963	1719.2	1716.8	1714.4
962	1934.1	1931.4	1928.7
961	2141	2138	2135
.960	214.1	213.8	213.5
959	428.2	427.6	427.0
958	642.3	641.4	640.5
957	856.4	855.2	854.0
956	1070.5	1069.0	1067.5
955	1284.6	1282.8	1281.0
954	1498.7	1496.6	1494.5
953	1712.8	1710.4	1708.0
952	1926.9	1924.2	1921.5
951	2133	2130	2127
.950	213.3	213.0	212.7
	426.6	426.0	425.4
	639.9	639.0	638.1
	853.2	852.0	850.8
	1066.5	1065.0	1063.5
	1279.8	1278.0	1276.2
	1493.1	1491.0	1488.9
	1706.4	1704.0	1701.6
	1919.7	1917.0	1914.3
	2124	2121	2118
	212.4	212.1	211.8
	424.8	424.2	423.6
	637.2	636.3	635.4
	849.6	848.4	847.2
	1062.0	1060.5	1059.0
	1274.4	1272.6	1270.8
	1486.8	1484.7	1482.6
	1699.2	1696.8	1694.4
	1911.6	1908.9	1906.2
87°	P.P.		

$2^\circ.050 - 2^\circ.100$

2°	sin	d	tang	d	cotg	cos	d	
.050	8.553 5386		8.553 8166		1.446 1834	9.999 7220		.950
		2117		2120			3	
051	8.553 7503		8.554 0286		1.445 9714	9.999 7217		949
052	8.553 9619	2116	8.554 2405	2119	1.445 7595	9.999 7214	3	948
053	8.554 1734	2115	8.554 4522	2117	1.445 5478	9.999 7211	3	947
		2114		2117			2	
054	8.554 3848		8.554 6639		1.445 3361	9.999 7209		946
055	8.554 5961	2113	8.554 8755	2116	1.445 1245	9.999 7206	3	945
056	8.554 8073	2112	8.555 0869	2114	1.444 9131	9.999 7203	3	944
		2111		2114			2	
057	8.555 0184		8.555 2983		1.444 7017	9.999 7201		943
058	8.555 2293	2109	8.555 5096	2113	1.444 4904	9.999 7198	3	942
059	8.555 4402	2109	8.555 7207	2111	1.444 2793	9.999 7195	3	941
		2108		2111			3	
.060	8.555 6510		8.555 9318		1.444 0682	9.999 7192		.940
		2107		2109			2	
061	8.555 8617		8.556 1427		1.443 8573	9.999 7190		939
062	8.556 0723	2106	8.556 3536	2109	1.443 6464	9.999 7187	3	938
063	8.556 2828	2105	8.556 5643	2107	1.443 4357	9.999 7184	3	937
		2103		2107			3	
064	8.556 4931		8.556 7750		1.443 2250	9.999 7181		936
065	8.556 7034	2103	8.556 9855	2105	1.443 0145	9.999 7179	2	935
066	8.556 9136	2102	8.557 1960	2105	1.442 8040	9.999 7176	3	934
		2100		2103			3	
067	8.557 1236		8.557 4063		1.442 5937	9.999 7173		933
068	8.557 3336	2100	8.557 6165	2102	1.442 3835	9.999 7171	2	932
069	8.557 5435	2099	8.557 8267	2102	1.442 1733	9.999 7168	3	931
		2097		2100			3	
.070	8.557 7532		8.558 0367		1.441 9633	9.999 7165		.930
		2097		2100			3	
071	8.557 9629		8.558 2467		1.441 7533	9.999 7162		929
072	8.558 1725	2096	8.558 4565	2098	1.441 5435	9.999 7160	2	928
073	8.558 3819	2094	8.558 6662	2097	1.441 3338	9.999 7157	3	927
		2094		2097			3	
074	8.558 5913		8.558 8759		1.441 1241	9.999 7154		926
075	8.558 8005	2092	8.559 0854	2095	1.440 9146	9.999 7151	3	925
076	8.559 0097	2092	8.559 2948	2094	1.440 7052	9.999 7149	2	924
		2090		2094			3	
077	8.559 2187		8.559 5042		1.440 4958	9.999 7146		923
078	8.559 4277	2090	8.559 7134	2092	1.440 2866	9.999 7143	3	922
079	8.559 6366	2089	8.559 9225	2091	1.440 0775	9.999 7140	3	921
		2087		2090			2	
.080	8.559 8453		8.560 1315		1.439 8685	9.999 7138		.920
		2087		2090			3	
081	8.560 0540		8.560 3405		1.439 6595	9.999 7135		919
082	8.560 2625	2085	8.560 5493	2088	1.439 4507	9.999 7132	3	918
083	8.560 4710	2085	8.560 7580	2087	1.439 2420	9.999 7129	3	917
		2083		2087			2	
084	8.560 6793		8.560 9667		1.439 0333	9.999 7127		916
085	8.560 8876	2083	8.561 1752	2085	1.438 8248	9.999 7124	3	915
086	8.561 0957	2081	8.561 3836	2084	1.438 6164	9.999 7121	3	914
		2081		2083			3	
087	8.561 3038		8.561 5919		1.438 4081	9.999 7118		913
088	8.561 5117	2079	8.561 8002	2083	1.438 1998	9.999 7116	2	912
089	8.561 7196	2079	8.562 0083	2081	1.437 9917	9.999 7113	3	911
		2077		2080			3	
.090	8.561 9273		8.562 2163		1.437 7837	9.999 7110		.910
		2077		2080			3	
091	8.562 1350		8.562 4243		1.437 5757	9.999 7107		909
092	8.562 3425	2075	8.562 6321	2078	1.437 3679	9.999 7104	3	908
093	8.562 5500	2075	8.562 8398	2077	1.437 1602	9.999 7102	2	907
		2074		2077			3	
094	8.562 7574		8.563 0475		1.436 9525	9.999 7099		906
095	8.562 9646	2072	8.563 2550	2075	1.436 7450	9.999 7096	3	905
096	8.563 1718	2072	8.563 4624	2074	1.436 5376	9.999 7093	3	904
		2070		2074			2	
097	8.563 3788		8.563 6698		1.436 3302	9.999 7091		903
098	8.563 5858	2070	8.563 8770	2072	1.436 1230	9.999 7088	3	902
099	8.563 7927	2069	8.564 0842	2072	1.435 9158	9.999 7085	3	901
		2067		2070			3	
.100	8.563 9994		8.564 2912		1.435 7088	9.999 7082		.900
	cos	d	cotg	d	tang	sin	d	87°

P.P.

	2120	2117	2114
1	212.0	211.7	211.4
2	424.0	423.4	422.8
3	636.0	635.1	634.2
4	848.0	846.8	845.6
5	1060.0	1058.5	1057.0
6	1272.0	1270.2	1268.4
7	1484.0	1481.9	1479.8
8	1696.0	1693.6	1691.2
9	1908.0	1905.3	1902.6

	2112	2109	2106
1	211.2	210.9	210.6
2	422.4	421.8	421.2
3	633.6	632.7	631.8
4	844.8	843.6	842.4
5	1056.0	1054.5	1053.0
6	1267.2	1265.4	1263.6
7	1478.4	1476.3	1474.2
8	1689.6	1687.2	1684.8
9	1900.8	1898.1	1895.4

	2104	2101	2098
1	210.4	210.1	209.8
2	420.8	420.2	419.6
3	631.2	630.3	629.4
4	841.6	840.4	839.2
5	1052.0	1050.5	1049.0
6	1262.4	1260.6	1258.8
7	1472.8	1470.7	1468.6
8	1683.2	1680.8	1678.4
9	1893.6	1890.9	1888.2

	2096	2093	2090
1	209.6	209.3	209.0
2	419.2	418.6	418.0
3	628.8	627.9	627.0
4	838.4	837.2	836.0
5	1048.0	1046.5	1045.0
6	1257.6	1255.8	1254.0
7	1467.2	1465.1	1463.0
8	1676.8	1674.4	1672.0
9	1886.4	1883.7	1881.0

	2088	2085	2082
1	208.8	208.5	208.2
2	417.6	417.0	416.4
3	626.4	625.5	624.6
4	835.2	834.0	832.8
5	1044.0	1042.5	1041.0
6	1252.8	1251.0	1249.2
7	1461.6	1459.5	1457.4
8	1670.4	1668.0	1665.6
9	1879.2	1876.5	1873.8

	2080	2077	2074
1	208.0	207.7	207.4
2	416.0	415.4	414.8
3	624.0	623.1	622.2
4	832.0	830.8	829.6
5	1040.0	1038.5	1037.0
6	1248.0	1246.2	1244.4
7	1456.0	1453.9	1451.8
8	1664.0	1661.6	1659.2
9	1872.0	1869.3	1866.6

	2072	2069	2067
1	207.2	206.9	206.7
2	414.4	413.8	413.4
3	621.6	620.7	620.1
4	828.8	827.6	826.8
5	1036.0	1034.5	1033.5
6	1243.2	1241.4	1240.2
7	1450.4	1448.3	1446.9
8	1657.6	1655.2	1653.6
9	1864.8	1862.1	1860.3

$87^\circ.950 - 87^\circ.900$

2°.100 — 2°.150

2°	sin	d	tang	d	cotg	cos	d
.100	8.563 9994	2067	8.564 2912	2069	1.435 7088	9.999 7082	3
101	8.564 2061	2066	8.564 4981	2069	1.435 5019	9.999 7079	2
102	8.564 4127	2064	8.564 7050	2067	1.435 2950	9.999 7077	3
103	8.564 6191	2064	8.564 9117	2067	1.435 0883	9.999 7074	3
104	8.564 8255	2063	8.565 1184	2065	1.434 8816	9.999 7071	3
105	8.565 0318	2061	8.565 3249	2065	1.434 6751	9.999 7068	2
106	8.565 2379	2061	8.565 5314	2063	1.434 4686	9.999 7066	3
107	8.565 4440	2060	8.565 7377	2063	1.434 2623	9.999 7063	3
108	8.565 6500	2059	8.565 9440	2062	1.434 0560	9.999 7060	3
109	8.565 8559	2058	8.566 1502	2060	1.433 8498	9.999 7057	3
.110	8.566 0617	2056	8.566 3562	2060	1.433 6438	9.999 7054	2
111	8.566 2673	2056	8.566 5622	2058	1.433 4378	9.999 7052	3
112	8.566 4729	2055	8.566 7680	2058	1.433 2320	9.999 7049	3
113	8.566 6784	2054	8.566 9738	2057	1.433 0262	9.999 7046	3
114	8.566 8838	2053	8.567 1795	2056	1.432 8205	9.999 7043	3
115	8.567 0891	2052	8.567 3851	2054	1.432 6149	9.999 7040	2
116	8.567 2943	2051	8.567 5905	2054	1.432 4095	9.999 7038	3
117	8.567 4994	2050	8.567 7959	2053	1.432 2041	9.999 7035	3
118	8.567 7044	2049	8.568 0012	2052	1.431 9988	9.999 7032	3
119	8.567 9093	2048	8.568 2064	2051	1.431 7936	9.999 7029	3
.120	8.568 1141	2047	8.568 4115	2050	1.431 5885	9.999 7026	2
121	8.568 3188	2047	8.568 6165	2049	1.431 3835	9.999 7024	3
122	8.568 5235	2045	8.568 8214	2048	1.431 1786	9.999 7021	3
123	8.568 7280	2044	8.569 0262	2047	1.430 9738	9.999 7018	3
124	8.568 9324	2043	8.569 2309	2046	1.430 7691	9.999 7015	3
125	8.569 1367	2043	8.569 4355	2045	1.430 5645	9.999 7012	2
126	8.569 3410	2041	8.569 6400	2044	1.430 3600	9.999 7010	3
127	8.569 5451	2040	8.569 8444	2043	1.430 1556	9.999 7007	3
128	8.569 7491	2040	8.570 0487	2043	1.429 9513	9.999 7004	3
129	8.569 9531	2038	8.570 2530	2041	1.429 7470	9.999 7001	3
.130	8.570 1569	2038	8.570 4571	2040	1.429 5429	9.999 6998	3
131	8.570 3607	2036	8.570 6611	2040	1.429 3389	9.999 6995	2
132	8.570 5643	2036	8.570 8651	2038	1.429 1349	9.999 6993	3
133	8.570 7679	2035	8.571 0689	2038	1.428 9311	9.999 6990	3
134	8.570 9714	2033	8.571 2727	2036	1.428 7273	9.999 6987	3
135	8.571 1747	2033	8.571 4763	2036	1.428 5237	9.999 6984	3
136	8.571 3780	2032	8.571 6799	2034	1.428 3201	9.999 6981	2
137	8.571 5812	2031	8.571 8833	2034	1.428 1167	9.999 6979	3
138	8.571 7843	2030	8.572 0867	2033	1.427 9133	9.999 6976	3
139	8.571 9873	2029	8.572 2900	2032	1.427 7100	9.999 6973	3
.140	8.572 1902	2028	8.572 4932	2030	1.427 5068	9.999 6970	3
141	8.572 3930	2027	8.572 6962	2030	1.427 3038	9.999 6967	3
142	8.572 5957	2026	8.572 8992	2029	1.427 1008	9.999 6964	2
143	8.572 7983	2025	8.573 1021	2028	1.426 8979	9.999 6962	3
144	8.573 0008	2024	8.573 3049	2027	1.426 6951	9.999 6959	3
145	8.573 2032	2023	8.573 5076	2026	1.426 4924	9.999 6956	3
146	8.573 4055	2023	8.573 7102	2026	1.426 2898	9.999 6953	3
147	8.573 6078	2021	8.573 9128	2024	1.426 0872	9.999 6950	3
148	8.573 8099	2021	8.574 1152	2023	1.425 8848	9.999 6947	3
149	8.574 0120	2019	8.574 3175	2022	1.425 6825	9.999 6944	2
.150	8.574 2139		8.574 5197		1.425 4803	9.999 6942	
	cos	d	cotg	d	tang	sin	d

	P.P.		
	2069	2067	2064
1	206.9	206.7	206.4
2	413.8	413.4	412.8
3	620.7	620.1	619.2
4	827.6	826.8	825.6
5	1034.5	1033.5	1032.0
6	1241.4	1240.2	1238.4
7	1448.3	1446.9	1444.8
8	1655.2	1653.6	1651.2
9	1862.1	1860.3	1857.6
	2062	2059	2057
1	206.2	205.9	205.7
2	412.4	411.8	411.4
3	618.6	617.7	617.1
4	824.8	823.6	822.8
5	1031.0	1029.5	1028.5
6	1237.2	1235.4	1234.2
7	1443.4	1441.3	1439.9
8	1649.6	1647.2	1645.6
9	1855.8	1853.1	1851.3
	2054	2052	2049
1	205.4	205.2	204.9
2	410.8	410.4	409.8
3	616.2	615.6	614.7
4	821.6	820.8	819.6
5	1027.0	1026.0	1024.5
6	1232.4	1231.2	1229.4
7	1437.8	1436.4	1434.3
8	1643.2	1641.6	1639.2
9	1848.6	1846.8	1844.1
	2047	2044	2042
1	204.7	204.4	204.2
2	409.4	408.8	408.4
3	614.1	613.2	612.6
4	818.8	817.6	816.8
5	1023.5	1022.0	1021.0
6	1228.2	1226.4	1225.2
7	1432.9	1430.8	1429.4
8	1637.6	1635.2	1633.6
9	1842.3	1839.6	1837.8
	2039	2037	2034
1	203.9	203.7	203.4
2	407.8	407.4	406.8
3	611.7	611.1	610.2
4	815.6	814.8	813.6
5	1019.5	1018.5	1017.0
6	1223.4	1222.2	1220.4
7	1427.3	1425.9	1423.8
8	1631.2	1629.6	1627.2
9	1835.1	1833.3	1830.6
	2032	2029	2027
1	203.2	202.9	202.7
2	406.4	405.8	405.4
3	609.6	608.7	608.1
4	812.8	811.6	810.8
5	1016.0	1014.5	1013.5
6	1219.2	1217.4	1216.2
7	1422.4	1420.3	1418.9
8	1625.6	1623.2	1621.6
9	1828.8	1826.1	1824.3
	2024	2022	2019
1	202.4	202.2	201.9
2	404.8	404.4	403.8
3	607.2	606.6	605.7
4	809.6	808.8	807.6
5	1012.0	1011.0	1009.5
6	1214.4	1213.2	1211.4
7	1416.8	1415.4	1413.3
8	1619.2	1617.6	1615.2
9	1821.6	1819.8	1817.1

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87°.900 — 87°.850

$2^\circ.150 - 2^\circ.200$

2°	sin	d	tang	d	cotg	cos	d	
.150	8.574 2139		8.574 5197		1.425 4803	9.999 6942		**.850**
		2019		2022			3	
151	8.574 4158		8.574 7219		1.425 2781	9.999 6939		849
152	8.574 6175	2017	8.574 9239	2020	1.425 0761	9.999 6936	3	848
153	8.574 8192	2017	8.575 1259	2020	1.424 8741	9.999 6933	3	847
		2016		2018			3	
154	8.575 0208		8.575 3277		1.424 6723	9.999 6930		846
155	8.575 2222	2014	8.575 5295	2018	1.424 4705	9.999 6927	3	845
156	8.575 4236	2014	8.575 7312	2017	1.424 2688	9.999 6925	2	844
		2013		2016			3	
157	8.575 6249		8.575 9328		1.424 0672	9.999 6922		843
158	8.575 8261	2012	8.576 1342	2014	1.423 8658	9.999 6919	3	842
159	8.576 0272	2011	8.576 3356	2014	1.423 6644	9.999 6916	3	841
		2010		2013			3	
.160	8.576 2282		8.576 5369		1.423 4631	9.999 6913		**.840**
		2010		2012			3	
161	8.576 4292		8.576 7381		1.423 2619	9.999 6910		839
162	8.576 6300	2008	8.576 9393	2012	1.423 0607	9.999 6907	3	838
163	8.576 8307	2007	8.577 1403	2010	1.422 8597	9.999 6905	2	837
		2007		2009			3	
164	8.577 0314		8.577 3412		1.422 6588	9.999 6902		836
165	8.577 2319	2005	8.577 5420	2008	1.422 4580	9.999 6899	3	835
166	8.577 4324	2005	8.577 7428	2008	1.422 2572	9.999 6896	3	834
		2003		2006			3	
167	8.577 6327		8.577 9434		1.422 0566	9.999 6893		833
168	8.577 8330	2003	8.578 1440	2006	1.421 8560	9.999 6890	3	832
169	8.578 0332	2002	8.578 3445	2005	1.421 6555	9.999 6887	3	831
		2001		2003			3	
.170	8.578 2333		8.578 5448		1.421 4552	9.999 6884		**.830**
		2000		2003			2	
171	8.578 4333		8.578 7451		1.421 2549	9.999 6882		829
172	8.578 6332	1999	8.578 9453	2002	1.421 0547	9.999 6879	3	828
173	8.578 8330	1998	8.579 1454	2001	1.420 8546	9.999 6876	3	827
		1997		2000			3	
174	8.579 0327		8.579 3454		1.420 6546	9.999 6873		826
175	8.579 2323	1996	8.579 5453	1999	1.420 4547	9.999 6870	3	825
176	8.579 4319	1996	8.579 7451	1998	1.420 2549	9.999 6867	3	824
		1994		1998			3	
177	8.579 6313		8.579 9449		1.420 0551	9.999 6864		823
178	8.579 8306	1993	8.580 1445	1996	1.419 8555	9.999 6861	3	822
179	8.580 0299	1993	8.580 3440	1995	1.419 6560	9.999 6859	2	821
		1992		1995			3	
.180	8.580 2291		8.580 5435		1.419 4565	9.999 6856		**.820**
		1990		1994			3	
181	8.580 4281		8.580 7429		1.419 2571	9.999 6853		819
182	8.580 6271	1990	8.580 9421	1992	1.419 0579	9.999 6850	3	818
183	8.580 8260	1989	8.581 1413	1992	1.418 8587	9.999 6847	3	817
		1988		1991			3	
184	8.581 0248		8.581 3404		1.418 6596	9.999 6844		816
185	8.581 2235	1987	8.581 5394	1990	1.418 4606	9.999 6841	3	815
186	8.581 4222	1987	8.581 7383	1989	1.418 2617	9.999 6838	3	814
		1985		1988			3	
187	8.581 6207		8.581 9371		1.418 0629	9.999 6835		813
188	8.581 8191	1984	8.582 1359	1988	1.417 8641	9.999 6833	2	812
189	8.582 0175	1984	8.582 3345	1986	1.417 6655	9.999 6830	3	811
		1982		1986			3	
.190	8.582 2157		8.582 5331		1.417 4669	9.999 6827		**.810**
		1982		1984			3	
191	8.582 4139		8.582 7315		1.417 2685	9.999 6824		809
192	8.582 6120	1981	8.582 9299	1984	1.417 0701	9.999 6821	3	808
193	8.582 8100	1980	8.583 1281	1982	1.416 8719	9.999 6818	3	807
		1979		1982			3	
194	8.583 0079		8.583 3263		1.416 6737	9.999 6815		806
195	8.583 2057	1978	8.583 5244	1981	1.416 4756	9.999 6812	3	805
196	8.583 4034	1977	8.583 7224	1980	1.416 2776	9.999 6809	3	804
		1976		1979			3	
197	8.583 6010		8.583 9203		1.416 0797	9.999 6806		803
198	8.583 7985	1975	8.584 1182	1979	1.415 8818	9.999 6804	2	802
199	8.583 9960	1975	8.584 3159	1977	1.415 6841	9.999 6801	3	801
		1973		1977			3	
.200	8.584 1933		8.584 5136		1.415 4864	9.999 6798		**.800**
	cos	d	cotg	d	tang	sin	d	87°

P.P.

	2022	2020	2017
1	202.2	202.0	201.7
2	404.4	404.0	403.4
3	606.6	606.0	605.1
4	808.8	808.0	806.8
5	1011.0	1010.0	1008.5
6	1213.2	1212.0	1210.2
7	1415.4	1414.0	1411.9
8	1617.6	1616.0	1613.6
9	1819.8	1818.0	1815.3

	2015	2012	2010
1	201.5	201.2	201.0
2	403.0	402.4	402.0
3	604.5	603.6	603.0
4	806.0	804.8	804.0
5	1007.5	1006.0	1005.0
6	1209.0	1207.2	1206.0
7	1410.5	1408.4	1407.0
8	1612.0	1609.6	1608.0
9	1813.5	1810.8	1809.0

	2007	2005	2002
1	200.7	200.5	200.2
2	401.4	401.0	400.4
3	602.1	601.5	600.6
4	802.8	802.0	800.8
5	1003.5	1002.5	1001.0
6	1204.2	1203.0	1201.2
7	1404.9	1403.5	1401.4
8	1605.6	1604.0	1601.6
9	1806.3	1804.5	1801.8

	2000	1997	1995
1	200.0	199.7	199.5
2	400.0	399.4	399.0
3	600.0	599.1	598.5
4	800.0	798.8	798.0
5	1000.0	998.5	997.5
6	1200.0	1198.2	1197.0
7	1400.0	1397.9	1396.5
8	1600.0	1597.6	1596.0
9	1800.0	1797.3	1795.5

	1992	1990	1987
1	199.2	199.0	198.7
2	398.4	398.0	397.4
3	597.6	597.0	596.1
4	796.8	796.0	794.8
5	996.0	995.0	993.5
6	1195.2	1194.0	1192.2
7	1394.4	1393.0	1390.9
8	1593.6	1592.0	1589.6
9	1792.8	1791.0	1788.3

	1985	1982	1980
1	198.5	198.2	198.0
2	397.0	396.4	396.0
3	595.5	594.6	594.0
4	794.0	792.8	792.0
5	992.5	991.0	990.0
6	1191.0	1189.2	1188.0
7	1389.5	1387.4	1386.0
8	1588.0	1585.6	1584.0
9	1786.5	1783.8	1782.0

	1977	1975	1973
1	197.7	197.5	197.3
2	395.4	395.0	394.6
3	593.1	592.5	591.9
4	790.8	790.0	789.2
5	988.5	987.5	986.5
6	1186.2	1185.0	1183.8
7	1383.9	1382.5	1381.1
8	1581.6	1580.0	1578.4
9	1779.3	1777.5	1775.7

$87^\circ.850 - 87^\circ.800$

$2^\circ.200 - 2^\circ.250$

2°	sin	d	tang	d	cotg	cos	d	
.200	8.584 1933		8.584 5136		1.415 4864	9.999 6798		**.800**
		1973		1975			3	
201	8.584 3906		8.584 7111		1.415 2889	9.999 6795		799
202	8.584 5878	1972	8.584 9086	1975	1.415 0914	9.999 6792	3	798
203	8.584 7849	1971	8.585 1060	1974	1.414 8940	9.999 6789	3	797
		1969		1972			3	
204	8.584 9818		8.585 3032		1.414 6968	9.999 6786		796
205	8.585 1788	1970	8.585 5004	1972	1.414 4996	9.999 6783	3	795
206	8.585 3756	1968	8.585 6975	1971	1.414 3025	9.999 6780	3	794
		1967		1971			3	
207	8.585 5723		8.585 8946		1.414 1054	9.999 6777		793
208	8.585 7689	1966	8.586 0915	1969	1.413 9085	9.999 6774	3	792
209	8.585 9655	1966	8.586 2883	1968	1.413 7117	9.999 6771	3	791
		1964		1968			2	
.210	8.586 1619		8.586 4851		1.413 5149	9.999 6769		**.790**
		1964		1967			3	
211	8.586 3583		8.586 6818		1.413 3182	9.999 6766		789
212	8.586 5546	1963	8.586 8783	1965	1.413 1217	9.999 6763	3	788
213	8.586 7508	1962	8.587 0748	1965	1.412 9252	9.999 6760	3	787
		1961		1964			3	
214	8.586 9469		8.587 2712		1.412 7288	9.999 6757		786
215	8.587 1429	1960	8.587 4675	1963	1.412 5325	9.999 6754	3	785
216	8.587 3388	1959	8.587 6637	1962	1.412 3363	9.999 6751	3	784
		1959		1962			3	
217	8.587 5347		8.587 8599		1.412 1401	9.999 6748		783
218	8.587 7304	1957	8.588 0559	1960	1.411 9441	9.999 6745	3	782
219	8.587 9261	1957	8.588 2519	1960	1.411 7481	9.999 6742	3	781
		1956		1959			3	
.220	8.588 1217		8.588 4478		1.411 5522	9.999 6739		**.780**
		1955		1957			3	
221	8.588 3172		8.588 6435		1.411 3565	9.999 6736		779
222	8.588 5126	1954	8.588 8392	1957	1.411 1608	9.999 6733	3	778
223	8.588 7079	1953	8.589 0348	1956	1.410 9652	9.999 6730	3	777
		1952		1955			3	
224	8.588 9031		8.589 2303		1.410 7697	9.999 6727		776
225	8.589 0982	1951	8.589 4258	1955	1.410 5742	9.999 6724	3	775
226	8.589 2933	1951	8.589 6211	1953	1.410 3789	9.999 6722	2	774
		1949		1953			3	
227	8.589 4882		8.589 8164		1.410 1836	9.999 6719		773
228	8.589 6831	1949	8.590 0115	1951	1.409 9885	9.999 6716	3	772
229	8.589 8779	1948	8.590 2066	1951	1.409 7934	9.999 6713	3	771
		1947		1950			3	
.230	8.590 0726		8.590 4016		1.409 5984	9.999 6710		**.770**
		1946		1949			3	
231	8.590 2672		8.590 5965		1.409 4035	9.999 6707		769
232	8.590 4617	1945	8.590 7913	1948	1.409 2087	9.999 6704	3	768
233	8.590 6561	1944	8.590 9861	1948	1.409 0139	9.999 6701	3	767
		1944		1946			3	
234	8.590 8505		8.591 1807		1.408 8193	9.999 6698		766
235	8.591 0448	1943	8.591 3753	1946	1.408 6247	9.999 6695	3	765
236	8.591 2389	1941	8.591 5697	1944	1.408 4303	9.999 6692	3	764
		1941		1944			3	
237	8.591 4330		8.591 7641		1.408 2359	9.999 6689		763
238	8.591 6270	1940	8.591 9584	1943	1.408 0416	9.999 6686	3	762
239	8.591 8209	1939	8.592 1526	1942	1.407 8474	9.999 6683	3	761
		1938		1941			3	
.240	8.592 0147		8.592 3467		1.407 6533	9.999 6680		**.760**
		1938		1941			3	
241	8.592 2085		8.592 5408		1.407 4592	9.999 6677		759
242	8.592 4021	1936	8.592 7347	1939	1.407 2653	9.999 6674	3	758
243	8.592 5957	1936	8.592 9286	1939	1.407 0714	9.999 6671	3	757
		1935		1938			3	
244	8.592 7892		8.593 1224		1.406 8776	9.999 6668		756
245	8.592 9826	1934	8.593 3160	1936	1.406 6840	9.999 6665	3	755
246	8.593 1759	1933	8.593 5097	1937	1.406 4903	9.999 6662	3	754
		1932		1935			3	
247	8.593 3691		8.593 7032		1.406 2968	9.999 6659		753
248	8.593 5622	1931	8.593 8966	1934	1.406 1034	9.999 6656	3	752
249	8.593 7553	1931	8.594 0900	1934	1.405 9100	9.999 6653	3	751
		1930		1932			3	
.250	8.593 9483		8.594 2832		1.405 7168	9.999 6650		**.750**
	cos	d	cotg	d	tang	sin	d	87°

	1975	1973	1971
1	197.5	197.3	197.1
2	395.0	394.6	394.2
3	592.5	591.9	591.3
4	790.0	789.2	788.4
5	987.5	986.5	985.5
6	1185.0	1183.8	1182.6
7	1382.5	1381.1	1379.7
8	1580.0	1578.4	1576.8
9	1777.5	1775.7	1773.9

	1969	1966	1964
1	196.9	196.6	196.4
2	393.8	393.2	392.8
3	590.7	589.8	589.2
4	787.6	786.4	785.6
5	984.5	983.0	982.0
6	1181.4	1179.6	1178.4
7	1378.3	1376.2	1374.8
8	1575.2	1572.8	1571.2
9	1772.1	1769.4	1767.6

	1962	1960	1957
1	196.2	196.0	195.7
2	392.4	392.0	391.4
3	588.6	588.0	587.1
4	784.8	784.0	782.8
5	981.0	980.0	978.5
6	1177.2	1176.0	1174.2
7	1373.4	1372.0	1369.9
8	1569.6	1568.0	1565.6
9	1765.8	1764.0	1761.3

	1955	1953	1951
1	195.5	195.3	195.1
2	391.0	390.6	390.2
3	586.5	585.9	585.3
4	782.0	781.2	780.4
5	977.5	976.5	975.5
6	1173.0	1171.8	1170.6
7	1368.5	1367.1	1365.7
8	1564.0	1562.4	1560.8
9	1759.5	1757.7	1755.9

	1949	1946	1944
1	194.9	194.6	194.4
2	389.8	389.2	388.8
3	584.7	583.8	583.2
4	779.6	778.4	777.6
5	974.5	973.0	972.0
6	1169.4	1167.6	1166.4
7	1364.3	1362.2	1360.8
8	1559.2	1556.8	1555.2
9	1754.1	1751.4	1749.6

	1942	1939	1937
1	194.2	193.9	193.7
2	388.4	387.8	387.4
3	582.6	581.7	581.1
4	776.8	775.6	774.8
5	971.0	969.5	968.5
6	1165.2	1163.4	1162.2
7	1359.4	1357.3	1355.9
8	1553.6	1551.2	1549.6
9	1747.8	1745.1	1743.3

	1935	1932	1930
1	193.5	193.2	193.0
2	387.0	386.4	386.0
3	580.5	579.6	579.0
4	774.0	772.8	772.0
5	967.5	966.0	965.0
6	1161.0	1159.2	1158.0
7	1354.5	1352.4	1351.0
8	1548.0	1545.6	1544.0
9	1741.5	1738.8	1737.0

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P.P.

$87^\circ.800 - 87^\circ.750$

$2^\circ.250 - 2^\circ.300$

2°	sin	d	tang	d	cotg	cos	d		P.P.
.250	8.593 9483		8.594 2832		1.405 7168	9.999 6650		**.750**	
		1928		1932			3		1932 1930 1928
251	8.594 1411		8.594 4764		1.405 5236	9.999 6647		749	
252	8.594 3339	1928	8.594 6695	1931	1.405 3305	9.999 6644	3	748	1 193.2 193.0 192.8
253	8.594 5266	1927	8.594 8625	1930	1.405 1375	9.999 6642	3	747	2 386.4 386.0 385.6
		1927		1929			2		3 579.6 579.0 578.4
254	8.594 7193		8.595 0554		1.404 9446	9.999 6639	3	746	4 772.8 772.0 771.2
255	8.594 9118	1925	8.595 2482	1928	1.404 7518	9.999 6636	3	745	5 966.0 965.0 964.0
256	8.595 1042	1924	8.595 4410	1928	1.404 5590	9.999 6633	3	744	6 1159.2 1158.0 1156.8
		1924		1926			3		7 1352.4 1351.0 1349.6
257	8.595 2966		8.595 6336		1.404 3664	9.999 6630	3	743	8 1545.6 1544.0 1542.4
258	8.595 4889	1923	8.595 8262	1926	1.404 1738	9.999 6627	3	742	9 1738.8 1737.0 1735.2
259	8.595 6811	1922	8.596 0187	1925	1.403 9813	9.999 6624	3	741	
		1921		1924			3		1926 1923 1921
.260	8.595 8732		8.596 2111		1.403 7889	9.999 6621		**.740**	
		1920		1923			3		1 192.6 192.3 192.1
261	8.596 0652		8.596 4034		1.403 5966	9.999 6618		739	2 385.2 384.6 384.2
262	8.596 2571	1919	8.596 5957	1923	1.403 4043	9.999 6615	3	738	3 577.8 576.9 576.3
263	8.596 4490	1919	8.596 7878	1921	1.403 2122	9.999 6612	3	737	4 770.4 769.2 768.4
		1918		1921			3		5 963.0 961.5 960.5
264	8.596 6408		8.596 9799		1.403 0201	9.999 6609		736	6 1155.6 1153.8 1152.6
265	8.596 8325	1917	8.597 1719	1920	1.402 8281	9.999 6606	3	735	7 1348.2 1346.1 1344.7
266	8.597 0241	1916	8.597 3638	1919	1.402 6362	9.999 6603	3	734	8 1540.8 1538.4 1536.8
		1915		1918			3		9 1733.4 1730.7 1728.9
267	8.597 2156		8.597 5556		1.402 4444	9.999 6600		733	
268	8.597 4070	1914	8.597 7473	1917	1.402 2527	9.999 6597	3	732	1919 1917 1914
269	8.597 5983	1913	8.597 9390	1917	1.402 0610	9.999 6594	3	731	
		1913		1915			3		1 191.9 191.7 191.4
.270	8.597 7896		8.598 1305		1.401 8695	9.999 6591		**.730**	2 383.8 383.4 382.8
		1912		1915			3		3 575.7 575.1 574.2
271	8.597 9808		8.598 3220		1.401 6780	9.999 6588		729	4 767.6 766.8 765.6
272	8.598 1719	1911	8.598 5134	1914	1.401 4866	9.999 6585	3	728	5 959.5 958.5 957.0
273	8.598 3629	1910	8.598 7047	1913	1.401 2953	9.999 6582	3	727	6 1151.4 1150.2 1148.4
		1909		1912			3		7 1343.3 1341.9 1339.8
274	8.598 5538		8.598 8959		1.401 1041	9.999 6579		726	8 1535.2 1533.6 1531.2
275	8.598 7446	1908	8.599 0871	1912	1.400 9129	9.999 6576	3	725	9 1727.1 1725.3 1722.6
276	8.598 9354	1908	8.599 2781	1910	1.400 7219	9.999 6573	3	724	
		1907		1910			3		1912 1910 1908
277	8.599 1261		8.599 4691		1.400 5309	9.999 6570		723	1 191.2 191.0 190.8
278	8.599 3167	1906	8.599 6600	1909	1.400 3400	9.999 6567	3	722	2 382.4 382.0 381.6
279	8.599 5072	1905	8.599 8508	1908	1.400 1492	9.999 6564	3	721	3 573.6 573.0 572.4
		1904		1907			3		4 764.8 764.0 763.2
.280	8.599 6976		8.600 0415		1.399 9585	9.999 6561		**.720**	5 956.0 955.0 954.0
		1903		1907			4		6 1147.2 1146.0 1144.8
281	8.599 8879		8.600 2322		1.399 7678	9.999 6557		719	7 1338.4 1337.0 1335.6
282	8.600 0782	1903	8.600 4227	1905	1.399 5773	9.999 6554	3	718	8 1529.6 1528.0 1526.4
283	8.600 2684	1902	8.600 6132	1905	1.399 3868	9.999 6551	3	717	9 1720.8 1719.0 1717.2
		1900		1904			3		
284	8.600 4584		8.600 8036		1.399 1964	9.999 6548		716	1906 1903 1901
285	8.600 6484	1900	8.600 9939	1903	1.399 0061	9.999 6545	3	715	1 190.6 190.3 190.1
286	8.600 8384	1900	8.601 1841	1902	1.398 8159	9.999 6542	3	714	2 381.2 380.6 380.2
		1898		1902			3		3 571.8 570.9 570.3
287	8.601 0282		8.601 3743		1.398 6257	9.999 6539		713	4 762.4 761.2 760.4
288	8.601 2180	1898	8.601 5643	1900	1.398 4357	9.999 6536	3	712	5 953.0 951.5 950.5
289	8.601 4076	1896	8.601 7543	1900	1.398 2457	9.999 6533	3	711	6 1143.6 1141.8 1140.6
		1896		1899			3		7 1334.2 1332.1 1330.7
.290	8.601 5972		8.601 9442		1.398 0558	9.999 6530		**.710**	8 1524.8 1522.4 1520.8
		1895		1898			3		9 1715.4 1712.7 1710.9
291	8.601 7867		8.602 1340		1.397 8660	9.999 6527		709	
292	8.601 9761	1894	8.602 3237	1897	1.397 6763	9.999 6524	3	708	1899 1897 1894
293	8.602 1655	1894	8.602 5134	1897	1.397 4866	9.999 6521	3	707	
		1892		1895			3		1 189.9 189.7 189.4
294	8.602 3547		8.602 7029		1.397 2971	9.999 6518		706	2 379.8 379.4 378.8
295	8.602 5439	1892	8.602 8924	1895	1.397 1076	9.999 6515	3	705	3 569.7 569.1 568.2
296	8.602 7330	1891	8.603 0818	1894	1.396 9182	9.999 6512	3	704	4 759.6 758.8 757.6
		1890		1893			3		5 949.5 948.5 947.0
297	8.602 9220		8.603 2711		1.396 7289	9.999 6509		703	6 1139.4 1138.2 1136.4
298	8.603 1109	1889	8.603 4604	1893	1.396 5396	9.999 6506	3	702	7 1329.3 1327.9 1325.8
299	8.603 2998	1889	8.603 6495	1891	1.396 3505	9.999 6503	3	701	8 1519.2 1517.6 1515.2
		1888		1891			3		9 1709.1 1707.3 1704.6
.300	8.603 4886		8.603 8386		1.396 1614	9.999 6500		**.700**	
	cos	d	cotg	d	tang	sin	d	**87°**	P.P.

$87^\circ.750 - 87^\circ.700$

$2^\circ.300 - 2^\circ.350$

2°	sin	d	tang	d	cotg	cos	d	
.300	8.603 4886		8.603 8386		1.396 1614	9.999 6500		.700
		1886		1890			3	
301	8.603 6772		8.604 0276		1.395 9724	9.999 6497		699
302	8.603 8658	1886	8.604 2165	1889	1.395 7835	9.999 6494	3	698
303	8.604 0544	1886	8.604 4053	1888	1.395 5947	9.999 6491	3	697
		1884		1887			3	
304	8.604 2428		8.604 5940		1.395 4060	9.999 6488		696
305	8.604 4311	1883	8.604 7827	1887	1.395 2173	9.999 6485	3	695
306	8.604 6194	1883	8.604 9713	1886	1.395 0287	9.999 6482	3	694
		1882		1885			3	
307	8.604 8076		8.605 1598		1.394 8402	9.999 6479		693
308	8.604 9957	1881	8.605 3482	1884	1.394 6518	9.999 6475	4	692
309	8.605 1837	1880	8.605 5365	1883	1.394 4635	9.999 6472	3	691
		1880		1882			3	
.310	8.605 3717		8.605 7247		1.394 2753	9.999 6469		.690
		1878		1882			3	
311	8.605 5595		8.605 9129		1.394 0871	9.999 6466		689
312	8.605 7473	1878	8.606 1010	1881	1.393 8990	9.999 6463	3	688
313	8.605 9350	1877	8.606 2890	1880	1.393 7110	9.999 6460	3	687
		1877		1879			3	
314	8.606 1227		8.606 4769		1.393 5231	9.999 6457		686
315	8.606 3102	1875	8.606 6648	1879	1.393 3352	9.999 6454	3	685
316	8.606 4976	1874	8.606 8525	1877	1.393 1475	9.999 6451	3	684
		1874		1877			3	
317	8.606 6850		8.607 0402		1.392 9598	9.999 6448		683
318	8.606 8723	1873	8.607 2278	1876	1.392 7722	9.999 6445	3	682
319	8.607 0595	1872	8.607 4154	1876	1.392 5846	9.999 6442	3	681
		1872		1874			3	
.320	8.607 2467		8.607 6028		1.392 3972	9.999 6439		.680
		1870		1874			3	
321	8.607 4337		8.607 7902		1.392 2098	9.999 6436		679
322	8.607 6207	1870	8.607 9774	1872	1.392 0226	9.999 6433	3	678
323	8.607 8076	1869	8.608 1646	1872	1.391 8354	9.999 6430	3	677
		1868		1872			4	
324	8.607 9944		8.608 3518		1.391 6482	9.999 6426		676
325	8.608 1811	1867	8.608 5388	1870	1.391 4612	9.999 6423	3	675
326	8.608 3678	1867	8.608 7258	1870	1.391 2742	9.999 6420	3	674
		1866		1868			3	
327	8.608 5544		8.608 9126		1.391 0874	9.999 6417		673
328	8.608 7408	1864	8.609 0994	1868	1.390 9006	9.999 6414	3	672
329	8.608 9273	1865	8.609 2861	1867	1.390 7139	9.999 6411	3	671
		1863		1867			3	
.330	8.609 1136		8.609 4728		1.390 5272	9.999 6408		.670
		1862		1865			3	
331	8.609 2998		8.609 6593		1.390 3407	9.999 6405		669
332	8.609 4860	1862	8.609 8458	1865	1.390 1542	9.999 6402	3	668
333	8.609 6721	1861	8.610 0322	1864	1.389 9678	9.999 6399	3	667
		1860		1863			3	
334	8.609 8581		8.610 2185		1.389 7815	9.999 6396		666
335	8.610 0440	1859	8.610 4048	1863	1.389 5952	9.999 6393	3	665
336	8.610 2299	1859	8.610 5909	1861	1.389 4091	9.999 6389	4	664
		1858		1861			3	
337	8.610 4157		8.610 7770		1.389 2230	9.999 6386		663
338	8.610 6013	1856	8.610 9630	1860	1.389 0370	9.999 6383	3	662
339	8.610 7870	1857	8.611 1489	1859	1.388 8511	9.999 6380	3	661
		1855		1859			3	
.340	8.610 9725		8.611 3348		1.388 6652	9.999 6377		.660
		1854		1857			3	
341	8.611 1579		8.611 5205		1.388 4795	9.999 6374		659
342	8.611 3433	1854	8.611 7062	1857	1.388 2938	9.999 6371	3	658
343	8.611 5286	1853	8.611 8918	1856	1.388 1082	9.999 6368	3	657
		1852		1856			3	
344	8.611 7138		8.612 0774		1.387 9226	9.999 6365		656
345	8.611 8990	1852	8.612 2628	1854	1.387 7372	9.999 6362	3	655
346	8.612 0840	1850	8.612 4482	1854	1.387 5518	9.999 6358	4	654
		1850		1853			3	
347	8.612 2690		8.612 6335		1.387 3665	9.999 6355		653
348	8.612 4539	1849	8.612 8187	1852	1.387 1813	9.999 6352	3	652
349	8.612 6387	1848	8.613 0038	1851	1.386 9962	9.999 6349	3	651
		1848		1851			3	
.350	8.612 8235		8.613 1889		1.386 8111	9.999 6346		.650
	cos	d	cotg	d	tang	sin	d	87°

P.P.

	1890	1888	1886
1	189.0	188.8	188.6
2	378.0	377.6	377.2
3	567.0	566.4	565.8
4	756.0	755.2	754.4
5	945.0	944.0	943.0
6	1134.0	1132.8	1131.6
7	1323.0	1321.6	1320.2
8	1512.0	1510.4	1508.8
9	1701.0	1699.2	1697.4

	1884	1882	1880
1	188.4	188.2	188.0
2	376.8	376.4	376.0
3	565.2	564.6	564.0
4	753.6	752.8	752.0
5	942.0	941.0	940.0
6	1130.4	1129.2	1128.0
7	1318.8	1317.4	1316.0
8	1507.2	1505.6	1504.0
9	1695.6	1693.8	1692.0

	1878	1875	1873
1	187.8	187.5	187.3
2	375.6	375.0	374.6
3	563.4	562.5	561.9
4	751.2	750.0	749.2
5	939.0	937.5	936.5
6	1126.8	1125.0	1123.8
7	1314.6	1312.5	1311.1
8	1502.4	1500.0	1498.4
9	1690.2	1687.5	1685.7

	1871	1869	1867
1	187.1	186.9	186.7
2	374.2	373.8	373.4
3	561.3	560.7	560.1
4	748.4	747.6	746.8
5	935.5	934.5	933.5
6	1122.6	1121.4	1120.2
7	1309.7	1308.3	1306.9
8	1496.8	1495.2	1493.6
9	1683.9	1682.1	1680.3

	1865	1863	1860
1	186.5	186.3	186.0
2	373.0	372.6	372.0
3	559.5	558.9	558.0
4	746.0	745.2	744.0
5	932.5	931.5	930.0
6	1119.0	1117.8	1116.0
7	1305.5	1304.1	1302.0
8	1492.0	1490.4	1488.0
9	1678.5	1676.7	1674.0

	1858	1856	1854
1	185.8	185.6	185.4
2	371.6	371.2	370.8
3	557.4	556.8	556.2
4	743.2	742.4	741.6
5	929.0	928.0	927.0
6	1114.8	1113.6	1112.4
7	1300.6	1299.2	1297.8
8	1486.4	1484.8	1483.2
9	1672.2	1670.4	1668.6

	1852	1850	1848
1	185.2	185.0	184.8
2	370.4	370.0	369.6
3	555.6	555.0	554.4
4	740.8	740.0	739.2
5	926.0	925.0	924.0
6	1111.2	1110.0	1108.8
7	1296.4	1295.0	1293.6
8	1481.6	1480.0	1478.4
9	1666.8	1665.0	1663.2

$87^\circ.700 - 87^\circ.650$

$2^\circ.350 - 2^\circ.400$

2°	sin	d	tang	d	cotg	cos	d	
.350	8.612 8235		8.613 1889		1.386 8111	9.999 6346		.650
		1846		1849			3	
351	8.613 0081		8.613 3738		1.386 6262	9.999 6343		649
352	8.613 1927	1846	8.613 5587	1849	1.386 4413	9.999 6340	3	648
353	8.613 3772	1845	8.613 7435	1848	1.386 2565	9.999 6337	3	647
		1844		1848			3	
354	8.613 5616		8.613 9283		1.386 0717	9.999 6334		646
355	8.613 7460	1844	8.614 1129	1846	1.385 8871	9.999 6330	4	645
356	8.613 9303	1843	8.614 2975	1846	1.385 7025	9.999 6327	3	644
		1842		1845			3	
357	8.614 1145		8.614 4820		1.385 5180	9.999 6324		643
358	8.614 2986	1841	8.614 6665	1845	1.385 3335	9.999 6321	3	642
359	8.614 4826	1840	8.614 8508	1843	1.385 1492	9.999 6318	3	641
		1840		1843			3	
.360	8.614 6666		8.615 0351		1.384 9649	9.999 6315		.640
		1838		1842			3	
361	8.614 8504		8.615 2193		1.384 7807	9.999 6312		639
362	8.615 0342	1838	8.615 4034	1841	1.384 5966	9.999 6309	3	638
363	8.615 2180	1838	8.615 5874	1840	1.384 4126	9.999 6305	4	637
		1836		1840			3	
364	8.615 4016		8.615 7714		1.384 2286	9.999 6302		636
365	8.615 5852	1836	8.615 9553	1839	1.384 0447	9.999 6299	3	635
366	8.615 7687	1835	8.616 1391	1838	1.383 8609	9.999 6296	3	634
		1834		1837			3	
367	8.615 9521		8.616 3228		1.383 6772	9.999 6293		633
368	8.616 1354	1833	8.616 5064	1836	1.383 4936	9.999 6290	3	632
369	8.616 3187	1833	8.616 6900	1836	1.383 3100	9.999 6287	3	631
		1832		1835			3	
.370	8.616 5019		8.616 8735		1.383 1265	9.999 6284		.630
		1831		1834			4	
371	8.616 6850		8.617 0569		1.382 9431	9.999 6280		629
372	8.616 8680	1830	8.617 2403	1834	1.382 7597	9.999 6277	3	628
373	8.617 0509	1829	8.617 4235	1832	1.382 5765	9.999 6274	3	627
		1829		1832			3	
374	8.617 2338		8.617 6067		1.382 3933	9.999 6271		626
375	8.617 4166	1828	8.617 7898	1831	1.382 2102	9.999 6268	3	625
376	8.617 5993	1827	8.617 9729	1831	1.382 0271	9.999 6265	3	624
		1827		1829			3	
377	8.617 7820		8.618 1558		1.381 8442	9.999 6262		623
378	8.617 9645	1825	8.618 3387	1829	1.381 6613	9.999 6258	4	622
379	8.618 1470	1825	8.618 5215	1828	1.381 4785	9.999 6255	3	621
		1824		1827			3	
.380	8.618 3294		8.618 7042		1.381 2958	9.999 6252		.620
		1824		1827			3	
381	8.618 5118		8.618 8869		1.381 1131	9.999 6249		619
382	8.618 6940	1822	8.619 0694	1825	1.380 9306	9.999 6246	3	618
383	8.618 8762	1822	8.619 2519	1825	1.380 7481	9.999 6243	3	617
		1821		1824			4	
384	8.619 0583		8.619 4343		1.380 5657	9.999 6239		616
385	8.619 2403	1820	8.619 6167	1824	1.380 3833	9.999 6236	3	615
386	8.619 4223	1820	8.619 7990	1823	1.380 2010	9.999 6233	3	614
		1818		1821			3	
387	8.619 6041		8.619 9811		1.380 0189	9.999 6230		613
388	8.619 7859	1818	8.620 1633	1822	1.379 8367	9.999 6227	3	612
389	8.619 9677	1818	8.620 3453	1820	1.379 6547	9.999 6224	3	611
		1816		1820			3	
.390	8.620 1493		8.620 5273		1.379 4727	9.999 6221		.610
		1816		1818			4	
391	8.620 3309		8.620 7091		1.379 2909	9.999 6217		609
392	8.620 5124	1815	8.620 8910	1819	1.379 1090	9.999 6214	3	608
393	8.620 6938	1814	8.621 0727	1817	1.378 9273	9.999 6211	3	607
		1813		1817			3	
394	8.620 8751		8.621 2544		1.378 7456	9.999 6208		606
395	8.621 0564	1813	8.621 4359	1815	1.378 5641	9.999 6205	3	605
396	8.621 2376	1812	8.621 6174	1815	1.378 3826	9.999 6202	3	604
		1811		1815			4	
397	8.621 4187		8.621 7989		1.378 2011	9.999 6198		603
398	8.621 5997	1810	8.621 9802	1813	1.378 0198	9.999 6195	3	602
399	8.621 7807	1810	8.622 1615	1813	1.377 8385	9.999 6192	3	601
		1809		1812			3	
.400	8.621 9616		8.622 3427		1.377 6573	9.999 6189		.600
	cos	d	cotg	d	tang	sin	d	87°

$87^\circ.650 - 87^\circ.600$

P.P.

	1849	1847	1845
1	184.9	184.7	184.5
2	369.8	369.4	369.0
3	554.7	554.1	553.5
4	739.6	738.8	738.0
5	924.5	923.5	922.5
6	1109.4	1108.2	1107.0
7	1294.3	1292.9	1291.5
8	1479.2	1477.6	1476.0
9	1664.1	1662.3	1660.5

	1843	1841	1839
1	184.3	184.1	183.9
2	368.6	368.2	367.8
3	552.9	552.3	551.7
4	737.2	736.4	735.6
5	921.5	920.5	919.5
6	1105.8	1104.6	1103.4
7	1290.1	1288.7	1287.3
8	1474.4	1472.8	1471.2
9	1658.7	1656.9	1655.1

	1837	1835	1833
1	183.7	183.5	183.3
2	367.4	367.0	366.6
3	551.1	550.5	549.9
4	734.8	734.0	733.2
5	918.5	917.5	916.5
6	1102.2	1101.0	1099.8
7	1285.9	1284.5	1283.1
8	1469.6	1468.0	1466.4
9	1653.3	1651.5	1649.7

	1831	1829	1827
1	183.1	182.9	182.7
2	366.2	365.8	365.4
3	549.3	548.7	548.1
4	732.4	731.6	730.8
5	915.5	914.5	913.5
6	1098.6	1097.4	1096.2
7	1281.7	1280.3	1278.9
8	1464.8	1463.2	1461.6
9	1647.9	1646.1	1644.3

	1825	1823	1821
1	182.5	182.3	182.1
2	365.0	364.6	364.2
3	547.5	546.9	546.3
4	730.0	729.2	728.4
5	912.5	911.5	910.5
6	1095.0	1093.8	1092.6
7	1277.5	1276.1	1274.7
8	1460.0	1458.4	1456.8
9	1642.5	1640.7	1638.9

	1819	1817	1815
1	181.9	181.7	181.5
2	363.8	363.4	363.0
3	545.7	545.1	544.5
4	727.6	726.8	726.0
5	909.5	908.5	907.5
6	1091.4	1090.2	1089.0
7	1273.3	1271.9	1270.5
8	1455.2	1453.6	1452.0
9	1637.1	1635.3	1633.5

	1813	1811	1809
1	181.3	181.1	180.9
2	362.6	362.2	361.8
3	543.9	543.3	542.7
4	725.2	724.4	723.6
5	906.5	905.5	904.5
6	1087.8	1086.6	1085.4
7	1269.1	1267.7	1266.3
8	1450.4	1448.8	1447.2
9	1631.7	1629.9	1628.1

$2^\circ.400 - 2^\circ.450$

2°	sin	d	tang	d	cotg	cos	d	
.400	8.621 9616		8.622 3427		1.377 6573	9.999 6189		**.600**
		1808		1811			3	
401	8.622 1424		8.622 5238		1.377 4762	9.999 6186		599
402	8.622 3231	1807	8.622 7049	1811	1.377 2951	9.999 6182	4	598
403	8.622 5038	1807	8.622 8859	1810	1.377 1141	9.999 6179	3	597
		1806		1809			3	
404	8.622 6844		8.623 0668		1.376 9332	9.999 6176		596
405	8.622 8649	1805	8.623 2476	1808	1.376 7524	9.999 6173	3	595
406	8.623 0453	1804	8.623 4284	1808	1.376 5716	9.999 6170	3	594
		1804		1807			3	
407	8.623 2257		8.623 6091		1.376 3909	9.999 6167		593
408	8.623 4060	1803	8.623 7897	1806	1.376 2103	9.999 6163	4	592
409	8.623 5862	1802	8.623 9702	1805	1.376 0298	9.999 6160	3	591
		1801		1804			3	
.410	8.623 7663		8.624 1506		1.375 8494	9.999 6157		**.590**
		1801		1804			3	
411	8.623 9464		8.624 3310		1.375 6690	9.999 6154		589
412	8.624 1264	1800	8.624 5113	1803	1.375 4887	9.999 6151	3	588
413	8.624 3063	1799	8.624 6916	1803	1.375 3084	9.999 6147	4	587
		1798		1801			3	
414	8.624 4861		8.624 8717		1.375 1283	9.999 6144		586
415	8.624 6659	1798	8.625 0518	1801	1.374 9482	9.999 6141	3	585
416	8.624 8456	1797	8.625 2318	1800	1.374 7682	9.999 6138	3	584
		1796		1799			3	
417	8.625 0252		8.625 4117		1.374 5883	9.999 6135		583
418	8.625 2047	1795	8.625 5916	1799	1.374 4084	9.999 6131	4	582
419	8.625 3842	1795	8.625 7714	1798	1.374 2286	9.999 6128	3	581
		1794		1797			3	
.420	8.625 5636		8.625 9511		1.374 0489	9.999 6125		**.580**
		1793		1796			3	
421	8.625 7429		8.626 1307		1.373 8693	9.999 6122		579
422	8.625 9222	1793	8.626 3103	1796	1.373 6897	9.999 6119	3	578
423	8.626 1013	1791	8.626 4898	1795	1.373 5102	9.999 6115	4	577
		1791		1794			3	
424	8.626 2804		8.626 6692		1.373 3308	9.999 6112		576
425	8.626 4594	1790	8.626 8485	1793	1.373 1515	9.999 6109	3	575
426	8.626 6384	1790	8.627 0278	1793	1.372 9722	9.999 6106	3	574
		1789		1792			3	
427	8.626 8173		8.627 2070		1.372 7930	9.999 6103		573
428	8.626 9961	1788	8.627 3861	1791	1.372 6139	9.999 6099	4	572
429	8.627 1748	1787	8.627 5652	1791	1.372 4348	9.999 6096	3	571
		1786		1789			3	
.430	8.627 3534		8.627 7441		1.372 2559	9.999 6093		**.570**
		1786		1789			3	
431	8.627 5320		8.627 9230		1.372 0770	9.999 6090		569
432	8.627 7105	1785	8.628 1019	1789	1.371 8981	9.999 6086	4	568
433	8.627 8890	1785	8.628 2806	1787	1.371 7194	9.999 6083	3	567
		1783		1787			3	
434	8.628 0673		8.628 4593		1.371 5407	9.999 6080		566
435	8.628 2456	1783	8.628 6379	1786	1.371 3621	9.999 6077	3	565
436	8.628 4238	1782	8.628 8164	1785	1.371 1836	9.999 6074	3	564
		1781		1785			4	
437	8.628 6019		8.628 9949		1.371 0051	9.999 6070		563
438	8.628 7800	1781	8.629 1733	1784	1.370 8267	9.999 6067	3	562
439	8.628 9580	1780	8.629 3516	1783	1.370 6484	9.999 6064	3	561
		1779		1782			3	
.440	8.629 1359		8.629 5298		1.370 4702	9.999 6061		**.560**
		1779		1782			4	
441	8.629 3138		8.629 7080		1.370 2920	9.999 6057		559
442	8.629 4915	1777	8.629 8861	1781	1.370 1139	9.999 6054	3	558
443	8.629 6692	1777	8.630 0641	1780	1.369 9359	9.999 6051	3	557
		1777		1780			3	
444	8.629 8469		8.630 2421		1.369 7579	9.999 6048		556
445	8.630 0244	1775	8.630 4200	1779	1.369 5800	9.999 6045	3	555
446	8.630 2019	1775	8.630 5978	1778	1.369 4022	9.999 6041	4	554
		1774		1777			3	
447	8.630 3793		8.630 7755		1.369 2245	9.999 6038		553
448	8.630 5566	1773	8.630 9532	1777	1.369 0468	9.999 6035	3	552
449	8.630 7339	1773	8.631 1307	1775	1.368 8693	9.999 6032	3	551
		1772		1776			4	
.450	8.630 9111		8.631 3083		1.368 6917	9.999 6028		**.550**
	cos	d	cotg	d	tang	sin	d	87°

P.P.			
	1811	1809	1807
1	181.1	180.9	180.7
2	362.2	361.8	361.4
3	543.3	542.7	542.1
4	724.4	723.6	722.8
5	905.5	904.5	903.5
6	1086.6	1085.4	1084.2
7	1267.7	1266.3	1264.9
8	1448.8	1447.2	1445.6
9	1629.9	1628.1	1626.3
	1805	1803	1801
1	180.5	180.3	180.1
2	361.0	360.6	360.2
3	541.5	540.9	540.3
4	722.0	721.2	720.4
5	902.5	901.5	900.5
6	1083.0	1081.8	1080.6
7	1263.5	1262.1	1260.7
8	1444.0	1442.4	1440.8
9	1624.5	1622.7	1620.9
	1799	1797	1795
1	179.9	179.7	179.5
2	359.8	359.4	359.0
3	539.7	539.1	538.5
4	719.6	718.8	718.0
5	899.5	898.5	897.5
6	1079.4	1078.2	1077.0
7	1259.3	1257.9	1256.5
8	1439.2	1437.6	1436.0
9	1619.1	1617.3	1615.5
	1794	1792	1790
1	179.4	179.2	179.0
2	358.8	358.4	358.0
3	538.2	537.6	537.0
4	717.6	716.8	716.0
5	897.0	896.0	895.0
6	1076.4	1075.2	1074.0
7	1255.8	1254.4	1253.0
8	1435.2	1433.6	1432.0
9	1614.6	1612.8	1611.0
	1788	1786	1784
1	178.8	178.6	178.4
2	357.6	357.2	356.8
3	536.4	535.8	535.2
4	715.2	714.4	713.6
5	894.0	893.0	892.0
6	1072.8	1071.6	1070.4
7	1251.6	1250.2	1248.8
8	1430.4	1428.8	1427.2
9	1609.2	1607.4	1605.6
	1782	1780	1778
1	178.2	178.0	177.8
2	356.4	356.0	355.6
3	534.6	534.0	533.4
4	712.8	712.0	711.2
5	891.0	890.0	889.0
6	1069.2	1068.0	1066.8
7	1247.4	1246.0	1244.6
8	1425.6	1424.0	1422.4
9	1603.8	1602.0	1600.2
	1776	1774	1772
1	177.6	177.4	177.2
2	355.2	354.8	354.4
3	532.8	532.2	531.6
4	710.4	709.6	708.8
5	888.0	887.0	886.0
6	1065.6	1064.4	1063.2
7	1243.2	1241.8	1240.4
8	1420.8	1419.2	1417.6
9	1598.4	1596.6	1594.8

$87^\circ.600 - 87^\circ.550$

$2^\circ.450 - 2^\circ.500$

2°	sin	d	tang	d	cotg	cos	d		P.P.		
.450	8.630 9111		8.631 3083		1.368 6917	9.999 6028		**.550**			
		1771		1774			3		1774	1772	1770
451	8.631 0882		8.631 4857		1.368 5143	9.999 6025		549			
		1771		1774			3				
452	8.631 2653		8.631 6631		1.368 3369	9.999 6022		548			
		1769		1773			3				
453	8.631 4422		8.631 8404		1.368 1596	9.999 6019		547			
		1769		1772			4				
454	8.631 6191		8.632 0176		1.367 9824	9.999 6015		546			
		1769		1772			3				
455	8.631 7960		8.632 1948		1.367 8052	9.999 6012		545			
		1767		1770			3				
456	8.631 9727		8.632 3718		1.367 6282	9.999 6009		544			
		1767		1771			3				
457	8.632 1494		8.632 5489		1.367 4511	9.999 6006		543			
		1766		1769			4				
458	8.632 3260		8.632 7258		1.367 2742	9.999 6002		542			
		1766		1769			3				
459	8.632 5026		8.632 9027		1.367 0973	9.999 5999		541			
		1764		1768			3				
.460	8.632 6790		8.633 0795		1.366 9205	9.999 5996		**.540**			
		1764		1767			3				
461	8.632 8554		8.633 2562		1.366 7438	9.999 5993		539			
		1764		1766			4				
462	8.633 0318		8.633 4328		1.366 5672	9.999 5989		538			
		1762		1766			3				
463	8.633 2080		8.633 6094		1.366 3906	9.999 5986		537			
		1762		1765			3				
464	8.633 3842		8.633 7859		1.366 2141	9.999 5983		536			
		1761		1765			3				
465	8.633 5603		8.633 9624		1.366 0376	9.999 5980		535			
		1760		1763			4				
466	8.633 7363		8.634 1387		1.365 8613	9.999 5976		534			
		1760		1763			3				
467	8.633 9123		8.634 3150		1.365 6850	9.999 5973		533			
		1759		1762			3				
468	8.634 0882		8.634 4912		1.365 5088	9.999 5970		532			
		1758		1762			4				
469	8.634 2640		8.634 6674		1.365 3326	9.999 5966		531			
		1758		1761			3				
.470	8.634 4398		8.634 8435		1.365 1565	9.999 5963		**.530**			
		1757		1760			3				
471	8.634 6155		8.635 0195		1.364 9805	9.999 5960		529			
		1756		1759			3				
472	8.634 7911		8.635 1954		1.364 8046	9.999 5957		528			
		1755		1759			4				
473	8.634 9666		8.635 3713		1.364 6287	9.999 5953		527			
		1755		1758			3				
474	8.635 1421		8.635 5471		1.364 4529	9.999 5950		526			
		1754		1757			3				
475	8.635 3175		8.635 7228		1.364 2772	9.999 5947		525			
		1753		1757			3				
476	8.635 4928		8.635 8985		1.364 1015	9.999 5944		524			
		1753		1756			4				
477	8.635 6681		8.636 0741		1.363 9259	9.999 5940		523			
		1752		1755			3				
478	8.635 8433		8.636 2496		1.363 7504	9.999 5937		522			
		1751		1754			3				
479	8.636 0184		8.636 4250		1.363 5750	9.999 5934		521			
		1750		1754			4				
.480	8.636 1934		8.636 6004		1.363 3996	9.999 5930		**.520**			
		1750		1753			3				
481	8.636 3684		8.636 7757		1.363 2243	9.999 5927		519			
		1749		1752			3				
482	8.636 5433		8.636 9509		1.363 0491	9.999 5924		518			
		1748		1752			3				
483	8.636 7181		8.637 1261		1.362 8739	9.999 5921		517			
		1748		1751			4				
484	8.636 8929		8.637 3012		1.362 6988	9.999 5917		516			
		1747		1750			3				
485	8.637 0676		8.637 4762		1.362 5238	9.999 5914		515			
		1746		1749			3				
486	8.637 2422		8.637 6511		1.362 3489	9.999 5911		514			
		1746		1749			4				
487	8.637 4168		8.637 8260		1.362 1740	9.999 5907		513			
		1744		1748			3				
488	8.637 5912		8.638 0008		1.361 9992	9.999 5904		512			
		1745		1748			3				
489	8.637 7657		8.638 1756		1.361 8244	9.999 5901		511			
		1743		1746			3				
.490	8.637 9400		8.638 3502		1.361 6498	9.999 5898		**.510**			
		1743		1746			4				
491	8.638 1143		8.638 5248		1.361 4752	9.999 5894		509			
		1742		1746			3				
492	8.638 2885		8.638 6994		1.361 3006	9.999 5891		508			
		1741		1744			3				
493	8.638 4626		8.638 8738		1.361 1262	9.999 5888		507			
		1741		1744			4				
494	8.638 6367		8.639 0482		1.360 9518	9.999 5884		506			
		1740		1743			3				
495	8.638 8107		8.639 2225		1.360 7775	9.999 5881		505			
		1739		1743			3				
496	8.638 9846		8.639 3968		1.360 6032	9.999 5878		504			
		1738		1742			4				
497	8.639 1584		8.639 5710		1.360 4290	9.999 5874		503			
		1738		1741			3				
498	8.639 3322		8.639 7451		1.360 2549	9.999 5871		502			
		1737		1740			3				
499	8.639 5059		8.639 9191		1.360 0809	9.999 5868		501			
		1737		1740			3				
.500	8.639 6796		8.640 0931		1.359 9069	9.999 5865		**.500**			
									1763	1761	1759
									176.3	176.1	175.9
									352.6	352.2	351.8
									528.9	528.3	527.7
									705.2	704.4	703.6
									881.5	880.5	879.5
									1057.8	1056.6	1055.4
									1234.1	1232.7	1231.3
									1410.4	1408.8	1407.2
									1586.7	1584.9	1583.1
									1758	1756	1754
									175.8	175.6	175.4
									351.6	351.2	350.8
									527.4	526.8	526.2
									703.2	702.4	701.6
									879.0	878.0	877.0
									1054.8	1053.6	1052.4
									1230.6	1229.2	1227.8
									1406.4	1404.8	1403.2
									1582.2	1580.4	1578.6
									1752	1750	1748
									175.2	175.0	174.8
									350.4	350.0	349.6
									525.6	525.0	524.4
									700.8	700.0	699.2
									876.0	875.0	874.0
									1051.2	1050.0	1048.8
									1226.4	1225.0	1223.6
									1401.6	1400.0	1398.4
									1576.8	1575.0	1573.2
									1747	1745	1743
									174.7	174.5	174.3
									349.4	349.0	348.6
									524.1	523.5	522.9
									698.8	698.0	697.2
									873.5	872.5	871.5
									1048.2	1047.0	1045.8
									1222.9	1221.5	1220.1
									1397.6	1396.0	1394.4
									1572.3	1570.5	1568.7
									1741	1739	1737
									174.1	173.9	173.7
									348.2	347.8	347.4
									522.3	521.7	521.1
									696.4	695.6	694.8
									870.5	869.5	868.5
									1044.6	1043.4	1042.2
									1218.7	1217.3	1215.9
									1392.8	1391.2	1389.6
									1566.9	1565.1	1563.3
	cos	d	cotg	d	tang	sin	d	87°	P.P.		

$87^\circ.550 - 87^\circ.500$

$2^\circ.500 - 2^\circ.550$

2°	sin	d	tang	d	cotg	cos	d	
.500	8.639 6796		8.640 0931		1.359 9069	9.999 5865		**.500**
		1735		1739			4	
501	8.639 8531		8.640 2670		1.359 7330	9.999 5861		499
502	8.640 0266	1735	8.640 4408	1738	1.359 5592	9.999 5858	3	498
503	8.640 2001	1735	8.640 6146	1738	1.359 3854	9.999 5855	3	497
		1733		1737			4	
504	8.640 3734		8.640 7883		1.359 2117	9.999 5851		496
505	8.640 5467	1733	8.640 9619	1736	1.359 0381	9.999 5848	3	495
506	8.640 7200	1733	8.641 1355	1736	1.358 8645	9.999 5845	3	494
		1731		1735			4	
507	8.640 8931		8.641 3090		1.358 6910	9.999 5841		493
508	8.641 0662	1731	8.641 4824	1734	1.358 5176	9.999 5838	3	492
509	8.641 2392	1730	8.641 6558	1734	1.358 3442	9.999 5835	3	491
		1730		1732			4	
.510	8.641 4122		8.641 8290		1.358 1710	9.999 5831		**.490**
		1729		1732			3	
511	8.641 5851		8.642 0022		1.357 9978	9.999 5828		489
512	8.641 7579	1728	8.642 1754	1732	1.357 8246	9.999 5825	3	488
513	8.641 9306	1727	8.642 3485	1731	1.357 6515	9.999 5821	4	487
		1727		1730			3	
514	8.642 1033		8.642 5215		1.357 4785	9.999 5818		486
515	8.642 2759	1726	8.642 6944	1729	1.357 3056	9.999 5815	3	485
516	8.642 4484	1725	8.642 8673	1729	1.357 1327	9.999 5811	4	484
		1725		1728			3	
517	8.642 6209		8.643 0401		1.356 9599	9.999 5808		483
518	8.642 7933	1724	8.643 2128	1727	1.356 7872	9.999 5805	3	482
519	8.642 9656	1723	8.643 3855	1727	1.356 6145	9.999 5801	4	481
		1723		1726			3	
.520	8.643 1379		8.643 5581		1.356 4419	9.999 5798		**.480**
		1722		1725			3	
521	8.643 3101		8.643 7306		1.356 2694	9.999 5795		479
522	8.643 4822	1721	8.643 9031	1725	1.356 0969	9.999 5791	4	478
523	8.643 6543	1721	8.644 0755	1724	1.355 9245	9.999 5788	3	477
		1719		1723			3	
524	8.643 8262		8.644 2478		1.355 7522	9.999 5785		476
525	8.643 9982	1720	8.644 4200	1722	1.355 5800	9.999 5781	4	475
526	8.644 1700	1718	8.644 5922	1722	1.355 4078	9.999 5778	3	474
		1718		1721			3	
527	8.644 3418		8.644 7643		1.355 2357	9.999 5775		473
528	8.644 5135	1717	8.644 9364	1721	1.355 0636	9.999 5771	4	472
529	8.644 6852	1717	8.645 1084	1720	1.354 8916	9.999 5768	3	471
		1715		1719			3	
.530	8.644 8567		8.645 2803		1.354 7197	9.999 5765		**.470**
		1716		1718			4	
531	8.645 0283		8.645 4521		1.354 5479	9.999 5761		469
532	8.645 1997	1714	8.645 6239	1718	1.354 3761	9.999 5758	3	468
533	8.645 3711	1714	8.645 7956	1717	1.354 2044	9.999 5755	3	467
		1713		1717			4	
534	8.645 5424		8.645 9673		1.354 0327	9.999 5751		466
535	8.645 7136	1712	8.646 1388	1715	1.353 8612	9.999 5748	3	465
536	8.645 8848	1712	8.646 3104	1716	1.353 6896	9.999 5745	3	464
		1711		1714			4	
537	8.646 0559		8.646 4818		1.353 5182	9.999 5741		463
538	8.646 2269	1710	8.646 6532	1714	1.353 3468	9.999 5738	3	462
539	8.646 3979	1710	8.646 8245	1713	1.353 1755	9.999 5734	4	461
		1709		1712			3	
.540	8.646 5688		8.646 9957		1.353 0043	9.999 5731		**.460**
		1709		1712			3	
541	8.646 7397		8.647 1669		1.352 8331	9.999 5728		459
542	8.646 9104	1707	8.647 3380	1711	1.352 6620	9.999 5724	4	458
543	8.647 0811	1707	8.647 5090	1710	1.352 4910	9.999 5721	3	457
		1707		1710			3	
544	8.647 2518		8.647 6800		1.352 3200	9.999 5718		456
545	8.647 4223	1705	8.647 8509	1709	1.352 1491	9.999 5714	4	455
546	8.647 5928	1705	8.648 0217	1708	1.351 9783	9.999 5711	3	454
		1705		1708			3	
547	8.647 7633		8.648 1925		1.351 8075	9.999 5708		453
548	8.647 9336	1703	8.648 3632	1707	1.351 6368	9.999 5704	4	452
549	8.648 1039	1703	8.648 5339	1707	1.351 4661	9.999 5701	3	451
		1703		1705			4	
.550	8.648 2742		8.648 7044		1.351 2956	9.999 5697		**.450**
	cos	d	cotg	d	tang	sin	d	87°

$87^\circ.500 - 87^\circ.450$

P.P.

	1739	1737	1735
1	173.9	173.7	173.5
2	347.8	347.4	347.0
3	521.7	521.1	520.5
4	695.6	694.8	694.0
5	869.5	868.5	867.5
6	1043.4	1042.2	1041.0
7	1217.3	1215.9	1214.5
8	1391.2	1389.6	1388.0
9	1565.1	1563.3	1561.5

	1734	1732	1730
1	173.4	173.2	173.0
2	346.8	346.4	346.0
3	520.2	519.6	519.0
4	693.6	692.8	692.0
5	867.0	866.0	865.0
6	1040.4	1039.2	1038.0
7	1213.8	1212.4	1211.0
8	1387.2	1385.6	1384.0
9	1560.6	1558.8	1557.0

	1728	1726	1724
1	172.8	172.6	172.4
2	345.6	345.2	344.8
3	518.4	517.8	517.2
4	691.2	690.4	689.6
5	864.0	863.0	862.0
6	1036.8	1035.6	1034.4
7	1209.6	1208.2	1206.8
8	1382.4	1380.8	1379.2
9	1555.2	1553.4	1551.6

	1723	1721	1719
1	172.3	172.1	171.9
2	344.6	344.2	343.8
3	516.9	516.3	515.7
4	689.2	688.4	687.6
5	861.5	860.5	859.5
6	1033.8	1032.6	1031.4
7	1206.1	1204.7	1203.3
8	1378.4	1376.8	1375.2
9	1550.7	1548.9	1547.1

	1717	1715	1713
1	171.7	171.5	171.3
2	343.4	343.0	342.6
3	515.1	514.5	513.9
4	686.8	686.0	685.2
5	858.5	857.5	856.5
6	1030.2	1029.0	1027.8
7	1201.9	1200.5	1199.1
8	1373.6	1372.0	1370.4
9	1545.3	1543.5	1541.7

	1712	1710	1708
1	171.2	171.0	170.8
2	342.4	342.0	341.6
3	513.6	513.0	512.4
4	684.8	684.0	683.2
5	856.0	855.0	854.0
6	1027.2	1026.0	1024.8
7	1198.4	1197.0	1195.6
8	1369.6	1368.0	1366.4
9	1540.8	1539.0	1537.2

	1707	1705	1703
1	170.7	170.5	170.3
2	341.4	341.0	340.6
3	512.1	511.5	510.9
4	682.8	682.0	681.2
5	853.5	852.5	851.5
6	1024.2	1023.0	1021.8
7	1194.9	1193.5	1192.1
8	1365.6	1364.0	1362.4
9	1536.3	1534.5	1532.7

$2^\circ.550 - 2^\circ.600$

2°	sin	d	tang	d	cotg	cos	d	
.550	8.648 2742		8.648 7044		1.351 2956	9.999 5697		.450
		1701		1705			3	
551	8.648 4443		8.648 8749		1.351 1251	9.999 5694		449
552	8.648 6144	1701	8.649 0454	1705	1.350 9546	9.999 5691	3	448
553	8.648 7845	1701	8.649 2157	1703	1.350 7843	9.999 5687	4	447
		1699		1703			3	
554	8.648 9544		8.649 3860		1.350 6140	9.999 5684		446
555	8.649 1243	1699	8.649 5563	1703	1.350 4437	9.999 5680	4	445
556	8.649 2942	1699	8.649 7264	1701	1.350 2736	9.999 5677	3	444
		1697		1702			3	
557	8.649 4639		8.649 8966		1.350 1034	9.999 5674		443
558	8.649 6336	1697	8.650 0666	1700	1.349 9334	9.999 5670	4	442
559	8.649 8033	1697	8.650 2366	1700	1.349 7634	9.999 5667	3	441
		1695		1699			3	
.560	8.649 9728		8.650 4065		1.349 5935	9.999 5664		.440
		1695		1698			4	
561	8.650 1423		8.650 5763		1.349 4237	9.999 5660		439
562	8.650 3118	1695	8.650 7461	1698	1.349 2539	9.999 5657	3	438
563	8.650 4811	1693	8.650 9158	1697	1.349 0842	9.999 5653	4	437
		1693		1696			3	
564	8.650 6504		8.651 0854		1.348 9146	9.999 5650		436
565	8.650 8197	1693	8.651 2550	1696	1.348 7450	9.999 5647	3	435
566	8.650 9888	1691	8.651 4245	1695	1.348 5755	9.999 5643	4	434
		1691		1695			3	
567	8.651 1579		8.651 5940		1.348 4060	9.999 5640		433
568	8.651 3270	1691	8.651 7633	1693	1.348 2367	9.999 5636	4	432
569	8.651 4959	1689	8.651 9326	1693	1.348 0674	9.999 5633	3	431
		1690		1693			3	
.570	8.651 6649		8.652 1019		1.347 8981	9.999 5630		.430
		1688		1692			4	
571	8.651 8337		8.652 2711		1.347 7289	9.999 5626		429
572	8.652 0025	1688	8.652 4402	1691	1.347 5598	9.999 5623	3	428
573	8.652 1712	1687	8.652 6092	1690	1.347 3908	9.999 5619	4	427
		1686		1690			3	
574	8.652 3398		8.652 7782		1.347 2218	9.999 5616		426
575	8.652 5084	1686	8.652 9471	1689	1.347 0529	9.999 5613	3	425
576	8.652 6769	1685	8.653 1160	1689	1.346 8840	9.999 5609	4	424
		1685		1688			3	
577	8.652 8454		8.653 2848		1.346 7152	9.999 5606		423
578	8.653 0137	1683	8.653 4535	1687	1.346 5465	9.999 5602	4	422
579	8.653 1820	1683	8.653 6222	1687	1.346 3778	9.999 5599	3	421
		1683		1685			3	
.580	8.653 3503		8.653 7907		1.346 2093	9.999 5596		.420
		1682		1686			4	
581	8.653 5185		8.653 9593		1.346 0407	9.999 5592		419
582	8.653 6866	1681	8.654 1277	1684	1.345 8723	9.999 5589	3	418
583	8.653 8547	1681	8.654 2961	1684	1.345 7039	9.999 5585	4	417
		1679		1684			3	
584	8.654 0226		8.654 4645		1.345 5355	9.999 5582		416
585	8.654 1906	1680	8.654 6327	1682	1.345 3673	9.999 5578	4	415
586	8.654 3584	1678	8.654 8009	1682	1.345 1991	9.999 5575	3	414
		1678		1682			3	
587	8.654 5262		8.654 9691		1.345 0309	9.999 5572		413
588	8.654 6940	1678	8.655 1371	1680	1.344 8629	9.999 5568	4	412
589	8.654 8616	1676	8.655 3051	1680	1.344 6949	9.999 5565	3	411
		1676		1680			4	
.590	8.655 0292		8.655 4731		1.344 5269	9.999 5561		.410
		1675		1679			3	
591	8.655 1967		8.655 6410		1.344 3590	9.999 5558		409
592	8.655 3642	1675	8.655 8088	1678	1.344 1912	9.999 5554	4	408
593	8.655 5316	1674	8.655 9765	1677	1.344 0235	9.999 5551	3	407
		1674		1677			3	
594	8.655 6990		8.656 1442		1.343 8558	9.999 5548		406
595	8.655 8662	1672	8.656 3118	1676	1.343 6882	9.999 5544	4	405
596	8.656 0335	1673	8.656 4794	1676	1.343 5206	9.999 5541	3	404
		1671		1675			4	
597	8.656 2006		8.656 6469		1.343 3531	9.999 5537		403
598	8.656 3677	1671	8.656 8143	1674	1.343 1857	9.999 5534	3	402
599	8.656 5347	1670	8.656 9817	1674	1.343 0183	9.999 5530	4	401
		1670		1673			3	
.600	8.656 7017		8.657 1490		1.342 8510	9.999 5527		.400
	cos	d	cotg	d	tang	sin	d	87°

P.P.

	1705	1703	1701
1	170.5	170.3	170.1
2	341.0	340.6	340.2
3	511.5	510.9	510.3
4	682.0	681.2	680.4
5	852.5	851.5	850.5
6	1023.0	1021.8	1020.6
7	1193.5	1192.1	1190.7
8	1364.0	1362.4	1360.8
9	1534.5	1532.7	1530.9

	1700	1698	1696
1	170.0	169.8	169.6
2	340.0	339.6	339.2
3	510.0	509.4	508.8
4	680.0	679.2	678.4
5	850.0	849.0	848.0
6	1020.0	1018.8	1017.6
7	1190.0	1188.6	1187.2
8	1360.0	1358.4	1356.8
9	1530.0	1528.2	1526.4

	1694	1692	1690
1	169.4	169.2	169.0
2	338.8	338.4	338.0
3	508.2	507.6	507.0
4	677.6	676.8	676.0
5	847.0	846.0	845.0
6	1016.4	1015.2	1014.0
7	1185.8	1184.4	1183.0
8	1355.2	1353.6	1352.0
9	1524.6	1522.8	1521.0

	1689	1687	1685
1	168.9	168.7	168.5
2	337.8	337.4	337.0
3	506.7	506.1	505.5
4	675.6	674.8	674.0
5	844.5	843.5	842.5
6	1013.4	1012.2	1011.0
7	1182.3	1180.9	1179.5
8	1351.2	1349.6	1348.0
9	1520.1	1518.3	1516.5

	1684	1682	1680
1	168.4	168.2	168.0
2	336.8	336.4	336.0
3	505.2	504.6	504.0
4	673.6	672.8	672.0
5	842.0	841.0	840.0
6	1010.4	1009.2	1008.0
7	1178.8	1177.4	1176.0
8	1347.2	1345.6	1344.0
9	1515.6	1513.8	1512.0

	1679	1677	1675
1	167.9	167.7	167.5
2	335.8	335.4	335.0
3	503.7	503.1	502.5
4	671.6	670.8	670.0
5	839.5	838.5	837.5
6	1007.4	1006.2	1005.0
7	1175.3	1173.9	1172.5
8	1343.2	1341.6	1340.0
9	1511.1	1509.3	1507.5

	1674	1672	1670
1	167.4	167.2	167.0
2	334.8	334.4	334.0
3	502.2	501.6	501.0
4	669.6	668.8	668.0
5	837.0	836.0	835.0
6	1004.4	1003.2	1002.0
7	1171.8	1170.4	1169.0
8	1339.2	1337.6	1336.0
9	1506.6	1504.8	1503.0

$87^\circ.450 - 87^\circ.400$

$2^\circ.600 - 2^\circ.650$

2°	sin	d	tang	d	cotg	cos	d	
.600	8.656 7017	1668	8.657 1490	1672	1.342 8510	9.999 5527	4	**.400**
601	8.656 8685	1669	8.657 3162	1672	1.342 6838	9.999 5523	3	399
602	8.657 0354	1667	8.657 4834	1671	1.342 5166	9.999 5520	3	398
603	8.657 2021	1667	8.657 6505	1670	1.342 3495	9.999 5517	4	397
604	8.657 3688	1667	8.657 8175	1670	1.342 1825	9.999 5513	3	396
605	8.657 5355	1665	8.657 9845	1669	1.342 0155	9.999 5510	4	395
606	8.657 7020	1665	8.658 1514	1669	1.341 8486	9.999 5506	3	394
607	8.657 8685	1665	8.658 3183	1667	1.341 6817	9.999 5503	4	393
608	8.658 0350	1664	8.658 4850	1668	1.341 5150	9.999 5499	3	392
609	8.658 2014	1663	8.658 6518	1666	1.341 3482	9.999 5496	4	391
.610	8.658 3677	1662	8.658 8184	1666	1.341 1816	9.999 5492	3	**.390**
611	8.658 5339	1662	8.658 9850	1665	1.341 0150	9.999 5489	3	389
612	8.658 7001	1661	8.659 1515	1665	1.340 8485	9.999 5486	4	388
613	8.658 8662	1661	8.659 3180	1664	1.340 6820	9.999 5482	3	387
614	8.659 0323	1660	8.659 4844	1664	1.340 5156	9.999 5479	4	386
615	8.659 1983	1659	8.659 6508	1662	1.340 3492	9.999 5475	3	385
616	8.659 3642	1659	8.659 8170	1663	1.340 1830	9.999 5472	4	384
617	8.659 5301	1658	8.659 9833	1661	1.340 0167	9.999 5468	3	383
618	8.659 6959	1657	8.660 1494	1661	1.339 8506	9.999 5465	4	382
619	8.659 8616	1657	8.660 3155	1660	1.339 6845	9.999 5461	3	381
.620	8.660 0273	1656	8.660 4815	1660	1.339 5185	9.999 5458	4	**.380**
621	8.660 1929	1656	8.660 6475	1659	1.339 3525	9.999 5454	3	379
622	8.660 3585	1654	8.660 8134	1658	1.339 1866	9.999 5451	4	378
623	8.660 5239	1655	8.660 9792	1658	1.339 0208	9.999 5447	3	377
624	8.660 6894	1653	8.661 1450	1657	1.338 8550	9.999 5444	4	376
625	8.660 8547	1653	8.661 3107	1656	1.338 6893	9.999 5440	3	375
626	8.661 0200	1653	8.661 4763	1656	1.338 5237	9.999 5437	3	374
627	8.661 1853	1651	8.661 6419	1655	1.338 3581	9.999 5434	4	373
628	8.661 3504	1651	8.661 8074	1655	1.338 1926	9.999 5430	3	372
629	8.661 5155	1651	8.661 9729	1654	1.338 0271	9.999 5427	4	371
.630	8.661 6806	1650	8.662 1383	1653	1.337 8617	9.999 5423	3	**.370**
631	8.661 8456	1649	8.662 3036	1653	1.337 6964	9.999 5420	4	369
632	8.662 0105	1649	8.662 4689	1652	1.337 5311	9.999 5416	3	368
633	8.662 1754	1648	8.662 6341	1651	1.337 3659	9.999 5413	4	367
634	8.662 3402	1647	8.662 7992	1651	1.337 2008	9.999 5409	3	366
635	8.662 5049	1647	8.662 9643	1650	1.337 0357	9.999 5406	4	365
636	8.662 6696	1646	8.663 1293	1650	1.336 8707	9.999 5402	3	364
637	8.662 8342	1645	8.663 2943	1649	1.336 7057	9.999 5399	4	363
638	8.662 9987	1645	8.663 4592	1648	1.336 5408	9.999 5395	3	362
639	8.663 1632	1644	8.663 6240	1648	1.336 3760	9.999 5392	4	361
.640	8.663 3276	1644	8.663 7888	1647	1.336 2112	9.999 5388	3	**.360**
641	8.663 4920	1643	8.663 9535	1646	1.336 0465	9.999 5385	4	359
642	8.663 6563	1642	8.664 1181	1646	1.335 8819	9.999 5381	3	358
643	8.663 8205	1642	8.664 2827	1645	1.335 7173	9.999 5378	4	357
644	8.663 9847	1641	8.664 4472	1645	1.335 5528	9.999 5374	3	356
645	8.664 1488	1640	8.664 6117	1644	1.335 3883	9.999 5371	4	355
646	8.664 3128	1640	8.664 7761	1643	1.335 2239	9.999 5367	3	354
647	8.664 4768	1639	8.664 9404	1643	1.335 0596	9.999 5364	4	353
648	8.664 6407	1639	8.665 1047	1642	1.334 8953	9.999 5360	3	352
649	8.664 8046	1638	8.665 2689	1642	1.334 7311	9.999 5357	4	351
.650	8.664 9684		8.665 4331		1.334 5669	9.999 5353		**.350**
	cos	d	cotg	d	tang	sin	d	87°

P.P.

	1672	1670	1668
1	167.2	167.0	166.8
2	334.4	334.0	333.6
3	501.6	501.0	500.4
4	668.8	668.0	667.2
5	836.0	835.0	834.0
6	1003.2	1002.0	1000.8
7	1170.4	1169.0	1167.6
8	1337.6	1336.0	1334.4
9	1504.8	1503.0	1501.2

	1667	1665	1663
1	166.7	166.5	166.3
2	333.4	333.0	332.6
3	500.1	499.5	498.9
4	666.8	666.0	665.2
5	833.5	832.5	831.5
6	1000.2	999.0	997.8
7	1166.9	1165.5	1164.1
8	1333.6	1332.0	1330.4
9	1500.3	1498.5	1496.7

	1662	1660	1658
1	166.2	166.0	165.8
2	332.4	332.0	331.6
3	498.6	498.0	497.4
4	664.8	664.0	663.2
5	831.0	830.0	829.0
6	997.2	996.0	994.8
7	1163.4	1162.0	1160.6
8	1329.6	1328.0	1326.4
9	1495.8	1494.0	1492.2

	1657	1655	1653
1	165.7	165.5	165.3
2	331.4	331.0	330.6
3	497.1	496.5	495.9
4	662.8	662.0	661.2
5	828.5	827.5	826.5
6	994.2	993.0	991.8
7	1159.9	1158.5	1157.1
8	1325.6	1324.0	1322.4
9	1491.3	1489.5	1487.7

	1652	1650	1648
1	165.2	165.0	164.8
2	330.4	330.0	329.6
3	495.6	495.0	494.4
4	660.8	660.0	659.2
5	826.0	825.0	824.0
6	991.2	990.0	988.8
7	1156.4	1155.0	1153.6
8	1321.6	1320.0	1318.4
9	1486.8	1485.0	1483.2

	1647	1645	1643
1	164.7	164.5	164.3
2	329.4	329.0	328.6
3	494.1	493.5	492.9
4	658.8	658.0	657.2
5	823.5	822.5	821.5
6	988.2	987.0	985.8
7	1152.9	1151.5	1150.1
8	1317.6	1316.0	1314.4
9	1482.3	1480.5	1478.7

	1642	1640	1638
1	164.2	164.0	163.8
2	328.4	328.0	327.6
3	492.6	492.0	491.4
4	656.8	656.0	655.2
5	821.0	820.0	819.0
6	985.2	984.0	982.8
7	1149.4	1148.0	1146.6
8	1313.6	1312.0	1310.4
9	1477.8	1476.0	1474.2

$87^\circ.400 - 87^\circ.350$

$2^\circ.650 - 2^\circ.700$

2°	sin	d	tang	d	cotg	cos	d	
.650	8.664 9684	1637	8.665 4331	1641	1.334 5669	9.999 5353	3	**.350**
651	8.665 1321	1637	8.665 5972	1640	1.334 4028	9.999 5350	4	349
652	8.665 2958	1636	8.665 7612	1640	1.334 2388	9.999 5346	3	348
653	8.665 4594	1636	8.665 9252	1639	1.334 0748	9.999 5343	4	347
654	8.665 6230	1635	8.666 0891	1638	1.333 9109	9.999 5339	3	346
655	8.665 7865	1634	8.666 2529	1638	1.333 7471	9.999 5336	4	345
656	8.665 9499	1634	8.666 4167	1637	1.333 5833	9.999 5332	3	344
657	8.666 1133	1633	8.666 5804	1637	1.333 4196	9.999 5329	4	343
658	8.666 2766	1632	8.666 7441	1635	1.333 2559	9.999 5325	3	342
659	8.666 4398	1632	8.666 9076	1636	1.333 0924	9.999 5322	4	341
.660	8.666 6030	1631	8.667 0712	1635	1.332 9288	9.999 5318	3	**.340**
661	8.666 7661	1631	8.667 2347	1634	1.332 7653	9.999 5315	4	339
662	8.666 9292	1630	8.667 3981	1633	1.332 6019	9.999 5311	4	338
663	8.667 0922	1629	8.667 5614	1633	1.332 4386	9.999 5307	3	337
664	8.667 2551	1629	8.667 7247	1632	1.332 2753	9.999 5304	4	336
665	8.667 4180	1628	8.667 8879	1632	1.332 1121	9.999 5300	3	335
666	8.667 5808	1627	8.668 0511	1631	1.331 9489	9.999 5297	4	334
667	8.667 7435	1627	8.668 2142	1631	1.331 7858	9.999 5293	3	333
668	8.667 9062	1627	8.668 3773	1629	1.331 6227	9.999 5290	4	332
669	8.668 0689	1625	8.668 5402	1630	1.331 4598	9.999 5286	3	331
.670	8.668 2314	1625	8.668 7032	1628	1.331 2968	9.999 5283	4	**.330**
671	8.668 3939	1625	8.668 8660	1628	1.331 1340	9.999 5279	3	329
672	8.668 5564	1624	8.669 0288	1628	1.330 9712	9.999 5276	4	328
673	8.668 7188	1623	8.669 1916	1626	1.330 8084	9.999 5272	3	327
674	8.668 8811	1623	8.669 3542	1627	1.330 6458	9.999 5269	4	326
675	8.669 0434	1622	8.669 5169	1625	1.330 4831	9.999 5265	3	325
676	8.669 2056	1621	8.669 6794	1625	1.330 3206	9.999 5262	4	324
677	8.669 3677	1621	8.669 8419	1625	1.330 1581	9.999 5258	4	323
678	8.669 5298	1620	8.670 0044	1623	1.329 9956	9.999 5254	3	322
679	8.669 6918	1620	8.670 1667	1624	1.329 8333	9.999 5251	4	321
.680	8.669 8538	1619	8.670 3291	1622	1.329 6709	9.999 5247	3	**.320**
681	8.670 0157	1618	8.670 4913	1622	1.329 5087	9.999 5244	4	319
682	8.670 1775	1618	8.670 6535	1621	1.329 3465	9.999 5240	3	318
683	8.670 3393	1617	8.670 8156	1621	1.329 1844	9.999 5237	4	317
684	8.670 5010	1617	8.670 9777	1620	1.329 0223	9.999 5233	3	316
685	8.670 6627	1616	8.671 1397	1620	1.328 8603	9.999 5230	4	315
686	8.670 8243	1615	8.671 3017	1619	1.328 6983	9.999 5226	4	314
687	8.670 9858	1615	8.671 4636	1618	1.328 5364	9.999 5222	3	313
688	8.671 1473	1614	8.671 6254	1618	1.328 3746	9.999 5219	4	312
689	8.671 3087	1614	8.671 7872	1617	1.328 2128	9.999 5215	3	311
.690	8.671 4701	1613	8.671 9489	1617	1.328 0511	9.999 5212	4	**.310**
691	8.671 6314	1612	8.672 1106	1616	1.327 8894	9.999 5208	3	309
692	8.671 7926	1612	8.672 2722	1615	1.327 7278	9.999 5205	4	308
693	8.671 9538	1611	8.672 4337	1615	1.327 5663	9.999 5201	3	307
694	8.672 1149	1611	8.672 5952	1614	1.327 4048	9.999 5198	4	306
695	8.672 2760	1610	8.672 7566	1613	1.327 2434	9.999 5194	4	305
696	8.672 4370	1609	8.672 9179	1613	1.327 0821	9.999 5190	3	304
697	8.672 5979	1609	8.673 0792	1613	1.326 9208	9.999 5187	4	303
698	8.672 7588	1608	8.673 2405	1612	1.326 7595	9.999 5183	3	302
699	8.672 9196	1608	8.673 4017	1611	1.326 5983	9.999 5180	4	301
.700	8.673 0804		8.673 5628		1.326 4372	9.999 5176		**.300**
	cos	d	cotg	d	tang	sin	d	87°

P.P.

	1641	1640	1638
1	164.1	164.0	163.8
2	328.2	328.0	327.6
3	492.3	492.0	491.4
4	656.4	656.0	655.2
5	820.5	820.0	819.0
6	984.6	984.0	982.8
7	1148.7	1148.0	1146.6
8	1312.8	1312.0	1310.4
9	1476.9	1476.0	1474.2

	1637	1635	1633
1	163.7	163.5	163.3
2	327.4	327.0	326.6
3	491.1	490.5	489.9
4	654.8	654.0	653.2
5	818.5	817.5	816.5
6	982.2	981.0	979.8
7	1145.9	1144.5	1143.1
8	1309.6	1308.0	1306.4
9	1473.3	1471.5	1469.7

	1632	1630	1628
1	163.2	163.0	162.8
2	326.4	326.0	325.6
3	489.6	489.0	488.4
4	652.8	652.0	651.2
5	816.0	815.0	814.0
6	979.2	978.0	976.8
7	1142.4	1141.0	1139.6
8	1305.6	1304.0	1302.4
9	1468.8	1467.0	1465.2

	1627	1625	1623
1	162.7	162.5	162.3
2	325.4	325.0	324.6
3	488.1	487.5	486.9
4	650.8	650.0	649.2
5	813.5	812.5	811.5
6	976.2	975.0	973.8
7	1138.9	1137.5	1136.1
8	1301.6	1300.0	1298.4
9	1464.3	1462.5	1460.7

	1622	1620	1618
1	162.2	162.0	161.8
2	324.4	324.0	323.6
3	486.6	486.0	485.4
4	648.8	648.0	647.2
5	811.0	810.0	809.0
6	973.2	972.0	970.8
7	1135.4	1134.0	1132.6
8	1297.6	1296.0	1294.4
9	1459.8	1458.0	1456.2

	1617	1615	1613
1	161.7	161.5	161.3
2	323.4	323.0	322.6
3	485.1	484.5	483.9
4	646.8	646.0	645.2
5	808.5	807.5	806.5
6	970.2	969.0	967.8
7	1131.9	1130.5	1129.1
8	1293.6	1292.0	1290.4
9	1455.3	1453.5	1451.7

	1612	1610	1608
1	161.2	161.0	160.8
2	322.4	322.0	321.6
3	483.6	483.0	482.4
4	644.8	644.0	643.2
5	806.0	805.0	804.0
6	967.2	966.0	964.8
7	1128.4	1127.0	1125.6
8	1289.6	1288.0	1286.4
9	1450.8	1449.0	1447.2

$87^\circ.350 - 87^\circ.300$

$2^\circ.700 - 2^\circ.750$

2°	sin	d	tang	d	cotg	cos	d	
.700	8.673 0804		8.673 5628		1.326 4372	9.999 5176		**.300**
		1607		1610			3	
701	8.673 2411		8.673 7238		1.326 2762	9.999 5173		299
702	8.673 4017	1606	8.673 8848	1610	1.326 1152	9.999 5169	4	298
703	8.673 5623	1606	8.674 0458	1610	1.325 9542	9.999 5165	4	297
		1605		1608			3	
704	8.673 7228		8.674 2066		1.325 7934	9.999 5162		296
705	8.673 8833	1605	8.674 3675	1609	1.325 6325	9.999 5158	4	295
706	8.674 0437	1604	8.674 5282	1607	1.325 4718	9.999 5155	3	294
		1603		1607			4	
707	8.674 2040		8.674 6889		1.325 3111	9.999 5151		293
708	8.674 3643	1603	8.674 8496	1607	1.325 1504	9.999 5147	4	292
709	8.674 5246	1603	8.675 0102	1606	1.324 9898	9.999 5144	3	291
		1601		1605			4	
.710	8.674 6847		8.675 1707		1.324 8293	9.999 5140		**.290**
		1601		1605			3	
711	8.674 8448		8.675 3312		1.324 6688	9.999 5137		289
712	8.675 0049	1601	8.675 4916	1604	1.324 5084	9.999 5133	4	288
713	8.675 1649	1600	8.675 6519	1603	1.324 3481	9.999 5130	3	287
		1599		1603			4	
714	8.675 3248		8.675 8122		1.324 1878	9.999 5126		286
715	8.675 4847	1599	8.675 9724	1602	1.324 0276	9.999 5122	4	285
716	8.675 6445	1598	8.676 1326	1602	1.323 8674	9.999 5119	3	284
		1597		1601			4	
717	8.675 8042		8.676 2927		1.323 7073	9.999 5115		283
718	8.675 9639	1597	8.676 4528	1601	1.323 5472	9.999 5112	3	282
719	8.676 1236	1597	8.676 6128	1600	1.323 3872	9.999 5108	4	281
		1595		1599			4	
.720	8.676 2831		8.676 7727		1.323 2273	9.999 5104		**.280**
		1596		1599			3	
721	8.676 4427		8.676 9326		1.323 0674	9.999 5101		279
722	8.676 6021	1594	8.677 0924	1598	1.322 9076	9.999 5097	4	278
723	8.676 7615	1594	8.677 2522	1598	1.322 7478	9.999 5094	3	277
		1594		1597			4	
724	8.676 9209		8.677 4119		1.322 5881	9.999 5090		276
725	8.677 0801	1592	8.677 5715	1596	1.322 4285	9.999 5086	4	275
726	8.677 2394	1593	8.677 7311	1596	1.322 2689	9.999 5083	3	274
		1591		1595			4	
727	8.677 3985		8.677 8906		1.322 1094	9.999 5079		273
728	8.677 5576	1591	8.678 0501	1595	1.321 9499	9.999 5076	3	272
729	8.677 7167	1591	8.678 2095	1594	1.321 7905	9.999 5072	4	271
		1590		1593			4	
.730	8.677 8757		8.678 3688		1.321 6312	9.999 5068		**.270**
		1589		1593			3	
731	8.678 0346		8.678 5281		1.321 4719	9.999 5065		269
732	8.678 1935	1589	8.678 6874	1593	1.321 3126	9.999 5061	4	268
733	8.678 3523	1588	8.678 8466	1592	1.321 1534	9.999 5057	4	267
		1588		1591			3	
734	8.678 5111		8.679 0057		1.320 9943	9.999 5054		266
735	8.678 6698	1587	8.679 1647	1590	1.320 8353	9.999 5050	4	265
736	8.678 8284	1586	8.679 3237	1590	1.320 6763	9.999 5047	3	264
		1586		1590			4	
737	8.678 9870		8.679 4827		1.320 5173	9.999 5043		263
738	8.679 1455	1585	8.679 6416	1589	1.320 3584	9.999 5039	4	262
739	8.679 3040	1585	8.679 8004	1588	1.320 1996	9.999 5036	3	261
		1584		1588			4	
.740	8.679 4624		8.679 9592		1.320 0408	9.999 5032		**.260**
		1583		1587			4	
741	8.679 6207		8.680 1179		1.319 8821	9.999 5028		259
742	8.679 7790	1583	8.680 2765	1586	1.319 7235	9.999 5025	3	258
743	8.679 9373	1583	8.680 4351	1586	1.319 5649	9.999 5021	4	257
		1581		1586			3	
744	8.680 0954		8.680 5937		1.319 4063	9.999 5018		256
745	8.680 2536	1582	8.680 7522	1585	1.319 2478	9.999 5014	4	255
746	8.680 4116	1580	8.680 9106	1584	1.319 0894	9.999 5010	4	254
		1580		1584			3	
747	8.680 5696		8.681 0690		1.318 9310	9.999 5007		253
748	8.680 7276	1580	8.681 2273	1583	1.318 7727	9.999 5003	4	252
749	8.680 8855	1579	8.681 3855	1582	1.318 6145	9.999 4999	4	251
		1578		1582			3	
.750	8.681 0433		8.681 5437		1.318 4563	9.999 4996		**.250**
	cos	d	cotg	d	tang	sin	d	**87°**

$87^\circ.300 - 87^\circ.250$

P.P.

	1610	1608	1606
1	161.0	160.8	160.6
2	322.0	321.6	321.2
3	483.0	482.4	481.8
4	644.0	643.2	642.4
5	805.0	804.0	803.0
6	966.0	964.8	963.6
7	1127.0	1125.6	1124.2
8	1288.0	1286.4	1284.8
9	1449.0	1447.2	1445.4

	1605	1603	1601
1	160.5	160.3	160.1
2	321.0	320.6	320.2
3	481.5	480.9	480.3
4	642.0	641.2	640.4
5	802.5	801.5	800.5
6	963.0	961.8	960.6
7	1123.5	1122.1	1120.7
8	1284.0	1282.4	1280.8
9	1444.5	1442.7	1440.9

	1600	1598	1596
1	160.0	159.8	159.6
2	320.0	319.6	319.2
3	480.0	479.4	478.8
4	640.0	639.2	638.4
5	800.0	799.0	798.0
6	960.0	958.8	957.6
7	1120.0	1118.6	1117.2
8	1280.0	1278.4	1276.8
9	1440.0	1438.2	1436.4

	1595	1593	1591
1	159.5	159.3	159.1
2	319.0	318.6	318.2
3	478.5	477.9	477.3
4	638.0	637.2	636.4
5	797.5	796.5	795.5
6	957.0	955.8	954.6
7	1116.5	1115.1	1113.7
8	1276.0	1274.4	1272.8
9	1435.5	1433.7	1431.9

	1590	1588	1586
1	159.0	158.8	158.6
2	318.0	317.6	317.2
3	477.0	476.4	475.8
4	636.0	635.2	634.4
5	795.0	794.0	793.0
6	954.0	952.8	951.6
7	1113.0	1111.6	1110.2
8	1272.0	1270.4	1268.8
9	1431.0	1429.2	1427.4

	1585	1583	1581
1	158.5	158.3	158.1
2	317.0	316.6	316.2
3	475.5	474.9	474.3
4	634.0	633.2	632.4
5	792.5	791.5	790.5
6	951.0	949.8	948.6
7	1109.5	1108.1	1106.7
8	1268.0	1266.4	1264.8
9	1426.5	1424.7	1422.9

	1580	1579	1578
1	158.0	157.9	157.8
2	316.0	315.8	315.6
3	474.0	473.7	473.4
4	632.0	631.6	631.2
5	790.0	789.5	789.0
6	948.0	947.4	946.8
7	1106.0	1105.3	1104.6
8	1264.0	1263.2	1262.4
9	1422.0	1421.1	1420.2

$2^\circ.750 - 2^\circ.800$

2°	sin	d	tang	d	cotg	cos	d		P.P.
.750	8.681 0433		8.681 5437		1.318 4563	9.999 4996		**.250**	
		1578		1582			4		1582 1580 1578
751	8.681 2011		8.681 7019		1.318 2981	9.999 4992		249	1 158.2 158.0 157.8
752	8.681 3588	1577	8.681 8600	1581	1.318 1400	9.999 4988	4	248	2 316.4 316.0 315.6
753	8.681 5165	1577	8.682 0180	1580	1.317 9820	9.999 4985	3	247	3 474.6 474.0 473.4
		1576		1579			4		4 632.8 632.0 631.2
754	8.681 6741		8.682 1759		1.317 8241	9.999 4981		246	5 791.0 790.0 789.0
755	8.681 8316	1575	8.682 3339	1580	1.317 6661	9.999 4978	3	245	6 949.2 948.0 946.8
756	8.681 9891	1575	8.682 4917	1578	1.317 5083	9.999 4974	4	244	7 1107.4 1106.0 1104.6
		1574		1578			4		8 1265.6 1264.0 1262.4
757	8.682 1465		8.682 6495		1.317 3505	9.999 4970		243	9 1423.8 1422.0 1420.2
758	8.682 3039	1574	8.682 8072	1577	1.317 1928	9.999 4967	3	242	
759	8.682 4612	1573	8.682 9649	1577	1.317 0351	9.999 4963	4	241	1577 1575 1573
		1573		1577			4		1 157.7 157.5 157.3
.760	8.682 6185		8.683 1226		1.316 8774	9.999 4959		**.240**	2 315.4 315.0 314.6
		1572		1575			3		3 473.1 472.5 471.9
761	8.682 7757		8.683 2801		1.316 7199	9.999 4956		239	4 630.8 630.0 629.2
762	8.682 9328	1571	8.683 4376	1575	1.316 5624	9.999 4952	4	238	5 788.5 787.5 786.5
763	8.683 0899	1571	8.683 5951	1575	1.316 4049	9.999 4948	4	237	6 946.2 945.0 943.8
		1570		1574			3		7 1103.9 1102.5 1101.1
764	8.683 2469		8.683 7525		1.316 2475	9.999 4945		236	8 1261.6 1260.0 1258.4
765	8.683 4039	1570	8.683 9098	1573	1.316 0902	9.999 4941	4	235	9 1419.3 1417.5 1415.7
766	8.683 5608	1569	8.684 0671	1573	1.315 9329	9.999 4937	4	234	
		1569		1572			3		1572 1570 1568
767	8.683 7177		8.684 2243		1.315 7757	9.999 4934		233	1 157.2 157.0 156.8
768	8.683 8745	1568	8.684 3815	1572	1.315 6185	9.999 4930	4	232	2 314.4 314.0 313.6
769	8.684 0313	1568	8.684 5386	1571	1.315 4614	9.999 4926	4	231	3 471.6 471.0 470.4
		1566		1571			3		4 628.8 628.0 627.2
.770	8.684 1879		8.684 6957		1.315 3043	9.999 4923		**.230**	5 786.0 785.0 784.0
		1567		1570			4		6 943.2 942.0 940.8
771	8.684 3446		8.684 8527		1.315 1473	9.999 4919		229	7 1100.4 1099.0 1097.6
772	8.684 5012	1566	8.685 0096	1569	1.314 9904	9.999 4915	4	228	8 1257.6 1256.0 1254.4
773	8.684 6577	1565	8.685 1665	1569	1.314 8335	9.999 4912	3	227	9 1414.8 1413.0 1411.2
		1564		1568			4		
774	8.684 8141		8.685 3233		1.314 6767	9.999 4908		226	1567 1565 1563
775	8.684 9706	1565	8.685 4801	1568	1.314 5199	9.999 4904	4	225	1 156.7 156.5 156.3
776	8.685 1269	1563	8.685 6368	1567	1.314 3632	9.999 4901	3	224	2 313.4 313.0 312.6
		1563		1567			4		3 470.1 469.5 468.9
777	8.685 2832		8.685 7935		1.314 2065	9.999 4897		223	4 626.8 626.0 625.2
778	8.685 4394	1562	8.685 9501	1566	1.314 0499	9.999 4893	4	222	5 783.5 782.5 781.5
779	8.685 5956	1562	8.686 1067	1566	1.313 8933	9.999 4890	4	221	6 940.2 939.0 937.8
		1561		1565			3		7 1096.9 1095.5 1094.1
.780	8.685 7517		8.686 2632		1.313 7368	9.999 4886		**.220**	8 1253.6 1252.0 1250.4
		1561		1564			4		9 1410.3 1408.5 1406.7
781	8.685 9078		8.686 4196		1.313 5804	9.999 4882		219	
782	8.686 0638	1560	8.686 5760	1564	1.313 4240	9.999 4879	3	218	1562 1560 1558
783	8.686 2198	1560	8.686 7323	1563	1.313 2677	9.999 4875	4	217	1 156.2 156.0 155.8
		1559		1563			4		2 312.4 312.0 311.6
784	8.686 3757		8.686 8886		1.313 1114	9.999 4871		216	3 468.6 468.0 467.4
785	8.686 5315	1558	8.687 0448	1562	1.312 9552	9.999 4867	4	215	4 624.8 624.0 623.2
786	8.686 6873	1558	8.687 2009	1561	1.312 7991	9.999 4864	3	214	5 781.0 780.0 779.0
		1558		1562			4		6 937.2 936.0 934.8
787	8.686 8431		8.687 3571		1.312 6429	9.999 4860		213	7 1093.4 1092.0 1090.6
788	8.686 9987	1556	8.687 5131	1560	1.312 4869	9.999 4856	4	212	8 1249.6 1248.0 1246.4
789	8.687 1544	1557	8.687 6691	1560	1.312 3309	9.999 4853	3	211	9 1405.8 1404.0 1402.2
		1555		1559			4		
.790	8.687 3099		8.687 8250		1.312 1750	9.999 4849		**.210**	1557 1555 1553
		1555		1559			4		1 155.7 155.5 155.3
791	8.687 4654		8.687 9809		1.312 0191	9.999 4845		209	2 311.4 311.0 310.6
792	8.687 6209	1555	8.688 1367	1558	1.311 8633	9.999 4842	3	208	3 467.1 466.5 465.9
793	8.687 7763	1554	8.688 2925	1558	1.311 7075	9.999 4838	4	207	4 622.8 622.0 621.2
		1553		1557			4		5 778.5 777.5 776.5
794	8.687 9316		8.688 4482		1.311 5518	9.999 4834		206	6 934.2 933.0 931.8
795	8.688 0869	1553	8.688 6039	1557	1.311 3961	9.999 4831	3	205	7 1089.9 1088.5 1087.1
796	8.688 2422	1553	8.688 7595	1556	1.311 2405	9.999 4827	4	204	8 1245.6 1244.0 1242.4
		1551		1555			4		9 1401.3 1399.5 1397.7
797	8.688 3973		8.688 9150		1.311 0850	9.999 4823		203	
798	8.688 5524	1551	8.689 0705	1555	1.310 9295	9.999 4819	4	202	1552 1551 1550
799	8.688 7075	1551	8.689 2259	1554	1.310 7741	9.999 4816	3	201	1 155.2 155.1 155.0
		1550		1554			4		2 310.4 310.2 310.0
.800	8.688 8625		8.689 3813		1.310 6187	9.999 4812		**.200**	3 465.6 465.3 465.0
	cos	d	cotg	d	tang	sin	d	87°	P.P.

$87^\circ.250 - 87^\circ.200$

$2^\circ.800 - 2^\circ.850$

2°	sin	d	tang	d	cotg	cos	d		P.P.
.800	8.688 8625		8.689 3813		1.310 6187	9.999 4812		**.200**	
		1550		1553			4		1553 1551 1549
801	8.689 0175		8.689 5366		1.310 4634	9.999 4808		199	1 155.3 155.1 154.9
802	8.689 1724	1549	8.689 6919	1553	1.310 3081	9.999 4805	3	198	2 310.6 310.2 309.8
803	8.689 3272	1548	8.689 8471	1552	1.310 1529	9.999 4801	4	197	3 465.9 465.3 464.7
		1548		1552			4		4 621.2 620.4 619.6
804	8.689 4820		8.690 0023		1.309 9977	9.999 4797		196	5 776.5 775.5 774.5
805	8.689 6367	1547	8.690 1574	1551	1.309 8426	9.999 4793	4	195	6 931.8 930.6 929.4
806	8.689 7914	1547	8.690 3124	1550	1.309 6876	9.999 4790	3	194	7 1087.1 1085.7 1084.3
		1546		1550			4		8 1242.4 1240.8 1239.2
807	8.689 9460		8.690 4674		1.309 5326	9.999 4786		193	9 1397.7 1395.9 1394.1
808	8.690 1006	1546	8.690 6224	1550	1.309 3776	9.999 4782	4	192	1548 1546 1544
809	8.690 2551	1545	8.690 7773	1549	1.309 2227	9.999 4779	3	191	1 154.8 154.6 154.4
		1545		1548			4		2 309.6 309.2 308.8
.810	8.690 4096		8.690 9321		1.309 0679	9.999 4775		**.190**	3 464.4 463.8 463.2
		1544		1548			4		4 619.2 618.4 617.6
811	8.690 5640		8.691 0869		1.308 9131	9.999 4771		189	5 774.0 773.0 772.0
812	8.690 7183	1543	8.691 2416	1547	1.308 7584	9.999 4767	4	188	6 928.8 927.6 926.4
813	8.690 8726	1543	8.691 3962	1546	1.308 6038	9.999 4764	3	187	7 1083.6 1082.2 1080.8
		1542		1547			4		8 1238.4 1236.8 1235.2
814	8.691 0268		8.691 5509		1.308 4491	9.999 4760		186	9 1393.2 1391.4 1389.6
815	8.691 1810	1542	8.691 7054	1545	1.308 2946	9.999 4756	4	185	1543 1541 1539
816	8.691 3352	1542	8.691 8599	1545	1.308 1401	9.999 4753	3	184	1 154.3 154.1 153.9
		1540		1545			4		2 308.6 308.2 307.8
817	8.691 4892		8.692 0144		1.307 9856	9.999 4749		183	3 462.9 462.3 461.7
818	8.691 6432	1540	8.692 1687	1543	1.307 8313	9.999 4745	4	182	4 617.2 616.4 615.6
819	8.691 7972	1540	8.692 3231	1544	1.307 6769	9.999 4741	4	181	5 771.5 770.5 769.5
		1539		1543			3		6 925.8 924.6 923.4
.820	8.691 9511		8.692 4774		1.307 5226	9.999 4738		**.180**	7 1080.1 1078.7 1077.3
		1539		1542			4		8 1234.4 1232.8 1231.2
821	8.692 1050		8.692 6316		1.307 3684	9.999 4734		179	9 1388.7 1386.9 1385.1
822	8.692 2588	1538	8.692 7858	1542	1.307 2142	9.999 4730	4	178	1538 1536 1534
823	8.692 4125	1537	8.692 9399	1541	1.307 0601	9.999 4726	4	177	1 153.8 153.6 153.4
		1537		1540			3		2 307.6 307.2 306.8
824	8.692 5662		8.693 0939		1.306 9061	9.999 4723		176	3 461.4 460.8 460.2
825	8.692 7198	1536	8.693 2479	1540	1.306 7521	9.999 4719	4	175	4 615.2 614.4 613.6
826	8.692 8734	1536	8.693 4019	1540	1.306 5981	9.999 4715	4	174	5 769.0 768.0 767.0
		1535		1539			4		6 922.8 921.6 920.4
827	8.693 0269		8.693 5558		1.306 4442	9.999 4711		173	7 1076.6 1075.2 1073.8
828	8.693 1804	1535	8.693 7096	1538	1.306 2904	9.999 4708	3	172	8 1230.4 1228.8 1227.2
829	8.693 3338	1534	8.693 8634	1538	1.306 1366	9.999 4704	4	171	9 1384.2 1382.4 1380.6
		1534		1538			4		1533 1531 1529
.830	8.693 4872		8.694 0172		1.305 9828	9.999 4700		**.170**	1 153.3 153.1 152.9
		1533		1537			4		2 306.6 306.2 305.8
831	8.693 6405		8.694 1709		1.305 8291	9.999 4696		169	3 459.9 459.3 458.7
832	8.693 7938	1533	8.694 3245	1536	1.305 6755	9.999 4693	3	168	4 613.2 612.4 611.6
833	8.693 9470	1532	8.694 4781	1536	1.305 5219	9.999 4689	4	167	5 766.5 765.5 764.5
		1531		1535			4		6 919.8 918.6 917.4
834	8.694 1001		8.694 6316		1.305 3684	9.999 4685		166	7 1073.1 1071.7 1070.3
835	8.694 2532	1531	8.694 7851	1535	1.305 2149	9.999 4681	4	165	8 1226.4 1224.8 1223.2
836	8.694 4062	1530	8.694 9385	1534	1.305 0615	9.999 4678	3	164	9 1379.7 1377.9 1376.1
		1530		1533			4		1528 1527 1526
837	8.694 5592		8.695 0918		1.304 9082	9.999 4674		163	1 152.8 152.7 152.6
838	8.694 7122	1530	8.695 2451	1533	1.304 7549	9.999 4670	4	162	2 305.6 305.4 305.2
839	8.694 8650	1528	8.695 3984	1533	1.304 6016	9.999 4666	4	161	3 458.4 458.1 457.8
		1529		1532			3		4 611.2 610.8 610.4
.840	8.695 0179		8.695 5516		1.304 4484	9.999 4663		**.160**	5 764.0 763.5 763.0
		1527		1531			4		6 916.8 916.2 915.6
841	8.695 1706		8.695 7047		1.304 2953	9.999 4659		159	7 1069.6 1068.9 1068.2
842	8.695 3233	1527	8.695 8578	1531	1.304 1422	9.999 4655	4	158	8 1222.4 1221.6 1220.8
843	8.695 4760	1527	8.696 0109	1531	1.303 9891	9.999 4651	4	157	9 1375.2 1374.3 1373.4
		1526		1529			3		1525 1524 1523
844	8.695 6286		8.696 1638		1.303 8362	9.999 4648		156	1 152.5 152.4 152.3
845	8.695 7812	1526	8.696 3168	1530	1.303 6832	9.999 4644	4	155	2 305.0 304.8 304.6
846	8.695 9337	1525	8.696 4696	1528	1.303 5304	9.999 4640	4	154	3 457.5 457.2 456.9
		1524		1529			4		4 610.0 609.6 609.2
847	8.696 0861		8.696 6225		1.303 3775	9.999 4636		153	5 762.5 762.0 761.5
848	8.696 2385	1524	8.696 7752	1527	1.303 2248	9.999 4633	3	152	6 915.0 914.4 913.8
849	8.696 3908	1523	8.696 9280	1528	1.303 0720	9.999 4629	4	151	7 1067.5 1066.8 1066.1
		1523		1526			4		8 1220.0 1219.2 1218.4
.850	8.696 5431		8.697 0806		1.302 9194	9.999 4625		**.150**	9 1372.5 1371.6 1370.7
	cos	d	cotg	d	tang	sin	d	87°	P.P.

$87^\circ.200 - 87^\circ.150$

$2^\circ.850 - 2^\circ.900$

2°	sin	d	tang	d	cotg	cos	d		P.P.
.850	8.696 5431		8.697 0806		1.302 9194	9.999 4625		**.150**	
		1523		1526			4		1526 1524 1522
851	8.696 6954		8.697 2332		1.302 7668	9.999 4621		149	
852	8.696 8475	1521	8.697 3858	1526	1.302 6142	9.999 4617	4	148	1 152.6 152.4 152.2
853	8.696 9997	1522	8.697 5383	1525	1.302 4617	9.999 4614	3	147	2 305.2 304.8 304.4
		1520		1524			4		3 457.8 457.2 456.6
854	8.697 1517		8.697 6907		1.302 3093	9.999 4610		146	4 610.4 609.6 608.8
855	8.697 3037	1520	8.697 8431	1524	1.302 1569	9.999 4606	4	145	5 763.0 762.0 761.0
856	8.697 4557	1520	8.697 9955	1524	1.302 0045	9.999 4602	4	144	6 915.6 914.4 913.2
		1519		1523			3		7 1068.2 1066.8 1065.4
857	8.697 6076		8.698 1478		1.301 8522	9.999 4599		143	8 1220.8 1219.2 1217.6
858	8.697 7595	1519	8.698 3000	1522	1.301 7000	9.999 4595	4	142	9 1373.4 1371.6 1369.8
859	8.697 9113	1518	8.698 4522	1522	1.301 5478	9.999 4591	4	141	
		1517		1521			4		1521 1519 1517
.860	8.698 0630		8.698 6043		1.301 3957	9.999 4587		**.140**	
		1517		1521			4		1 152.1 151.9 151.7
861	8.698 2147		8.698 7564		1.301 2436	9.999 4583		139	2 304.2 303.8 303.4
862	8.698 3664	1517	8.698 9084	1520	1.301 0916	9.999 4580	3	138	3 456.3 455.7 455.1
863	8.698 5180	1516	8.699 0604	1520	1.300 9396	9.999 4576	4	137	4 608.4 607.6 606.8
		1515		1519			4		5 760.5 759.5 758.5
864	8.698 6695		8.699 2123		1.300 7877	9.999 4572		136	6 912.6 911.4 910.2
865	8.698 8210	1515	8.699 3642	1519	1.300 6358	9.999 4568	4	135	7 1064.7 1063.3 1061.9
866	8.698 9724	1514	8.699 5160	1518	1.300 4840	9.999 4564	4	134	8 1216.8 1215.2 1213.6
		1514		1517			3		9 1368.9 1367.1 1365.3
867	8.699 1238		8.699 6677		1.300 3323	9.999 4561		133	
868	8.699 2751	1513	8.699 8195	1518	1.300 1805	9.999 4557	4	132	1516 1514 1512
869	8.699 4264	1513	8.699 9711	1516	1.300 0289	9.999 4553	4	131	
		1512		1516			4		1 151.6 151.4 151.2
.870	8.699 5776		8.700 1227		1.299 8773	9.999 4549		**.130**	2 303.2 302.8 302.4
		1512		1516			4		3 454.8 454.2 453.6
871	8.699 7288		8.700 2743		1.299 7257	9.999 4545		129	4 606.4 605.6 604.8
872	8.699 8799	1511	8.700 4258	1515	1.299 5742	9.999 4542	3	128	5 758.0 757.0 756.0
873	8.700 0310	1511	8.700 5772	1514	1.299 4228	9.999 4538	4	127	6 909.6 908.4 907.2
		1510		1514			4		7 1061.2 1059.8 1058.4
874	8.700 1820		8.700 7286		1.299 2714	9.999 4534		126	8 1212.8 1211.2 1209.6
875	8.700 3330	1510	8.700 8799	1513	1.299 1201	9.999 4530	4	125	9 1364.4 1362.6 1360.8
876	8.700 4839	1509	8.701 0312	1513	1.298 9688	9.999 4526	4	124	
		1508		1512			3		1511 1509 1507
877	8.700 6347		8.701 1824		1.298 8176	9.999 4523		123	
878	8.700 7855	1508	8.701 3336	1512	1.298 6664	9.999 4519	4	122	1 151.1 150.9 150.7
879	8.700 9363	1508	8.701 4848	1512	1.298 5152	9.999 4515	4	121	2 302.2 301.8 301.4
		1507		1510			4		3 453.3 452.7 452.1
.880	8.701 0870		8.701 6358		1.298 3642	9.999 4511		**.120**	4 604.4 603.6 602.8
		1506		1511			4		5 755.5 754.5 753.5
881	8.701 2376		8.701 7869		1.298 2131	9.999 4507		119	6 906.6 905.4 904.2
882	8.701 3882	1506	8.701 9378	1509	1.298 0622	9.999 4504	3	118	7 1057.7 1056.3 1054.9
883	8.701 5387	1505	8.702 0888	1510	1.297 9112	9.999 4500	4	117	8 1208.8 1207.2 1205.6
		1505		1508			4		9 1359.9 1358.1 1356.3
884	8.701 6892		8.702 2396		1.297 7604	9.999 4496		116	
885	8.701 8397	1505	8.702 3904	1508	1.297 6096	9.999 4492	4	115	1506 1504 1502
886	8.701 9900	1503	8.702 5412	1508	1.297 4588	9.999 4488	4	114	
		1504		1507			4		1 150.6 150.4 150.2
887	8.702 1404		8.702 6919		1.297 3081	9.999 4484		113	2 301.2 300.8 300.4
888	8.702 2906	1502	8.702 8426	1507	1.297 1574	9.999 4481	3	112	3 451.8 451.2 450.6
889	8.702 4409	1503	8.702 9932	1506	1.297 0068	9.999 4477	4	111	4 602.4 601.6 600.8
		1501		1505			4		5 753.0 752.0 751.0
.890	8.702 5910		8.703 1437		1.296 8563	9.999 4473		**.110**	6 903.6 902.4 901.2
		1502		1505			4		7 1054.2 1052.8 1051.4
891	8.702 7412		8.703 2942		1.296 7058	9.999 4469		109	8 1204.8 1203.2 1201.6
892	8.702 8912	1500	8.703 4447	1505	1.296 5553	9.999 4465	4	108	9 1355.4 1353.6 1351.8
893	8.703 0412	1500	8.703 5951	1504	1.296 4049	9.999 4462	3	107	
		1500		1503			4		1501 1500 1499
894	8.703 1912		8.703 7454		1.296 2546	9.999 4458		106	
895	8.703 3411	1499	8.703 8957	1503	1.296 1043	9.999 4454	4	105	1 150.1 150.0 149.9
896	8.703 4910	1499	8.704 0460	1503	1.295 9540	9.999 4450	4	104	2 300.2 300.0 299.8
		1498		1502			4		3 450.3 450.0 449.7
897	8.703 6408		8.704 1962		1.295 8038	9.999 4446		103	4 600.4 600.0 599.6
898	8.703 7906	1498	8.704 3463	1501	1.295 6537	9.999 4442	4	102	5 750.5 750.0 749.5
899	8.703 9403	1497	8.704 4964	1501	1.295 5036	9.999 4439	3	101	6 900.6 900.0 899.4
		1496		1501			4		7 1050.7 1050.0 1049.3
.900	8.704 0899		8.704 6465		1.295 3535	9.999 4435		**.100**	8 1200.8 1200.0 1199.2
									9 1350.9 1350.0 1349.1
	cos	d	cotg	d	tang	sin	d	87°	P.P.

									1498 1497 1496
									1 149.8 149.7 149.6
									2 299.6 299.4 299.2
									3 449.4 449.1 448.8
									4 599.2 598.8 598.4
									5 749.0 748.5 748.0
									6 898.8 898.2 897.6
									7 1048.6 1047.9 1047.2
									8 1198.4 1197.6 1196.8
									9 1348.2 1347.3 1346.4

$87^\circ.150 - 87^\circ.100$

$2^\circ.900 - 2^\circ.950$

2°	sin	d	tang	d	cotg	cos	d	
.900	8.704 0899	1496	8.704 6465	1499	1.295 3535	9.999 4435	4	**.100**
901	8.704 2395	1496	8.704 7964	1500	1.295 2036	9.999 4431	4	099
902	8.704 3891	1495	8.704 9464	1499	1.295 0536	9.999 4427	4	098
903	8.704 5386	1494	8.705 0963	1498	1.294 9037	9.999 4423	4	097
904	8.704 6880	1494	8.705 2461	1498	1.294 7539	9.999 4419	4	096
905	8.704 8374	1494	8.705 3959	1497	1.294 6041	9.999 4415	4	095
906	8.704 9868	1493	8.705 5456	1497	1.294 4544	9.999 4412	3	094
907	8.705 1361	1492	8.705 6953	1496	1.294 3047	9.999 4408	4	093
908	8.705 2853	1492	8.705 8449	1496	1.294 1551	9.999 4404	4	092
909	8.705 4345	1491	8.705 9945	1495	1.294 0055	9.999 4400	4	091
.910	8.705 5836	1491	8.706 1440	1495	1.293 8560	9.999 4396	4	**.090**
911	8.705 7327	1491	8.706 2935	1494	1.293 7065	9.999 4392	4	089
912	8.705 8818	1489	8.706 4429	1494	1.293 5571	9.999 4389	3	088
913	8.706 0307	1490	8.706 5923	1493	1.293 4077	9.999 4385	4	087
914	8.706 1797	1489	8.706 7416	1493	1.293 2584	9.999 4381	4	086
915	8.706 3286	1488	8.706 8909	1492	1.293 1091	9.999 4377	4	085
916	8.706 4774	1488	8.707 0401	1491	1.292 9599	9.999 4373	4	084
917	8.706 6262	1487	8.707 1892	1492	1.292 8108	9.999 4369	4	083
918	8.706 7749	1487	8.707 3384	1490	1.292 6616	9.999 4365	4	082
919	8.706 9236	1486	8.707 4874	1490	1.292 5126	9.999 4361	4	081
.920	8.707 0722	1486	8.707 6364	1490	1.292 3636	9.999 4358	3	**.080**
921	8.707 2208	1485	8.707 7854	1489	1.292 2146	9.999 4354	4	079
922	8.707 3693	1485	8.707 9343	1489	1.292 0657	9.999 4350	4	078
923	8.707 5178	1484	8.708 0832	1488	1.291 9168	9.999 4346	4	077
924	8.707 6662	1484	8.708 2320	1488	1.291 7680	9.999 4342	4	076
925	8.707 8146	1483	8.708 3808	1487	1.291 6192	9.999 4338	4	075
926	8.707 9629	1483	8.708 5295	1486	1.291 4705	9.999 4334	4	074
927	8.708 1112	1482	8.708 6781	1486	1.291 3219	9.999 4331	3	073
928	8.708 2594	1482	8.708 8267	1486	1.291 1733	9.999 4327	4	072
929	8.708 4076	1481	8.708 9753	1485	1.291 0247	9.999 4323	4	071
.930	8.708 5557	1481	8.709 1238	1485	1.290 8762	9.999 4319	4	**.070**
931	8.708 7038	1480	8.709 2723	1484	1.290 7277	9.999 4315	4	069
932	8.708 8518	1479	8.709 4207	1483	1.290 5793	9.999 4311	4	068
933	8.708 9997	1480	8.709 5690	1483	1.290 4310	9.999 4307	4	067
934	8.709 1477	1478	8.709 7173	1483	1.290 2827	9.999 4303	4	066
935	8.709 2955	1478	8.709 8656	1482	1.290 1344	9.999 4299	4	065
936	8.709 4433	1478	8.710 0138	1481	1.289 9862	9.999 4296	3	064
937	8.709 5911	1477	8.710 1619	1481	1.289 8381	9.999 4292	4	063
938	8.709 7388	1477	8.710 3100	1481	1.289 6900	9.999 4288	4	062
939	8.709 8865	1476	8.710 4581	1480	1.289 5419	9.999 4284	4	061
.940	8.710 0341	1476	8.710 6061	1480	1.289 3939	9.999 4280	4	**.060**
941	8.710 1817	1475	8.710 7541	1479	1.289 2459	9.999 4276	4	059
942	8.710 3292	1474	8.710 9020	1478	1.289 0980	9.999 4272	4	058
943	8.710 4766	1475	8.711 0498	1478	1.288 9502	9.999 4268	4	057
944	8.710 6241	1473	8.711 1976	1478	1.288 8024	9.999 4264	3	056
945	8.710 7714	1473	8.711 3454	1477	1.288 6546	9.999 4261	4	055
946	8.710 9187	1473	8.711 4931	1476	1.288 5069	9.999 4257	4	054
947	8.711 0660	1472	8.711 6407	1476	1.288 3593	9.999 4253	4	053
948	8.711 2132	1472	8.711 7883	1476	1.288 2117	9.999 4249	4	052
949	8.711 3604	1471	8.711 9359	1475	1.288 0641	9.999 4245	4	051
.950	8.711 5075		8.712 0834		1.287 9166	9.999 4241		**.050**
	cos	d	cotg	d	tang	sin	d	87°

P.P.

	1500	1498	1496
1	150.0	149.8	149.6
2	300.0	299.6	299.2
3	450.0	449.4	448.8
4	600.0	599.2	598.4
5	750.0	749.0	748.0
6	900.0	898.8	897.6
7	1050.0	1048.6	1047.2
8	1200.0	1198.4	1196.8
9	1350.0	1348.2	1346.4

	1495	1493	1491
1	149.5	149.3	149.1
2	299.0	298.6	298.2
3	448.5	447.9	447.3
4	598.0	597.2	596.4
5	747.5	746.5	745.5
6	897.0	895.8	894.6
7	1046.5	1045.1	1043.7
8	1196.0	1194.4	1192.8
9	1345.5	1343.7	1341.9

	1490	1488	1486
1	149.0	148.8	148.6
2	298.0	297.6	297.2
3	447.0	446.4	445.8
4	596.0	595.2	594.4
5	745.0	744.0	743.0
6	894.0	892.8	891.6
7	1043.0	1041.6	1040.2
8	1192.0	1190.4	1188.8
9	1341.0	1339.2	1337.4

	1485	1483	1481
1	148.5	148.3	148.1
2	297.0	296.6	296.2
3	445.5	444.9	444.3
4	594.0	593.2	592.4
5	742.5	741.5	740.5
6	891.0	889.8	888.6
7	1039.5	1038.1	1036.7
8	1188.0	1186.4	1184.8
9	1336.5	1334.7	1332.9

	1480	1478	1477
1	148.0	147.8	147.7
2	296.0	295.6	295.4
3	444.0	443.4	443.1
4	592.0	591.2	590.8
5	740.0	739.0	738.5
6	888.0	886.8	886.2
7	1036.0	1034.6	1033.9
8	1184.0	1182.4	1181.6
9	1332.0	1330.2	1329.3

	1476	1475	1474
1	147.6	147.5	147.4
2	295.2	295.0	294.8
3	442.8	442.5	442.2
4	590.4	590.0	589.6
5	738.0	737.5	737.0
6	885.6	885.0	884.4
7	1033.2	1032.5	1031.8
8	1180.8	1180.0	1179.2
9	1328.4	1327.5	1326.6

	1473	1472	1471
1	147.3	147.2	147.1
2	294.6	294.4	294.2
3	441.9	441.6	441.3
4	589.2	588.8	588.4
5	736.5	736.0	735.5
6	883.8	883.2	882.6
7	1031.1	1030.4	1029.7
8	1178.4	1177.6	1176.8
9	1325.7	1324.8	1323.9

$87^\circ.100 - 87^\circ.050$

$2^\circ.950 - 3^\circ.000$

2°	sin	d	tang	d	cotg	cos	d		P.P.
.950	8.711 5075		8.712 0834		1.287 9166	9.999 4241		**.050**	
		1470		1474			4		1474 1472 1470
951	8.711 6545		8.712 2308		1.287 7692	9.999 4237		049	
952	8.711 8016	1471	8.712 3782	1474	1.287 6218	9.999 4233	4	048	1 147.4 147.2 147.0
953	8.711 9485	1469	8.712 5256	1474	1.287 4744	9.999 4229	4	047	2 294.8 294.4 294.0
		1469		1473			4		3 442.2 441.6 441.0
954	8.712 0954		8.712 6729		1.287 3271	9.999 4225		046	4 589.6 588.8 588.0
955	8.712 2423	1469	8.712 8202	1473	1.287 1798	9.999 4221	4	045	5 737.0 736.0 735.0
956	8.712 3891	1468	8.712 9674	1472	1.287 0326	9.999 4218	3	044	6 884.4 883.2 882.0
		1468		1471			4		7 1031.8 1030.4 1029.0
957	8.712 5359		8.713 1145		1.286 8855	9.999 4214		043	8 1179.2 1177.6 1176.0
958	8.712 6826	1467	8.713 2616	1471	1.286 7384	9.999 4210	4	042	9 1326.6 1324.8 1323.0
959	8.712 8293	1467	8.713 4087	1471	1.286 5913	9.999 4206	4	041	
		1466		1470			4		1469 1467 1465
.960	8.712 9759		8.713 5557		1.286 4443	9.999 4202		**.040**	
		1465		1469			4		1 146.9 146.7 146.5
961	8.713 1224		8.713 7026		1.286 2974	9.999 4198		039	2 293.8 293.4 293.0
962	8.713 2690	1466	8.713 8496	1470	1.286 1504	9.999 4194	4	038	3 440.7 440.1 439.5
963	8.713 4154	1464	8.713 9964	1468	1.286 0036	9.999 4190	4	037	4 587.6 586.8 586.0
		1464		1468			4		5 734.5 733.5 732.5
964	8.713 5618		8.714 1432		1.285 8568	9.999 4186		036	6 881.4 880.2 879.0
965	8.713 7082	1464	8.714 2900	1468	1.285 7100	9.999 4182	4	035	7 1028.3 1026.9 1025.5
966	8.713 8545	1463	8.714 4367	1467	1.285 5633	9.999 4178	4	034	8 1175.2 1173.6 1172.0
		1463		1467			4		9 1322.1 1320.3 1318.5
967	8.714 0008		8.714 5834		1.285 4166	9.999 4174		033	
968	8.714 1470	1462	8.714 7300	1466	1.285 2700	9.999 4171	3	032	1464 1462 1460
969	8.714 2932	1462	8.714 8765	1465	1.285 1235	9.999 4167	4	031	
		1461		1465			4		1 146.4 146.2 146.0
.970	8.714 4393		8.715 0230		1.284 9770	9.999 4163		**.030**	2 292.8 292.4 292.0
		1461		1465			4		3 439.2 438.6 438.0
971	8.714 5854		8.715 1695		1.284 8305	9.999 4159		029	4 585.6 584.8 584.0
972	8.714 7314	1460	8.715 3159	1464	1.284 6841	9.999 4155	4	028	5 732.0 731.0 730.0
973	8.714 8774	1460	8.715 4623	1464	1.284 5377	9.999 4151	4	027	6 878.4 877.2 876.0
		1459		1463			4		7 1024.8 1023.4 1022.0
974	8.715 0233		8.715 6086		1.284 3914	9.999 4147		026	8 1171.2 1169.6 1168.0
975	8.715 1692	1459	8.715 7549	1463	1.284 2451	9.999 4143	4	025	9 1317.6 1315.8 1314.0
976	8.715 3150	1458	8.715 9011	1462	1.284 0989	9.999 4139	4	024	
		1458		1462			4		1459 1457 1456
977	8.715 4608		8.716 0473		1.283 9527	9.999 4135		023	
978	8.715 6065	1457	8.716 1934	1461	1.283 8066	9.999 4131	4	022	1 145.9 145.7 145.6
979	8.715 7522	1457	8.716 3395	1461	1.283 6605	9.999 4127	4	021	2 291.8 291.4 291.2
		1456		1460			4		3 437.7 437.1 436.8
.980	8.715 8978		8.716 4855		1.283 5145	9.999 4123		**.020**	4 583.6 582.8 582.4
		1456		1460			4		5 729.5 728.5 728.0
981	8.716 0434		8.716 6315		1.283 3685	9.999 4119		019	6 875.4 874.2 873.6
982	8.716 1889	1455	8.716 7774	1459	1.283 2226	9.999 4115	4	018	7 1021.3 1019.9 1019.2
983	8.716 3344	1455	8.716 9233	1459	1.283 0767	9.999 4111	4	017	8 1167.2 1165.6 1164.8
		1454		1458			4		9 1313.1 1311.3 1310.4
984	8.716 4798		8.717 0691		1.282 9309	9.999 4107		016	
985	8.716 6252	1454	8.717 2149	1458	1.282 7851	9.999 4104	3	015	1455 1454 1453
986	8.716 7706	1454	8.717 3606	1457	1.282 6394	9.999 4100	4	014	
		1452		1457			4		1 145.5 145.4 145.3
987	8.716 9158		8.717 5063		1.282 4937	9.999 4096		013	2 291.0 290.8 290.6
988	8.717 0611	1453	8.717 6519	1456	1.282 3481	9.999 4092	4	012	3 436.5 436.2 435.9
989	8.717 2063	1452	8.717 7975	1456	1.282 2025	9.999 4088	4	011	4 582.0 581.6 581.2
		1451		1455			4		5 727.5 727.0 726.5
.990	8.717 3514		8.717 9430		1.282 0570	9.999 4084		**.010**	6 873.0 872.4 871.8
		1451		1455			4		7 1018.5 1017.8 1017.1
991	8.717 4965		8.718 0885		1.281 9115	9.999 4080		009	8 1164.0 1163.2 1162.4
992	8.717 6416	1451	8.718 2340	1455	1.281 7660	9.999 4076	4	008	9 1309.5 1308.6 1307.7
993	8.717 7866	1450	8.718 3794	1454	1.281 6206	9.999 4072	4	007	
		1449		1453			4		1452 1451 1450
994	8.717 9315		8.718 5247		1.281 4753	9.999 4068		006	
995	8.718 0764	1449	8.718 6700	1453	1.281 3300	9.999 4064	4	005	1 145.2 145.1 145.0
996	8.718 2212	1448	8.718 8153	1453	1.281 1847	9.999 4060	4	004	2 290.4 290.2 290.0
		1448		1452			4		3 435.6 435.3 435.0
997	8.718 3660		8.718 9605		1.281 0395	9.999 4056		003	4 580.8 580.4 580.0
998	8.718 5108	1448	8.719 1056	1451	1.280 8944	9.999 4052	4	002	5 726.0 725.5 725.0
999	8.718 6555	1447	8.719 2507	1451	1.280 7493	9.999 4048	4	001	6 871.2 870.6 870.0
		1447		1451			4		7 1016.4 1015.7 1015.0
***.000**	8.718 8002		8.719 3958		1.280 6042	9.999 4044		**.000**	8 1161.6 1160.8 1160.0
									9 1306.8 1305.9 1305.0
									1449 1448 1447
									1 144.9 144.8 144.7
									2 289.8 289.6 289.4
									3 434.7 434.4 434.1
									4 579.6 579.2 578.8
									5 724.5 724.0 723.5
									6 869.4 868.8 868.2
									7 1014.3 1013.6 1012.9
									8 1159.2 1158.4 1157.6
									9 1304.1 1303.2 1302.3
	cos	d	cotg	d	tang	sin	d	87°	P.P.

$87^\circ.050 - 87^\circ.000$

$3^\circ.000 - 3^\circ.050$

3°	sin	d	tang	d	cotg	cos	d		P.P.		
.000	8.718 8002		8.719 3958		1.280 6042	9.999 4044		*000			
		1446		1450			4		1450	1448	1446
001	8.718 9448		8.719 5408		1.280 4592	9.999 4040		999			
002	8.719 0893	1445	8.719 6857	1449	1.280 3143	9.999 4036	4	998	1 145.0	144.8	144.6
003	8.719 2338	1445	8.719 8306	1449	1.280 1694	9.999 4032	4	997	2 290.0	289.6	289.2
		1445		1449			4		3 435.0	434.4	433.8
004	8.719 3783		8.719 9755		1.280 0245	9.999 4028		996	4 580.0	579.2	578.4
005	8.719 5227	1444	8.720 1203	1448	1.279 8797	9.999 4024	4	995	5 725.0	724.0	723.0
006	8.719 6671	1444	8.720 2651	1448	1.279 7349	9.999 4020	4	994	6 870.0	868.8	867.6
		1443		1447			4		7 1015.0	1013.6	1012.2
007	8.719 8114		8.720 4098		1.279 5902	9.999 4016		993	8 1160.0	1158.4	1156.8
008	8.719 9557	1443	8.720 5545	1447	1.279 4455	9.999 4012	4	992	9 1305.0	1303.2	1301.4
009	8.720 0999	1442	8.720 6991	1446	1.279 3009	9.999 4008	4	991			
		1442		1446			4		1445	1443	1441
.010	8.720 2441		8.720 8437		1.279 1563	9.999 4004		.990			
		1441		1445			4		1 144.5	144.3	144.1
011	8.720 3882		8.720 9882		1.279 0118	9.999 4000		989	2 289.0	288.6	288.2
012	8.720 5323	1441	8.721 1327	1445	1.278 8673	9.999 3996	4	988	3 433.5	432.9	432.3
013	8.720 6763	1440	8.721 2771	1444	1.278 7229	9.999 3992	4	987	4 578.0	577.2	576.4
		1440		1444			4		5 722.5	721.5	720.5
014	8.720 8203		8.721 4215		1.278 5785	9.999 3988		986	6 867.0	865.8	864.6
015	8.720 9642	1439	8.721 5658	1443	1.278 4342	9.999 3984	4	985	7 1011.5	1010.1	1008.7
016	8.721 1081	1439	8.721 7101	1443	1.278 2899	9.999 3980	4	984	8 1156.0	1154.4	1152.8
		1439		1442			4		9 1300.5	1298.7	1296.9
017	8.721 2520		8.721 8543		1.278 1457	9.999 3976		983			
018	8.721 3958	1438	8.721 9985	1442	1.278 0015	9.999 3972	4	982		1440	1438	1436
019	8.721 5395	1437	8.722 1427	1442	1.277 8573	9.999 3968	4	981				
		1437		1441			4		1	144.0	143.8	143.6
.020	8.721 6832		8.722 2868		1.277 7132	9.999 3964		.980	2	288.0	287.6	287.2
		1436		1440			4		3	432.0	431.4	430.8
021	8.721 8268		8.722 4308		1.277 5692	9.999 3960		979	4	576.0	575.2	574.4
022	8.721 9704	1436	8.722 5748	1440	1.277 4252	9.999 3956	4	978	5	720.0	719.0	718.0
023	8.722 1140	1436	8.722 7188	1440	1.277 2812	9.999 3952	4	977	6	864.0	862.8	861.6
		1435		1439			4		7	1008.0	1006.6	1005.2
024	8.722 2575		8.722 8627		1.277 1373	9.999 3948		976	8	1152.0	1150.4	1148.8
025	8.722 4010	1435	8.723 0065	1438	1.276 9935	9.999 3944	4	975	9	1296.0	1294.2	1292.4
026	8.722 5444	1434	8.723 1503	1438	1.276 8497	9.999 3940	4	974				
		1433		1438			4			1435	1433	1432
027	8.722 6877		8.723 2941		1.276 7059	9.999 3936		973				
028	8.722 8311	1434	8.723 4378	1437	1.276 5622	9.999 3932	4	972	1	143.5	143.3	143.2
029	8.722 9743	1432	8.723 5815	1437	1.276 4185	9.999 3928	4	971	2	287.0	286.6	286.4
		1432		1436			4		3	430.5	429.9	429.6
.030	8.723 1175		8.723 7251		1.276 2749	9.999 3924		.970	4	574.0	573.2	572.8
		1432		1436			4		5	717.5	716.5	716.0
031	8.723 2607		8.723 8687		1.276 1313	9.999 3920		969	6	861.0	859.8	859.2
032	8.723 4038	1431	8.724 0122	1435	1.275 9878	9.999 3916	4	968	7	1004.5	1003.1	1002.4
033	8.723 5469	1431	8.724 1557	1435	1.275 8443	9.999 3912	4	967	8	1148.0	1146.4	1145.6
		1431		1434			4		9	1291.5	1289.7	1288.8
034	8.723 6900		8.724 2991		1.275 7009	9.999 3908		966				
035	8.723 8329	1429	8.724 4425	1434	1.275 5575	9.999 3904	4	965		1431	1430	1429
036	8.723 9759	1430	8.724 5859	1434	1.275 4141	9.999 3900	4	964				
		1429		1433			4		1	143.1	143.0	142.9
037	8.724 1188		8.724 7292		1.275 2708	9.999 3896		963	2	286.2	286.0	285.8
038	8.724 2616	1428	8.724 8724	1432	1.275 1276	9.999 3892	4	962	3	429.3	429.0	428.7
039	8.724 4044	1428	8.725 0156	1432	1.274 9844	9.999 3888	4	961	4	572.4	572.0	571.6
		1428		1432			4		5	715.5	715.0	714.5
.040	8.724 5472		8.725 1588		1.274 8412	9.999 3884		.960	6	858.6	858.0	857.4
		1427		1431			4		7	1001.7	1001.0	1000.3
041	8.724 6899		8.725 3019		1.274 6981	9.999 3880		959	8	1144.8	1144.0	1143.2
042	8.724 8325	1426	8.725 4449	1430	1.274 5551	9.999 3876	4	958	9	1287.9	1287.0	1286.1
043	8.724 9751	1426	8.725 5879	1430	1.274 4121	9.999 3872	4	957				
		1426		1430			4			1428	1427	1426
044	8.725 1177		8.725 7309		1.274 2691	9.999 3868		956				
045	8.725 2602	1425	8.725 8738	1429	1.274 1262	9.999 3864	4	955	1	142.8	142.7	142.6
046	8.725 4027	1425	8.726 0167	1429	1.273 9833	9.999 3860	4	954	2	285.6	285.4	285.2
		1424		1428			4		3	428.4	428.1	427.8
047	8.725 5451		8.726 1595		1.273 8405	9.999 3856		953	4	571.2	570.8	570.4
048	8.725 6875	1424	8.726 3023	1428	1.273 6977	9.999 3852	4	952	5	714.0	713.5	713.0
049	8.725 8298	1423	8.726 4450	1427	1.273 5550	9.999 3848	4	951	6	856.8	856.2	855.6
		1423		1427			4		7	999.6	998.9	998.2
.050	8.725 9721		8.726 5877		1.273 4123	9.999 3844		.950	8	1142.4	1141.6	1140.8
									9	1285.2	1284.3	1283.4
	cos	d	cotg	d	tang	sin	d	86°				
										1425	1424	1423
									1	142.5	142.4	142.3
									2	285.0	284.8	284.6
									3	427.5	427.2	426.9
									4	570.0	569.6	569.2
									5	712.5	712.0	711.5
									6	855.0	854.4	853.8
									7	997.5	996.8	996.1
									8	1140.0	1139.2	1138.4
									9	1282.5	1281.6	1280.7

$87^\circ.000 - 86^\circ.950$

3°.050 — 3°.100

3°	sin	d	tang	d	cotg	cos	d		P.P.			
.050	8.725 9721		8.726 5877		1.273 4123	9.999 3844		.950				
		1422		1426			4			1426	1424	1422
051	8.726 1143		8.726 7303		1.273 2697	9.999 3840		949	1	142.6	142.4	142.2
052	8.726 2565	1422	8.726 8729	1426	1.273 1271	9.999 3836	4	948	2	285.2	284.8	284.4
053	8.726 3986	1421	8.727 0155	1426	1.272 9845	9.999 3832	4	947	3	427.8	427.2	426.6
		1421		1425			4		4	570.4	569.6	568.8
054	8.726 5407		8.727 1580		1.272 8420	9.999 3828		946	5	713.0	712.0	711.0
055	8.726 6828	1421	8.727 3004	1424	1.272 6996	9.999 3824	4	945	6	855.6	854.4	853.2
056	8.726 8248	1420	8.727 4428	1424	1.272 5572	9.999 3820	4	944	7	998.2	996.8	995.4
		1419		1424			5		8	1140.8	1139.2	1137.6
057	8.726 9667		8.727 5852		1.272 4148	9.999 3815		943	9	1283.4	1281.6	1279.8
058	8.727 1086	1419	8.727 7275	1423	1.272 2725	9.999 3811	4	942				
059	8.727 2505	1419	8.727 8698	1423	1.272 1302	9.999 3807	4	941		1421	1419	1417
		1418		1422			4		1	142.1	141.9	141.7
.060	8.727 3923		8.728 0120		1.271 9880	9.999 3803		.940	2	284.2	283.8	283.4
		1418		1422			4		3	426.3	425.7	425.1
061	8.727 5341		8.728 1542		1.271 8458	9.999 3799		939	4	568.4	567.6	566.8
062	8.727 6758	1417	8.728 2963	1421	1.271 7037	9.999 3795	4	938	5	710.5	709.5	708.5
063	8.727 8175	1417	8.728 4384	1421	1.271 5616	9.999 3791	4	937	6	852.6	851.4	850.2
		1416		1420			4		7	994.7	993.3	991.9
064	8.727 9591		8.728 5804		1.271 4196	9.999 3787		936	8	1136.8	1135.2	1133.6
065	8.728 1007	1416	8.728 7224	1420	1.271 2776	9.999 3783	4	935	9	1278.9	1277.1	1275.3
066	8.728 2422	1415	8.728 8643	1419	1.271 1357	9.999 3779	4	934				
		1415		1419			4			1416	1414	1412
067	8.728 3837		8.729 0062		1.270 9938	9.999 3775		933	1	141.6	141.4	141.2
068	8.728 5252	1415	8.729 1481	1419	1.270 8519	9.999 3771	4	932	2	283.2	282.8	282.4
069	8.728 6666	1414	8.729 2899	1418	1.270 7101	9.999 3767	4	931	3	424.8	424.2	423.6
		1413		1417			4		4	566.4	565.6	564.8
.070	8.728 8079		8.729 4316		1.270 5684	9.999 3763		.930	5	708.0	707.0	706.0
		1413		1418			4		6	849.6	848.4	847.2
071	8.728 9492		8.729 5734		1.270 4266	9.999 3759		929	7	991.2	989.8	988.4
072	8.729 0905	1413	8.729 7150	1416	1.270 2850	9.999 3755	4	928	8	1132.8	1131.2	1129.6
073	8.729 2317	1412	8.729 8566	1416	1.270 1434	9.999 3751	4	927	9	1274.4	1272.6	1270.8
		1412		1416			5					
074	8.729 3729		8.729 9982		1.270 0018	9.999 3746		926		1411	1410	1409
075	8.729 5140	1411	8.730 1397	1415	1.269 8603	9.999 3742	4	925	1	141.1	141.0	140.9
076	8.729 6551	1411	8.730 2812	1415	1.269 7188	9.999 3738	4	924	2	282.2	282.0	281.8
		1410		1415			4		3	423.3	423.0	422.7
077	8.729 7961		8.730 4227		1.269 5773	9.999 3734		923	4	564.4	564.0	563.6
078	8.729 9371	1410	8.730 5641	1414	1.269 4359	9.999 3730	4	922	5	705.5	705.0	704.5
079	8.730 0780	1409	8.730 7054	1413	1.269 2946	9.999 3726	4	921	6	846.6	846.0	845.4
		1409		1413			4		7	987.7	987.0	986.3
.080	8.730 2189		8.730 8467		1.269 1533	9.999 3722		.920	8	1128.8	1128.0	1127.2
		1408		1413			4		9	1269.9	1269.0	1268.1
081	8.730 3597		8.730 9880		1.269 0120	9.999 3718		919				
082	8.730 5005	1408	8.731 1292	1412	1.268 8708	9.999 3714	4	918		1408	1407	1406
083	8.730 6413	1408	8.731 2703	1411	1.268 7297	9.999 3710	4	917	1	140.8	140.7	140.6
		1407		1411			4		2	281.6	281.4	281.2
084	8.730 7820		8.731 4114		1.268 5886	9.999 3706		916	3	422.4	422.1	421.8
085	8.730 9227	1407	8.731 5525	1411	1.268 4475	9.999 3702	4	915	4	563.2	562.8	562.4
086	8.731 0633	1406	8.731 6935	1410	1.268 3065	9.999 3698	4	914	5	704.0	703.5	703.0
		1406		1410			5		6	844.8	844.2	843.6
087	8.731 2039		8.731 8345		1.268 1655	9.999 3693		913	7	985.6	984.9	984.2
088	8.731 3444	1405	8.731 9755	1410	1.268 0245	9.999 3689	4	912	8	1126.4	1125.6	1124.8
089	8.731 4849	1405	8.732 1163	1408	1.267 8837	9.999 3685	4	911	9	1267.2	1266.3	1265.4
		1404		1409			4					
.090	8.731 6253		8.732 2572		1.267 7428	9.999 3681		.910		1405	1404	1403
		1404		1408			4		1	140.5	140.4	140.3
091	8.731 7657		8.732 3980		1.267 6020	9.999 3677		909	2	281.0	280.8	280.6
092	8.731 9060	1403	8.732 5387	1407	1.267 4613	9.999 3673	4	908	3	421.5	421.2	420.9
093	8.732 0463	1403	8.732 6794	1407	1.267 3206	9.999 3669	4	907	4	562.0	561.6	561.2
		1403		1407			4		5	702.5	702.0	701.5
094	8.732 1866		8.732 8201		1.267 1799	9.999 3665		906	6	843.0	842.4	841.8
095	8.732 3268	1402	8.732 9607	1406	1.267 0393	9.999 3661	4	905	7	983.5	982.8	982.1
096	8.732 4670	1402	8.733 1013	1406	1.266 8987	9.999 3657	4	904	8	1124.0	1123.2	1122.4
		1401		1405			5		9	1264.5	1263.6	1262.7
097	8.732 6071		8.733 2418		1.266 7582	9.999 3652		903				
098	8.732 7471	1400	8.733 3823	1405	1.266 6177	9.999 3648	4	902		1402	1401	1400
099	8.732 8872	1401	8.733 5227	1404	1.266 4773	9.999 3644	4	901	1	140.2	140.1	140.0
		1400		1404			4		2	280.4	280.2	280.0
.100	8.733 0272		8.733 6631		1.266 3369	9.999 3640		.900	3	420.6	420.3	420.0
	cos	d	cotg	d	tang	sin	d	86°	P.P.			

	1402	1401	1400
1	140.2	140.1	140.0
2	280.4	280.2	280.0
3	420.6	420.3	420.0
4	560.8	560.4	560.0
5	701.0	700.5	700.0
6	841.2	840.6	840.0
7	981.4	980.7	980.0
8	1121.6	1120.8	1120.0
9	1261.8	1260.9	1260.0

86°.950 — 86°.900

3°.100 — 3°.150

3°	sin	d	tang	d	cotg	cos	d
.100	8.733 0272		8.733 6631		1.266 3369	9.999 3640	
		1399		1404			4
101	8.733 1671		8.733 8035		1.266 1965	9.999 3636	
102	8.733 3070	1399	8.733 9438	1403	1.266 0562	9.999 3632	4
103	8.733 4468	1398	8.734 0840	1402	1.265 9160	9.999 3628	4
		1398		1402			4
104	8.733 5866		8.734 2242		1.265 7758	9.999 3624	
105	8.733 7264	1398	8.734 3644	1402	1.265 6356	9.999 3620	4
106	8.733 8661	1397	8.734 5045	1401	1.265 4955	9.999 3616	4
		1397		1401			5
107	8.734 0058		8.734 6446		1.265 3554	9.999 3611	
108	8.734 1454	1396	8.734 7846	1400	1.265 2154	9.999 3607	4
109	8.734 2849	1395	8.734 9246	1400	1.265 0754	9.999 3603	4
		1396		1400			4
.110	8.734 4245		8.735 0646		1.264 9354	9.999 3599	
		1395		1399			4
111	8.734 5640		8.735 2045		1.264 7955	9.999 3595	
112	8.734 7034	1394	8.735 3443	1398	1.264 6557	9.999 3591	4
113	8.734 8428	1394	8.735 4841	1398	1.264 5159	9.999 3587	4
		1393		1398			4
114	8.734 9821		8.735 6239		1.264 3761	9.999 3583	
115	8.735 1215	1394	8.735 7636	1397	1.264 2364	9.999 3578	5
116	8.735 2607	1392	8.735 9033	1397	1.264 0967	9.999 3574	4
		1392		1396			4
117	8.735 3999		8.736 0429		1.263 9571	9.999 3570	
118	8.735 5391	1392	8.736 1825	1396	1.263 8175	9.999 3566	4
119	8.735 6782	1391	8.736 3220	1395	1.263 6780	9.999 3562	4
		1391		1395			4
.120	8.735 8173		8.736 4615		1.263 5385	9.999 3558	
		1390		1395			4
121	8.735 9563		8.736 6010		1.263 3990	9.999 3554	
122	8.736 0953	1390	8.736 7404	1394	1.263 2596	9.999 3550	4
123	8.736 2343	1390	8.736 8797	1393	1.263 1203	9.999 3545	5
		1389		1394			4
124	8.736 3732		8.737 0191		1.262 9809	9.999 3541	
125	8.736 5120	1388	8.737 1583	1392	1.262 8417	9.999 3537	4
126	8.736 6509	1389	8.737 2976	1393	1.262 7024	9.999 3533	4
		1387		1391			4
127	8.736 7896		8.737 4367		1.262 5633	9.999 3529	
128	8.736 9284	1388	8.737 5759	1392	1.262 4241	9.999 3525	4
129	8.737 0670	1386	8.737 7150	1391	1.262 2850	9.999 3521	4
		1387		1390			5
.130	8.737 2057		8.737 8540		1.262 1460	9.999 3516	
		1386		1390			4
131	8.737 3443		8.737 9930		1.262 0070	9.999 3512	
132	8.737 4828	1385	8.738 1320	1390	1.261 8680	9.999 3508	4
133	8.737 6213	1385	8.738 2709	1389	1.261 7291	9.999 3504	4
		1385		1389			4
134	8.737 7598		8.738 4098		1.261 5902	9.999 3500	
135	8.737 8982	1384	8.738 5486	1388	1.261 4514	9.999 3496	4
136	8.738 0366	1384	8.738 6874	1388	1.261 3126	9.999 3492	4
		1383		1387			5
137	8.738 1749		8.738 8261		1.261 1739	9.999 3487	
138	8.738 3132	1383	8.738 9648	1387	1.261 0352	9.999 3483	4
139	8.738 4514	1382	8.739 1035	1387	1.260 8965	9.999 3479	4
		1382		1386			4
.140	8.738 5896		8.739 2421		1.260 7579	9.999 3475	
		1381		1386			4
141	8.738 7277		8.739 3807		1.260 6193	9.999 3471	
142	8.738 8659	1382	8.739 5192	1385	1.260 4808	9.999 3467	4
143	8.739 0039	1380	8.739 6577	1385	1.260 3423	9.999 3462	5
		1380		1384			4
144	8.739 1419		8.739 7961		1.260 2039	9.999 3458	
145	8.739 2799	1380	8.739 9345	1384	1.260 0655	9.999 3454	4
146	8.739 4178	1379	8.740 0728	1383	1.259 9272	9.999 3450	4
		1379		1383			4
147	8.739 5557		8.740 2111		1.259 7889	9.999 3446	
148	8.739 6936	1379	8.740 3494	1383	1.259 6506	9.999 3442	4
149	8.739 8314	1378	8.740 4876	1382	1.259 5124	9.999 3437	5
		1377		1382			4
.150	8.739 9691		8.740 6258		1.259 3742	9.999 3433	
	cos	d	cotg	d	tang	sin	d

	P.P.		
.900			
	1404	1402	1400
899			
1	140.4	140.2	140.0
898			
2	280.8	280.4	280.0
897			
3	421.2	420.6	420.0
4	561.6	560.8	560.0
896			
5	702.0	701.0	700.0
6	842.4	841.2	840.0
895			
7	982.8	981.4	980.0
894			
8	1123.2	1121.6	1120.0
9	1263.6	1261.8	1260.0
893			
	1399	1397	1395
892			
1	139.9	139.7	139.5
891			
2	279.8	279.4	279.0
.890			
3	419.7	419.1	418.5
4	559.6	558.8	558.0
889			
5	699.5	698.5	697.5
6	839.4	838.2	837.0
888			
7	979.3	977.9	976.5
887			
8	1119.2	1117.6	1116.0
9	1259.1	1257.3	1255.5
886			
	1394	1392	1390
885			
1	139.4	139.2	139.0
884			
2	278.8	278.4	278.0
883			
3	418.2	417.6	417.0
882			
4	557.6	556.8	556.0
5	697.0	696.0	695.0
881			
6	836.4	835.2	834.0
7	975.8	974.4	973.0
.880			
8	1115.2	1113.6	1112.0
9	1254.6	1252.8	1251.0
879			
	1389	1387	1386
878			
1	138.9	138.7	138.6
877			
2	277.8	277.4	277.2
876			
3	416.7	416.1	415.8
4	555.6	554.8	554.4
875			
5	694.5	693.5	693.0
874			
6	833.4	832.2	831.6
7	972.3	970.9	970.2
873			
8	1111.2	1109.6	1108.8
872			
9	1250.1	1248.3	1247.4
871			
	1385	1384	1383
.870			
1	138.5	138.4	138.3
2	277.0	276.8	276.6
869			
3	415.5	415.2	414.9
868			
4	554.0	553.6	553.2
5	692.5	692.0	691.5
867			
6	831.0	830.4	829.8
7	969.5	968.8	968.1
866			
8	1108.0	1107.2	1106.4
865			
9	1246.5	1245.6	1244.7
864			
	1382	1381	1380
863			
1	138.2	138.1	138.0
862			
2	276.4	276.2	276.0
861			
3	414.6	414.3	414.0
4	552.8	552.4	552.0
.860			
5	691.0	690.5	690.0
6	829.2	828.6	828.0
7	967.4	966.7	966.0
859			
8	1105.6	1104.8	1104.0
858			
9	1243.8	1242.9	1242.0
857			
	1379	1378	1377
856			
1	137.9	137.8	137.7
855			
2	275.8	275.6	275.4
854			
3	413.7	413.4	413.1
4	551.6	551.2	550.8
853			
5	689.5	689.0	688.5
6	827.4	826.8	826.2
852			
7	965.3	964.6	963.9
8	1103.2	1102.4	1101.6
851			
9	1241.1	1240.2	1239.3
.850			
86°	P.P.		

86°.900 — 86°.850

$3^\circ.150 - 3^\circ.200$

3°	sin	d	tang	d	cotg	cos	d
.150	8.739 9691		8.740 6258		1.259 3742	9.999 3433	
		1377		1381			4
151	8.740 1068		8.740 7639		1.259 2361	9.999 3429	
152	8.740 2445	1377	8.740 9020	1381	1.259 0980	9.999 3425	4
153	8.740 3821	1376	8.741 0400	1380	1.258 9600	9.999 3421	4
		1376		1380			4
154	8.740 5197		8.741 1780		1.258 8220	9.999 3417	
155	8.740 6572	1375	8.741 3160	1380	1.258 6840	9.999 3412	5
156	8.740 7947	1375	8.741 4539	1379	1.258 5461	9.999 3408	4
		1375		1379			4
157	8.740 9322		8.741 5918		1.258 4082	9.999 3404	
158	8.741 0696	1374	8.741 7296	1378	1.258 2704	9.999 3400	4
159	8.741 2069	1373	8.741 8674	1378	1.258 1326	9.999 3396	4
		1374		1377			5
.160	8.741 3443		8.742 0051		1.257 9949	9.999 3391	
		1372		1377			4
161	8.741 4815		8.742 1428		1.257 8572	9.999 3387	
162	8.741 6188	1373	8.742 2804	1376	1.257 7196	9.999 3383	4
163	8.741 7559	1371	8.742 4181	1377	1.257 5819	9.999 3379	4
		1372		1375			4
164	8.741 8931		8.742 5556		1.257 4444	9.999 3375	
165	8.742 0302	1371	8.742 6931	1375	1.257 3069	9.999 3371	4
166	8.742 1672	1370	8.742 8306	1375	1.257 1694	9.999 3366	5
		1371		1374			4
167	8.742 3043		8.742 9680		1.257 0320	9.999 3362	
168	8.742 4412	1369	8.743 1054	1374	1.256 8946	9.999 3358	4
169	8.742 5782	1370	8.743 2428	1374	1.256 7572	9.999 3354	4
		1368		1373			4
.170	8.742 7150		8.743 3801		1.256 6199	9.999 3350	
		1369		1372			5
171	8.742 8519		8.743 5173		1.256 4827	9.999 3345	
172	8.742 9887	1368	8.743 6546	1373	1.256 3454	9.999 3341	4
173	8.743 1254	1367	8.743 7917	1371	1.256 2083	9.999 3337	4
		1367		1372			4
174	8.743 2621		8.743 9289		1.256 0711	9.999 3333	
175	8.743 3988	1367	8.744 0660	1371	1.255 9340	9.999 3329	4
176	8.743 5354	1366	8.744 2030	1370	1.255 7970	9.999 3324	5
		1366		1370			4
177	8.743 6720		8.744 3400		1.255 6600	9.999 3320	
178	8.743 8086	1366	8.744 4770	1370	1.255 5230	9.999 3316	4
179	8.743 9450	1364	8.744 6139	1369	1.255 3861	9.999 3312	4
		1365		1368			4
.180	8.744 0815		8.744 7507		1.255 2493	9.999 3308	
		1364		1369			5
181	8.744 2179		8.744 8876		1.255 1124	9.999 3303	
182	8.744 3543	1364	8.745 0244	1368	1.254 9756	9.999 3299	4
183	8.744 4906	1363	8.745 1611	1367	1.254 8389	9.999 3295	4
		1363		1367			4
184	8.744 6269		8.745 2978		1.254 7022	9.999 3291	
185	8.744 7631	1362	8.745 4345	1367	1.254 5655	9.999 3286	5
186	8.744 8993	1362	8.745 5711	1366	1.254 4289	9.999 3282	4
		1362		1366			4
187	8.745 0355		8.745 7077		1.254 2923	9.999 3278	
188	8.745 1716	1361	8.745 8442	1365	1.254 1558	9.999 3274	4
189	8.745 3076	1360	8.745 9807	1365	1.254 0193	9.999 3270	4
		1361		1364			5
.190	8.745 4437		8.746 1171		1.253 8829	9.999 3265	
		1359		1364			4
191	8.745 5796		8.746 2535		1.253 7465	9.999 3261	
192	8.745 7156	1360	8.746 3899	1364	1.253 6101	9.999 3257	4
193	8.745 8515	1359	8.746 5262	1363	1.253 4738	9.999 3253	4
		1358		1363			5
194	8.745 9873		8.746 6625		1.253 3375	9.999 3248	
195	8.746 1231	1358	8.746 7987	1362	1.253 2013	9.999 3244	4
196	8.746 2589	1358	8.746 9349	1362	1.253 0651	9.999 3240	4
		1357		1361			4
197	8.746 3946		8.747 0710		1.252 9290	9.999 3236	
198	8.746 5303	1357	8.747 2072	1362	1.252 7928	9.999 3232	4
199	8.746 6659	1356	8.747 3432	1360	1.252 6568	9.999 3227	5
		1356		1360			4
.200	8.746 8015		8.747 4792		1.252 5208	9.999 3223	
	cos	d	cotg	d	tang	sin	d

.850	P.P.		
	1381	1379	1377
849			
848	1 138.1	137.9	137.7
847	2 276.2	275.8	275.4
	3 414.3	413.7	413.1
846	4 552.4	551.6	550.8
845	5 690.5	689.5	688.5
844	6 828.6	827.4	826.2
843	7 966.7	965.3	963.9
842	8 1104.8	1103.2	1101.6
841	9 1242.9	1241.1	1239.3
	1376	1374	1372
.840	1 137.6	137.4	137.2
	2 275.2	274.8	274.4
839	3 412.8	412.2	411.6
838	4 550.4	549.6	548.8
837	5 688.0	687.0	686.0
836	6 825.6	824.4	823.2
835	7 963.2	961.8	960.4
834	8 1100.8	1099.2	1097.6
	9 1238.4	1236.6	1234.8
833	1371	1369	1368
832	1 137.1	136.9	136.8
831	2 274.2	273.8	273.6
.830	3 411.3	410.7	410.4
829	4 548.4	547.6	547.2
828	5 685.5	684.5	684.0
827	6 822.6	821.4	820.8
826	7 959.7	958.3	957.6
825	8 1096.8	1095.2	1094.4
824	9 1233.9	1232.1	1231.2
823	1367	1366	1365
822	1 136.7	136.6	136.5
821	2 273.4	273.2	273.0
.820	3 410.1	409.8	409.5
819	4 546.8	546.4	546.0
818	5 683.5	683.0	682.5
817	6 820.2	819.6	819.0
816	7 956.9	956.2	955.5
815	8 1093.6	1092.8	1092.0
814	9 1230.3	1229.4	1228.5
813	1364	1363	1362
812	1 136.4	136.3	136.2
811	2 272.8	272.6	272.4
.810	3 409.2	408.9	408.6
809	4 545.6	545.2	544.8
808	5 682.0	681.5	681.0
807	6 818.4	817.8	817.2
806	7 954.8	954.1	953.4
805	8 1091.2	1090.4	1089.6
804	9 1227.6	1226.7	1225.8
803	1361	1360	1359
802	1 136.1	136.0	135.9
801	2 272.2	272.0	271.8
.800	3 408.3	408.0	407.7
	4 544.4	544.0	543.6
	5 680.5	680.0	679.5
	6 816.6	816.0	815.4
	7 952.7	952.0	951.3
	8 1088.8	1088.0	1087.2
	9 1224.9	1224.0	1223.1
	1358	1357	1356
	1 135.8	135.7	135.6
	2 271.6	271.4	271.2
	3 407.4	407.1	406.8
	4 543.2	542.8	542.4
	5 679.0	678.5	678.0
	6 814.8	814.2	813.6
	7 950.6	949.9	949.2
	8 1086.4	1085.6	1084.8
	9 1222.2	1221.3	1220.4

86°	P.P.

$86^\circ.850 - 86^\circ.800$

$3^\circ.200 - 3^\circ.250$

3°	sin	d	tang	d	cotg	cos	d	
.200	8.746 8015		8.747 4792		1.252 5208	9.999 3223		**.800**
		1356		1360			4	
201	8.746 9371		8.747 6152		1.252 3848	9.999 3219		799
202	8.747 0726	1355	8.747 7512	1360	1.252 2488	9.999 3215	4	798
203	8.747 2081	1355	8.747 8870	1358	1.252 1130	9.999 3210	5	797
		1354		1359			4	
204	8.747 3435		8.748 0229		1.251 9771	9.999 3206		796
205	8.747 4789	1354	8.748 1587	1358	1.251 8413	9.999 3202	4	795
206	8.747 6142	1353	8.748 2945	1358	1.251 7055	9.999 3198	4	794
		1353		1357			5	
207	8.747 7495		8.748 4302		1.251 5698	9.999 3193		793
208	8.747 8848	1353	8.748 5659	1357	1.251 4341	9.999 3189	4	792
209	8.748 0200	1352	8.748 7015	1356	1.251 2985	9.999 3185	4	791
		1352		1356			4	
.210	8.748 1552		8.748 8371		1.251 1629	9.999 3181		**.790**
		1351		1356			5	
211	8.748 2903		8.748 9727		1.251 0273	9.999 3176		789
212	8.748 4254	1351	8.749 1082	1355	1.250 8918	9.999 3172	4	788
213	8.748 5604	1350	8.749 2437	1355	1.250 7563	9.999 3168	4	787
		1351		1354			4	
214	8.748 6955		8.749 3791		1.250 6209	9.999 3164		786
215	8.748 8304	1349	8.749 5145	1354	1.250 4855	9.999 3159	5	785
216	8.748 9653	1349	8.749 6498	1353	1.250 3502	9.999 3155	4	784
		1349		1353			4	
217	8.749 1002		8.749 7851		1.250 2149	9.999 3151		783
218	8.749 2351	1349	8.749 9204	1353	1.250 0796	9.999 3147	4	782
219	8.749 3698	1347	8.750 0556	1352	1.249 9444	9.999 3142	5	781
		1348		1352			4	
.220	8.749 5046		8.750 1908		1.249 8092	9.999 3138		**.780**
		1347		1351			4	
221	8.749 6393		8.750 3259		1.249 6741	9.999 3134		779
222	8.749 7740	1347	8.750 4610	1351	1.249 5390	9.999 3129	5	778
223	8.749 9086	1346	8.750 5961	1351	1.249 4039	9.999 3125	4	777
		1346		1350			4	
224	8.750 0432		8.750 7311		1.249 2689	9.999 3121		776
225	8.750 1777	1345	8.750 8661	1350	1.249 1339	9.999 3117	4	775
226	8.750 3122	1345	8.751 0010	1349	1.248 9990	9.999 3112	5	774
		1345		1349			4	
227	8.750 4467		8.751 1359		1.248 8641	9.999 3108		773
228	8.750 5811	1344	8.751 2707	1348	1.248 7293	9.999 3104	4	772
229	8.750 7155	1344	8.751 4055	1348	1.248 5945	9.999 3100	4	771
		1343		1348			5	
.230	8.750 8498		8.751 5403		1.248 4597	9.999 3095		**.770**
		1343		1347			4	
231	8.750 9841		8.751 6750		1.248 3250	9.999 3091		769
232	8.751 1184	1343	8.751 8097	1347	1.248 1903	9.999 3087	4	768
233	8.751 2526	1342	8.751 9443	1346	1.248 0557	9.999 3082	5	767
		1342		1346			4	
234	8.751 3868		8.752 0789		1.247 9211	9.999 3078		766
235	8.751 5209	1341	8.752 2135	1346	1.247 7865	9.999 3074	4	765
236	8.751 6550	1341	8.752 3480	1345	1.247 6520	9.999 3070	4	764
		1340		1345			5	
237	8.751 7890		8.752 4825		1.247 5175	9.999 3065		763
238	8.751 9230	1340	8.752 6169	1344	1.247 3831	9.999 3061	4	762
239	8.752 0570	1340	8.752 7513	1344	1.247 2487	9.999 3057	4	761
		1339		1343			5	
.240	8.752 1909		8.752 8856		1.247 1144	9.999 3052		**.760**
		1339		1344			4	
241	8.752 3248		8.753 0200		1.246 9800	9.999 3048		759
242	8.752 4586	1338	8.753 1542	1342	1.246 8458	9.999 3044	4	758
243	8.752 5924	1338	8.753 2884	1342	1.246 7116	9.999 3040	4	757
		1338		1342			5	
244	8.752 7262		8.753 4226		1.246 5774	9.999 3035		756
245	8.752 8599	1337	8.753 5568	1342	1.246 4432	9.999 3031	4	755
246	8.752 9935	1336	8.753 6909	1341	1.246 3091	9.999 3027	4	754
		1337		1340			5	
247	8.753 1272		8.753 8249		1.246 1751	9.999 3022		753
248	8.753 2608	1336	8.753 9589	1340	1.246 0411	9.999 3018	4	752
249	8.753 3943	1335	8.754 0929	1340	1.245 9071	9.999 3014	4	751
		1335		1340			5	
.250	8.753 5278		8.754 2269		1.245 7731	9.999 3009		**.750**
	cos	d	cotg	d	tang	sin	d	86°

P.P.

	1360	1358	1356
1	136.0	135.8	135.6
2	272.0	271.6	271.2
3	408.0	407.4	406.8
4	544.0	543.2	542.4
5	680.0	679.0	678.0
6	816.0	814.8	813.6
7	952.0	950.6	949.2
8	1088.0	1086.4	1084.8
9	1224.0	1222.2	1220.4

	1355	1353	1351
1	135.5	135.3	135.1
2	271.0	270.6	270.2
3	406.5	405.9	405.3
4	542.0	541.2	540.4
5	677.5	676.5	675.5
6	813.0	811.8	810.6
7	948.5	947.1	945.7
8	1084.0	1082.4	1080.8
9	1219.5	1217.7	1215.9

	1350	1348	1347
1	135.0	134.8	134.7
2	270.0	269.6	269.4
3	405.0	404.4	404.1
4	540.0	539.2	538.8
5	675.0	674.0	673.5
6	810.0	808.8	808.2
7	945.0	943.6	942.9
8	1080.0	1078.4	1077.6
9	1215.0	1213.2	1212.3

	1346	1345	1344
1	134.6	134.5	134.4
2	269.2	269.0	268.8
3	403.8	403.5	403.2
4	538.4	538.0	537.6
5	673.0	672.5	672.0
6	807.6	807.0	806.4
7	942.2	941.5	940.8
8	1076.8	1076.0	1075.2
9	1211.4	1210.5	1209.6

	1343	1342	1341
1	134.3	134.2	134.1
2	268.6	268.4	268.2
3	402.9	402.6	402.3
4	537.2	536.8	536.4
5	671.5	671.0	670.5
6	805.8	805.2	804.6
7	940.1	939.4	938.7
8	1074.4	1073.6	1072.8
9	1208.7	1207.8	1206.9

	1340	1339	1338
1	134.0	133.9	133.8
2	268.0	267.8	267.6
3	402.0	401.7	401.4
4	536.0	535.6	535.2
5	670.0	669.5	669.0
6	804.0	803.4	802.8
7	938.0	937.3	936.6
8	1072.0	1071.2	1070.4
9	1206.0	1205.1	1204.2

	1337	1336	1335
1	133.7	133.6	133.5
2	267.4	267.2	267.0
3	401.1	400.8	400.5
4	534.8	534.4	534.0
5	668.5	668.0	667.5
6	802.2	801.6	801.0
7	935.9	935.2	934.5
8	1069.6	1068.8	1068.0
9	1203.3	1202.4	1201.5

$86^\circ.800 - 86^\circ.750$

$3^\circ.250 - 3^\circ.300$

3°	sin	d	tang	d	cotg	cos	d
.250	8.753 5278		8.754 2269		1.245 7731	9.999 3009	
		1335		1339			4
251	8.753 6613		8.754 3608		1.245 6392	9.999 3005	
252	8.753 7947	1334	8.754 4946	1338	1.245 5054	9.999 3001	4
253	8.753 9281	1334	8.754 6284	1338	1.245 3716	9.999 2997	4
		1333		1338			5
254	8.754 0614		8.754 7622		1.245 2378	9.999 2992	
255	8.754 1947	1333	8.754 8959	1337	1.245 1041	9.999 2988	4
256	8.754 3280	1333	8.755 0296	1337	1.244 9704	9.999 2984	4
		1332		1337			5
257	8.754 4612		8.755 1633		1.244 8367	9.999 2979	
258	8.754 5944	1332	8.755 2969	1336	1.244 7031	9.999 2975	4
259	8.754 7275	1331	8.755 4304	1335	1.244 5696	9.999 2971	4
		1331		1336			5
.260	8.754 8606		8.755 5640		1.244 4360	9.999 2966	
		1331		1335			4
261	8.754 9937		8.755 6975		1.244 3025	9.999 2962	
262	8.755 1267	1330	8.755 8309	1334	1.244 1691	9.999 2958	4
263	8.755 2597	1330	8.755 9643	1334	1.244 0357	9.999 2953	5
		1329		1334			4
264	8.755 3926		8.756 0977		1.243 9023	9.999 2949	
265	8.755 5255	1329	8.756 2310	1333	1.243 7690	9.999 2945	4
266	8.755 6583	1328	8.756 3643	1333	1.243 6357	9.999 2940	5
		1328		1332			4
267	8.755 7911		8.756 4975		1.243 5025	9.999 2936	
268	8.755 9239	1328	8.756 6307	1332	1.243 3693	9.999 2932	4
269	8.756 0566	1327	8.756 7639	1332	1.243 2361	9.999 2927	5
		1327		1331			4
.270	8.756 1893		8.756 8970		1.243 1030	9.999 2923	
		1327		1331			4
271	8.756 3220		8.757 0301		1.242 9699	9.999 2919	
272	8.756 4546	1326	8.757 1631	1330	1.242 8369	9.999 2914	5
273	8.756 5871	1325	8.757 2961	1330	1.242 7039	9.999 2910	4
		1326		1330			4
274	8.756 7197		8.757 4291		1.242 5709	9.999 2906	
275	8.756 8522	1325	8.757 5620	1329	1.242 4380	9.999 2901	5
276	8.756 9846	1324	8.757 6949	1329	1.242 3051	9.999 2897	4
		1324		1328			4
277	8.757 1170		8.757 8277		1.242 1723	9.999 2893	
278	8.757 2494	1324	8.757 9605	1328	1.242 0395	9.999 2888	5
279	8.757 3817	1323	8.758 0933	1328	1.241 9067	9.999 2884	4
		1323		1327			4
.280	8.757 5140		8.758 2260		1.241 7740	9.999 2880	
		1322		1327			5
281	8.757 6462		8.758 3587		1.241 6413	9.999 2875	
282	8.757 7784	1322	8.758 4913	1326	1.241 5087	9.999 2871	4
283	8.757 9106	1322	8.758 6239	1326	1.241 3761	9.999 2867	4
		1321		1326			5
284	8.758 0427		8.758 7565		1.241 2435	9.999 2862	
285	8.758 1748	1321	8.758 8890	1325	1.241 1110	9.999 2858	4
286	8.758 3068	1320	8.759 0215	1325	1.240 9785	9.999 2854	4
		1320		1324			5
287	8.758 4388		8.759 1539		1.240 8461	9.999 2849	
288	8.758 5708	1320	8.759 2863	1324	1.240 7137	9.999 2845	4
289	8.758 7027	1319	8.759 4186	1323	1.240 5814	9.999 2841	4
		1319		1324			5
.290	8.758 8346		8.759 5510		1.240 4490	9.999 2836	
		1318		1322			4
291	8.758 9664		8.759 6832		1.240 3168	9.999 2832	
292	8.759 0982	1318	8.759 8155	1323	1.240 1845	9.999 2828	4
293	8.759 2300	1318	8.759 9477	1322	1.240 0523	9.999 2823	5
		1317		1321			4
294	8.759 3617		8.760 0798		1.239 9202	9.999 2819	
295	8.759 4934	1317	8.760 2119	1321	1.239 7881	9.999 2814	5
296	8.759 6250	1316	8.760 3440	1321	1.239 6560	9.999 2810	4
		1316		1320			4
297	8.759 7566		8.760 4760		1.239 5240	9.999 2806	
298	8.759 8882	1316	8.760 6080	1320	1.239 3920	9.999 2801	5
299	8.760 0197	1315	8.760 7400	1320	1.239 2600	9.999 2797	4
		1315		1319			4
.300	8.760 1512		8.760 8719		1.239 1281	9.999 2793	
	cos	d	cotg	d	tang	sin	d

	P.P.		
.750			
	1339	1337	1335
749			
1	133.9	133.7	133.5
748			
2	267.8	267.4	267.0
747			
3	401.7	401.1	400.5
746			
4	535.6	534.8	534.0
745			
5	669.5	668.5	667.5
744			
6	803.4	802.2	801.0
743			
7	937.3	935.9	934.5
742			
8	1071.2	1069.6	1068.0
741			
9	1205.1	1203.3	1201.5
	1334	1332	1330
1	133.4	133.2	133.0
2	266.8	266.4	266.0
.740			
3	400.2	399.6	399.0
739			
4	533.6	532.8	532.0
738			
5	667.0	666.0	665.0
737			
6	800.4	799.2	798.0
736			
7	933.8	932.4	931.0
735			
8	1067.2	1065.6	1064.0
734			
9	1200.6	1198.8	1197.0
	1329	1328	1327
1	132.9	132.8	132.7
733			
2	265.8	265.6	265.4
732			
3	398.7	398.4	398.1
731			
4	531.6	531.2	530.8
.730			
5	664.5	664.0	663.5
729			
6	797.4	796.8	796.2
728			
7	930.3	929.6	928.9
727			
8	1063.2	1062.4	1061.6
726			
9	1196.1	1195.2	1194.3
	1326	1325	1324
1	132.6	132.5	132.4
725			
2	265.2	265.0	264.8
724			
3	397.8	397.5	397.2
723			
4	530.4	530.0	529.6
722			
5	663.0	662.5	662.0
721			
6	795.6	795.0	794.4
.720			
7	928.2	927.5	926.8
719			
8	1060.8	1060.0	1059.2
718			
9	1193.4	1192.5	1191.6
	1323	1322	1321
1	132.3	132.2	132.1
717			
2	264.6	264.4	264.2
716			
3	396.9	396.6	396.3
715			
4	529.2	528.8	528.4
714			
5	661.5	661.0	660.5
713			
6	793.8	793.2	792.6
712			
7	926.1	925.4	924.7
711			
8	1058.4	1057.6	1056.8
710			
9	1190.7	1189.8	1188.9
	1320	1319	1318
1	132.0	131.9	131.8
709			
2	264.0	263.8	263.6
708			
3	396.0	395.7	395.4
707			
4	528.0	527.6	527.2
706			
5	660.0	659.5	659.0
705			
6	792.0	791.4	790.8
704			
7	924.0	923.3	922.6
703			
8	1056.0	1055.2	1054.4
702			
9	1188.0	1187.1	1186.2
	1317	1316	1315
1	131.7	131.6	131.5
701			
2	263.4	263.2	263.0
.700			
3	395.1	394.8	394.5
86°			
4	526.8	526.4	526.0
P.P.			
5	658.5	658.0	657.5
6	790.2	789.6	789.0
7	921.9	921.2	920.5
8	1053.6	1052.8	1052.0
9	1185.3	1184.4	1183.5

$86^\circ.750 - 86^\circ.700$

$3^\circ.300 - 3^\circ.350$

3°	sin	d	tang	d	cotg	cos	d	
.300	8.760 1512		8.760 8719		1.239 1281	9.999 2793		**.700**
301	8.760 2826	1314	8.761 0038	1319	1.238 9962	9.999 2788	5	699
302	8.760 4140	1314	8.761 1356	1318	1.238 8644	9.999 2784	4	698
303	8.760 5454	1314	8.761 2674	1318	1.238 7326	9.999 2780	4	697
304	8.760 6767	1313	8.761 3992	1318	1.238 6008	9.999 2775	5	696
305	8.760 8080	1313	8.761 5309	1317	1.238 4691	9.999 2771	4	695
306	8.760 9392	1312	8.761 6626	1317	1.238 3374	9.999 2766	5	694
307	8.761 0704	1312	8.761 7942	1316	1.238 2058	9.999 2762	4	693
308	8.761 2016	1312	8.761 9258	1316	1.238 0742	9.999 2758	4	692
309	8.761 3327	1311	8.762 0574	1316	1.237 9426	9.999 2753	5	691
.310	8.761 4638	1311	8.762 1889	1315	1.237 8111	9.999 2749	4	**.690**
311	8.761 5948	1310	8.762 3204	1315	1.237 6796	9.999 2744	5	689
312	8.761 7258	1310	8.762 4518	1314	1.237 5482	9.999 2740	4	688
313	8.761 8568	1310	8.762 5832	1314	1.237 4168	9.999 2736	4	687
314	8.761 9877	1309	8.762 7146	1314	1.237 2854	9.999 2731	5	686
315	8.762 1186	1309	8.762 8459	1313	1.237 1541	9.999 2727	4	685
316	8.762 2494	1308	8.762 9772	1313	1.237 0228	9.999 2723	4	684
317	8.762 3802	1308	8.763 1084	1312	1.236 8916	9.999 2718	5	683
318	8.762 5110	1308	8.763 2396	1312	1.236 7604	9.999 2714	4	682
319	8.762 6417	1307	8.763 3708	1312	1.236 6292	9.999 2709	5	681
.320	8.762 7724	1307	8.763 5019	1311	1.236 4981	9.999 2705	4	**.680**
321	8.762 9030	1306	8.763 6330	1311	1.236 3670	9.999 2701	4	679
322	8.763 0336	1306	8.763 7640	1310	1.236 2360	9.999 2696	5	678
323	8.763 1642	1306	8.763 8950	1310	1.236 1050	9.999 2692	4	677
324	8.763 2947	1305	8.764 0260	1310	1.235 9740	9.999 2687	5	676
325	8.763 4252	1305	8.764 1569	1309	1.235 8431	9.999 2683	4	675
326	8.763 5557	1305	8.764 2878	1309	1.235 7122	9.999 2679	4	674
327	8.763 6861	1304	8.764 4187	1309	1.235 5813	9.999 2674	5	673
328	8.763 8165	1304	8.764 5495	1308	1.235 4505	9.999 2670	4	672
329	8.763 9468	1303	8.764 6803	1308	1.235 3197	9.999 2665	5	671
.330	8.764 0771	1303	8.764 8110	1307	1.235 1890	9.999 2661	4	**.670**
331	8.764 2073	1302	8.764 9417	1307	1.235 0583	9.999 2656	5	669
332	8.764 3375	1302	8.765 0723	1306	1.234 9277	9.999 2652	4	668
333	8.764 4677	1302	8.765 2029	1306	1.234 7971	9.999 2648	4	667
334	8.764 5978	1301	8.765 3335	1306	1.234 6665	9.999 2643	5	666
335	8.764 7279	1301	8.765 4641	1306	1.234 5359	9.999 2639	4	665
336	8.764 8580	1301	8.765 5946	1305	1.234 4054	9.999 2634	5	664
337	8.764 9880	1300	8.765 7250	1304	1.234 2750	9.999 2630	4	663
338	8.765 1180	1300	8.765 8554	1304	1.234 1446	9.999 2626	4	662
339	8.765 2479	1299	8.765 9858	1304	1.234 0142	9.999 2621	5	661
.340	8.765 3778	1299	8.766 1162	1304	1.233 8838	9.999 2617	4	**.660**
341	8.765 5077	1299	8.766 2465	1303	1.233 7535	9.999 2612	5	659
342	8.765 6375	1298	8.766 3767	1302	1.233 6233	9.999 2608	4	658
343	8.765 7673	1298	8.766 5070	1303	1.233 4930	9.999 2603	5	657
344	8.765 8970	1297	8.766 6371	1301	1.233 3629	9.999 2599	4	656
345	8.766 0268	1298	8.766 7673	1302	1.233 2327	9.999 2595	4	655
346	8.766 1564	1296	8.766 8974	1301	1.233 1026	9.999 2590	5	654
347	8.766 2861	1297	8.767 0275	1301	1.232 9725	9.999 2586	4	653
348	8.766 4156	1295	8.767 1575	1300	1.232 8425	9.999 2581	5	652
349	8.766 5452	1296	8.767 2875	1300	1.232 7125	9.999 2577	4	651
.350	8.766 6747	1295	8.767 4175	1300	1.232 5825	9.999 2572	5	**.650**
	cos	d	cotg	d	tang	sin	d	86°

P.P.

	1319	1317	1315
1	131.9	131.7	131.5
2	263.8	263.4	263.0
3	395.7	395.1	394.5
4	527.6	526.8	526.0
5	659.5	658.5	657.5
6	791.4	790.2	789.0
7	923.3	921.9	920.5
8	1055.2	1053.6	1052.0
9	1187.1	1185.3	1183.5

	1314	1312	1310
1	131.4	131.2	131.0
2	262.8	262.4	262.0
3	394.2	393.6	393.0
4	525.6	524.8	524.0
5	657.0	656.0	655.0
6	788.4	787.2	786.0
7	919.8	918.4	917.0
8	1051.2	1049.6	1048.0
9	1182.6	1180.8	1179.0

	1309	1308	1307
1	130.9	130.8	130.7
2	261.8	261.6	261.4
3	392.7	392.4	392.1
4	523.6	523.2	522.8
5	654.5	654.0	653.5
6	785.4	784.8	784.2
7	916.3	915.6	914.9
8	1047.2	1046.4	1045.6
9	1178.1	1177.2	1176.3

	1306	1305	1304
1	130.6	130.5	130.4
2	261.2	261.0	260.8
3	391.8	391.5	391.2
4	522.4	522.0	521.6
5	653.0	652.5	652.0
6	783.6	783.0	782.4
7	914.2	913.5	912.8
8	1044.8	1044.0	1043.2
9	1175.4	1174.5	1173.6

	1303	1302	1301
1	130.3	130.2	130.1
2	260.6	260.4	260.2
3	390.9	390.6	390.3
4	521.2	520.8	520.4
5	651.5	651.0	650.5
6	781.8	781.2	780.6
7	912.1	911.4	910.7
8	1042.4	1041.6	1040.8
9	1172.7	1171.8	1170.9

	1300	1299	1298
1	130.0	129.9	129.8
2	260.0	259.8	259.6
3	390.0	389.7	389.4
4	520.0	519.6	519.2
5	650.0	649.5	649.0
6	780.0	779.4	778.8
7	910.0	909.3	908.6
8	1040.0	1039.2	1038.4
9	1170.0	1169.1	1168.2

	1297	1296	1295
1	129.7	129.6	129.5
2	259.4	259.2	259.0
3	389.1	388.8	388.5
4	518.8	518.4	518.0
5	648.5	648.0	647.5
6	778.2	777.6	777.0
7	907.9	907.2	906.5
8	1037.6	1036.8	1036.0
9	1167.3	1166.4	1165.5

$86^\circ.700 - 86^\circ.650$

$3^\circ.350 - 3^\circ.400$

3°	sin	d	tang	d	cotg	cos	d
.350	8.766 6747		8.767 4175		1.232 5825	9.999 2572	
		1295		1299			4
351	8.766 8042		8.767 5474		1.232 4526	9.999 2568	
352	8.766 9336	1294	8.767 6773	1299	1.232 3227	9.999 2564	4
353	8.767 0630	1294	8.767 8071	1298	1.232 1929	9.999 2559	5
		1294		1298			4
354	8.767 1924		8.767 9369		1.232 0631	9.999 2555	
355	8.767 3217	1293	8.768 0667	1298	1.231 9333	9.999 2550	5
356	8.767 4510	1293	8.768 1964	1297	1.231 8036	9.999 2546	4
		1292		1297			5
357	8.767 5802		8.768 3261		1.231 6739	9.999 2541	
358	8.767 7094	1292	8.768 4557	1296	1.231 5443	9.999 2537	4
359	8.767 8386	1292	8.768 5853	1296	1.231 4147	9.999 2532	5
		1291		1296			4
.360	8.767 9677		8.768 7149		1.231 2851	9.999 2528	
		1291		1295			4
361	8.768 0968		8.768 8444		1.231 1556	9.999 2524	
362	8.768 2258	1290	8.768 9739	1295	1.231 0261	9.999 2519	5
363	8.768 3548	1290	8.769 1034	1295	1.230 8966	9.999 2515	4
		1290		1294			5
364	8.768 4838		8.769 2328		1.230 7672	9.999 2510	
365	8.768 6127	1289	8.769 3622	1294	1.230 6378	9.999 2506	4
366	8.768 7416	1289	8.769 4915	1293	1.230 5085	9.999 2501	5
		1289		1293			4
367	8.768 8705		8.769 6208		1.230 3792	9.999 2497	
368	8.768 9993	1288	8.769 7501	1293	1.230 2499	9.999 2492	5
369	8.769 1281	1288	8.769 8793	1292	1.230 1207	9.999 2488	4
		1287		1292			5
.370	8.769 2568		8.770 0085		1.229 9915	9.999 2483	
		1287		1291			4
371	8.769 3855		8.770 1376		1.229 8624	9.999 2479	
372	8.769 5142	1287	8.770 2667	1291	1.229 7333	9.999 2475	4
373	8.769 6428	1286	8.770 3958	1291	1.229 6042	9.999 2470	5
		1286		1291			4
374	8.769 7714		8.770 5249		1.229 4751	9.999 2466	
375	8.769 9000	1286	8.770 6539	1290	1.229 3461	9.999 2461	5
376	8.770 0285	1285	8.770 7828	1289	1.229 2172	9.999 2457	4
		1285		1289			5
377	8.770 1570		8.770 9117		1.229 0883	9.999 2452	
378	8.770 2854	1284	8.771 0406	1289	1.228 9594	9.999 2448	4
379	8.770 4138	1284	8.771 1695	1289	1.228 8305	9.999 2443	5
		1283		1288			4
.380	8.770 5421		8.771 2983		1.228 7017	9.999 2439	
		1284		1287			5
381	8.770 6705		8.771 4270		1.228 5730	9.999 2434	
382	8.770 7987	1282	8.771 5558	1288	1.228 4442	9.999 2430	4
383	8.770 9270	1283	8.771 6845	1287	1.228 3155	9.999 2425	5
		1282		1286			4
384	8.771 0552		8.771 8131		1.228 1869	9.999 2421	
385	8.771 1834	1282	8.771 9417	1286	1.228 0583	9.999 2416	5
386	8.771 3115	1281	8.772 0703	1286	1.227 9297	9.999 2412	4
		1281		1286			5
387	8.771 4396		8.772 1989		1.227 8011	9.999 2407	
388	8.771 5676	1280	8.772 3274	1285	1.227 6726	9.999 2403	4
389	8.771 6957	1281	8.772 4558	1284	1.227 5442	9.999 2398	5
		1279		1285			4
.390	8.771 8236		8.772 5843		1.227 4157	9.999 2394	
		1280		1283			5
391	8.771 9516		8.772 7126		1.227 2874	9.999 2389	
392	8.772 0795	1279	8.772 8410	1284	1.227 1590	9.999 2385	4
393	8.772 2074	1279	8.772 9693	1283	1.227 0307	9.999 2380	5
		1278		1283			4
394	8.772 3352		8.773 0976		1.226 9024	9.999 2376	
395	8.772 4630	1278	8.773 2258	1282	1.226 7742	9.999 2371	5
396	8.772 5907	1277	8.773 3540	1282	1.226 6460	9.999 2367	4
		1277		1282			5
397	8.772 7184		8.773 4822		1.226 5178	9.999 2362	
398	8.772 8461	1277	8.773 6103	1281	1.226 3897	9.999 2358	4
399	8.772 9738	1277	8.773 7384	1281	1.226 2616	9.999 2353	5
		1276		1281			4
.400	8.773 1014		8.773 8665		1.226 1335	9.999 2349	
	cos	d	cotg	d	tang	sin	d

	P.P.		
.650			
	1299	1297	1295
649			
1	129.9	129.7	129.5
648			
2	259.8	259.4	259.0
647			
3	389.7	389.1	388.5
4	519.6	518.8	518.0
646			
5	649.5	648.5	647.5
6	779.4	778.2	777.0
645			
7	909.3	907.9	906.5
644			
8	1039.2	1037.6	1036.0
9	1169.1	1167.3	1165.5
643			
	1294	1292	1291
642			
1	129.4	129.2	129.1
641			
2	258.8	258.4	258.2
.640			
3	388.2	387.6	387.3
4	517.6	516.8	516.4
639			
5	647.0	646.0	645.5
6	776.4	775.2	774.6
638			
7	905.8	904.4	903.7
637			
8	1035.2	1033.6	1032.8
9	1164.6	1162.8	1161.9
636			
	1290	1289	1288
635			
1	129.0	128.9	128.8
634			
2	258.0	257.8	257.6
633			
3	387.0	386.7	386.4
632			
4	516.0	515.6	515.2
631			
5	645.0	644.5	644.0
6	774.0	773.4	772.8
.630			
7	903.0	902.3	901.6
8	1032.0	1031.2	1030.4
629			
9	1161.0	1160.1	1159.2
628			
	1287	1286	1285
627			
1	128.7	128.6	128.5
626			
2	257.4	257.2	257.0
625			
3	386.1	385.8	385.5
4	514.8	514.4	514.0
624			
5	643.5	643.0	642.5
6	772.2	771.6	771.0
623			
7	900.9	900.2	899.5
8	1029.6	1028.8	1028.0
622			
9	1158.3	1157.4	1156.5
621			
	1284	1283	1282
.620			
1	128.4	128.3	128.2
619			
2	256.8	256.6	256.4
618			
3	385.2	384.9	384.6
4	513.6	513.2	512.8
617			
5	642.0	641.5	641.0
6	770.4	769.8	769.2
616			
7	898.8	898.1	897.4
8	1027.2	1026.4	1025.6
615			
9	1155.6	1154.7	1153.8
614			
	1281	1280	1279
613			
1	128.1	128.0	127.9
612			
2	256.2	256.0	255.8
611			
3	384.3	384.0	383.7
4	512.4	512.0	511.6
.610			
5	640.5	640.0	639.5
6	768.6	768.0	767.4
609			
7	896.7	896.0	895.3
8	1024.8	1024.0	1023.2
608			
9	1152.9	1152.0	1151.1
607			
	1278	1277	1276
606			
1	127.8	127.7	127.6
605			
2	255.6	255.4	255.2
604			
3	383.4	383.1	382.8
4	511.2	510.8	510.4
603			
5	639.0	638.5	638.0
6	766.8	766.2	765.6
602			
7	894.6	893.9	893.2
8	1022.4	1021.6	1020.8
601			
9	1150.2	1149.3	1148.4
.600			
86°	P.P.		

$86^\circ.650 - 86^\circ.600$

$3^\circ.400 - 3^\circ.450$

3°	sin	d	tang	d	cotg	cos	d
.400	8.773 1014		8.773 8665		1.226 1335	9.999 2349	
		1275		1280			5
401	8.773 2289		8.773 9945		1.226 0055	9.999 2344	
402	8.773 3565	1276	8.774 1225	1280	1.225 8775	9.999 2340	4
403	8.773 4840	1275	8.774 2504	1279	1.225 7496	9.999 2335	5
		1274		1279			4
404	8.773 6114		8.774 3783		1.225 6217	9.999 2331	
405	8.773 7388	1274	8.774 5062	1279	1.225 4938	9.999 2326	5
406	8.773 8662	1274	8.774 6340	1278	1.225 3660	9.999 2322	4
		1273		1278			5
407	8.773 9935		8.774 7618		1.225 2382	9.999 2317	
408	8.774 1208	1273	8.774 8896	1278	1.225 1104	9.999 2313	4
409	8.774 2481	1273	8.775 0173	1277	1.224 9827	9.999 2308	5
		1272		1276			4
.410	8.774 3753		8.775 1449		1.224 8551	9.999 2304	
		1272		1277			5
411	8.774 5025		8.775 2726		1.224 7274	9.999 2299	
412	8.774 6297	1272	8.775 4002	1276	1.224 5998	9.999 2295	4
413	8.774 7568	1271	8.775 5278	1276	1.224 4722	9.999 2290	5
		1271		1275			4
414	8.774 8839		8.775 6553		1.224 3447	9.999 2286	
415	8.775 0109	1270	8.775 7828	1275	1.224 2172	9.999 2281	5
416	8.775 1379	1270	8.775 9102	1274	1.224 0898	9.999 2277	4
		1270		1275			5
417	8.775 2649		8.776 0377		1.223 9623	9.999 2272	
418	8.775 3918	1269	8.776 1650	1273	1.223 8350	9.999 2268	4
419	8.775 5187	1269	8.776 2924	1274	1.223 7076	9.999 2263	5
		1268		1273			4
.420	8.775 6455		8.776 4197		1.223 5803	9.999 2259	
		1269		1273			5
421	8.775 7724		8.776 5470		1.223 4530	9.999 2254	
422	8.775 8991	1267	8.776 6742	1272	1.223 3258	9.999 2250	4
423	8.776 0259	1268	8.776 8014	1272	1.223 1986	9.999 2245	5
		1267		1271			5
424	8.776 1526		8.776 9285		1.223 0715	9.999 2240	
425	8.776 2793	1267	8.777 0557	1272	1.222 9443	9.999 2236	4
426	8.776 4059	1266	8.777 1828	1271	1.222 8172	9.999 2231	5
		1266		1270			4
427	8.776 5325		8.777 3098		1.222 6902	9.999 2227	
428	8.776 6590	1265	8.777 4368	1270	1.222 5632	9.999 2222	5
429	8.776 7856	1266	8.777 5638	1270	1.222 4362	9.999 2218	4
		1265		1269			5
.430	8.776 9121		8.777 6907		1.222 3093	9.999 2213	
		1264		1269			4
431	8.777 0385		8.777 8176		1.222 1824	9.999 2209	
432	8.777 1649	1264	8.777 9445	1269	1.222 0555	9.999 2204	5
433	8.777 2913	1264	8.778 0713	1268	1.221 9287	9.999 2200	4
		1263		1268			5
434	8.777 4176		8.778 1981		1.221 8019	9.999 2195	
435	8.777 5439	1263	8.778 3249	1268	1.221 6751	9.999 2191	4
436	8.777 6702	1263	8.778 4516	1267	1.221 5484	9.999 2186	5
		1262		1267			5
437	8.777 7964		8.778 5783		1.221 4217	9.999 2181	
438	8.777 9226	1262	8.778 7049	1266	1.221 2951	9.999 2177	4
439	8.778 0487	1261	8.778 8315	1266	1.221 1685	9.999 2172	5
		1262		1266			4
.440	8.778 1749		8.778 9581		1.221 0419	9.999 2168	
		1260		1265			5
441	8.778 3009		8.779 0846		1.220 9154	9.999 2163	
442	8.778 4270	1261	8.779 2111	1265	1.220 7889	9.999 2159	4
443	8.778 5530	1260	8.779 3376	1265	1.220 6624	9.999 2154	5
		1260		1264			4
444	8.778 6790		8.779 4640		1.220 5360	9.999 2150	
445	8.778 8049	1259	8.779 5904	1264	1.220 4096	9.999 2145	5
446	8.778 9308	1259	8.779 7167	1263	1.220 2833	9.999 2140	5
		1258		1264			4
447	8.779 0566		8.779 8431		1.220 1569	9.999 2136	
448	8.779 1825	1259	8.779 9693	1262	1.220 0307	9.999 2131	5
449	8.779 3082	1257	8.780 0956	1263	1.219 9044	9.999 2127	4
		1258		1262			5
.450	8.779 4340		8.780 2218		1.219 7782	9.999 2122	
	cos	d	cotg	d	tang	sin	d

	P.P.		
.600			
	1280	1278	1276
599			
598	128.0	127.8	127.6
597	256.0	255.6	255.2
	384.0	383.4	382.8
596	512.0	511.2	510.4
595	640.0	639.0	638.0
594	768.0	766.8	765.6
	896.0	894.6	893.2
593	1024.0	1022.4	1020.8
592	1152.0	1150.2	1148.4
	1275	1273	1272
591			
.590	127.5	127.3	127.2
	255.0	254.6	254.4
589	382.5	381.9	381.6
588	510.0	509.2	508.8
587	637.5	636.5	636.0
	765.0	763.8	763.2
586	892.5	891.1	890.4
585	1020.0	1018.4	1017.6
584	1147.5	1145.7	1144.8
	1271	1270	1269
583			
582	127.1	127.0	126.9
581	254.2	254.0	253.8
	381.3	381.0	380.7
.580	508.4	508.0	507.6
	635.5	635.0	634.5
579	762.6	762.0	761.4
578	889.7	889.0	888.3
	1016.8	1016.0	1015.2
577	1143.9	1143.0	1142.1
	1268	1267	1266
576			
575	126.8	126.7	126.6
574	253.6	253.4	253.2
	380.4	380.1	379.8
573	507.2	506.8	506.4
572	634.0	633.5	633.0
571	760.8	760.2	759.6
	887.6	886.9	886.2
.570	1014.4	1013.6	1012.8
	1141.2	1140.3	1139.4
569	1265	1264	1263
568			
567	126.5	126.4	126.3
	253.0	252.8	252.6
566	379.5	379.2	378.9
565	506.0	505.6	505.2
564	632.5	632.0	631.5
	759.0	758.4	757.8
563	885.5	884.8	884.1
562	1012.0	1011.2	1010.4
561	1138.5	1137.6	1136.7
	1262	1261	1260
.560			
	126.2	126.1	126.0
559	252.4	252.2	252.0
558	378.6	378.3	378.0
557	504.8	504.4	504.0
	631.0	630.5	630.0
556	757.2	756.6	756.0
555	883.4	882.7	882.0
554	1009.6	1008.8	1008.0
	1135.8	1134.9	1134.0
553	1259	1258	1257
552			
551	125.9	125.8	125.7
	251.8	251.6	251.4
.550	377.7	377.4	377.1
	503.6	503.2	502.8
	629.5	629.0	628.5
	755.4	754.8	754.2
	881.3	880.6	879.9
	1007.2	1006.4	1005.6
	1133.1	1132.2	1131.3

86°	P.P.

$86^\circ.600 - 86^\circ.550$

$3^\circ.450 - 3^\circ.500$

3°	sin	d	tang	d	cotg	cos	d		P.P.		
.450	8.779 4340		8.780 2218		1.219 7782	9.999 2122		.550			
		1257		1262			4		1262	1260	1258
451	8.779 5597		8.780 3480		1.219 6520	9.999 2118		549			
		1257		1261			5		1	126.2	126.0	125.8
452	8.779 6854		8.780 4741		1.219 5259	9.999 2113		548	2	252.4	252.0	251.6
		1256		1261			5		3	378.6	378.0	377.4
453	8.779 8110		8.780 6002		1.219 3998	9.999 2108		547	4	504.8	504.0	503.2
		1256		1260			4		5	631.0	630.0	629.0
454	8.779 9366		8.780 7262		1.219 2738	9.999 2104		546	6	757.2	756.0	754.8
		1256		1261			5		7	883.4	882.0	880.6
455	8.780 0622		8.780 8523		1.219 1477	9.999 2099		545	8	1009.6	1008.0	1006.4
		1255		1260			4		9	1135.8	1134.0	1132.2
456	8.780 1877		8.780 9783		1.219 0217	9.999 2095		544				
		1255		1259			5					
457	8.780 3132		8.781 1042		1.218 8958	9.999 2090		543				
		1255		1259			4					
458	8.780 4387		8.781 2301		1.218 7699	9.999 2086		542		1257	1256	1255
		1254		1259			5					
459	8.780 5641		8.781 3560		1.218 6440	9.999 2081		541	1	125.7	125.6	125.5
		1254		1258			5		2	251.4	251.2	251.0
.460	8.780 6895		8.781 4818		1.218 5182	9.999 2076		.540	3	377.1	376.8	376.5
		1253		1258			4		4	502.8	502.4	502.0
461	8.780 8148		8.781 6076		1.218 3924	9.999 2072		539	5	628.5	628.0	627.5
		1253		1258			5		6	754.2	753.6	753.0
462	8.780 9401		8.781 7334		1.218 2666	9.999 2067		538	7	879.9	879.2	878.5
		1253		1257			4		8	1005.6	1004.8	1004.0
463	8.781 0654		8.781 8591		1.218 1409	9.999 2063		537	9	1131.3	1130.4	1129.5
		1252		1257			5					
464	8.781 1906		8.781 9848		1.218 0152	9.999 2058		536				
		1252		1257			5					
465	8.781 3158		8.782 1105		1.217 8895	9.999 2053		535		1254	1253	1252
		1252		1256			4					
466	8.781 4410		8.782 2361		1.217 7639	9.999 2049		534	1	125.4	125.3	125.2
		1251		1256			5		2	250.8	250.6	250.4
467	8.781 5661		8.782 3617		1.217 6383	9.999 2044		533	3	376.2	375.9	375.6
		1251		1256			4		4	501.6	501.2	500.8
468	8.781 6912		8.782 4873		1.217 5127	9.999 2040		532	5	627.0	626.5	626.0
		1251		1255			5		6	752.4	751.8	751.2
469	8.781 8163		8.782 6128		1.217 3872	9.999 2035		531	7	877.8	877.1	876.4
		1250		1255			5		8	1003.2	1002.4	1001.6
.470	8.781 9413		8.782 7383		1.217 2617	9.999 2030		.530	9	1128.6	1127.7	1126.8
		1250		1254			4					
471	8.782 0663		8.782 8637		1.217 1363	9.999 2026		529				
		1250		1254			5					
472	8.782 1913		8.782 9891		1.217 0109	9.999 2021		528		1251	1250	1249
		1249		1254			4					
473	8.782 3162		8.783 1145		1.216 8855	9.999 2017		527	1	125.1	125.0	124.9
		1248		1253			5		2	250.2	250.0	249.8
474	8.782 4410		8.783 2398		1.216 7602	9.999 2012		526	3	375.3	375.0	374.7
		1249		1253			5		4	500.4	500.0	499.6
475	8.782 5659		8.783 3651		1.216 6349	9.999 2007		525	5	625.5	625.0	624.5
		1248		1253			4		6	750.6	750.0	749.4
476	8.782 6907		8.783 4904		1.216 5096	9.999 2003		524	7	875.7	875.0	874.3
		1248		1252			5		8	1000.8	1000.0	999.2
477	8.782 8155		8.783 6156		1.216 3844	9.999 1998		523	9	1125.9	1125.0	1124.1
		1247		1252			4					
478	8.782 9402		8.783 7408		1.216 2592	9.999 1994		522				
		1247		1252			5					
479	8.783 0649		8.783 8660		1.216 1340	9.999 1989		521		1248	1247	1246
		1247		1251			5					
.480	8.783 1896		8.783 9911		1.216 0089	9.999 1984		.520	1	124.8	124.7	124.6
		1246		1251			4		2	249.6	249.4	249.2
481	8.783 3142		8.784 1162		1.215 8838	9.999 1980		519	3	374.4	374.1	373.8
		1246		1251			5		4	499.2	498.8	498.4
482	8.783 4388		8.784 2413		1.215 7587	9.999 1975		518	5	624.0	623.5	623.0
		1245		1250			4		6	748.8	748.2	747.6
483	8.783 5633		8.784 3663		1.215 6337	9.999 1971		517	7	873.6	872.9	872.2
		1245		1249			5		8	998.4	997.6	996.8
484	8.783 6878		8.784 4912		1.215 5088	9.999 1966		516	9	1123.2	1122.3	1121.4
		1245		1250			5					
485	8.783 8123		8.784 6162		1.215 3838	9.999 1961		515				
		1245		1249			4					
486	8.783 9368		8.784 7411		1.215 2589	9.999 1957		514		1245	1244	1243
		1244		1249			5					
487	8.784 0612		8.784 8660		1.215 1340	9.999 1952		513	1	124.5	124.4	124.3
		1244		1248			4		2	249.0	248.8	248.6
488	8.784 1856		8.784 9908		1.215 0092	9.999 1948		512	3	373.5	373.2	372.9
		1243		1248			5		4	498.0	497.6	497.2
489	8.784 3099		8.785 1156		1.214 8844	9.999 1943		511	5	622.5	622.0	621.5
		1243		1248			5		6	747.0	746.4	745.8
.490	8.784 4342		8.785 2404		1.214 7596	9.999 1938		.510	7	871.5	870.8	870.1
		1243		1247			4		8	996.0	995.2	994.4
491	8.784 5585		8.785 3651		1.214 6349	9.999 1934		509	9	1120.5	1119.6	1118.7
		1242		1247			5					
492	8.784 6827		8.785 4898		1.214 5102	9.999 1929		508				
		1242		1247			5					
493	8.784 8069		8.785 6145		1.214 3855	9.999 1924		507		1242	1241	1240
		1242		1246			4					
494	8.784 9311		8.785 7391		1.214 2609	9.999 1920		506	1	124.2	124.1	124.0
		1241		1246			5		2	248.4	248.2	248.0
495	8.785 0552		8.785 8637		1.214 1363	9.999 1915		505	3	372.6	372.3	372.0
		1241		1245			4		4	496.8	496.4	496.0
496	8.785 1793		8.785 9882		1.214 0118	9.999 1911		504	5	621.0	620.5	620.0
		1240		1245			5		6	745.2	744.6	744.0
497	8.785 3033		8.786 1127		1.213 8873	9.999 1906		503	7	869.4	868.7	868.0
		1240		1245			5		8	993.6	992.8	992.0
498	8.785 4273		8.786 2372		1.213 7628	9.999 1901		502	9	1117.8	1116.9	1116.0
		1240		1245			4					
499	8.785 5513		8.786 3617		1.213 6383	9.999 1897		501				
		1240		1244			5					
.500	8.785 6753		8.786 4861		1.213 5139	9.999 1892		.500				
	cos	d	cotg	d	tang	sin	d	86°	P.P.			

$86^\circ.550 - 86^\circ.500$

$3^\circ.500 - 3^\circ.550$

3°	sin	d	tang	d	cotg	cos	d		P.P.
.500	8.785 6753		8.786 4861		1.213 5139	9.999 1892		**.500**	
		1239		1244			5		1244 1242 1240
501	8.785 7992		8.786 6105		1.213 3895	9.999 1887		499	
502	8.785 9231	1239	8.786 7348	1243	1.213 2652	9.999 1883	4	498	1 124.4 124.2 124.0
503	8.786 0469	1238	8.786 8591	1243	1.213 1409	9.999 1878	5	497	2 248.8 248.4 248.0
		1238		1243			5		3 373.2 372.6 372.0
504	8.786 1707		8.786 9834		1.213 0166	9.999 1873		496	4 497.6 496.8 496.0
505	8.786 2945	1238	8.787 1076	1242	1.212 8924	9.999 1869	4	495	5 622.0 621.0 620.0
506	8.786 4182	1237	8.787 2318	1242	1.212 7682	9.999 1864	5	494	6 746.4 745.2 744.0
		1237		1242			5		7 870.8 869.4 868.0
507	8.786 5419		8.787 3560		1.212 6440	9.999 1859		493	8 995.2 993.6 992.0
508	8.786 6656	1237	8.787 4801	1241	1.212 5199	9.999 1855	4	492	9 1119.6 1117.8 1116.0
509	8.786 7892	1236	8.787 6042	1241	1.212 3958	9.999 1850	5	491	
		1236		1241			4		1239 1238 1237
.510	8.786 9128		8.787 7283		1.212 2717	9.999 1846		**.490**	
		1236		1240			5		1 123.9 123.8 123.7
511	8.787 0364		8.787 8523		1.212 1477	9.999 1841		489	2 247.8 247.6 247.4
512	8.787 1599	1235	8.787 9763	1240	1.212 0237	9.999 1836	5	488	3 371.7 371.4 371.1
513	8.787 2834	1235	8.788 1002	1239	1.211 8998	9.999 1832	5	487	4 495.6 495.2 494.8
		1234		1239			4		5 619.5 619.0 618.5
514	8.787 4068		8.788 2241		1.211 7759	9.999 1827	5	486	6 743.4 742.8 742.2
515	8.787 5302	1234	8.788 3480	1239	1.211 6520	9.999 1822	5	485	7 867.3 866.6 865.9
516	8.787 6536	1234	8.788 4719	1239	1.211 5281	9.999 1818	4	484	8 991.2 990.4 989.6
		1234		1238			5		9 1115.1 1114.2 1113.3
517	8.787 7770		8.788 5957		1.211 4043	9.999 1813		483	
518	8.787 9003	1233	8.788 7195	1238	1.211 2805	9.999 1808	5	482	1236 1235 1234
519	8.788 0236	1233	8.788 8432	1237	1.211 1568	9.999 1804	4	481	
		1232		1237			5		1 123.6 123.5 123.4
.520	8.788 1468		8.788 9669		1.211 0331	9.999 1799		**.480**	2 247.2 247.0 246.8
		1232		1237			5		3 370.8 370.5 370.2
521	8.788 2700		8.789 0906		1.210 9094	9.999 1794		479	4 494.4 494.0 493.6
522	8.788 3932	1232	8.789 2142	1236	1.210 7858	9.999 1790	4	478	5 618.0 617.5 617.0
523	8.788 5163	1231	8.789 3378	1236	1.210 6622	9.999 1785	5	477	6 741.6 741.0 740.4
		1231		1236			5		7 865.2 864.5 863.8
524	8.788 6394		8.789 4614		1.210 5386	9.999 1780		476	8 988.8 988.0 987.2
525	8.788 7625	1231	8.789 5849	1235	1.210 4151	9.999 1776	4	475	9 1112.4 1111.5 1110.6
526	8.788 8855	1230	8.789 7084	1235	1.210 2916	9.999 1771	5	474	
		1230		1235			5		1233 1232 1231
527	8.789 0085		8.789 8319		1.210 1681	9.999 1766		473	
528	8.789 1315	1230	8.789 9553	1234	1.210 0447	9.999 1762	4	472	1 123.3 123.2 123.1
529	8.789 2544	1229	8.790 0787	1234	1.209 9213	9.999 1757	5	471	2 246.6 246.4 246.2
		1229		1234			5		3 369.9 369.6 369.3
.530	8.789 3773		8.790 2021		1.209 7979	9.999 1752		**.470**	4 493.2 492.8 492.4
		1228		1233			4		5 616.5 616.0 615.5
531	8.789 5001		8.790 3254		1.209 6746	9.999 1748		469	6 739.8 739.2 738.6
532	8.789 6230	1229	8.790 4487	1233	1.209 5513	9.999 1743	5	468	7 863.1 862.4 861.7
533	8.789 7458	1228	8.790 5719	1232	1.209 4281	9.999 1738	5	467	8 986.4 985.6 984.8
		1227		1232			4		9 1109.7 1108.8 1107.9
534	8.789 8685		8.790 6951		1.209 3049	9.999 1734		466	
535	8.789 9912	1227	8.790 8183	1232	1.209 1817	9.999 1729	5	465	1230 1229 1228
536	8.790 1139	1227	8.790 9415	1232	1.209 0585	9.999 1724	5	464	
		1227		1231			4		1 123.0 122.9 122.8
537	8.790 2366		8.791 0646		1.208 9354	9.999 1720		463	2 246.0 245.8 245.6
538	8.790 3592	1226	8.791 1877	1231	1.208 8123	9.999 1715	5	462	3 369.0 368.7 368.4
539	8.790 4817	1225	8.791 3107	1230	1.208 6893	9.999 1710	5	461	4 492.0 491.6 491.2
		1226		1230			5		5 615.0 614.5 614.0
.540	8.790 6043		8.791 4337		1.208 5663	9.999 1705		**.460**	6 738.0 737.4 736.8
		1225		1230			4		7 861.0 860.3 859.6
541	8.790 7268		8.791 5567		1.208 4433	9.999 1701		459	8 984.0 983.2 982.4
542	8.790 8493	1225	8.791 6797	1230	1.208 3203	9.999 1696	5	458	9 1107.0 1106.1 1105.2
543	8.790 9717	1224	8.791 8026	1229	1.208 1974	9.999 1691	5	457	
		1224		1228			4		1227 1226 1225
544	8.791 0941		8.791 9254		1.208 0746	9.999 1687		456	
545	8.791 2165	1224	8.792 0483	1229	1.207 9517	9.999 1682	5	455	1 122.7 122.6 122.5
546	8.791 3388	1223	8.792 1711	1228	1.207 8289	9.999 1677	5	454	2 245.4 245.2 245.0
		1223		1228			4		3 368.1 367.8 367.5
547	8.791 4611		8.792 2939		1.207 7061	9.999 1673		453	4 490.8 490.4 490.0
548	8.791 5834	1223	8.792 4166	1227	1.207 5834	9.999 1668	5	452	5 613.5 613.0 612.5
549	8.791 7056	1222	8.792 5393	1227	1.207 4607	9.999 1663	5	451	6 736.2 735.6 735.0
		1222		1227			4		7 858.9 858.2 857.5
.550	8.791 8278		8.792 6620		1.207 3380	9.999 1659		**.450**	8 981.6 980.8 980.0
									9 1104.3 1103.4 1102.5
	cos	d	cotg	d	tang	sin	d	86°	P.P.

	P.P.
	1224 1223 1222
1	122.4 122.3 122.2
2	244.8 244.6 244.4
3	367.2 366.9 366.6
4	489.6 489.2 488.8
5	612.0 611.5 611.0
6	734.4 733.8 733.2
7	856.8 856.1 855.4
8	979.2 978.4 977.6
9	1101.6 1100.7 1099.8

$86^\circ.500 - 86^\circ.450$

3°.550 — 3°.600

3°	sin	d	tang	d	cotg	cos	d		P.P.
.550	8.791 8278	1222	8.792 6620	1226	1.207 3380	9.999 1659	5	.450	
551	8.791 9500	1221	8.792 7846	1226	1.207 2154	9.999 1654	5	449	
552	8.792 0721	1221	8.792 9072	1226	1.207 0928	9.999 1649	5	448	
553	8.792 1942	1221	8.793 0298	1225	1.206 9702	9.999 1644	4	447	
554	8.792 3163	1220	8.793 1523	1225	1.206 8477	9.999 1640	5	446	
555	8.792 4383	1220	8.793 2748	1224	1.206 7252	9.999 1635	5	445	
556	8.792 5603	1219	8.793 3972	1225	1.206 6028	9.999 1630	4	444	
557	8.792 6822	1219	8.793 5197	1224	1.206 4803	9.999 1626	5	443	
558	8.792 8041	1219	8.793 6421	1223	1.206 3579	9.999 1621	5	442	
559	8.792 9260	1219	8.793 7644	1223	1.206 2356	9.999 1616	5	441	
.560	8.793 0479	1218	8.793 8867	1223	1.206 1133	9.999 1611	4	.440	
561	8.793 1697	1218	8.794 0090	1223	1.205 9910	9.999 1607	5	439	
562	8.793 2915	1217	8.794 1313	1222	1.205 8687	9.999 1602	5	438	
563	8.793 4132	1218	8.794 2535	1222	1.205 7465	9.999 1597	4	437	
564	8.793 5350	1216	8.794 3757	1222	1.205 6243	9.999 1593	5	436	
565	8.793 6566	1217	8.794 4979	1221	1.205 5021	9.999 1588	5	435	
566	8.793 7783	1216	8.794 6200	1221	1.205 3800	9.999 1583	5	434	
567	8.793 8999	1216	8.794 7421	1220	1.205 2579	9.999 1578	4	433	
568	8.794 0215	1215	8.794 8641	1220	1.205 1359	9.999 1574	5	432	
569	8.794 1430	1215	8.794 9861	1220	1.205 0139	9.999 1569	5	431	
.570	8.794 2645	1215	8.795 1081	1220	1.204 8919	9.999 1564	5	.430	
571	8.794 3860	1215	8.795 2301	1219	1.204 7699	9.999 1559	4	429	
572	8.794 5075	1214	8.795 3520	1219	1.204 6480	9.999 1555	5	428	
573	8.794 6289	1213	8.795 4739	1218	1.204 5261	9.999 1550	5	427	
574	8.794 7502	1214	8.795 5957	1218	1.204 4043	9.999 1545	4	426	
575	8.794 8716	1213	8.795 7175	1218	1.204 2825	9.999 1541	5	425	
576	8.794 9929	1213	8.795 8393	1218	1.204 1607	9.999 1536	5	424	
577	8.795 1142	1212	8.795 9611	1217	1.204 0389	9.999 1531	5	423	
578	8.795 2354	1212	8.796 0828	1216	1.203 9172	9.999 1526	4	422	
579	8.795 3566	1212	8.796 2044	1217	1.203 7956	9.999 1522	5	421	
.580	8.795 4778	1211	8.796 3261	1216	1.203 6739	9.999 1517	5	.420	
581	8.795 5989	1211	8.796 4477	1216	1.203 5523	9.999 1512	5	419	
582	8.795 7200	1211	8.796 5693	1215	1.203 4307	9.999 1507	4	418	
583	8.795 8411	1210	8.796 6908	1215	1.203 3092	9.999 1503	5	417	
584	8.795 9621	1210	8.796 8123	1215	1.203 1877	9.999 1498	5	416	
585	8.796 0831	1210	8.796 9338	1214	1.203 0662	9.999 1493	5	415	
586	8.796 2041	1209	8.797 0552	1215	1.202 9448	9.999 1488	4	414	
587	8.796 3250	1209	8.797 1767	1213	1.202 8233	9.999 1484	5	413	
588	8.796 4459	1209	8.797 2980	1214	1.202 7020	9.999 1479	5	412	
589	8.796 5668	1208	8.797 4194	1213	1.202 5806	9.999 1474	5	411	
.590	8.796 6876	1208	8.797 5407	1212	1.202 4593	9.999 1469	4	.410	
591	8.796 8084	1208	8.797 6619	1213	1.202 3381	9.999 1465	5	409	
592	8.796 9292	1207	8.797 7832	1212	1.202 2168	9.999 1460	5	408	
593	8.797 0499	1207	8.797 9044	1212	1.202 0956	9.999 1455	5	407	
594	8.797 1706	1207	8.798 0256	1211	1.201 9744	9.999 1450	4	406	
595	8.797 2913	1206	8.798 1467	1211	1.201 8533	9.999 1446	5	405	
596	8.797 4119	1206	8.798 2678	1211	1.201 7322	9.999 1441	5	404	
597	8.797 5325	1206	8.798 3889	1210	1.201 6111	9.999 1436	5	403	
598	8.797 6531	1205	8.798 5099	1210	1.201 4901	9.999 1431	5	402	
599	8.797 7736	1205	8.798 6309	1210	1.201 3691	9.999 1426	4	401	
.600	8.797 8941		8.798 7519		1.201 2481	9.999 1422		.400	
	cos	d	cotg	d	tang	sin	d	86°	P.P.

P.P.

	1226	1224	1223
1	122.6	122.4	122.3
2	245.2	244.8	244.6
3	367.8	367.2	366.9
4	490.4	489.6	489.2
5	613.0	612.0	611.5
6	735.6	734.4	733.8
7	858.2	856.8	856.1
8	980.8	979.2	978.4
9	1103.4	1101.6	1100.7

	1222	1221	1220
1	122.2	122.1	122.0
2	244.4	244.2	244.0
3	366.6	366.3	366.0
4	488.8	488.4	488.0
5	611.0	610.5	610.0
6	733.2	732.6	732.0
7	855.4	854.7	854.0
8	977.6	976.8	976.0
9	1099.8	1098.9	1098.0

	1219	1218	1217
1	121.9	121.8	121.7
2	243.8	243.6	243.4
3	365.7	365.4	365.1
4	487.6	487.2	486.8
5	609.5	609.0	608.5
6	731.4	730.8	730.2
7	853.3	852.6	851.9
8	975.2	974.4	973.6
9	1097.1	1096.2	1095.3

	1216	1215	1214
1	121.6	121.5	121.4
2	243.2	243.0	242.8
3	364.8	364.5	364.2
4	486.4	486.0	485.6
5	608.0	607.5	607.0
6	729.6	729.0	728.4
7	851.2	850.5	849.8
8	972.8	972.0	971.2
9	1094.4	1093.5	1092.6

	1213	1212	1211
1	121.3	121.2	121.1
2	242.6	242.4	242.2
3	363.9	363.6	363.3
4	485.2	484.8	484.4
5	606.5	606.0	605.5
6	727.8	727.2	726.6
7	849.1	848.4	847.7
8	970.4	969.6	968.8
9	1091.7	1090.8	1089.9

	1210	1209	1208
1	121.0	120.9	120.8
2	242.0	241.8	241.6
3	363.0	362.7	362.4
4	484.0	483.6	483.2
5	605.0	604.5	604.0
6	726.0	725.4	724.8
7	847.0	846.3	845.6
8	968.0	967.2	966.4
9	1089.0	1088.1	1087.2

	1207	1206	1205
1	120.7	120.6	120.5
2	241.4	241.2	241.0
3	362.1	361.8	361.5
4	482.8	482.4	482.0
5	603.5	603.0	602.5
6	724.2	723.6	723.0
7	844.9	844.2	843.5
8	965.6	964.8	964.0
9	1086.3	1085.4	1084.5

86°.450 — 86°.400

3°.600 — 3°.650

3°	sin	d	tang	d	cotg	cos	d	
.600	8.797 8941	1204	8.798 7519	1209	1.201 2481	9.999 1422	5	.400
601	8.798 0145	1205	8.798 8728	1209	1.201 1272	9.999 1417	5	399
602	8.798 1350	1204	8.798 9937	1209	1.201 0063	9.999 1412	5	398
603	8.798 2554	1203	8.799 1146	1209	1.200 8854	9.999 1407	4	397
604	8.798 3757	1204	8.799 2355	1208	1.200 7645	9.999 1403	5	396
605	8.798 4961	1202	8.799 3563	1207	1.200 6437	9.999 1398	5	395
606	8.798 6163	1203	8.799 4770	1208	1.200 5230	9.999 1393	5	394
607	8.798 7366	1202	8.799 5978	1207	1.200 4022	9.999 1388	4	393
608	8.798 8568	1202	8.799 7185	1207	1.200 2815	9.999 1384	5	392
609	8.798 9770	1202	8.799 8392	1206	1.200 1608	9.999 1379	5	391
.610	8.799 0972	1201	8.799 9598	1206	1.200 0402	9.999 1374	5	.390
611	8.799 2173	1201	8.800 0804	1206	1.199 9196	9.999 1369	5	389
612	8.799 3374	1201	8.800 2010	1205	1.199 7990	9.999 1364	4	388
613	8.799 4575	1200	8.800 3215	1205	1.199 6785	9.999 1360	5	387
614	8.799 5775	1200	8.800 4420	1205	1.199 5580	9.999 1355	5	386
615	8.799 6975	1200	8.800 5625	1204	1.199 4375	9.999 1350	5	385
616	8.799 8175	1199	8.800 6829	1204	1.199 3171	9.999 1345	5	384
617	8.799 9374	1199	8.800 8033	1204	1.199 1967	9.999 1340	4	383
618	8.800 0573	1198	8.800 9237	1203	1.199 0763	9.999 1336	5	382
619	8.800 1771	1199	8.801 0440	1204	1.198 9560	9.999 1331	5	381
.620	8.800 2970	1198	8.801 1644	1202	1.198 8356	9.999 1326	5	.380
621	8.800 4168	1197	8.801 2846	1203	1.198 7154	9.999 1321	5	379
622	8.800 5365	1197	8.801 4049	1202	1.198 5951	9.999 1316	4	378
623	8.800 6562	1197	8.801 5251	1202	1.198 4749	9.999 1312	5	377
624	8.800 7759	1197	8.801 6453	1201	1.198 3547	9.999 1307	5	376
625	8.800 8956	1196	8.801 7654	1201	1.198 2346	9.999 1302	5	375
626	8.801 0152	1196	8.801 8855	1201	1.198 1145	9.999 1297	5	374
627	8.801 1348	1196	8.802 0056	1200	1.197 9944	9.999 1292	4	373
628	8.801 2544	1195	8.802 1256	1200	1.197 8744	9.999 1288	5	372
629	8.801 3739	1195	8.802 2456	1200	1.197 7544	9.999 1283	5	371
.630	8.801 4934	1195	8.802 3656	1200	1.197 6344	9.999 1278	5	.370
631	8.801 6129	1194	8.802 4856	1199	1.197 5144	9.999 1273	5	369
632	8.801 7323	1194	8.802 6055	1198	1.197 3945	9.999 1268	4	368
633	8.801 8517	1194	8.802 7253	1199	1.197 2747	9.999 1264	5	367
634	8.801 9711	1193	8.802 8452	1198	1.197 1548	9.999 1259	5	366
635	8.802 0904	1193	8.802 9650	1198	1.197 0350	9.999 1254	5	365
636	8.802 2097	1193	8.803 0848	1197	1.196 9152	9.999 1249	5	364
637	8.802 3290	1192	8.803 2045	1197	1.196 7955	9.999 1244	4	363
638	8.802 4482	1192	8.803 3242	1197	1.196 6758	9.999 1240	5	362
639	8.802 5674	1192	8.803 4439	1196	1.196 5561	9.999 1235	5	361
.640	8.802 6866	1191	8.803 5636	1196	1.196 4364	9.999 1230	5	.360
641	8.802 8057	1191	8.803 6832	1196	1.196 3168	9.999 1225	5	359
642	8.802 9248	1191	8.803 8028	1195	1.196 1972	9.999 1220	5	358
643	8.803 0439	1190	8.803 9223	1196	1.196 0777	9.999 1215	4	357
644	8.803 1629	1190	8.804 0419	1194	1.195 9581	9.999 1211	5	356
645	8.803 2819	1190	8.804 1613	1195	1.195 8387	9.999 1206	5	355
646	8.803 4009	1189	8.804 2808	1194	1.195 7192	9.999 1201	5	354
647	8.803 5198	1189	8.804 4002	1194	1.195 5998	9.999 1196	5	353
648	8.803 6387	1189	8.804 5196	1194	1.195 4804	9.999 1191	5	352
649	8.803 7576	1188	8.804 6390	1193	1.195 3610	9.999 1186	4	351
.650	8.803 8764		8.804 7583		1.195 2417	9.999 1182		.350
	cos	d	cotg	d	tang	sin	d	86°

P.P.

	1209	1207	1206
1	120.9	120.7	120.6
2	241.8	241.4	241.2
3	362.7	362.1	361.8
4	483.6	482.8	482.4
5	604.5	603.5	603.0
6	725.4	724.2	723.6
7	846.3	844.9	844.2
8	967.2	965.6	964.8
9	1088.1	1086.3	1085.4

	1205	1204	1203
1	120.5	120.4	120.3
2	241.0	240.8	240.6
3	361.5	361.2	360.9
4	482.0	481.6	481.2
5	602.5	602.0	601.5
6	723.0	722.4	721.8
7	843.5	842.8	842.1
8	964.0	963.2	962.4
9	1084.5	1083.6	1082.7

	1202	1201	1200
1	120.2	120.1	120.0
2	240.4	240.2	240.0
3	360.6	360.3	360.0
4	480.8	480.4	480.0
5	601.0	600.5	600.0
6	721.2	720.6	720.0
7	841.4	840.7	840.0
8	961.6	960.8	960.0
9	1081.8	1080.9	1080.0

	1199	1198	1197
1	119.9	119.8	119.7
2	239.8	239.6	239.4
3	359.7	359.4	359.1
4	479.6	479.2	478.8
5	599.5	599.0	598.5
6	719.4	718.8	718.2
7	839.3	838.6	837.9
8	959.2	958.4	957.6
9	1079.1	1078.2	1077.3

	1196	1195	1194
1	119.6	119.5	119.4
2	239.2	239.0	238.8
3	358.8	358.5	358.2
4	478.4	478.0	477.6
5	598.0	597.5	597.0
6	717.6	717.0	716.4
7	837.2	836.5	835.8
8	956.8	956.0	955.2
9	1076.4	1075.5	1074.6

	1193	1192	1191
1	119.3	119.2	119.1
2	238.6	238.4	238.2
3	357.9	357.6	357.3
4	477.2	476.8	476.4
5	596.5	596.0	595.5
6	715.8	715.2	714.6
7	835.1	834.4	833.7
8	954.4	953.6	952.8
9	1073.7	1072.8	1071.9

	1190	1189	1188
1	119.0	118.9	118.8
2	238.0	237.8	237.6
3	357.0	356.7	356.4
4	476.0	475.6	475.2
5	595.0	594.5	594.0
6	714.0	713.4	712.8
7	833.0	832.3	831.6
8	952.0	951.2	950.4
9	1071.0	1070.1	1069.2

86°.400 — 86°.350

$3^\circ.650 - 3^\circ.700$

3°	sin	d	tang	d	cotg	cos	d	
.650	8.803 8764	1189	8.804 7583	1193	1.195 2417	9.999 1182	5	**.350**
651	8.803 9953	1187	8.804 8776	1192	1.195 1224	9.999 1177	5	349
652	8.804 1140	1188	8.804 9968	1193	1.195 0032	9.999 1172	5	348
653	8.804 2328	1187	8.805 1161	1192	1.194 8839	9.999 1167	5	347
654	8.804 3515	1187	8.805 2353	1191	1.194 7647	9.999 1162	5	346
655	8.804 4702	1186	8.805 3544	1191	1.194 6456	9.999 1157	4	345
656	8.804 5888	1186	8.805 4735	1191	1.194 5265	9.999 1153	5	344
657	8.804 7074	1186	8.805 5926	1191	1.194 4074	9.999 1148	5	343
658	8.804 8260	1185	8.805 7117	1190	1.194 2883	9.999 1143	5	342
659	8.804 9445	1186	8.805 8307	1190	1.194 1693	9.999 1138	5	341
.660	8.805 0631	1184	8.805 9497	1190	1.194 0503	9.999 1133	5	**.340**
661	8.805 1815	1185	8.806 0687	1189	1.193 9313	9.999 1128	4	339
662	8.805 3000	1184	8.806 1876	1189	1.193 8124	9.999 1124	5	338
663	8.805 4184	1184	8.806 3065	1189	1.193 6935	9.999 1119	5	337
664	8.805 5368	1183	8.806 4254	1188	1.193 5746	9.999 1114	5	336
665	8.805 6551	1184	8.806 5442	1189	1.193 4558	9.999 1109	5	335
666	8.805 7735	1182	8.806 6631	1187	1.193 3369	9.999 1104	5	334
667	8.805 8917	1183	8.806 7818	1188	1.193 2182	9.999 1099	5	333
668	8.806 0100	1182	8.806 9006	1187	1.193 0994	9.999 1094	4	332
669	8.806 1282	1182	8.807 0193	1187	1.192 9807	9.999 1090	5	331
.670	8.806 2464	1182	8.807 1380	1186	1.192 8620	9.999 1085	5	**.330**
671	8.806 3646	1181	8.807 2566	1186	1.192 7434	9.999 1080	5	329
672	8.806 4827	1181	8.807 3752	1186	1.192 6248	9.999 1075	5	328
673	8.806 6008	1181	8.807 4938	1185	1.192 5062	9.999 1070	5	327
674	8.806 7189	1180	8.807 6123	1186	1.192 3877	9.999 1065	5	326
675	8.806 8369	1180	8.807 7309	1184	1.192 2691	9.999 1060	5	325
676	8.806 9549	1179	8.807 8493	1185	1.192 1507	9.999 1055	4	324
677	8.807 0728	1180	8.807 9678	1184	1.192 0322	9.999 1051	5	323
678	8.807 1908	1179	8.808 0862	1184	1.191 9138	9.999 1046	5	322
679	8.807 3087	1178	8.808 2046	1184	1.191 7954	9.999 1041	5	321
.680	8.807 4265	1179	8.808 3230	1183	1.191 6770	9.999 1036	5	**.320**
681	8.807 5444	1178	8.808 4413	1183	1.191 5587	9.999 1031	5	319
682	8.807 6622	1178	8.808 5596	1182	1.191 4404	9.999 1026	5	318
683	8.807 7800	1177	8.808 6778	1183	1.191 3222	9.999 1021	5	317
684	8.807 8977	1177	8.808 7961	1182	1.191 2039	9.999 1016	4	316
685	8.808 0154	1177	8.808 9143	1181	1.191 0857	9.999 1012	5	315
686	8.808 1331	1176	8.809 0324	1182	1.190 9676	9.999 1007	5	314
687	8.808 2507	1176	8.809 1506	1181	1.190 8494	9.999 1002	5	313
688	8.808 3683	1176	8.809 2687	1180	1.190 7313	9.999 0997	5	312
689	8.808 4859	1176	8.809 3867	1181	1.190 6133	9.999 0992	5	311
.690	8.808 6035	1175	8.809 5048	1180	1.190 4952	9.999 0987	5	**.310**
691	8.808 7210	1175	8.809 6228	1179	1.190 3772	9.999 0982	5	309
692	8.808 8385	1174	8.809 7407	1180	1.190 2593	9.999 0977	5	308
693	8.808 9559	1174	8.809 8587	1179	1.190 1413	9.999 0972	4	307
694	8.809 0733	1174	8.809 9766	1179	1.190 0234	9.999 0968	5	306
695	8.809 1907	1174	8.810 0945	1178	1.189 9055	9.999 0963	5	305
696	8.809 3081	1173	8.810 2123	1178	1.189 7877	9.999 0958	5	304
697	8.809 4254	1173	8.810 3301	1178	1.189 6699	9.999 0953	5	303
698	8.809 5427	1173	8.810 4479	1178	1.189 5521	9.999 0948	5	302
699	8.809 6600	1172	8.810 5657	1177	1.189 4343	9.999 0943	5	301
.700	8.809 7772		8.810 6834		1.189 3166	9.999 0938		**.300**
	cos	d	cotg	d	tang	sin	d	86°

P.P.			
	1193	1191	1190
1	119.3	119.1	119.0
2	238.6	238.2	238.0
3	357.9	357.3	357.0
4	477.2	476.4	476.0
5	596.5	595.5	595.0
6	715.8	714.6	714.0
7	835.1	833.7	833.0
8	954.4	952.8	952.0
9	1073.7	1071.9	1071.0
	1189	1188	1187
1	118.9	118.8	118.7
2	237.8	237.6	237.4
3	356.7	356.4	356.1
4	475.6	475.2	474.8
5	594.5	594.0	593.5
6	713.4	712.8	712.2
7	832.3	831.6	830.9
8	951.2	950.4	949.6
9	1070.1	1069.2	1068.3
	1186	1185	1184
1	118.6	118.5	118.4
2	237.2	237.0	236.8
3	355.8	355.5	355.2
4	474.4	474.0	473.6
5	593.0	592.5	592.0
6	711.6	711.0	710.4
7	830.2	829.5	828.8
8	948.8	948.0	947.2
9	1067.4	1066.5	1065.6
	1183	1182	1181
1	118.3	118.2	118.1
2	236.6	236.4	236.2
3	354.9	354.6	354.3
4	473.2	472.8	472.4
5	591.5	591.0	590.5
6	709.8	709.2	708.6
7	828.1	827.4	826.7
8	946.4	945.6	944.8
9	1064.7	1063.8	1062.9
	1180	1179	1178
1	118.0	117.9	117.8
2	236.0	235.8	235.6
3	354.0	353.7	353.4
4	472.0	471.6	471.2
5	590.0	589.5	589.0
6	708.0	707.4	706.8
7	826.0	825.3	824.6
8	944.0	943.2	942.4
9	1062.0	1061.1	1060.2
	1177	1176	1175
1	117.7	117.6	117.5
2	235.4	235.2	235.0
3	353.1	352.8	352.5
4	470.8	470.4	470.0
5	588.5	588.0	587.5
6	706.2	705.6	705.0
7	823.9	823.2	822.5
8	941.6	940.8	940.0
9	1059.3	1058.4	1057.5
	1174	1173	1172
1	117.4	117.3	117.2
2	234.8	234.6	234.4
3	352.2	351.9	351.6
4	469.6	469.2	468.8
5	587.0	586.5	586.0
6	704.4	703.8	703.2
7	821.8	821.1	820.4
8	939.2	938.4	937.6
9	1056.6	1055.7	1054.8

$86^\circ.350 - 86^\circ.300$

$3^\circ.700 - 3^\circ.750$

3°	sin	d	tang	d	cotg	cos	d	
.700	8.809 7772		8.810 6834		1.189 3166	9.999 0938		.300
		1172		1177			5	
701	8.809 8944		8.810 8011		1.189 1989	9.999 0933		299
702	8.810 0116	1172	8.810 9187	1176	1.189 0813	9.999 0928	5	298
703	8.810 1287	1171	8.811 0363	1176	1.188 9637	9.999 0923	5	297
		1171		1176			4	
704	8.810 2458		8.811 1539		1.188 8461	9.999 0919		296
705	8.810 3629	1171	8.811 2715	1176	1.188 7285	9.999 0914	5	295
706	8.810 4799	1170	8.811 3890	1175	1.188 6110	9.999 0909	5	294
		1170		1175			5	
707	8.810 5969		8.811 5065		1.188 4935	9.999 0904		293
708	8.810 7139	1170	8.811 6240	1175	1.188 3760	9.999 0899	5	292
709	8.810 8308	1169	8.811 7414	1174	1.188 2586	9.999 0894	5	291
		1170		1174			5	
.710	8.810 9478		8.811 8588		1.188 1412	9.999 0889		.290
		1168		1174			5	
711	8.811 0646		8.811 9762		1.188 0238	9.999 0884		289
712	8.811 1815	1169	8.812 0936	1174	1.187 9064	9.999 0879	5	288
713	8.811 2983	1168	8.812 2109	1173	1.187 7891	9.999 0874	5	287
		1168		1172			5	
714	8.811 4151		8.812 3281		1.187 6719	9.999 0869		286
715	8.811 5318	1167	8.812 4454	1173	1.187 5546	9.999 0865	4	285
716	8.811 6486	1168	8.812 5626	1172	1.187 4374	9.999 0860	5	284
		1167		1172			5	
717	8.811 7653		8.812 6798		1.187 3202	9.999 0855		283
718	8.811 8819	1166	8.812 7969	1171	1.187 2031	9.999 0850	5	282
719	8.811 9985	1166	8.812 9141	1172	1.187 0859	9.999 0845	5	281
		1166		1171			5	
.720	8.812 1151		8.813 0312		1.186 9688	9.999 0840		.280
		1166		1170			5	
721	8.812 2317		8.813 1482		1.186 8518	9.999 0835		279
722	8.812 3482	1165	8.813 2652	1170	1.186 7348	9.999 0830	5	278
723	8.812 4647	1165	8.813 3822	1170	1.186 6178	9.999 0825	5	277
		1165		1170			5	
724	8.812 5812		8.813 4992		1.186 5008	9.999 0820		276
725	8.812 6977	1165	8.813 6161	1169	1.186 3839	9.999 0815	5	275
726	8.812 8141	1164	8.813 7330	1169	1.186 2670	9.999 0810	5	274
		1163		1169			5	
727	8.812 9304		8.813 8499		1.186 1501	9.999 0805		273
728	8.813 0468	1164	8.813 9667	1168	1.186 0333	9.999 0800	5	272
729	8.813 1631	1163	8.814 0836	1169	1.185 9164	9.999 0795	5	271
		1163		1167			4	
.730	8.813 2794		8.814 2003		1.185 7997	9.999 0791		.270
		1162		1168			5	
731	8.813 3956		8.814 3171		1.185 6829	9.999 0786		269
732	8.813 5119	1163	8.814 4338	1167	1.185 5662	9.999 0781	5	268
733	8.813 6281	1162	8.814 5505	1167	1.185 4495	9.999 0776	5	267
		1161		1166			5	
734	8.813 7442		8.814 6671		1.185 3329	9.999 0771		266
735	8.813 8603	1161	8.814 7838	1167	1.185 2162	9.999 0766	5	265
736	8.813 9764	1161	8.814 9004	1166	1.185 0996	9.999 0761	5	264
		1161		1165			5	
737	8.814 0925		8.815 0169		1.184 9831	9.999 0756		263
738	8.814 2085	1160	8.815 1334	1165	1.184 8666	9.999 0751	5	262
739	8.814 3245	1160	8.815 2499	1165	1.184 7501	9.999 0746	5	261
		1160		1165			5	
.740	8.814 4405		8.815 3664		1.184 6336	9.999 0741		.260
		1160		1164			5	
741	8.814 5565		8.815 4828		1.184 5172	9.999 0736		259
742	8.814 6724	1159	8.815 5992	1164	1.184 4008	9.999 0731	5	258
743	8.814 7882	1158	8.815 7156	1164	1.184 2844	9.999 0726	5	257
		1159		1164			5	
744	8.814 9041		8.815 8320		1.184 1680	9.999 0721		256
745	8.815 0199	1158	8.815 9483	1163	1.184 0517	9.999 0716	5	255
746	8.815 1357	1158	8.816 0646	1163	1.183 9354	9.999 0711	5	254
		1157		1162			5	
747	8.815 2514		8.816 1808		1.183 8192	9.999 0706		253
748	8.815 3672	1158	8.816 2970	1162	1.183 7030	9.999 0701	5	252
749	8.815 4829	1157	8.816 4132	1162	1.183 5868	9.999 0696	5	251
		1156		1162			5	
.750	8.815 5985		8.816 5294		1.183 4706	9.999 0691		.250
	cos	d	cotg	d	tang	sin	d	86°

$86^\circ.300 - 86^\circ.250$

P.P.

	1177	1175	1174
1	117.7	117.5	117.4
2	235.4	235.0	234.8
3	353.1	352.5	352.2
4	470.8	470.0	469.6
5	588.5	587.5	587.0
6	706.2	705.0	704.4
7	823.9	822.5	821.8
8	941.6	940.0	939.2
9	1059.3	1057.5	1056.6

	1173	1172	1171
1	117.3	117.2	117.1
2	234.6	234.4	234.2
3	351.9	351.6	351.3
4	469.2	468.8	468.4
5	586.5	586.0	585.5
6	703.8	703.2	702.6
7	821.1	820.4	819.7
8	938.4	937.6	936.8
9	1055.7	1054.8	1053.9

	1170	1169	1168
1	117.0	116.9	116.8
2	234.0	233.8	233.6
3	351.0	350.7	350.4
4	468.0	467.6	467.2
5	585.0	584.5	584.0
6	702.0	701.4	700.8
7	819.0	818.3	817.6
8	936.0	935.2	934.4
9	1053.0	1052.1	1051.2

	1167	1166	1165
1	116.7	116.6	116.5
2	233.4	233.2	233.0
3	350.1	349.8	349.5
4	466.8	466.4	466.0
5	583.5	583.0	582.5
6	700.2	699.6	699.0
7	816.9	816.2	815.5
8	933.6	932.8	932.0
9	1050.3	1049.4	1048.5

	1164	1163	1162
1	116.4	116.3	116.2
2	232.8	232.6	232.4
3	349.2	348.9	348.6
4	465.6	465.2	464.8
5	582.0	581.5	581.0
6	698.4	697.8	697.2
7	814.8	814.1	813.4
8	931.2	930.4	929.6
9	1047.6	1046.7	1045.8

	1161	1160	1159
1	116.1	116.0	115.9
2	232.2	232.0	231.8
3	348.3	348.0	347.7
4	464.4	464.0	463.6
5	580.5	580.0	579.5
6	696.6	696.0	695.4
7	812.7	812.0	811.3
8	928.8	928.0	927.2
9	1044.9	1044.0	1043.1

	1158	1157	1156
1	115.8	115.7	115.6
2	231.6	231.4	231.2
3	347.4	347.1	346.8
4	463.2	462.8	462.4
5	579.0	578.5	578.0
6	694.8	694.2	693.6
7	810.6	809.9	809.2
8	926.4	925.6	924.8
9	1042.2	1041.3	1040.4

$3^\circ.750 - 3^\circ.800$

3°	sin	d	tang	d	cotg	cos	d		P.P.		
.750	8.815 5985		8.816 5294		1.183 4706	9.999 0691		**.250**			
		1157		1161			5			1161	1160	1159
751	8.815 7142		8.816 6455		1.183 3545	9.999 0686		249	1	116.1	116.0	115.9
752	8.815 8298	1156	8.816 7616	1161	1.183 2384	9.999 0682	4	248	2	232.2	232.0	231.8
753	8.815 9453	1155	8.816 8777	1161	1.183 1223	9.999 0677	5	247	3	348.3	348.0	347.7
		1156		1160			5		4	464.4	464.0	463.6
754	8.816 0609		8.816 9937		1.183 0063	9.999 0672		246	5	580.5	580.0	579.5
755	8.816 1764	1155	8.817 1097	1160	1.182 8903	9.999 0667	5	245	6	696.6	696.0	695.4
756	8.816 2919	1155	8.817 2257	1160	1.182 7743	9.999 0662	5	244	7	812.7	812.0	811.3
		1154		1159			5		8	928.8	928.0	927.2
757	8.816 4073		8.817 3416		1.182 6584	9.999 0657		243	9	1044.9	1044.0	1043.1
758	8.816 5227	1154	8.817 4575	1159	1.182 5425	9.999 0652	5	242				
759	8.816 6381	1154	8.817 5734	1159	1.182 4266	9.999 0647	5	241		1158	1157	1156
		1153		1159			5		1	115.8	115.7	115.6
.760	8.816 7534		8.817 6893		1.182 3107	9.999 0642		**.240**	2	231.6	231.4	231.2
		1154		1158			5		3	347.4	347.1	346.8
761	8.816 8688		8.817 8051		1.182 1949	9.999 0637		239	4	463.2	462.8	462.4
762	8.816 9841	1153	8.817 9209	1158	1.182 0791	9.999 0632	5	238	5	579.0	578.5	578.0
763	8.817 0993	1152	8.818 0366	1157	1.181 9634	9.999 0627	5	237	6	694.8	694.2	693.6
		1153		1158			5		7	810.6	809.9	809.2
764	8.817 2146		8.818 1524		1.181 8476	9.999 0622		236	8	926.4	925.6	924.8
765	8.817 3298	1152	8.818 2681	1157	1.181 7319	9.999 0617	5	235	9	1042.2	1041.3	1040.4
766	8.817 4449	1151	8.818 3837	1156	1.181 6163	9.999 0612	5	234				
		1152		1157			5			1155	1154	1153
767	8.817 5601		8.818 4994		1.181 5006	9.999 0607		233	1	115.5	115.4	115.3
768	8.817 6752	1151	8.818 6150	1156	1.181 3850	9.999 0602	5	232	2	231.0	230.8	230.6
769	8.817 7902	1150	8.818 7306	1156	1.181 2694	9.999 0597	5	231	3	346.5	346.2	345.9
		1151		1155			5		4	462.0	461.6	461.2
.770	8.817 9053		8.818 8461		1.181 1539	9.999 0592		**.230**	5	577.5	577.0	576.5
		1150		1155			5		6	693.0	692.4	691.8
771	8.818 0203		8.818 9616		1.181 0384	9.999 0587		229	7	808.5	807.8	807.1
772	8.818 1353	1150	8.819 0771	1155	1.180 9229	9.999 0582	5	228	8	924.0	923.2	922.4
773	8.818 2502	1149	8.819 1926	1155	1.180 8074	9.999 0577	5	227	9	1039.5	1038.6	1037.7
		1150		1154			5					
774	8.818 3652		8.819 3080		1.180 6920	9.999 0572		226		1152	1151	1150
775	8.818 4801	1149	8.819 4234	1154	1.180 5766	9.999 0567	5	225	1	115.2	115.1	115.0
776	8.818 5949	1148	8.819 5387	1153	1.180 4613	9.999 0562	5	224	2	230.4	230.2	230.0
		1149		1154			5		3	345.6	345.3	345.0
777	8.818 7098		8.819 6541		1.180 3459	9.999 0557		223	4	460.8	460.4	460.0
778	8.818 8246	1148	8.819 7694	1153	1.180 2306	9.999 0552	5	222	5	576.0	575.5	575.0
779	8.818 9393	1147	8.819 8847	1153	1.180 1153	9.999 0547	5	221	6	691.2	690.6	690.0
		1148		1152			5		7	806.4	805.7	805.0
.780	8.819 0541		8.819 9999		1.180 0001	9.999 0542		**.220**	8	921.6	920.8	920.0
		1147		1152			5		9	1036.8	1035.9	1035.0
781	8.819 1688		8.820 1151		1.179 8849	9.999 0537		219				
782	8.819 2835	1147	8.820 2303	1152	1.179 7697	9.999 0532	5	218		1149	1148	1147
783	8.819 3981	1146	8.820 3454	1151	1.179 6546	9.999 0527	5	217	1	114.9	114.8	114.7
		1146		1152			5		2	229.8	229.6	229.4
784	8.819 5127		8.820 4606		1.179 5394	9.999 0522		216	3	344.7	344.4	344.1
785	8.819 6273	1146	8.820 5757	1151	1.179 4243	9.999 0517	5	215	4	459.6	459.2	458.8
786	8.819 7419	1146	8.820 6907	1150	1.179 3093	9.999 0512	5	214	5	574.5	574.0	573.5
		1145		1150			5		6	689.4	688.8	688.2
787	8.819 8564		8.820 8057		1.179 1943	9.999 0507		213	7	804.3	803.6	802.9
788	8.819 9709	1145	8.820 9207	1150	1.179 0793	9.999 0502	5	212	8	919.2	918.4	917.6
789	8.820 0854	1145	8.821 0357	1150	1.178 9643	9.999 0497	5	211	9	1034.1	1033.2	1032.3
		1144		1150			5					
.790	8.820 1998		8.821 1507		1.178 8493	9.999 0492		**.210**		1146	1145	1144
		1144		1149			5		1	114.6	114.5	114.4
791	8.820 3142		8.821 2656		1.178 7344	9.999 0487		209	2	229.2	229.0	228.8
792	8.820 4286	1144	8.821 3804	1148	1.178 6196	9.999 0482	5	208	3	343.8	343.5	343.2
793	8.820 5429	1143	8.821 4953	1149	1.178 5047	9.999 0477	5	207	4	458.4	458.0	457.6
		1144		1148			5		5	573.0	572.5	572.0
794	8.820 6573		8.821 6101		1.178 3899	9.999 0472		206	6	687.6	687.0	686.4
795	8.820 7716	1143	8.821 7249	1148	1.178 2751	9.999 0467	5	205	7	802.2	801.5	800.8
796	8.820 8858	1142	8.821 8397	1148	1.178 1603	9.999 0462	5	204	8	916.8	916.0	915.2
		1142		1147			6		9	1031.4	1030.5	1029.6
797	8.821 0000		8.821 9544		1.178 0456	9.999 0456		203				
798	8.821 1142	1142	8.822 0691	1147	1.177 9309	9.999 0451	5	202		1143	1142	1141
799	8.821 2284	1142	8.822 1838	1147	1.177 8162	9.999 0446	5	201	1	114.3	114.2	114.1
		1141		1146			5		2	228.6	228.4	228.2
.800	8.821 3425		8.822 2984		1.177 7016	9.999 0441		**.200**	3	342.9	342.6	342.3
									4	457.2	456.8	456.4
									5	571.5	571.0	570.5
									6	685.8	685.2	684.6
									7	800.1	799.4	798.7
									8	914.4	913.6	912.8
									9	1028.7	1027.8	1026.9
	cos	d	cotg	d	tang	sin	d	86°	P.P.			

$86^\circ.250 - 86^\circ.200$

3°.800 — 3°.850

3°	sin	d	tang	d	cotg	cos	d		P.P.		
.800	8.821 3425		8.822 2984		1.177 7016	9.999 0441		.200			
		1141		1146			5			1146	1145	1144
801	8.821 4566		8.822 4130		1.177 5870	9.999 0436		199	1	114.6	114.5	114.4
802	8.821 5707	1141	8.822 5276	1146	1.177 4724	9.999 0431	5	198	2	229.2	229.0	228.8
803	8.821 6848	1141	8.822 6421	1145	1.177 3579	9.999 0426	5	197	3	343.8	343.5	343.2
		1140		1145			5		4	458.4	458.0	457.6
804	8.821 7988		8.822 7566		1.177 2434	9.999 0421		196	5	573.0	572.5	572.0
805	8.821 9128	1140	8.822 8711	1145	1.177 1289	9.999 0416	5	195	6	687.6	687.0	686.4
806	8.822 0267	1139	8.822 9856	1145	1.177 0144	9.999 0411	5	194	7	802.2	801.5	800.8
		1139		1144			5		8	916.8	916.0	915.2
807	8.822 1406		8.823 1000		1.176 9000	9.999 0406		193	9	1031.4	1030.5	1029.6
808	8.822 2545	1139	8.823 2144	1144	1.176 7856	9.999 0401	5	192				
809	8.822 3684	1139	8.823 3288	1144	1.176 6712	9.999 0396	5	191		1143	1142	1141
		1138		1143			5		1	114.3	114.2	114.1
.810	8.822 4822		8.823 4431		1.176 5569	9.999 0391		.190	2	228.6	228.4	228.2
		1138		1143			5		3	342.9	342.6	342.3
811	8.822 5960		8.823 5574		1.176 4426	9.999 0386		189	4	457.2	456.8	456.4
812	8.822 7098	1138	8.823 6717	1143	1.176 3283	9.999 0381	5	188	5	571.5	571.0	570.5
813	8.822 8236	1138	8.823 7860	1143	1.176 2140	9.999 0376	5	187	6	685.8	685.2	684.6
		1137		1142			5		7	800.1	799.4	798.7
814	8.822 9373		8.823 9002		1.176 0998	9.999 0371		186	8	914.4	913.6	912.8
815	8.823 0510	1137	8.824 0144	1142	1.175 9856	9.999 0366	5	185	9	1028.7	1027.8	1026.9
816	8.823 1646	1136	8.824 1285	1141	1.175 8715	9.999 0361	5	184				
		1136		1142			5			1140	1139	1138
817	8.823 2782		8.824 2427		1.175 7573	9.999 0356		183	1	114.0	113.9	113.8
818	8.823 3918	1136	8.824 3568	1141	1.175 6432	9.999 0351	5	182	2	228.0	227.8	227.6
819	8.823 5054	1136	8.824 4709	1141	1.175 5291	9.999 0345	6	181	3	342.0	341.7	341.4
		1135		1140			5		4	456.0	455.6	455.2
.820	8.823 6189		8.824 5849		1.175 4151	9.999 0340		.180	5	570.0	569.5	569.0
		1135		1140			5		6	684.0	683.4	682.8
821	8.823 7324		8.824 6989		1.175 3011	9.999 0335		179	7	798.0	797.3	796.6
822	8.823 8459	1135	8.824 8129	1140	1.175 1871	9.999 0330	5	178	8	912.0	911.2	910.4
823	8.823 9594	1135	8.824 9268	1139	1.175 0732	9.999 0325	5	177	9	1026.0	1025.1	1024.2
		1134		1140			5					
824	8.824 0728		8.825 0408		1.174 9592	9.999 0320		176		1137	1136	1135
825	8.824 1862	1134	8.825 1547	1139	1.174 8453	9.999 0315	5	175	1	113.7	113.6	113.5
826	8.824 2995	1133	8.825 2685	1138	1.174 7315	9.999 0310	5	174	2	227.4	227.2	227.0
		1134		1139			5		3	341.1	340.8	340.5
827	8.824 4129		8.825 3824		1.174 6176	9.999 0305		173	4	454.8	454.4	454.0
828	8.824 5262	1133	8.825 4962	1138	1.174 5038	9.999 0300	5	172	5	568.5	568.0	567.5
829	8.824 6394	1132	8.825 6099	1137	1.174 3901	9.999 0295	5	171	6	682.2	681.6	681.0
		1133		1138			5		7	795.9	795.2	794.5
.830	8.824 7527		8.825 7237		1.174 2763	9.999 0290		.170	8	909.6	908.8	908.0
		1132		1137			5		9	1023.3	1022.4	1021.5
831	8.824 8659		8.825 8374		1.174 1626	9.999 0285		169				
832	8.824 9790	1131	8.825 9511	1137	1.174 0489	9.999 0280	5	168		1134	1133	1132
833	8.825 0922	1132	8.826 0647	1136	1.173 9353	9.999 0275	5	167	1	113.4	113.3	113.2
		1131		1137			6		2	226.8	226.6	226.4
834	8.825 2053		8.826 1784		1.173 8216	9.999 0269		166	3	340.2	339.9	339.6
835	8.825 3184	1131	8.826 2920	1136	1.173 7080	9.999 0264	5	165	4	453.6	453.2	452.8
836	8.825 4315	1131	8.826 4055	1135	1.173 5945	9.999 0259	5	164	5	567.0	566.5	566.0
		1130		1136			5		6	680.4	679.8	679.2
837	8.825 5445		8.826 5191		1.173 4809	9.999 0254		163	7	793.8	793.1	792.4
838	8.825 6575	1130	8.826 6326	1135	1.173 3674	9.999 0249	5	162	8	907.2	906.4	905.6
839	8.825 7705	1130	8.826 7461	1135	1.173 2539	9.999 0244	5	161	9	1020.6	1019.7	1018.8
		1129		1134			5					
.840	8.825 8834		8.826 8595		1.173 1405	9.999 0239		.160		1131	1130	1129
		1129		1134			5		1	113.1	113.0	112.9
841	8.825 9963		8.826 9729		1.173 0271	9.999 0234		159	2	226.2	226.0	225.8
842	8.826 1092	1129	8.827 0863	1134	1.172 9137	9.999 0229	5	158	3	339.3	339.0	338.7
843	8.826 2221	1129	8.827 1997	1134	1.172 8003	9.999 0224	5	157	4	452.4	452.0	451.6
		1128		1133			5		5	565.5	565.0	564.5
844	8.826 3349		8.827 3130		1.172 6870	9.999 0219		156	6	678.6	678.0	677.4
845	8.826 4477	1128	8.827 4263	1133	1.172 5737	9.999 0213	6	155	7	791.7	791.0	790.3
846	8.826 5605	1128	8.827 5396	1133	1.172 4604	9.999 0208	5	154	8	904.8	904.0	903.2
		1127		1133			5		9	1017.9	1017.0	1016.1
847	8.826 6732		8.827 6529		1.172 3471	9.999 0203		153				
848	8.826 7859	1127	8.827 7661	1132	1.172 2339	9.999 0198	5	152		1128	1127	1126
849	8.826 8986	1127	8.827 8793	1132	1.172 1207	9.999 0193	5	151	1	112.8	112.7	112.6
		1126		1131			5		2	225.6	225.4	225.2
.850	8.827 0112		8.827 9924		1.172 0076	9.999 0188		.150	3	338.4	338.1	337.8
	cos	d	cotg	d	tang	sin	d	86°	4	451.2	450.8	450.4
									5	564.0	563.5	563.0
									6	676.8	676.2	675.6
									7	789.6	788.9	788.2
									8	902.4	901.6	900.8
									9	1015.2	1014.3	1013.4

86°.200 — 86°.150

$3^\circ.850 - 3^\circ.900$

3°	sin	d	tang	d	cotg	cos	d		P.P.		
.850	8.827 0112		8.827 9924		1.172 0076	9.999 0188		**.150**			
		1126		1132			5			1132	1131	1130
851	8.827 1238		8.828 1056		1.171 8944	9.999 0183		149	1	113.2	113.1	113.0
852	8.827 2364	1126	8.828 2187	1131	1.171 7813	9.999 0178	5	148	2	226.4	226.2	226.0
853	8.827 3490	1126	8.828 3317	1130	1.171 6683	9.999 0173	5	147	3	339.6	339.3	339.0
		1125		1131			5		4	452.8	452.4	452.0
854	8.827 4615		8.828 4448		1.171 5552	9.999 0168		146	5	566.0	565.5	565.0
855	8.827 5740	1125	8.828 5578	1130	1.171 4422	9.999 0162	6	145	6	679.2	678.6	678.0
856	8.827 6865	1125	8.828 6708	1130	1.171 3292	9.999 0157	5	144	7	792.4	791.7	791.0
		1124		1129			5		8	905.6	904.8	904.0
857	8.827 7989		8.828 7837		1.171 2163	9.999 0152		143	9	1018.8	1017.9	1017.0
858	8.827 9114	1125	8.828 8966	1129	1.171 1034	9.999 0147	5	142				
859	8.828 0237	1123	8.829 0095	1129	1.170 9905	9.999 0142	5	141		1129	1128	1127
		1124		1129			5		1	112.9	112.8	112.7
.860	8.828 1361		8.829 1224		1.170 8776	9.999 0137		**.140**	2	225.8	225.6	225.4
		1123		1128			5		3	338.7	338.4	338.1
861	8.828 2484		8.829 2352		1.170 7648	9.999 0132		139	4	451.6	451.2	450.8
862	8.828 3607	1123	8.829 3481	1129	1.170 6519	9.999 0127	5	138	5	564.5	564.0	563.5
863	8.828 4730	1123	8.829 4608	1127	1.170 5392	9.999 0122	5	137	6	677.4	676.8	676.2
		1122		1128			6		7	790.3	789.6	788.9
864	8.828 5852		8.829 5736		1.170 4264	9.999 0116		136	8	903.2	902.4	901.6
865	8.828 6974	1122	8.829 6863	1127	1.170 3137	9.999 0111	5	135	9	1016.1	1015.2	1014.3
866	8.828 8096	1122	8.829 7990	1127	1.170 2010	9.999 0106	5	134				
		1122		1127			5			1126	1125	1124
867	8.828 9218		8.829 9117		1.170 0883	9.999 0101		133	1	112.6	112.5	112.4
868	8.829 0339	1121	8.830 0243	1126	1.169 9757	9.999 0096	5	132	2	225.2	225.0	224.8
869	8.829 1460	1121	8.830 1369	1126	1.169 8631	9.999 0091	5	131	3	337.8	337.5	337.2
		1121		1126			5		4	450.4	450.0	449.6
.870	8.829 2581		8.830 2495		1.169 7505	9.999 0086		**.130**	5	563.0	562.5	562.0
		1120		1125			5		6	675.6	675.0	674.4
871	8.829 3701		8.830 3620		1.169 6380	9.999 0081		129	7	788.2	787.5	786.8
872	8.829 4821	1120	8.830 4746	1126	1.169 5254	9.999 0075	6	128	8	900.8	900.0	899.2
873	8.829 5941	1120	8.830 5870	1124	1.169 4130	9.999 0070	5	127	9	1013.4	1012.5	1011.6
		1119		1125			5			1123	1122	1121
874	8.829 7060		8.830 6995		1.169 3005	9.999 0065		126	1	112.3	112.2	112.1
875	8.829 8179	1119	8.830 8119	1124	1.169 1881	9.999 0060	5	125	2	224.6	224.4	224.2
876	8.829 9298	1119	8.830 9243	1124	1.169 0757	9.999 0055	5	124	3	336.9	336.6	336.3
		1119		1124			5		4	449.2	448.8	448.4
877	8.830 0417		8.831 0367		1.168 9633	9.999 0050		123	5	561.5	561.0	560.5
878	8.830 1535	1118	8.831 1491	1124	1.168 8509	9.999 0045	5	122	6	673.8	673.2	672.6
879	8.830 2653	1118	8.831 2614	1123	1.168 7386	9.999 0040	5	121	7	786.1	785.4	784.7
		1118		1123			6		8	898.4	897.6	896.8
.880	8.830 3771		8.831 3737		1.168 6263	9.999 0034		**.120**	9	1010.7	1009.8	1008.9
		1118		1122			5			1120	1119	1118
881	8.830 4889		8.831 4859		1.168 5141	9.999 0029		119	1	112.0	111.9	111.8
882	8.830 6006	1117	8.831 5982	1123	1.168 4018	9.999 0024	5	118	2	224.0	223.8	223.6
883	8.830 7123	1117	8.831 7104	1122	1.168 2896	9.999 0019	5	117	3	336.0	335.7	335.4
		1116		1121			5		4	448.0	447.6	447.2
884	8.830 8239		8.831 8225		1.168 1775	9.999 0014		116	5	560.0	559.5	559.0
885	8.830 9356	1117	8.831 9347	1122	1.168 0653	9.999 0009	5	115	6	672.0	671.4	670.8
886	8.831 0472	1116	8.832 0468	1121	1.167 9532	9.999 0004	5	114	7	784.0	783.3	782.6
		1115		1121			6		8	896.0	895.2	894.4
887	8.831 1587		8.832 1589		1.167 8411	9.998 9998		113	9	1008.0	1007.1	1006.2
888	8.831 2703	1116	8.832 2709	1120	1.167 7291	9.998 9993	5	112				
889	8.831 3818	1115	8.832 3830	1121	1.167 6170	9.998 9988	5	111		1117	1116	1115
		1115		1120			5		1	111.7	111.6	111.5
.890	8.831 4933		8.832 4950		1.167 5050	9.998 9983		**.110**	2	223.4	223.2	223.0
		1114		1120			5		3	335.1	334.8	334.5
891	8.831 6047		8.832 6070		1.167 3930	9.998 9978		109	4	446.8	446.4	446.0
892	8.831 7162	1115	8.832 7189	1119	1.167 2811	9.998 9973	5	108	5	558.5	558.0	557.5
893	8.831 8276	1114	8.832 8308	1119	1.167 1692	9.998 9967	6	107	6	670.2	669.6	669.0
		1113		1119			5		7	781.9	781.2	780.5
894	8.831 9389		8.832 9427		1.167 0573	9.998 9962		106	8	893.6	892.8	892.0
895	8.832 0503	1114	8.833 0546	1119	1.166 9454	9.998 9957	5	105	9	1005.3	1004.4	1003.5
896	8.832 1616	1113	8.833 1664	1118	1.166 8336	9.998 9952	5	104				
		1113		1118			5			1114	1113	1112
897	8.832 2729		8.833 2782		1.166 7218	9.998 9947		103	1	111.4	111.3	111.2
898	8.832 3841	1112	8.833 3900	1118	1.166 6100	9.998 9942	5	102	2	222.8	222.6	222.4
899	8.832 4954	1113	8.833 5017	1117	1.166 4983	9.998 9936	6	101	3	334.2	333.9	333.6
		1112		1117			5		4	445.6	445.2	444.8
.900	8.832 6066		8.833 6134		1.166 3866	9.998 9931		**.100**	5	557.0	556.5	556.0
									6	668.4	667.8	667.2
	cos	d	cotg	d	tang	sin	d	86°	7	779.8	779.1	778.4
									8	891.2	890.4	889.6
									9	1002.6	1001.7	1000.8

$86^\circ.150 - 86^\circ.100$

$3^\circ.900 - 3^\circ.950$

3°	sin	d	tang	d	cotg	cos	d	
.900	8.832 6066		8.833 6134		1.166 3866	9.998 9931		**.100**
		1111		1117			5	
901	8.832 7177		8.833 7251		1.166 2749	9.998 9926		099
902	8.832 8289	1112	8.833 8368	1117	1.166 1632	9.998 9921	5	098
903	8.832 9400	1111	8.833 9484	1116	1.166 0516	9.998 9916	5	097
		1111		1116			5	
904	8.833 0511		8.834 0600		1.165 9400	9.998 9911		096
905	8.833 1621	1110	8.834 1716	1116	1.165 8284	9.998 9905	6	095
906	8.833 2732	1111	8.834 2831	1115	1.165 7169	9.998 9900	5	094
		1110		1115			5	
907	8.833 3842		8.834 3946		1.165 6054	9.998 9895		093
908	8.833 4951	1109	8.834 5061	1115	1.165 4939	9.998 9890	5	092
909	8.833 6061	1110	8.834 6176	1115	1.165 3824	9.998 9885	5	091
		1109		1114			5	
.910	8.833 7170		8.834 7290		1.165 2710	9.998 9880		**.090**
		1109		1114			6	
911	8.833 8279		8.834 8404		1.165 1596	9.998 9874		089
912	8.833 9387	1108	8.834 9518	1114	1.165 0482	9.998 9869	5	088
913	8.834 0496	1109	8.835 0632	1114	1.164 9368	9.998 9864	5	087
		1108		1113			5	
914	8.834 1604		8.835 1745		1.164 8255	9.998 9859		086
915	8.834 2711	1107	8.835 2858	1113	1.164 7142	9.998 9854	5	085
916	8.834 3819	1108	8.835 3970	1112	1.164 6030	9.998 9848	6	084
		1107		1113			5	
917	8.834 4926		8.835 5083		1.164 4917	9.998 9843		083
918	8.834 6033	1107	8.835 6195	1112	1.164 3805	9.998 9838	5	082
919	8.834 7139	1106	8.835 7307	1112	1.164 2693	9.998 9833	5	081
		1107		1111			5	
.920	8.834 8246		8.835 8418		1.164 1582	9.998 9828		**.080**
		1106		1111			6	
921	8.834 9352		8.835 9529		1.164 0471	9.998 9822		079
922	8.835 0457	1105	8.836 0640	1111	1.163 9360	9.998 9817	5	078
923	8.835 1563	1106	8.836 1751	1111	1.163 8249	9.998 9812	5	077
		1105		1110			5	
924	8.835 2668		8.836 2861		1.163 7139	9.998 9807		076
925	8.835 3773	1105	8.836 3971	1110	1.163 6029	9.998 9802	5	075
926	8.835 4878	1105	8.836 5081	1110	1.163 4919	9.998 9796	6	074
		1104		1110			5	
927	8.835 5982		8.836 6191		1.163 3809	9.998 9791		073
928	8.835 7086	1104	8.836 7300	1109	1.163 2700	9.998 9786	5	072
929	8.835 8190	1104	8.836 8409	1109	1.163 1591	9.998 9781	5	071
		1103		1109			5	
.930	8.835 9293		8.836 9518		1.163 0482	9.998 9776		**.070**
		1103		1108			6	
931	8.836 0396		8.837 0626		1.162 9374	9.998 9770		069
932	8.836 1499	1103	8.837 1734	1108	1.162 8266	9.998 9765	5	068
933	8.836 2602	1103	8.837 2842	1108	1.162 7158	9.998 9760	5	067
		1102		1107			5	
934	8.836 3704		8.837 3949		1.162 6051	9.998 9755		066
935	8.836 4806	1102	8.837 5057	1108	1.162 4943	9.998 9750	5	065
936	8.836 5908	1102	8.837 6164	1107	1.162 3836	9.998 9744	6	064
		1102		1107			5	
937	8.836 7010		8.837 7271		1.162 2729	9.998 9739		063
938	8.836 8111	1101	8.837 8377	1106	1.162 1623	9.998 9734	5	062
939	8.836 9212	1101	8.837 9483	1106	1.162 0517	9.998 9729	5	061
		1101		1106			5	
.940	8.837 0313		8.838 0589		1.161 9411	9.998 9724		**.060**
		1100		1106			6	
941	8.837 1413		8.838 1695		1.161 8305	9.998 9718		059
942	8.837 2513	1100	8.838 2800	1105	1.161 7200	9.998 9713	5	058
943	8.837 3613	1100	8.838 3905	1105	1.161 6095	9.998 9708	5	057
		1099		1105			5	
944	8.837 4712		8.838 5010		1.161 4990	9.998 9703		056
945	8.837 5812	1100	8.838 6114	1104	1.161 3886	9.998 9697	6	055
946	8.837 6911	1099	8.838 7219	1105	1.161 2781	9.998 9692	5	054
		1098		1103			5	
947	8.837 8009		8.838 8322		1.161 1678	9.998 9687		053
948	8.837 9108	1099	8.838 9426	1104	1.161 0574	9.998 9682	5	052
949	8.838 0206	1098	8.839 0530	1104	1.160 9470	9.998 9676	6	051
		1098		1103			5	
.950	8.838 1304		8.839 1633		1.160 8367	9.998 9671		**.050**
	cos	d	cotg	d	tang	sin	d	86°

P.P.

	1117	1116	1115
1	111.7	111.6	111.5
2	223.4	223.2	223.0
3	335.1	334.8	334.5
4	446.8	446.4	446.0
5	558.5	558.0	557.5
6	670.2	669.6	669.0
7	781.9	781.2	780.5
8	893.6	892.8	892.0
9	1005.3	1004.4	1003.5

	1114	1113	1112
1	111.4	111.3	111.2
2	222.8	222.6	222.4
3	334.2	333.9	333.6
4	445.6	445.2	444.8
5	557.0	556.5	556.0
6	668.4	667.8	667.2
7	779.8	779.1	778.4
8	891.2	890.4	889.6
9	1002.6	1001.7	1000.8

	1111	1110	1109
1	111.1	111.0	110.9
2	222.2	222.0	221.8
3	333.3	333.0	332.7
4	444.4	444.0	443.6
5	555.5	555.0	554.5
6	666.6	666.0	665.4
7	777.7	777.0	776.3
8	888.8	888.0	887.2
9	999.9	999.0	998.1

	1108	1107
1	110.8	110.7
2	221.6	221.4
3	332.4	332.1
4	443.2	442.8
5	554.0	553.5
6	664.8	664.2
7	775.6	774.9
8	886.4	885.6
9	997.2	996.3

	1106	1105	1104
1	110.6	110.5	110.4
2	221.2	221.0	220.8
3	331.8	331.5	331.2
4	442.4	442.0	441.6
5	553.0	552.5	552.0
6	663.6	663.0	662.4
7	774.2	773.5	772.8
8	884.8	884.0	883.2
9	995.4	994.5	993.6

	1103	1102	1101
1	110.3	110.2	110.1
2	220.6	220.4	220.2
3	330.9	330.6	330.3
4	441.2	440.8	440.4
5	551.5	551.0	550.5
6	661.8	661.2	660.6
7	772.1	771.4	770.7
8	882.4	881.6	880.8
9	992.7	991.8	990.9

	1100	1099	1098
1	110.0	109.9	109.8
2	220.0	219.8	219.6
3	330.0	329.7	329.4
4	440.0	439.6	439.2
5	550.0	549.5	549.0
6	660.0	659.4	658.8
7	770.0	769.3	768.6
8	880.0	879.2	878.4
9	990.0	989.1	988.2

$86^\circ.100 - 86^\circ.050$

3°.950 — 4°.000

3°	sin	d	tang	d	cotg	cos	d
.950	8.838 1304		8.839 1633		1.160 8367	9.998 9671	
		1097		1102			5
951	8.838 2401		8.839 2735		1.160 7265	9.998 9666	
952	8.838 3499	1098	8.839 3838	1103	1.160 6162	9.998 9661	5
953	8.838 4596	1097	8.839 4940	1102	1.160 5060	9.998 9656	5
		1097		1102			6
954	8.838 5693		8.839 6042		1.160 3958	9.998 9650	
955	8.838 6789	1096	8.839 7144	1102	1.160 2856	9.998 9645	5
956	8.838 7885	1096	8.839 8245	1101	1.160 1755	9.998 9640	5
		1096		1102			5
957	8.838 8981		8.839 9347		1.160 0653	9.998 9635	
958	8.839 0077	1096	8.840 0448	1101	1.159 9552	9.998 9629	6
959	8.839 1172	1095	8.840 1548	1100	1.159 8452	9.998 9624	5
		1095		1101			5
.960	8.839 2267		8.840 2649		1.159 7351	9.998 9619	
		1095		1100			5
961	8.839 3362		8.840 3749		1.159 6251	9.998 9614	
962	8.839 4457	1095	8.840 4848	1099	1.159 5152	9.998 9608	6
963	8.839 5551	1094	8.840 5948	1100	1.159 4052	9.998 9603	5
		1094		1099			5
964	8.839 6645		8.840 7047		1.159 2953	9.998 9598	
965	8.839 7739	1094	8.840 8146	1099	1.159 1854	9.998 9593	5
966	8.839 8832	1093	8.840 9245	1099	1.159 0755	9.998 9587	6
		1093		1098			5
967	8.839 9925		8.841 0343		1.158 9657	9.998 9582	
968	8.840 1018	1093	8.841 1441	1098	1.158 8559	9.998 9577	5
969	8.840 2111	1093	8.841 2539	1098	1.158 7461	9.998 9572	5
		1092		1098			6
.970	8.840 3203		8.841 3637		1.158 6363	9.998 9566	
		1092		1097			5
971	8.840 4295		8.841 4734		1.158 5266	9.998 9561	
972	8.840 5387	1092	8.841 5831	1097	1.158 4169	9.998 9556	5
973	8.840 6478	1091	8.841 6928	1097	1.158 3072	9.998 9551	5
		1092		1096			6
974	8.840 7570		8.841 8024		1.158 1976	9.998 9545	
975	8.840 8661	1091	8.841 9121	1097	1.158 0879	9.998 9540	5
976	8.840 9751	1090	8.842 0217	1096	1.157 9783	9.998 9535	5
		1091		1095			6
977	8.841 0842		8.842 1312		1.157 8688	9.998 9529	
978	8.841 1932	1090	8.842 2408	1096	1.157 7592	9.998 9524	5
979	8.841 3022	1090	8.842 3503	1095	1.157 6497	9.998 9519	5
		1089		1095			5
.980	8.841 4111		8.842 4598		1.157 5402	9.998 9514	
		1089		1094			6
981	8.841 5200		8.842 5692		1.157 4308	9.998 9508	
982	8.841 6290	1090	8.842 6786	1094	1.157 3214	9.998 9503	5
983	8.841 7378	1088	8.842 7880	1094	1.157 2120	9.998 9498	5
		1089		1094			5
984	8.841 8467		8.842 8974		1.157 1026	9.998 9493	
985	8.841 9555	1088	8.843 0068	1094	1.156 9932	9.998 9487	6
986	8.842 0643	1088	8.843 1161	1093	1.156 8839	9.998 9482	5
		1088		1093			5
987	8.842 1731		8.843 2254		1.156 7746	9.998 9477	
988	8.842 2818	1087	8.843 3347	1093	1.156 6653	9.998 9471	6
989	8.842 3905	1087	8.843 4439	1092	1.156 5561	9.998 9466	5
		1087		1092			5
.990	8.842 4992		8.843 5531		1.156 4469	9.998 9461	
		1086		1092			5
991	8.842 6078		8.843 6623		1.156 3377	9.998 9456	
992	8.842 7165	1087	8.843 7714	1091	1.156 2286	9.998 9450	6
993	8.842 8251	1086	8.843 8806	1092	1.156 1194	9.998 9445	5
		1085		1091			5
994	8.842 9336		8.843 9897		1.156 0103	9.998 9440	
995	8.843 0422	1086	8.844 0988	1091	1.155 9012	9.998 9434	6
996	8.843 1507	1085	8.844 2078	1090	1.155 7922	9.998 9429	5
		1085		1090			5
997	8.843 2592		8.844 3168		1.155 6832	9.998 9424	
998	8.843 3677	1085	8.844 4258	1090	1.155 5742	9.998 9418	6
999	8.843 4761	1084	8.844 5348	1090	1.155 4652	9.998 9413	5
		1084		1089			5
*.000	8.843 5845		8.844 6437		1.155 3563	9.998 9408	
	cos	d	cotg	d	tang	sin	d

	P.P.		
.050			
		1103	1102	1101
049	1	110.3	110.2	110.1
048	2	220.6	220.4	220.2
047	3	330.9	330.6	330.3
	4	441.2	440.8	440.4
046	5	551.5	551.0	550.5
045	6	661.8	661.2	660.6
044	7	772.1	771.4	770.7
	8	882.4	881.6	880.8
043	9	992.7	991.8	990.9
		1100	1099	1098
042	1	110.0	109.9	109.8
041	2	220.0	219.8	219.6
.040	3	330.0	329.7	329.4
	4	440.0	439.6	439.2
039	5	550.0	549.5	549.0
038	6	660.0	659.4	658.8
037	7	770.0	769.3	768.6
	8	880.0	879.2	878.4
036	9	990.0	989.1	988.2
		1097	1096	1095
035	1	109.7	109.6	109.5
034	2	219.4	219.2	219.0
	3	329.1	328.8	328.5
033	4	438.8	438.4	438.0
032	5	548.5	548.0	547.5
031	6	658.2	657.6	657.0
	7	767.9	767.2	766.5
.030	8	877.6	876.8	876.0
	9	987.3	986.4	985.5
029				
		1094	1093	1092
028	1	109.4	109.3	109.2
027	2	218.8	218.6	218.4
	3	328.2	327.9	327.6
026	4	437.6	437.2	436.8
025	5	547.0	546.5	546.0
024	6	656.4	655.8	655.2
	7	765.8	765.1	764.4
023	8	875.2	874.4	873.6
022	9	984.6	983.7	982.8
021				
		1091	1090	1089
.020	1	109.1	109.0	108.9
	2	218.2	218.0	217.8
019	3	327.3	327.0	326.7
018	4	436.4	436.0	435.6
017	5	545.5	545.0	544.5
	6	654.6	654.0	653.4
016	7	763.7	763.0	762.3
	8	872.8	872.0	871.2
015	9	981.9	981.0	980.1
014				
		1088	1087	1086
013	1	108.8	108.7	108.6
012	2	217.6	217.4	217.2
011	3	326.4	326.1	325.8
	4	435.2	434.8	434.4
.010	5	544.0	543.5	543.0
	6	652.8	652.2	651.6
009	7	761.6	760.9	760.2
008	8	870.4	869.6	868.8
007	9	979.2	978.3	977.4
		1085	1084
006	1	108.5	108.4
005	2	217.0	216.8
004	3	325.5	325.2
	4	434.0	433.6
003	5	542.5	542.0
002	6	651.0	650.4
001	7	759.5	758.8
	8	868.0	867.2
.000	9	976.5	975.6
86°	P.P.		

86°.050 — 86°.000

4°.000 — 4°.050

4°	sin	d	tang	d	cotg	cos	d		P.P.
.000	8.843 5845		8.844 6437		1.155 3563	9.998 9408		*000	
		1084		1089			5		1089 1088 1087
001	8.843 6929		8.844 7526		1.155 2474	9.998 9403	6	999	1 108.9 108.8 108.7
002	8.843 8013	1084	8.844 8615	1089	1.155 1385	9.998 9397		998	2 217.8 217.6 217.4
003	8.843 9096	1083	8.844 9704	1089	1.155 0296	9.998 9392	5	997	3 326.7 326.4 326.1
		1083		1088			5		4 435.6 435.2 434.8
004	8.844 0179		8.845 0792		1.154 9208	9.998 9387	6	996	5 544.5 544.0 543.5
005	8.844 1262	1083	8.845 1880	1088	1.154 8120	9.998 9381		995	6 653.4 652.8 652.2
006	8.844 2344	1082	8.845 2968	1088	1.154 7032	9.998 9376	5	994	7 762.3 761.6 760.9
		1082		1088			5		8 871.2 870.4 869.6
007	8.844 3426		8.845 4056		1.154 5944	9.998 9371	6	993	9 980.1 979.2 978.3
008	8.844 4508	1082	8.845 5143	1087	1.154 4857	9.998 9365		992	1086 1085 1084
009	8.844 5590	1082	8.845 6230	1087	1.154 3770	9.998 9360	5	991	1 108.6 108.5 108.4
		1081		1087			5		2 217.2 217.0 216.8
.010	8.844 6671		8.845 7317		1.154 2683	9.998 9355		.990	3 325.8 325.5 325.2
		1081		1086			5		4 434.4 434.0 433.6
011	8.844 7752		8.845 8403		1.154 1597	9.998 9350	6	989	5 543.0 542.5 542.0
012	8.844 8833	1081	8.845 9489	1086	1.154 0511	9.998 9344		988	6 651.6 651.0 650.4
013	8.844 9914	1081	8.846 0575	1086	1.153 9425	9.998 9339	5	987	7 760.2 759.5 758.8
		1080		1086			5		8 868.8 868.0 867.2
014	8.845 0994		8.846 1661		1.153 8339	9.998 9334	6	986	9 977.4 976.5 975.6
015	8.845 2074	1080	8.846 2746	1085	1.153 7254	9.998 9328		985	1083 1082 1081
016	8.845 3154	1080	8.846 3831	1085	1.153 6169	9.998 9323	5	984	1 108.3 108.2 108.1
		1080		1085			5		2 216.6 216.4 216.2
017	8.845 4234		8.846 4916		1.153 5084	9.998 9318	6	983	3 324.9 324.6 324.3
018	8.845 5313	1079	8.846 6000	1084	1.153 4000	9.998 9312		982	4 433.2 432.8 432.4
019	8.845 6392	1079	8.846 7085	1085	1.153 2915	9.998 9307	5	981	5 541.5 541.0 540.5
		1078		1084			5		6 649.8 649.2 648.6
.020	8.845 7470		8.846 8169		1.153 1831	9.998 9302		.980	7 758.1 757.4 756.7
		1079		1084			6		8 866.4 865.6 864.8
021	8.845 8549		8.846 9253		1.153 0747	9.998 9296		979	9 974.7 973.8 972.9
022	8.845 9627	1078	8.847 0336	1083	1.152 9664	9.998 9291	5	978	1080 1079 1078
023	8.846 0705	1078	8.847 1419	1083	1.152 8581	9.998 9286	5	977	1 108.0 107.9 107.8
		1078		1083			6		2 216.0 215.8 215.6
024	8.846 1783		8.847 2502		1.152 7498	9.998 9280		976	3 324.0 323.7 323.4
025	8.846 2860	1077	8.847 3585	1083	1.152 6415	9.998 9275	5	975	4 432.0 431.6 431.2
026	8.846 3937	1077	8.847 4667	1082	1.152 5333	9.998 9270	5	974	5 540.0 539.5 539.0
		1077		1082			6		6 648.0 647.4 646.8
027	8.846 5014		8.847 5749		1.152 4251	9.998 9264		973	7 756.0 755.3 754.6
028	8.846 6090	1076	8.847 6831	1082	1.152 3169	9.998 9259	5	972	8 864.0 863.2 862.4
029	8.846 7167	1077	8.847 7913	1082	1.152 2087	9.998 9254	5	971	9 972.0 971.1 970.2
		1076		1081			6		1077 1076 1075
.030	8.846 8243		8.847 8994		1.152 1006	9.998 9248		.970	
		1075		1081			5		1 107.7 107.6 107.5
031	8.846 9318		8.848 0075		1.151 9925	9.998 9243		969	2 215.4 215.2 215.0
032	8.847 0394	1076	8.848 1156	1081	1.151 8844	9.998 9238	5	968	3 323.1 322.8 322.5
033	8.847 1469	1075	8.848 2237	1081	1.151 7763	9.998 9232	6	967	4 430.8 430.4 430.0
		1075		1080			5		5 538.5 538.0 537.5
034	8.847 2544		8.848 3317		1.151 6683	9.998 9227		966	6 646.2 645.6 645.0
035	8.847 3619	1075	8.848 4397	1080	1.151 5603	9.998 9222	5	965	7 753.9 753.2 752.5
036	8.847 4693	1074	8.848 5477	1080	1.151 4523	9.998 9216	6	964	8 861.6 860.8 860.0
		1074		1079			5		9 969.3 968.4 967.5
037	8.847 5767		8.848 6556		1.151 3444	9.998 9211		963	1074 1073 1072
038	8.847 6841	1074	8.848 7636	1080	1.151 2364	9.998 9206	5	962	1 107.4 107.3 107.2
039	8.847 7915	1074	8.848 8714	1078	1.151 1286	9.998 9200	6	961	2 214.8 214.6 214.4
		1073		1079			5		3 322.2 321.9 321.6
.040	8.847 8988		8.848 9793		1.151 0207	9.998 9195		.960	4 429.6 429.2 428.8
		1073		1079			6		5 537.0 536.5 536.0
041	8.848 0061		8.849 0872		1.150 9128	9.998 9189		959	6 644.4 643.8 643.2
042	8.848 1134	1073	8.849 1950	1078	1.150 8050	9.998 9184	5	958	7 751.8 751.1 750.4
043	8.848 2206	1072	8.849 3028	1078	1.150 6972	9.998 9179	5	957	8 859.2 858.4 857.6
		1073		1077			6		9 966.6 965.7 964.8
044	8.848 3279		8.849 4105		1.150 5895	9.998 9173		956	1071
045	8.848 4351	1072	8.849 5183	1078	1.150 4817	9.998 9168	5	955	1 107.1
046	8.848 5422	1071	8.849 6260	1077	1.150 3740	9.998 9163	5	954	2 214.2
		1072		1077			6		3 321.3
047	8.848 6494		8.849 7337		1.150 2663	9.998 9157		953	4 428.4
048	8.848 7565	1071	8.849 8413	1076	1.150 1587	9.998 9152	5	952	5 535.5
049	8.848 8636	1071	8.849 9489	1076	1.150 0511	9.998 9147	5	951	6 642.6
		1071		1077			6		7 749.7
.050	8.848 9707		8.850 0566		1.149 9434	9.998 9141		.950	8 856.8
									9 963.9
	cos	d	cotg	d	tang	sin	d	85°	P.P.

86°.000 — 85°.950

$4^\circ.050 - 4^\circ.100$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.050	8.848 9707		8.850 0566		1.149 9434	9.998 9141		**.950**	
		1070		1075			5		
051	8.849 0777		8.850 1641		1.149 8359	9.998 9136		949	
052	8.849 1847	1070	8.850 2717	1076	1.149 7283	9.998 9130	6	948	
053	8.849 2917	1070	8.850 3792	1075	1.149 6208	9.998 9125	5	947	
		1070		1075			5		
054	8.849 3987		8.850 4867		1.149 5133	9.998 9120		946	
055	8.849 5056	1069	8.850 5942	1075	1.149 4058	9.998 9114	6	945	
056	8.849 6125	1069	8.850 7016	1074	1.149 2984	9.998 9109	5	944	
		1069		1074			5		
057	8.849 7194		8.850 8090		1.149 1910	9.998 9104		943	
058	8.849 8263	1069	8.850 9164	1074	1.149 0836	9.998 9098	6	942	
059	8.849 9331	1068	8.851 0238	1074	1.148 9762	9.998 9093	5	941	
		1068		1073			6		
.060	8.850 0399		8.851 1311		1.148 8689	9.998 9087		**.940**	
		1068		1074			5		
061	8.850 1467		8.851 2385		1.148 7615	9.998 9082		939	
062	8.850 2534	1067	8.851 3457	1072	1.148 6543	9.998 9077	5	938	
063	8.850 3601	1067	8.851 4530	1073	1.148 5470	9.998 9071	6	937	
		1067		1072			5		
064	8.850 4668		8.851 5602		1.148 4398	9.998 9066		936	
065	8.850 5735	1067	8.851 6675	1073	1.148 3325	9.998 9061	5	935	
066	8.850 6802	1067	8.851 7746	1071	1.148 2254	9.998 9055	6	934	
		1066		1072			5		
067	8.850 7868		8.851 8818		1.148 1182	9.998 9050		933	
068	8.850 8934	1066	8.851 9889	1071	1.148 0111	9.998 9044	6	932	
069	8.850 9999	1065	8.852 0960	1071	1.147 9040	9.998 9039	5	931	
		1066		1071			5		
.070	8.851 1065		8.852 2031		1.147 7969	9.998 9034		**.930**	
		1065		1071			6		
071	8.851 2130		8.852 3102		1.147 6898	9.998 9028		929	
072	8.851 3195	1065	8.852 4172	1070	1.147 5828	9.998 9023	5	928	
073	8.851 4259	1064	8.852 5242	1070	1.147 4758	9.998 9017	6	927	
		1065		1070			5		
074	8.851 5324		8.852 6312		1.147 3688	9.998 9012		926	
075	8.851 6388	1064	8.852 7381	1069	1.147 2619	9.998 9007	5	925	
076	8.851 7452	1064	8.852 8450	1069	1.147 1550	9.998 9001	6	924	
		1063		1069			5		
077	8.851 8515		8.852 9519		1.147 0481	9.998 8996		923	
078	8.851 9579	1064	8.853 0588	1069	1.146 9412	9.998 8990	6	922	
079	8.852 0642	1063	8.853 1657	1069	1.146 8343	9.998 8985	5	921	
		1062		1068			5		
.080	8.852 1704		8.853 2725		1.146 7275	9.998 8980		**.920**	
		1063		1068			6		
081	8.852 2767		8.853 3793		1.146 6207	9.998 8974		919	
082	8.852 3829	1062	8.853 4860	1067	1.146 5140	9.998 8969	5	918	
083	8.852 4891	1062	8.853 5928	1068	1.146 4072	9.998 8963	6	917	
		1062		1067			5		
084	8.852 5953		8.853 6995		1.146 3005	9.998 8958		916	
085	8.852 7014	1061	8.853 8062	1067	1.146 1938	9.998 8953	5	915	
086	8.852 8076	1062	8.853 9128	1066	1.146 0872	9.998 8947	6	914	
		1060		1067			5		
087	8.852 9136		8.854 0195		1.145 9805	9.998 8942		913	
088	8.853 0197	1061	8.854 1261	1066	1.145 8739	9.998 8936	6	912	
089	8.853 1258	1061	8.854 2327	1066	1.145 7673	9.998 8931	5	911	
		1060		1065			6		
.090	8.853 2318		8.854 3392		1.145 6608	9.998 8925		**.910**	
		1060		1066			5		
091	8.853 3378		8.854 4458		1.145 5542	9.998 8920		909	
092	8.853 4437	1059	8.854 5523	1065	1.145 4477	9.998 8915	5	908	
093	8.853 5497	1060	8.854 6587	1064	1.145 3413	9.998 8909	6	907	
		1059		1065			5		
094	8.853 6556		8.854 7652		1.145 2348	9.998 8904		906	
095	8.853 7615	1059	8.854 8716	1064	1.145 1284	9.998 8898	6	905	
096	8.853 8673	1058	8.854 9780	1064	1.145 0220	9.998 8893	5	904	
		1059		1064			5		
097	8.853 9732		8.855 0844		1.144 9156	9.998 8888		903	
098	8.854 0790	1058	8.855 1908	1064	1.144 8092	9.998 8882	6	902	
099	8.854 1848	1058	8.855 2971	1063	1.144 7029	9.998 8877	5	901	
		1057		1063			6		
.100	8.854 2905		8.855 4034		1.144 5966	9.998 8871		**.900**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	1076	1075	1074
1	107.6	107.5	107.4
2	215.2	215.0	214.8
3	322.8	322.5	322.2
4	430.4	430.0	429.6
5	538.0	537.5	537.0
6	645.6	645.0	644.4
7	753.2	752.5	751.8
8	860.8	860.0	859.2
9	968.4	967.5	966.6

	1073	1072	1071
1	107.3	107.2	107.1
2	214.6	214.4	214.2
3	321.9	321.6	321.3
4	429.2	428.8	428.4
5	536.5	536.0	535.5
6	643.8	643.2	642.6
7	751.1	750.4	749.7
8	858.4	857.6	856.8
9	965.7	964.8	963.9

	1070	1069	1068
1	107.0	106.9	106.8
2	214.0	213.8	213.6
3	321.0	320.7	320.4
4	428.0	427.6	427.2
5	535.0	534.5	534.0
6	642.0	641.4	640.8
7	749.0	748.3	747.6
8	856.0	855.2	854.4
9	963.0	962.1	961.2

	1067	1066	1065
1	106.7	106.6	106.5
2	213.4	213.2	213.0
3	320.1	319.8	319.5
4	426.8	426.4	426.0
5	533.5	533.0	532.5
6	640.2	639.6	639.0
7	746.9	746.2	745.5
8	853.6	852.8	852.0
9	960.3	959.4	958.5

	1064	1063	1062
1	106.4	106.3	106.2
2	212.8	212.6	212.4
3	319.2	318.9	318.6
4	425.6	425.2	424.8
5	532.0	531.5	531.0
6	638.4	637.8	637.2
7	744.8	744.1	743.4
8	851.2	850.4	849.6
9	957.6	956.7	955.8

	1061	1060	1059
1	106.1	106.0	105.9
2	212.2	212.0	211.8
3	318.3	318.0	317.7
4	424.4	424.0	423.6
5	530.5	530.0	529.5
6	636.6	636.0	635.4
7	742.7	742.0	741.3
8	848.8	848.0	847.2
9	954.9	954.0	953.1

	1058	1057
1	105.8	105.7
2	211.6	211.4
3	317.4	317.1
4	423.2	422.8
5	529.0	528.5
6	634.8	634.2
7	740.6	739.9
8	846.4	845.6
9	952.2	951.3

$85^\circ.950 - 85^\circ.900$

$4^\circ.100 - 4^\circ.150$

4°	sin	d	tang	d	cotg	cos	d	
.100	8.854 2905		8.855 4034		1.144 5966	9.998 8871		**.900**
		1057		1063			5	
101	8.854 3962		8.855 5097		1.144 4903	9.998 8866		899
102	8.854 5020	1058	8.855 6159	1062	1.144 3841	9.998 8860	6	898
103	8.854 6076	1056	8.855 7221	1062	1.144 2779	9.998 8855	5	897
		1057		1062			6	
104	8.854 7133		8.855 8283		1.144 1717	9.998 8849		896
105	8.854 8189	1056	8.855 9345	1062	1.144 0655	9.998 8844	5	895
106	8.854 9245	1056	8.856 0407	1062	1.143 9593	9.998 8839	5	894
		1056		1061			6	
107	8.855 0301		8.856 1468		1.143 8532	9.998 8833		893
108	8.855 1356	1055	8.856 2529	1061	1.143 7471	9.998 8828	5	892
109	8.855 2412	1056	8.856 3589	1060	1.143 6411	9.998 8822	6	891
		1055		1061			5	
.110	8.855 3467		8.856 4650		1.143 5350	9.998 8817		**.890**
		1054		1060			6	
111	8.855 4521		8.856 5710		1.143 4290	9.998 8811		889
112	8.855 5576	1055	8.856 6770	1060	1.143 3230	9.998 8806	5	888
113	8.855 6630	1054	8.856 7830	1060	1.143 2170	9.998 8800	6	887
		1054		1059			5	
114	8.855 7684		8.856 8889		1.143 1111	9.998 8795		886
115	8.855 8738	1054	8.856 9948	1059	1.143 0052	9.998 8790	5	885
116	8.855 9791	1053	8.857 1007	1059	1.142 8993	9.998 8784	6	884
		1053		1059			5	
117	8.856 0844		8.857 2066		1.142 7934	9.998 8779		883
118	8.856 1897	1053	8.857 3124	1058	1.142 6876	9.998 8773	6	882
119	8.856 2950	1053	8.857 4182	1058	1.142 5818	9.998 8768	5	881
		1053		1058			6	
.120	8.856 4003		8.857 5240		1.142 4760	9.998 8762		**.880**
		1052		1058			5	
121	8.856 5055		8.857 6298		1.142 3702	9.998 8757		879
122	8.856 6107	1052	8.857 7355	1057	1.142 2645	9.998 8751	6	878
123	8.856 7158	1051	8.857 8412	1057	1.142 1588	9.998 8746	5	877
		1052		1057			6	
124	8.856 8210		8.857 9469		1.142 0531	9.998 8740		876
125	8.856 9261	1051	8.858 0526	1057	1.141 9474	9.998 8735	5	875
126	8.857 0312	1051	8.858 1582	1056	1.141 8418	9.998 8729	6	874
		1050		1056			5	
127	8.857 1362		8.858 2638		1.141 7362	9.998 8724		873
128	8.857 2413	1051	8.858 3694	1056	1.141 6306	9.998 8719	5	872
129	8.857 3463	1050	8.858 4750	1056	1.141 5250	9.998 8713	6	871
		1050		1055			5	
.130	8.857 4513		8.858 5805		1.141 4195	9.998 8708		**.870**
		1049		1055			6	
131	8.857 5562		8.858 6860		1.141 3140	9.998 8702		869
132	8.857 6612	1050	8.858 7915	1055	1.141 2085	9.998 8697	5	868
133	8.857 7661	1049	8.858 8970	1055	1.141 1030	9.998 8691	6	867
		1049		1054			5	
134	8.857 8710		8.859 0024		1.140 9976	9.998 8686		866
135	8.857 9758	1048	8.859 1078	1054	1.140 8922	9.998 8680	6	865
136	8.858 0807	1049	8.859 2132	1054	1.140 7868	9.998 8675	5	864
		1048		1053			6	
137	8.858 1855		8.859 3185		1.140 6815	9.998 8669		863
138	8.858 2902	1047	8.859 4239	1054	1.140 5761	9.998 8664	5	862
139	8.858 3950	1048	8.859 5292	1053	1.140 4708	9.998 8658	6	861
		1047		1053			5	
.140	8.858 4997		8.859 6345		1.140 3655	9.998 8653		**.860**
		1047		1052			6	
141	8.858 6044		8.859 7397		1.140 2603	9.998 8647		859
142	8.858 7091	1047	8.859 8449	1052	1.140 1551	9.998 8642	5	858
143	8.858 8138	1047	8.859 9501	1052	1.140 0499	9.998 8636	6	857
		1046		1052			5	
144	8.858 9184		8.860 0553		1.139 9447	9.998 8631		856
145	8.859 0230	1046	8.860 1605	1052	1.139 8395	9.998 8625	6	855
146	8.859 1276	1046	8.860 2656	1051	1.139 7344	9.998 8620	5	854
		1045		1051			6	
147	8.859 2321		8.860 3707		1.139 6293	9.998 8614		853
148	8.859 3367	1046	8.860 4758	1051	1.139 5242	9.998 8609	5	852
149	8.859 4412	1045	8.860 5808	1050	1.139 4192	9.998 8603	6	851
		1045		1051			5	
.150	8.859 5457		8.860 6859		1.139 3141	9.998 8598		**.850**
	cos	d	cotg	d	tang	sin	d	85°

P.P.

	1063	1062	1061
1	106.3	106.2	106.1
2	212.6	212.4	212.2
3	318.9	318.6	318.3
4	425.2	424.8	424.4
5	531.5	531.0	530.5
6	637.8	637.2	636.6
7	744.1	743.4	742.7
8	850.4	849.6	848.8
9	956.7	955.8	954.9

	1060	1059	1058
1	106.0	105.9	105.8
2	212.0	211.8	211.6
3	318.0	317.7	317.4
4	424.0	423.6	423.2
5	530.0	529.5	529.0
6	636.0	635.4	634.8
7	742.0	741.3	740.6
8	848.0	847.2	846.4
9	954.0	953.1	952.2

	1057	1056	1055
1	105.7	105.6	105.5
2	211.4	211.2	211.0
3	317.1	316.8	316.5
4	422.8	422.4	422.0
5	528.5	528.0	527.5
6	634.2	633.6	633.0
7	739.9	739.2	738.5
8	845.6	844.8	844.0
9	951.3	950.4	949.5

	1054	1053	1052
1	105.4	105.3	105.2
2	210.8	210.6	210.4
3	316.2	315.9	315.6
4	421.6	421.2	420.8
5	527.0	526.5	526.0
6	632.4	631.8	631.2
7	737.8	737.1	736.4
8	843.2	842.4	841.6
9	948.6	947.7	946.8

	1051	1050	1049
1	105.1	105.0	104.9
2	210.2	210.0	209.8
3	315.3	315.0	314.7
4	420.4	420.0	419.6
5	525.5	525.0	524.5
6	630.6	630.0	629.4
7	735.7	735.0	734.3
8	840.8	840.0	839.2
9	945.9	945.0	944.1

	1048	1047	1046
1	104.8	104.7	104.6
2	209.6	209.4	209.2
3	314.4	314.1	313.8
4	419.2	418.8	418.4
5	524.0	523.5	523.0
6	628.8	628.2	627.6
7	733.6	732.9	732.2
8	838.4	837.6	836.8
9	943.2	942.3	941.4

	1045
1	104.5
2	209.0
3	313.5
4	418.0
5	522.5
6	627.0
7	731.5
8	836.0
9	940.5

$85^\circ.900 - 85^\circ.850$

$4^\circ.150 - 4^\circ.200$

4°	sin	d	tang	d	cotg	cos	d	
.150	8.859 5457		8.860 6859		1.139 3141	9.998 8598		**.850**
		1044		1050			6	
151	8.859 6501		8.860 7909		1.139 2091	9.998 8592		849
152	8.859 7545	1044	8.860 8959	1050	1.139 1041	9.998 8587	5	848
153	8.859 8589	1044	8.861 0008	1049	1.138 9992	9.998 8581	6	847
		1044		1049			5	
154	8.859 9633		8.861 1057		1.138 8943	9.998 8576		846
155	8.860 0677	1044	8.861 2106	1049	1.138 7894	9.998 8570	6	845
156	8.860 1720	1043	8.861 3155	1049	1.138 6845	9.998 8565	5	844
		1043		1049			6	
157	8.860 2763		8.861 4204		1.138 5796	9.998 8559		843
158	8.860 3806	1043	8.861 5252	1048	1.138 4748	9.998 8554	5	842
159	8.860 4848	1042	8.861 6300	1048	1.138 3700	9.998 8548	6	841
		1043		1048			5	
.160	8.860 5891		8.861 7348		1.138 2652	9.998 8543		**.840**
		1042		1047			6	
161	8.860 6933		8.861 8395		1.138 1605	9.998 8537		839
162	8.860 7974	1041	8.861 9443	1048	1.138 0557	9.998 8532	5	838
163	8.860 9016	1042	8.862 0490	1047	1.137 9510	9.998 8526	6	837
		1041		1046			5	
164	8.861 0057		8.862 1536		1.137 8464	9.998 8521		836
165	8.861 1098	1041	8.862 2583	1047	1.137 7417	9.998 8515	6	835
166	8.861 2139	1041	8.862 3629	1046	1.137 6371	9.998 8510	5	834
		1040		1046			6	
167	8.861 3179		8.862 4675		1.137 5325	9.998 8504		833
168	8.861 4220	1041	8.862 5721	1046	1.137 4279	9.998 8499	5	832
169	8.861 5260	1040	8.862 6767	1046	1.137 3233	9.998 8493	6	831
		1039		1045			5	
.170	8.861 6299		8.862 7812		1.137 2188	9.998 8488		**.830**
		1040		1045			6	
171	8.861 7339		8.862 8857		1.137 1143	9.998 8482		829
172	8.861 8378	1039	8.862 9902	1045	1.137 0098	9.998 8477	5	828
173	8.861 9417	1039	8.863 0946	1044	1.136 9054	9.998 8471	6	827
		1039		1045			5	
174	8.862 0456		8.863 1991		1.136 8009	9.998 8466		826
175	8.862 1495	1039	8.863 3035	1044	1.136 6965	9.998 8460	6	825
176	8.862 2533	1038	8.863 4078	1043	1.136 5922	9.998 8454	6	824
		1038		1044			5	
177	8.862 3571		8.863 5122		1.136 4878	9.998 8449		823
178	8.862 4609	1038	8.863 6165	1043	1.136 3835	9.998 8443	6	822
179	8.862 5646	1037	8.863 7208	1043	1.136 2792	9.998 8438	5	821
		1037		1043			6	
.180	8.862 6683		8.863 8251		1.136 1749	9.998 8432		**.820**
		1037		1043			5	
181	8.862 7720		8.863 9294		1.136 0706	9.998 8427		819
182	8.862 8757	1037	8.864 0336	1042	1.135 9664	9.998 8421	6	818
183	8.862 9794	1037	8.864 1378	1042	1.135 8622	9.998 8416	5	817
		1036		1042			6	
184	8.863 0830		8.864 2420		1.135 7580	9.998 8410		816
185	8.863 1866	1036	8.864 3461	1041	1.135 6539	9.998 8405	5	815
186	8.863 2902	1036	8.864 4503	1042	1.135 5497	9.998 8399	6	814
		1035		1041			6	
187	8.863 3937		8.864 5544		1.135 4456	9.998 8393		813
188	8.863 4972	1035	8.864 6585	1041	1.135 3415	9.998 8388	5	812
189	8.863 6008	1036	8.864 7625	1040	1.135 2375	9.998 8382	6	811
		1034		1040			5	
.190	8.863 7042		8.864 8665		1.135 1335	9.998 8377		**.810**
		1035		1041			6	
191	8.863 8077		8.864 9706		1.135 0294	9.998 8371		809
192	8.863 9111	1034	8.865 0745	1039	1.134 9255	9.998 8366	5	808
193	8.864 0145	1034	8.865 1785	1040	1.134 8215	9.998 8360	6	807
		1034		1039			5	
194	8.864 1179		8.865 2824		1.134 7176	9.998 8355		806
195	8.864 2212	1033	8.865 3863	1039	1.134 6137	9.998 8349	6	805
196	8.864 3246	1034	8.865 4902	1039	1.134 5098	9.998 8343	6	804
		1033		1039			5	
197	8.864 4279		8.865 5941		1.134 4059	9.998 8338		803
198	8.864 5312	1033	8.865 6979	1038	1.134 3021	9.998 8332	6	802
199	8.864 6344	1032	8.865 8017	1038	1.134 1983	9.998 8327	5	801
		1032		1038			6	
.200	8.864 7376		8.865 9055		1.134 0945	9.998 8321		**.800**
	cos	d	cotg	d	tang	sin	d	85°

P.P.

	1050	1049	1048
1	105.0	104.9	104.8
2	210.0	209.8	209.6
3	315.0	314.7	314.4
4	420.0	419.6	419.2
5	525.0	524.5	524.0
6	630.0	629.4	628.8
7	735.0	734.3	733.6
8	840.0	839.2	838.4
9	945.0	944.1	943.2

	1047	1046	1045
1	104.7	104.6	104.5
2	209.4	209.2	209.0
3	314.1	313.8	313.5
4	418.8	418.4	418.0
5	523.5	523.0	522.5
6	628.2	627.6	627.0
7	732.9	732.2	731.5
8	837.6	836.8	836.0
9	942.3	941.4	940.5

	1044	1043	1042
1	104.4	104.3	104.2
2	208.8	208.6	208.4
3	313.2	312.9	312.6
4	417.6	417.2	416.8
5	522.0	521.5	521.0
6	626.4	625.8	625.2
7	730.8	730.1	729.4
8	835.2	834.4	833.6
9	939.6	938.7	937.8

	1041	1040	1039
1	104.1	104.0	103.9
2	208.2	208.0	207.8
3	312.3	312.0	311.7
4	416.4	416.0	415.6
5	520.5	520.0	519.5
6	624.6	624.0	623.4
7	728.7	728.0	727.3
8	832.8	832.0	831.2
9	936.9	936.0	935.1

	1038	1037	1036
1	103.8	103.7	103.6
2	207.6	207.4	207.2
3	311.4	311.1	310.8
4	415.2	414.8	414.4
5	519.0	518.5	518.0
6	622.8	622.2	621.6
7	726.6	725.9	725.2
8	830.4	829.6	828.8
9	934.2	933.3	932.4

	1035	1034	1033
1	103.5	103.4	103.3
2	207.0	206.8	206.6
3	310.5	310.2	309.9
4	414.0	413.6	413.2
5	517.5	517.0	516.5
6	621.0	620.4	619.8
7	724.5	723.8	723.1
8	828.0	827.2	826.4
9	931.5	930.6	929.7

	1032
1	103.2
2	206.4
3	309.6
4	412.8
5	516.0
6	619.2
7	722.4
8	825.6
9	928.8

$85^\circ.850 - 85^\circ.800$

$4^\circ.200 - 4^\circ.250$

4°	sin	d	tang	d	cotg	cos	d	
.200	8.864 7376		8.865 9055		1.134 0945	9.998 8321		**.800**
		1033		1038			5	
201	8.864 8409		8.866 0093		1.133 9907	9.998 8316	6	799
202	8.864 9440	1031	8.866 1130	1037	1.133 8870	9.998 8310		798
203	8.865 0472	1032	8.866 2167	1037	1.133 7833	9.998 8305	5	797
		1031		1037			6	
204	8.865 1503		8.866 3204		1.133 6796	9.998 8299		796
205	8.865 2534	1031	8.866 4241	1037	1.133 5759	9.998 8293	6	795
206	8.865 3565	1031	8.866 5277	1036	1.133 4723	9.998 8288	5	794
		1031		1036			6	
207	8.865 4596		8.866 6313		1.133 3687	9.998 8282		793
208	8.865 5626	1030	8.866 7349	1036	1.133 2651	9.998 8277	5	792
209	8.865 6656	1030	8.866 8385	1036	1.133 1615	9.998 8271	6	791
		1030		1035			5	
.210	8.865 7686		8.866 9420		1.133 0580	9.998 8266		**.790**
		1030		1036			6	
211	8.865 8716		8.867 0456		1.132 9544	9.998 8260		789
212	8.865 9745	1029	8.867 1491	1035	1.132 8509	9.998 8254	6	788
213	8.866 0774	1029	8.867 2525	1034	1.132 7475	9.998 8249	5	787
		1029		1035			6	
214	8.866 1803		8.867 3560		1.132 6440	9.998 8243		786
215	8.866 2831	1028	8.867 4594	1034	1.132 5406	9.998 8238	5	785
216	8.866 3860	1029	8.867 5628	1034	1.132 4372	9.998 8232	6	784
		1028		1034			6	
217	8.866 4888		8.867 6662		1.132 3338	9.998 8226		783
218	8.866 5916	1028	8.867 7695	1033	1.132 2305	9.998 8221	5	782
219	8.866 6944	1028	8.867 8728	1033	1.132 1272	9.998 8215	6	781
		1027		1033			5	
.220	8.866 7971		8.867 9761		1.132 0239	9.998 8210		**.780**
		1027		1033			6	
221	8.866 8998		8.868 0794		1.131 9206	9.998 8204		779
222	8.867 0025	1027	8.868 1827	1033	1.131 8173	9.998 8198	6	778
223	8.867 1052	1027	8.868 2859	1032	1.131 7141	9.998 8193	5	777
		1026		1032			6	
224	8.867 2078		8.868 3891		1.131 6109	9.998 8187		776
225	8.867 3104	1026	8.868 4923	1032	1.131 5077	9.998 8182	5	775
226	8.867 4130	1026	8.868 5954	1031	1.131 4046	9.998 8176	6	774
		1026		1031			6	
227	8.867 5156		8.868 6985		1.131 3015	9.998 8170		773
228	8.867 6181	1025	8.868 8016	1031	1.131 1984	9.998 8165	5	772
229	8.867 7206	1025	8.868 9047	1031	1.131 0953	9.998 8159	6	771
		1025		1031			5	
.230	8.867 8231		8.869 0078		1.130 9922	9.998 8154		**.770**
		1025		1030			6	
231	8.867 9256		8.869 1108		1.130 8892	9.998 8148		769
232	8.868 0281	1025	8.869 2138	1030	1.130 7862	9.998 8142	6	768
233	8.868 1305	1024	8.869 3168	1030	1.130 6832	9.998 8137	5	767
		1024		1030			6	
234	8.868 2329		8.869 4198		1.130 5802	9.998 8131		766
235	8.868 3353	1024	8.869 5227	1029	1.130 4773	9.998 8126	5	765
236	8.868 4376	1023	8.869 6256	1029	1.130 3744	9.998 8120	6	764
		1023		1029			6	
237	8.868 5399		8.869 7285		1.130 2715	9.998 8114		763
238	8.868 6422	1023	8.869 8314	1029	1.130 1686	9.998 8109	5	762
239	8.868 7445	1023	8.869 9342	1028	1.130 0658	9.998 8103	6	761
		1023		1028			5	
.240	8.868 8468		8.870 0370		1.129 9630	9.998 8098		**.760**
		1022		1028			6	
241	8.868 9490		8.870 1398		1.129 8602	9.998 8092		759
242	8.869 0512	1022	8.870 2426	1028	1.129 7574	9.998 8086	6	758
243	8.869 1534	1022	8.870 3453	1027	1.129 6547	9.998 8081	5	757
		1021		1027			6	
244	8.869 2555		8.870 4480		1.129 5520	9.998 8075		756
245	8.869 3577	1022	8.870 5507	1027	1.129 4493	9.998 8069	6	755
246	8.869 4598	1021	8.870 6534	1027	1.129 3466	9.998 8064	5	754
		1021		1026			6	
247	8.869 5619		8.870 7560		1.129 2440	9.998 8058		753
248	8.869 6639	1020	8.870 8587	1027	1.129 1413	9.998 8053	5	752
249	8.869 7660	1021	8.870 9613	1026	1.129 0387	9.998 8047	6	751
		1020		1025			6	
.250	8.869 8680		8.871 0638		1.128 9362	9.998 8041		**.750**
	cos	d	cotg	d	tang	sin	d	85°

P.P.

	1038	1037	1036
1	103.8	103.7	103.6
2	207.6	207.4	207.2
3	311.4	311.1	310.8
4	415.2	414.8	414.4
5	519.0	518.5	518.0
6	622.8	622.2	621.6
7	726.6	725.9	725.2
8	830.4	829.6	828.8
9	934.2	933.3	932.4

	1035	1034	1033
1	103.5	103.4	103.3
2	207.0	206.8	206.6
3	310.5	310.2	309.9
4	414.0	413.6	413.2
5	517.5	517.0	516.5
6	621.0	620.4	619.8
7	724.5	723.8	723.1
8	828.0	827.2	826.4
9	931.5	930.6	929.7

	1032	1031	1030
1	103.2	103.1	103.0
2	206.4	206.2	206.0
3	309.6	309.3	309.0
4	412.8	412.4	412.0
5	516.0	515.5	515.0
6	619.2	618.6	618.0
7	722.4	721.7	721.0
8	825.6	824.8	824.0
9	928.8	927.9	927.0

	1029	1028	1027
1	102.9	102.8	102.7
2	205.8	205.6	205.4
3	308.7	308.4	308.1
4	411.6	411.2	410.8
5	514.5	514.0	513.5
6	617.4	616.8	616.2
7	720.3	719.6	718.9
8	823.2	822.4	821.6
9	926.1	925.2	924.3

	1026	1025	1024
1	102.6	102.5	102.4
2	205.2	205.0	204.8
3	307.8	307.5	307.2
4	410.4	410.0	409.6
5	513.0	512.5	512.0
6	615.6	615.0	614.4
7	718.2	717.5	716.8
8	820.8	820.0	819.2
9	923.4	922.5	921.6

	1023	1022	1021
1	102.3	102.2	102.1
2	204.6	204.4	204.2
3	306.9	306.6	306.3
4	409.2	408.8	408.4
5	511.5	511.0	510.5
6	613.8	613.2	612.6
7	716.1	715.4	714.7
8	818.4	817.6	816.8
9	920.7	919.8	918.9

	1020
1	102.0
2	204.0
3	306.0
4	408.0
5	510.0
6	612.0
7	714.0
8	816.0
9	918.0

$85^\circ.800 - 85^\circ.750$

$4^\circ.250 - 4^\circ.300$

4°	sin	d	tang	d	cotg	cos	d	
.250	8.869 8680		8.871 0638		1.128 9362	9.998 8041		**.750**
		1020		1026			5	
251	8.869 9700		8.871 1664		1.128 8336	9.998 8036	6	749
252	8.870 0719	1019	8.871 2689	1025	1.128 7311	9.998 8030	6	748
253	8.870 1739	1020	8.871 3714	1025	1.128 6286	9.998 8024		747
		1019		1025			5	
254	8.870 2758		8.871 4739		1.128 5261	9.998 8019	6	746
255	8.870 3777	1019	8.871 5764	1025	1.128 4236	9.998 8013	6	745
256	8.870 4795	1018	8.871 6788	1024	1.128 3212	9.998 8007		744
		1019		1024			5	
257	8.870 5814		8.871 7812		1.128 2188	9.998 8002	6	743
258	8.870 6832	1018	8.871 8836	1024	1.128 1164	9.998 7996	5	742
259	8.870 7850	1018	8.871 9859	1023	1.128 0141	9.998 7991	6	741
		1018		1024				
.260	8.870 8868		8.872 0883		1.127 9117	9.998 7985	6	**.740**
		1017		1023				
261	8.870 9885		8.872 1906		1.127 8094	9.998 7979	5	739
262	8.871 0902	1017	8.872 2929	1023	1.127 7071	9.998 7974	6	738
263	8.871 1919	1017	8.872 3951	1022	1.127 6049	9.998 7968	6	737
		1017		1023				
264	8.871 2936		8.872 4974		1.127 5026	9.998 7962	5	736
265	8.871 3953	1017	8.872 5996	1022	1.127 4004	9.998 7957	6	735
266	8.871 4969	1016	8.872 7018	1022	1.127 2982	9.998 7951	6	734
		1016		1022				
267	8.871 5985		8.872 8040		1.127 1960	9.998 7945	5	733
268	8.871 7001	1016	8.872 9061	1021	1.127 0939	9.998 7940	6	732
269	8.871 8016	1015	8.873 0082	1021	1.126 9918	9.998 7934	6	731
		1016		1021				
.270	8.871 9032		8.873 1103		1.126 8897	9.998 7928		**.730**
		1015		1021			5	
271	8.872 0047		8.873 2124		1.126 7876	9.998 7923	6	729
272	8.872 1061	1014	8.873 3144	1020	1.126 6856	9.998 7917	6	728
273	8.872 2076	1015	8.873 4165	1021	1.126 5835	9.998 7911		727
		1014		1020			5	
274	8.872 3090		8.873 5185		1.126 4815	9.998 7906	6	726
275	8.872 4105	1015	8.873 6205	1020	1.126 3795	9.998 7900	6	725
276	8.872 5118	1013	8.873 7224	1019	1.126 2776	9.998 7894		724
		1014		1019			5	
277	8.872 6132		8.873 8243		1.126 1757	9.998 7889	6	723
278	8.872 7145	1013	8.873 9262	1019	1.126 0738	9.998 7883	6	722
279	8.872 8159	1014	8.874 0281	1019	1.125 9719	9.998 7877		721
		1013		1019			5	
.280	8.872 9172		8.874 1300		1.125 8700	9.998 7872	6	**.720**
		1012		1018				
281	8.873 0184		8.874 2318		1.125 7682	9.998 7866	6	719
282	8.873 1197	1013	8.874 3336	1018	1.125 6664	9.998 7860	5	718
283	8.873 2209	1012	8.874 4354	1018	1.125 5646	9.998 7855	6	717
		1012		1018			6	
284	8.873 3221		8.874 5372		1.125 4628	9.998 7849	6	716
285	8.873 4233	1012	8.874 6389	1017	1.125 3611	9.998 7843	5	715
286	8.873 5244	1011	8.874 7407	1018	1.125 2593	9.998 7838	6	714
		1012		1017			6	
287	8.873 6256		8.874 8424		1.125 1576	9.998 7832	6	713
288	8.873 7267	1011	8.874 9440	1016	1.125 0560	9.998 7826	5	712
289	8.873 8277	1010	8.875 0457	1017	1.124 9543	9.998 7821	6	711
		1011		1016			6	
.290	8.873 9288		8.875 1473		1.124 8527	9.998 7815		**.710**
		1010		1016			6	
291	8.874 0298		8.875 2489		1.124 7511	9.998 7809	5	709
292	8.874 1308	1010	8.875 3505	1016	1.124 6495	9.998 7804	6	708
293	8.874 2318	1010	8.875 4520	1015	1.124 5480	9.998 7798	6	707
		1010		1016			6	
294	8.874 3328		8.875 5536		1.124 4464	9.998 7792	6	706
295	8.874 4337	1009	8.875 6551	1015	1.124 3449	9.998 7786	5	705
296	8.874 5346	1009	8.875 7566	1015	1.124 2434	9.998 7781	6	704
		1009		1014			6	
297	8.874 6355		8.875 8580		1.124 1420	9.998 7775	6	703
298	8.874 7364	1009	8.875 9595	1015	1.124 0405	9.998 7769	5	702
299	8.874 8372	1008	8.876 0609	1014	1.123 9391	9.998 7764	6	701
		1009		1014				
.300	8.874 9381		8.876 1623		1.123 8377	9.998 7758		**.700**
	cos	d	cotg	d	tang	sin	d	85°

P.P.

	1026	1025	1024
1	102.6	102.5	102.4
2	205.2	205.0	204.8
3	307.8	307.5	307.2
4	410.4	410.0	409.6
5	513.0	512.5	512.0
6	615.6	615.0	614.4
7	718.2	717.5	716.8
8	820.8	820.0	819.2
9	923.4	922.5	921.6

	1023	1022	1021
1	102.3	102.2	102.1
2	204.6	204.4	204.2
3	306.9	306.6	306.3
4	409.2	408.8	408.4
5	511.5	511.0	510.5
6	613.8	613.2	612.6
7	716.1	715.4	714.7
8	818.4	817.6	816.8
9	920.7	919.8	918.9

	1020	1019	1018
1	102.0	101.9	101.8
2	204.0	203.8	203.6
3	306.0	305.7	305.4
4	408.0	407.6	407.2
5	510.0	509.5	509.0
6	612.0	611.4	610.8
7	714.0	713.3	712.6
8	816.0	815.2	814.4
9	918.0	917.1	916.2

	1017	1016	1015
1	101.7	101.6	101.5
2	203.4	203.2	203.0
3	305.1	304.8	304.5
4	406.8	406.4	406.0
5	508.5	508.0	507.5
6	610.2	609.6	609.0
7	711.9	711.2	710.5
8	813.6	812.8	812.0
9	915.3	914.4	913.5

	1014	1013	1012
1	101.4	101.3	101.2
2	202.8	202.6	202.4
3	304.2	303.9	303.6
4	405.6	405.2	404.8
5	507.0	506.5	506.0
6	608.4	607.8	607.2
7	709.8	709.1	708.4
8	811.2	810.4	809.6
9	912.6	911.7	910.8

	1011	1010	1009
1	101.1	101.0	100.9
2	202.2	202.0	201.8
3	303.3	303.0	302.7
4	404.4	404.0	403.6
5	505.5	505.0	504.5
6	606.6	606.0	605.4
7	707.7	707.0	706.3
8	808.8	808.0	807.2
9	909.9	909.0	908.1

	1008
1	100.8
2	201.6
3	302.4
4	403.2
5	504.0
6	604.8
7	705.6
8	806.4
9	907.2

$85^\circ.750 - 85^\circ.700$

$4^\circ.300 - 4^\circ.350$

4°	sin	d	tang	d	cotg	cos	d	
.300	8.874 9381		8.876 1623		1.123 8377	9.998 7758		.700
		1008		1013			6	
301	8.875 0389		8.876 2636		1.123 7364	9.998 7752		699
302	8.875 1396	1007	8.876 3650	1014	1.123 6350	9.998 7747	5	698
303	8.875 2404	1008	8.876 4663	1013	1.123 5337	9.998 7741	6	697
		1007		1013			6	
304	8.875 3411		8.876 5676		1.123 4324	9.998 7735		696
305	8.875 4418	1007	8.876 6689	1013	1.123 3311	9.998 7729	6	695
306	8.875 5425	1007	8.876 7701	1012	1.123 2299	9.998 7724	5	694
		1006		1012			6	
307	8.875 6431		8.876 8713		1.123 1287	9.998 7718		693
308	8.875 7438	1007	8.876 9726	1013	1.123 0274	9.998 7712	6	692
309	8.875 8444	1006	8.877 0737	1011	1.122 9263	9.998 7707	5	691
		1006		1012			6	
.310	8.875 9450		8.877 1749		1.122 8251	9.998 7701		.690
		1005		1011			6	
311	8.876 0455		8.877 2760		1.122 7240	9.998 7695		689
312	8.876 1461	1006	8.877 3771	1011	1.122 6229	9.998 7689	6	688
313	8.876 2466	1005	8.877 4782	1011	1.122 5218	9.998 7684	5	687
		1005		1011			6	
314	8.876 3471		8.877 5793		1.122 4207	9.998 7678		686
315	8.876 4476	1005	8.877 6803	1010	1.122 3197	9.998 7672	6	685
316	8.876 5480	1004	8.877 7813	1010	1.122 2187	9.998 7667	5	684
		1004		1010			6	
317	8.876 6484		8.877 8823		1.122 1177	9.998 7661		683
318	8.876 7488	1004	8.877 9833	1010	1.122 0167	9.998 7655	6	682
319	8.876 8492	1004	8.878 0843	1010	1.121 9157	9.998 7649	6	681
		1004		1009			5	
.320	8.876 9496		8.878 1852		1.121 8148	9.998 7644		.680
		1003		1009			6	
321	8.877 0499		8.878 2861		1.121 7139	9.998 7638		679
322	8.877 1502	1003	8.878 3870	1009	1.121 6130	9.998 7632	6	678
323	8.877 2505	1003	8.878 4878	1008	1.121 5122	9.998 7627	5	677
		1002		1008			6	
324	8.877 3507		8.878 5886		1.121 4114	9.998 7621		676
325	8.877 4510	1003	8.878 6895	1009	1.121 3105	9.998 7615	6	675
326	8.877 5512	1002	8.878 7902	1007	1.121 2098	9.998 7609	6	674
		1002		1008			5	
327	8.877 6514		8.878 8910		1.121 1090	9.998 7604		673
328	8.877 7515	1001	8.878 9917	1007	1.121 0083	9.998 7598	6	672
329	8.877 8517	1002	8.879 0925	1008	1.120 9075	9.998 7592	6	671
		1001		1007			6	
.330	8.877 9518		8.879 1932		1.120 8068	9.998 7586		.670
		1001		1006			5	
331	8.878 0519		8.879 2938		1.120 7062	9.998 7581		669
332	8.878 1520	1001	8.879 3945	1007	1.120 6055	9.998 7575	6	668
333	8.878 2520	1000	8.879 4951	1006	1.120 5049	9.998 7569	6	667
		1000		1006			6	
334	8.878 3520		8.879 5957		1.120 4043	9.998 7563		666
335	8.878 4520	1000	8.879 6963	1006	1.120 3037	9.998 7558	5	665
336	8.878 5520	1000	8.879 7968	1005	1.120 2032	9.998 7552	6	664
		1000		1006			6	
337	8.878 6520		8.879 8974		1.120 1026	9.998 7546		663
338	8.878 7519	999	8.879 9979	1005	1.120 0021	9.998 7540	6	662
339	8.878 8518	999	8.880 0984	1005	1.119 9016	9.998 7535	5	661
		999		1004			6	
.340	8.878 9517		8.880 1988		1.119 8012	9.998 7529		.660
		999		1005			6	
341	8.879 0516		8.880 2993		1.119 7007	9.998 7523		659
342	8.879 1514	998	8.880 3997	1004	1.119 6003	9.998 7517	6	658
343	8.879 2512	998	8.880 5001	1004	1.119 4999	9.998 7512	5	657
		998		1003			6	
344	8.879 3510		8.880 6004		1.119 3996	9.998 7506		656
345	8.879 4508	998	8.880 7008	1004	1.119 2992	9.998 7500	6	655
346	8.879 5506	998	8.880 8011	1003	1.119 1989	9.998 7494	6	654
		997		1003			5	
347	8.879 6503		8.880 9014		1.119 0986	9.998 7489		653
348	8.879 7500	997	8.881 0017	1003	1.118 9983	9.998 7483	6	652
349	8.879 8497	997	8.881 1020	1003	1.118 8980	9.998 7477	6	651
		996		1002			6	
.350	8.879 9493		8.881 2022		1.118 7978	9.998 7471		.650
	cos	d	cotg	d	tang	sin	d	85°

P.P.

	1014	1013	1012
1	101.4	101.3	101.2
2	202.8	202.6	202.4
3	304.2	303.9	303.6
4	405.6	405.2	404.8
5	507.0	506.5	506.0
6	608.4	607.8	607.2
7	709.8	709.1	708.4
8	811.2	810.4	809.6
9	912.6	911.7	910.8

	1011	1010	1009
1	101.1	101.0	100.9
2	202.2	202.0	201.8
3	303.3	303.0	302.7
4	404.4	404.0	403.6
5	505.5	505.0	504.5
6	606.6	606.0	605.4
7	707.7	707.0	706.3
8	808.8	808.0	807.2
9	909.9	909.0	908.1

	1008	1007	1006
1	100.8	100.7	100.6
2	201.6	201.4	201.2
3	302.4	302.1	301.8
4	403.2	402.8	402.4
5	504.0	503.5	503.0
6	604.8	604.2	603.6
7	705.6	704.9	704.2
8	806.4	805.6	804.8
9	907.2	906.3	905.4

	1005	1004	1003
1	100.5	100.4	100.3
2	201.0	200.8	200.6
3	301.5	301.2	300.9
4	402.0	401.6	401.2
5	502.5	502.0	501.5
6	603.0	602.4	601.8
7	703.5	702.8	702.1
8	804.0	803.2	802.4
9	904.5	903.6	902.7

	1002	1001	1000
1	100.2	100.1	100.0
2	200.4	200.2	200.0
3	300.6	300.3	300.0
4	400.8	400.4	400.0
5	501.0	500.5	500.0
6	601.2	600.6	600.0
7	701.4	700.7	700.0
8	801.6	800.8	800.0
9	901.8	900.9	900.0

	999	998	997
1	99.9	99.8	99.7
2	199.8	199.6	199.4
3	299.7	299.4	299.1
4	399.6	399.2	398.8
5	499.5	499.0	498.5
6	599.4	598.8	598.2
7	699.3	698.6	697.9
8	799.2	798.4	797.6
9	899.1	898.2	897.3

	996
1	99.6
2	199.2
3	298.8
4	398.4
5	498.0
6	597.6
7	697.2
8	796.8
9	896.4

$85^\circ.700 - 85^\circ.650$

$4^\circ.350 - 4^\circ.400$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.350	8.879 9493		8.881 2022		1.118 7978	9.998 7471		**.650**	
		997		1002			5		
351	8.880 0490		8.881 3024		1.118 6976	9.998 7466	6	649	
352	8.880 1486	996	8.881 4026	1002	1.118 5974	9.998 7460	6	648	
353	8.880 2482	996	8.881 5028	1002	1.118 4972	9.998 7454	6	647	
		995		1001			6		
354	8.880 3477		8.881 6029		1.118 3971	9.998 7448	6	646	
355	8.880 4473	996	8.881 7030	1001	1.118 2970	9.998 7442	6	645	
356	8.880 5468	995	8.881 8031	1001	1.118 1969	9.998 7437	5	644	
		995		1001			6		
357	8.880 6463		8.881 9032		1.118 0968	9.998 7431	6	643	
358	8.880 7458	995	8.882 0032	1000	1.117 9968	9.998 7425	6	642	
359	8.880 8452	994	8.882 1033	1001	1.117 8967	9.998 7419	6	641	
		994		1000			5		
.360	8.880 9446		8.882 2033		1.117 7967	9.998 7414		**.640**	
		994		1000			6		
361	8.881 0440		8.882 3033		1.117 6967	9.998 7408	6	639	
362	8.881 1434	994	8.882 4032	999	1.117 5968	9.998 7402	6	638	
363	8.881 2428	994	8.882 5032	1000	1.117 4968	9.998 7396	6	637	
		993		999			6		
364	8.881 3421		8.882 6031		1.117 3969	9.998 7390		636	
365	8.881 4414	993	8.882 7030	999	1.117 2970	9.998 7385	5	635	
366	8.881 5407	993	8.882 8028	998	1.117 1972	9.998 7379	6	634	
		993		999			6		
367	8.881 6400		8.882 9027		1.117 0973	9.998 7373	6	633	
368	8.881 7392	992	8.883 0025	998	1.116 9975	9.998 7367	6	632	
369	8.881 8385	993	8.883 1023	998	1.116 8977	9.998 7362	5	631	
		992		998			6		
.370	8.881 9377		8.883 2021		1.116 7979	9.998 7356		**.630**	
		991		997			6		
371	8.882 0368		8.883 3018		1.116 6982	9.998 7350	6	629	
372	8.882 1360	992	8.883 4016	998	1.116 5984	9.998 7344	6	628	
373	8.882 2351	991	8.883 5013	997	1.116 4987	9.998 7338	6	627	
		991		997			5		
374	8.882 3342		8.883 6010		1.116 3990	9.998 7333	6	626	
375	8.882 4333	991	8.883 7006	996	1.116 2994	9.998 7327	6	625	
376	8.882 5324	991	8.883 8003	997	1.116 1997	9.998 7321	6	624	
		990		996			6		
377	8.882 6314		8.883 8999		1.116 1001	9.998 7315	6	623	
378	8.882 7304	990	8.883 9995	996	1.116 0005	9.998 7309	6	622	
379	8.882 8294	990	8.884 0991	996	1.115 9009	9.998 7304	5	621	
		990		995			6		
.380	8.882 9284		8.884 1986		1.115 8014	9.998 7298		**.620**	
		989		996			6		
381	8.883 0273		8.884 2982		1.115 7018	9.998 7292	6	619	
382	8.883 1263	990	8.884 3977	995	1.115 6023	9.998 7286	6	618	
383	8.883 2252	989	8.884 4971	994	1.115 5029	9.998 7280	6	617	
		989		995			5		
384	8.883 3241		8.884 5966		1.115 4034	9.998 7275	6	616	
385	8.883 4229	988	8.884 6961	995	1.115 3039	9.998 7269	6	615	
386	8.883 5218	989	8.884 7955	994	1.115 2045	9.998 7263	6	614	
		988		994			6		
387	8.883 6206		8.884 8949		1.115 1051	9.998 7257	6	613	
388	8.883 7194	988	8.884 9942	993	1.115 0058	9.998 7251	6	612	
389	8.883 8181	987	8.885 0936	994	1.114 9064	9.998 7245	6	611	
		988		993			5		
.390	8.883 9169		8.885 1929		1.114 8071	9.998 7240		**.610**	
		987		993			6		
391	8.884 0156		8.885 2922		1.114 7078	9.998 7234	6	609	
392	8.884 1143	987	8.885 3915	993	1.114 6085	9.998 7228	6	608	
393	8.884 2130	987	8.885 4908	993	1.114 5092	9.998 7222	6	607	
		986		992			6		
394	8.884 3116		8.885 5900		1.114 4100	9.998 7216		606	
395	8.884 4103	987	8.885 6892	992	1.114 3108	9.998 7211	5	605	
396	8.884 5089	986	8.885 7884	992	1.114 2116	9.998 7205	6	604	
		986		992			6		
397	8.884 6075		8.885 8876		1.114 1124	9.998 7199	6	603	
398	8.884 7060	985	8.885 9867	991	1.114 0133	9.998 7193	6	602	
399	8.884 8046	986	8.886 0859	992	1.113 9141	9.998 7187	6	601	
		985		991			6		
.400	8.884 9031		8.886 1850		1.113 8150	9.998 7181		**.600**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	1002	1001	1000
1	100.2	100.1	100.0
2	200.4	200.2	200.0
3	300.6	300.3	300.0
4	400.8	400.4	400.0
5	501.0	500.5	500.0
6	601.2	600.6	600.0
7	701.4	700.7	700.0
8	801.6	800.8	800.0
9	901.8	900.9	900.0

	999	998	997
1	99.9	99.8	99.7
2	199.8	199.6	199.4
3	299.7	299.4	299.1
4	399.6	399.2	398.8
5	499.5	499.0	498.5
6	599.4	598.8	598.2
7	699.3	698.6	697.9
8	799.2	798.4	797.6
9	899.1	898.2	897.3

	996	995	994
1	99.6	99.5	99.4
2	199.2	199.0	198.8
3	298.8	298.5	298.2
4	398.4	398.0	397.6
5	498.0	497.5	497.0
6	597.6	597.0	596.4
7	697.2	696.5	695.8
8	796.8	796.0	795.2
9	896.4	895.5	894.6

	993	992	991
1	99.3	99.2	99.1
2	198.6	198.4	198.2
3	297.9	297.6	297.3
4	397.2	396.8	396.4
5	496.5	496.0	495.5
6	595.8	595.2	594.6
7	695.1	694.4	693.7
8	794.4	793.6	792.8
9	893.7	892.8	891.9

	990	989	988
1	99.0	98.9	98.8
2	198.0	197.8	197.6
3	297.0	296.7	296.4
4	396.0	395.6	395.2
5	495.0	494.5	494.0
6	594.0	593.4	592.8
7	693.0	692.3	691.6
8	792.0	791.2	790.4
9	891.0	890.1	889.2

	987	986	985
1	98.7	98.6	98.5
2	197.4	197.2	197.0
3	296.1	295.8	295.5
4	394.8	394.4	394.0
5	493.5	493.0	492.5
6	592.2	591.6	591.0
7	690.9	690.2	689.5
8	789.6	788.8	788.0
9	888.3	887.4	886.5

$85^\circ.650 - 85^\circ.600$

$4^\circ.400 - 4^\circ.450$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.400	8.884 9031		8.886 1850		1.113 8150	9.998 7181		**.600**	
		985		990			5		
401	8.885 0016		8.886 2840		1.113 7160	9.998 7176	6	599	
402	8.885 1001	985	8.886 3831	991	1.113 6169	9.998 7170	6	598	
403	8.885 1985	984	8.886 4821	990	1.113 5179	9.998 7164	6	597	
		984		990			6		
404	8.885 2969		8.886 5811		1.113 4189	9.998 7158	6	596	
405	8.885 3954	985	8.886 6801	990	1.113 3199	9.998 7152	6	595	
406	8.885 4937	983	8.886 7791	990	1.113 2209	9.998 7146	6	594	
		984		990			5		
407	8.885 5921		8.886 8781		1.113 1219	9.998 7141	6	593	
408	8.885 6904	983	8.886 9770	989	1.113 0230	9.998 7135	6	592	
409	8.885 7888	984	8.887 0759	989	1.112 9241	9.998 7129	6	591	
		983		989			6		
.410	8.885 8871		8.887 1748		1.112 8252	9.998 7123		**.590**	
		982		988			6		
411	8.885 9853		8.887 2736		1.112 7264	9.998 7117	6	589	
412	8.886 0836	983	8.887 3725	989	1.112 6275	9.998 7111	6	588	
413	8.886 1818	982	8.887 4713	988	1.112 5287	9.998 7105	6	587	
		982		988			5		
414	8.886 2800		8.887 5701		1.112 4299	9.998 7100	6	586	
415	8.886 3782	982	8.887 6688	987	1.112 3312	9.998 7094	6	585	
416	8.886 4764	982	8.887 7676	988	1.112 2324	9.998 7088	6	584	
		981		987			6		
417	8.886 5745		8.887 8663		1.112 1337	9.998 7082	6	583	
418	8.886 6726	981	8.887 9650	987	1.112 0350	9.998 7076	6	582	
419	8.886 7707	981	8.888 0637	987	1.111 9363	9.998 7070	6	581	
		981		986			6		
.420	8.886 8688		8.888 1623		1.111 8377	9.998 7064		**.580**	
		980		987			5		
421	8.886 9668		8.888 2610		1.111 7390	9.998 7059	6	579	
422	8.887 0649	981	8.888 3596	986	1.111 6404	9.998 7053	6	578	
423	8.887 1629	980	8.888 4582	986	1.111 5418	9.998 7047	6	577	
		980		986			6		
424	8.887 2609		8.888 5568		1.111 4432	9.998 7041	6	576	
425	8.887 3588	979	8.888 6553	985	1.111 3447	9.998 7035	6	575	
426	8.887 4568	980	8.888 7538	985	1.111 2462	9.998 7029	6	574	
		979		985			6		
427	8.887 5547		8.888 8523		1.111 1477	9.998 7023	5	573	
428	8.887 6526	979	8.888 9508	985	1.111 0492	9.998 7018	6	572	
429	8.887 7504	978	8.889 0493	985	1.110 9507	9.998 7012	6	571	
		979		984			6		
.430	8.887 8483		8.889 1477		1.110 8523	9.998 7006		**.570**	
		978		984			6		
431	8.887 9461		8.889 2461		1.110 7539	9.998 7000	6	569	
432	8.888 0439	978	8.889 3445	984	1.110 6555	9.998 6994	6	568	
433	8.888 1417	978	8.889 4429	984	1.110 5571	9.998 6988	6	567	
		978		984			6		
434	8.888 2395		8.889 5413		1.110 4587	9.998 6982	6	566	
435	8.888 3372	977	8.889 6396	983	1.110 3604	9.998 6976	6	565	
436	8.888 4349	977	8.889 7379	983	1.110 2621	9.998 6971	5	564	
		977		983			6		
437	8.888 5326		8.889 8362		1.110 1638	9.998 6965	6	563	
438	8.888 6303	977	8.889 9344	982	1.110 0656	9.998 6959	6	562	
439	8.888 7280	977	8.890 0327	983	1.109 9673	9.998 6953	6	561	
		976		982			6		
.440	8.888 8256		8.890 1309		1.109 8691	9.998 6947		**.560**	
		976		982			6		
441	8.888 9232		8.890 2291		1.109 7709	9.998 6941	6	559	
442	8.889 0208	976	8.890 3273	982	1.109 6727	9.998 6935	6	558	
443	8.889 1183	975	8.890 4254	981	1.109 5746	9.998 6929	6	557	
		976		981			6		
444	8.889 2159		8.890 5235		1.109 4765	9.998 6923	5	556	
445	8.889 3134	975	8.890 6216	981	1.109 3784	9.998 6918	6	555	
446	8.889 4109	975	8.890 7197	981	1.109 2803	9.998 6912	6	554	
		975		981			6		
447	8.889 5084		8.890 8178		1.109 1822	9.998 6906	6	553	
448	8.889 6058	974	8.890 9158	980	1.109 0842	9.998 6900	6	552	
449	8.889 7033	975	8.891 0139	981	1.108 9861	9.998 6894	6	551	
		974		980			6		
.450	8.889 8007		8.891 1119		1.108 8881	9.998 6888		**.550**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	991	990	989
1	99.1	99.0	98.9
2	198.2	198.0	197.8
3	297.3	297.0	296.7
4	396.4	396.0	395.6
5	495.5	495.0	494.5
6	594.6	594.0	593.4
7	693.7	693.0	692.3
8	792.8	792.0	791.2
9	891.9	891.0	890.1

	988	987	986
1	98.8	98.7	98.6
2	197.6	197.4	197.2
3	296.4	296.1	295.8
4	395.2	394.8	394.4
5	494.0	493.5	493.0
6	592.8	592.2	591.6
7	691.6	690.9	690.2
8	790.4	789.6	788.8
9	889.2	888.3	887.4

	985	984	983
1	98.5	98.4	98.3
2	197.0	196.8	196.6
3	295.5	295.2	294.9
4	394.0	393.6	393.2
5	492.5	492.0	491.5
6	591.0	590.4	589.8
7	689.5	688.8	688.1
8	788.0	787.2	786.4
9	886.5	885.6	884.7

	982	981	980
1	98.2	98.1	98.0
2	196.4	196.2	196.0
3	294.6	294.3	294.0
4	392.8	392.4	392.0
5	491.0	490.5	490.0
6	589.2	588.6	588.0
7	687.4	686.7	686.0
8	785.6	784.8	784.0
9	883.8	882.9	882.0

	979	978	977
1	97.9	97.8	97.7
2	195.8	195.6	195.4
3	293.7	293.4	293.1
4	391.6	391.2	390.8
5	489.5	489.0	488.5
6	587.4	586.8	586.2
7	685.3	684.6	683.9
8	783.2	782.4	781.6
9	881.1	880.2	879.3

	976	975	974
1	97.6	97.5	97.4
2	195.2	195.0	194.8
3	292.8	292.5	292.2
4	390.4	390.0	389.6
5	488.0	487.5	487.0
6	585.6	585.0	584.4
7	683.2	682.5	681.8
8	780.8	780.0	779.2
9	878.4	877.5	876.6

$85^\circ.600 - 85^\circ.550$

$4^\circ.450 - 4^\circ.500$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.450	8.889 8007		8.891 1119		1.108 8881	9.998 6888		**.550**	
		974		979			6		
451	8.889 8981		8.891 2098		1.108 7902	9.998 6882		549	
452	8.889 9954	973	8.891 3078	980	1.108 6922	9.998 6876	6	548	
453	8.890 0928	974	8.891 4057	979	1.108 5943	9.998 6870	6	547	
		973		979			6		
454	8.890 1901		8.891 5036		1.108 4964	9.998 6864		546	
455	8.890 2874	973	8.891 6015	979	1.108 3985	9.998 6859	5	545	
456	8.890 3847	973	8.891 6994	979	1.108 3006	9.998 6853	6	544	
		972		978			6		
457	8.890 4819		8.891 7972		1.108 2028	9.998 6847		543	
458	8.890 5791	972	8.891 8951	979	1.108 1049	9.998 6841	6	542	
459	8.890 6764	973	8.891 9929	978	1.108 0071	9.998 6835	6	541	
		971		977			6		
.460	8.890 7735		8.892 0906		1.107 9094	9.998 6829		**.540**	
		972		978			6		
461	8.890 8707		8.892 1884		1.107 8116	9.998 6823		539	
462	8.890 9679	972	8.892 2861	977	1.107 7139	9.998 6817	6	538	
463	8.891 0650	971	8.892 3839	978	1.107 6161	9.998 6811	6	537	
		971		977			6		
464	8.891 1621		8.892 4816		1.107 5184	9.998 6805		536	
465	8.891 2592	971	8.892 5792	976	1.107 4208	9.998 6799	6	535	
466	8.891 3562	970	8.892 6769	977	1.107 3231	9.998 6794	5	534	
		971		976			6		
467	8.891 4533		8.892 7745		1.107 2255	9.998 6788		533	
468	8.891 5503	970	8.892 8721	976	1.107 1279	9.998 6782	6	532	
469	8.891 6473	970	8.892 9697	976	1.107 0303	9.998 6776	6	531	
		969		976			6		
.470	8.891 7442		8.893 0673		1.106 9327	9.998 6770		**.530**	
		970		975			6		
471	8.891 8412		8.893 1648		1.106 8352	9.998 6764		529	
472	8.891 9381	969	8.893 2623	975	1.106 7377	9.998 6758	6	528	
473	8.892 0350	969	8.893 3598	975	1.106 6402	9.998 6752	6	527	
		969		975			6		
474	8.892 1319		8.893 4573		1.106 5427	9.998 6746		526	
475	8.892 2288	969	8.893 5548	975	1.106 4452	9.998 6740	6	525	
476	8.892 3256	968	8.893 6522	974	1.106 3478	9.998 6734	6	524	
		968		974			6		
477	8.892 4224		8.893 7496		1.106 2504	9.998 6728		523	
478	8.892 5192	968	8.893 8470	974	1.106 1530	9.998 6722	6	522	
479	8.892 6160	968	8.893 9444	974	1.106 0556	9.998 6716	6	521	
		968		973			5		
.480	8.892 7128		8.894 0417		1.105 9583	9.998 6711		**.520**	
		967		973			6		
481	8.892 8095		8.894 1390		1.105 8610	9.998 6705		519	
482	8.892 9062	967	8.894 2363	973	1.105 7637	9.998 6699	6	518	
483	8.893 0029	967	8.894 3336	973	1.105 6664	9.998 6693	6	517	
		967		973			6		
484	8.893 0996		8.894 4309		1.105 5691	9.998 6687		516	
485	8.893 1962	966	8.894 5281	972	1.105 4719	9.998 6681	6	515	
486	8.893 2928	966	8.894 6253	972	1.105 3747	9.998 6675	6	514	
		966		972			6		
487	8.893 3894		8.894 7225		1.105 2775	9.998 6669		513	
488	8.893 4860	966	8.894 8197	972	1.105 1803	9.998 6663	6	512	
489	8.893 5826	966	8.894 9169	972	1.105 0831	9.998 6657	6	511	
		965		971			6		
.490	8.893 6791		8.895 0140		1.104 9860	9.998 6651		**.510**	
		965		971			6		
491	8.893 7756		8.895 1111		1.104 8889	9.998 6645		509	
492	8.893 8721	965	8.895 2082	971	1.104 7918	9.998 6639	6	508	
493	8.893 9686	965	8.895 3053	971	1.104 6947	9.998 6633	6	507	
		964		970			6		
494	8.894 0650		8.895 4023		1.104 5977	9.998 6627		506	
495	8.894 1615	965	8.895 4993	970	1.104 5007	9.998 6621	6	505	
496	8.894 2579	964	8.895 5963	970	1.104 4037	9.998 6615	6	504	
		964		970			6		
497	8.894 3543		8.895 6933		1.104 3067	9.998 6609		503	
498	8.894 4506	963	8.895 7903	970	1.104 2097	9.998 6603	6	502	
499	8.894 5470	964	8.895 8872	969	1.104 1128	9.998 6597	6	501	
		963		970			6		
.500	8.894 6433		8.895 9842		1.104 0158	9.998 6591		**.500**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	980	979	978
1	98.0	97.9	97.8
2	196.0	195.8	195.6
3	294.0	293.7	293.4
4	392.0	391.6	391.2
5	490.0	489.5	489.0
6	588.0	587.4	586.8
7	686.0	685.3	684.6
8	784.0	783.2	782.4
9	882.0	881.1	880.2

	977	976	975
1	97.7	97.6	97.5
2	195.4	195.2	195.0
3	293.1	292.8	292.5
4	390.8	390.4	390.0
5	488.5	488.0	487.5
6	586.2	585.6	585.0
7	683.9	683.2	682.5
8	781.6	780.8	780.0
9	879.3	878.4	877.5

	974	973	972
1	97.4	97.3	97.2
2	194.8	194.6	194.4
3	292.2	291.9	291.6
4	389.6	389.2	388.8
5	487.0	486.5	486.0
6	584.4	583.8	583.2
7	681.8	681.1	680.4
8	779.2	778.4	777.6
9	876.6	875.7	874.8

	971	970	969
1	97.1	97.0	96.9
2	194.2	194.0	193.8
3	291.3	291.0	290.7
4	388.4	388.0	387.6
5	485.5	485.0	484.5
6	582.6	582.0	581.4
7	679.7	679.0	678.3
8	776.8	776.0	775.2
9	873.9	873.0	872.1

	968	967	966
1	96.8	96.7	96.6
2	193.6	193.4	193.2
3	290.4	290.1	289.8
4	387.2	386.8	386.4
5	484.0	483.5	483.0
6	580.8	580.2	579.6
7	677.6	676.9	676.2
8	774.4	773.6	772.8
9	871.2	870.3	869.4

	965	964	963
1	96.5	96.4	96.3
2	193.0	192.8	192.6
3	289.5	289.2	288.9
4	386.0	385.6	385.2
5	482.5	482.0	481.5
6	579.0	578.4	577.8
7	675.5	674.8	674.1
8	772.0	771.2	770.4
9	868.5	867.6	866.7

$85^\circ.550 - 85^\circ.500$

$4^\circ.500 - 4^\circ.550$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.500	8.894 6433		8.895 9842		1.104 0158	9.998 6591		**.500**	
		963		968			5		
501	8.894 7396		8.896 0810		1.103 9190	9.998 6586	6	499	
502	8.894 8359	963	8.896 1779	969	1.103 8221	9.998 6580	6	498	
503	8.894 9321	962	8.896 2748	969	1.103 7252	9.998 6574	6	497	
		963		968			6		
504	8.895 0284		8.896 3716		1.103 6284	9.998 6568	6	496	
505	8.895 1246	962	8.896 4684	968	1.103 5316	9.998 6562	6	495	
506	8.895 2208	962	8.896 5652	968	1.103 4348	9.998 6556	6	494	
		962		968			6		
507	8.895 3170		8.896 6620		1.103 3380	9.998 6550	6	493	
508	8.895 4131	961	8.896 7587	967	1.103 2413	9.998 6544	6	492	
509	8.895 5092	961	8.896 8555	968	1.103 1445	9.998 6538	6	491	
		961		967			6		
.510	8.895 6053		8.896 9522		1.103 0478	9.998 6532		**.490**	
		961		966			6		
511	8.895 7014		8.897 0488		1.102 9512	9.998 6526	6	489	
512	8.895 7975	961	8.897 1455	967	1.102 8545	9.998 6520	6	488	
513	8.895 8935	960	8.897 2422	967	1.102 7578	9.998 6514	6	487	
		961		966			6		
514	8.895 9896		8.897 3388		1.102 6612	9.998 6508	6	486	
515	8.896 0856	960	8.897 4354	966	1.102 5646	9.998 6502	6	485	
516	8.896 1815	959	8.897 5320	966	1.102 4680	9.998 6496	6	484	
		960		965			6		
517	8.896 2775		8.897 6285		1.102 3715	9.998 6490	6	483	
518	8.896 3734	959	8.897 7250	965	1.102 2750	9.998 6484	6	482	
519	8.896 4693	959	8.897 8216	966	1.102 1784	9.998 6478	6	481	
		959		965			6		
.520	8.896 5652		8.897 9181		1.102 0819	9.998 6472		**.480**	
		959		964			6		
521	8.896 6611		8.898 0145		1.101 9855	9.998 6466	6	479	
522	8.896 7570	959	8.898 1110	965	1.101 8890	9.998 6460	6	478	
523	8.896 8528	958	8.898 2074	964	1.101 7926	9.998 6454	6	477	
		958		964			6		
524	8.896 9486		8.898 3038		1.101 6962	9.998 6448	6	476	
525	8.897 0444	958	8.898 4002	964	1.101 5998	9.998 6442	6	475	
526	8.897 1402	958	8.898 4966	964	1.101 5034	9.998 6436	6	474	
		957		963			6		
527	8.897 2359		8.898 5929		1.101 4071	9.998 6430	6	473	
528	8.897 3316	957	8.898 6892	963	1.101 3108	9.998 6424	6	472	
529	8.897 4273	957	8.898 7855	963	1.101 2145	9.998 6418	6	471	
		957		963			6		
.530	8.897 5230		8.898 8818		1.101 1182	9.998 6412		**.470**	
		957		963			6		
531	8.897 6187		8.898 9781		1.101 0219	9.998 6406	6	469	
532	8.897 7143	956	8.899 0743	962	1.100 9257	9.998 6400	6	468	
533	8.897 8099	956	8.899 1705	962	1.100 8295	9.998 6394	6	467	
		956		962			6		
534	8.897 9055		8.899 2667		1.100 7333	9.998 6388	6	466	
535	8.898 0011	956	8.899 3629	962	1.100 6371	9.998 6382	6	465	
536	8.898 0967	956	8.899 4591	962	1.100 5409	9.998 6376	6	464	
		955		961			6		
537	8.898 1922		8.899 5552		1.100 4448	9.998 6370	6	463	
538	8.898 2877	955	8.899 6513	961	1.100 3487	9.998 6364	6	462	
539	8.898 3832	955	8.899 7474	961	1.100 2526	9.998 6358	6	461	
		955		961			6		
.540	8.898 4787		8.899 8435		1.100 1565	9.998 6352		**.460**	
		954		960			6		
541	8.898 5741		8.899 9395		1.100 0605	9.998 6346	6	459	
542	8.898 6695	954	8.900 0356	961	1.099 9644	9.998 6340	6	458	
543	8.898 7649	954	8.900 1316	960	1.099 8684	9.998 6334	6	457	
		954		960			6		
544	8.898 8603		8.900 2276		1.099 7724	9.998 6328	6	456	
545	8.898 9557	954	8.900 3235	959	1.099 6765	9.998 6322	6	455	
546	8.899 0510	953	8.900 4195	960	1.099 5805	9.998 6316	6	454	
		954		959			6		
547	8.899 1464		8.900 5154		1.099 4846	9.998 6310	6	453	
548	8.899 2417	953	8.900 6113	959	1.099 3887	9.998 6304	6	452	
549	8.899 3369	952	8.900 7072	959	1.099 2928	9.998 6298	6	451	
		953		958			6		
.550	8.899 4322		8.900 8030		1.099 1970	9.998 6292		**.450**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	969	968	967
1	96.9	96.8	96.7
2	193.8	193.6	193.4
3	290.7	290.4	290.1
4	387.6	387.2	386.8
5	484.5	484.0	483.5
6	581.4	580.8	580.2
7	678.3	677.6	676.9
8	775.2	774.4	773.6
9	872.1	871.2	870.3

	966	965	964
1	96.6	96.5	96.4
2	193.2	193.0	192.8
3	289.8	289.5	289.2
4	386.4	386.0	385.6
5	483.0	482.5	482.0
6	579.6	579.0	578.4
7	676.2	675.5	674.8
8	772.8	772.0	771.2
9	869.4	868.5	867.6

	963	962	961
1	96.3	96.2	96.1
2	192.6	192.4	192.2
3	288.9	288.6	288.3
4	385.2	384.8	384.4
5	481.5	481.0	480.5
6	577.8	577.2	576.6
7	674.1	673.4	672.7
8	770.4	769.6	768.8
9	866.7	865.8	864.9

	960	959	958
1	96.0	95.9	95.8
2	192.0	191.8	191.6
3	288.0	287.7	287.4
4	384.0	383.6	383.2
5	480.0	479.5	479.0
6	576.0	575.4	574.8
7	672.0	671.3	670.6
8	768.0	767.2	766.4
9	864.0	863.1	862.2

	957	956	955
1	95.7	95.6	95.5
2	191.4	191.2	191.0
3	287.1	286.8	286.5
4	382.8	382.4	382.0
5	478.5	478.0	477.5
6	574.2	573.6	573.0
7	669.9	669.2	668.5
8	765.6	764.8	764.0
9	861.3	860.4	859.5

	954	953	952
1	95.4	95.3	95.2
2	190.8	190.6	190.4
3	286.2	285.9	285.6
4	381.6	381.2	380.8
5	477.0	476.5	476.0
6	572.4	571.8	571.2
7	667.8	667.1	666.4
8	763.2	762.4	761.6
9	858.6	857.7	856.8

$85^\circ.500 - 85^\circ.450$

$4^\circ.550 - 4^\circ.600$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.550	8.899 4322		8.900 8030		1.099 1970	9.998 6292		**.450**	
		952		959			6		
551	8.899 5274		8.900 8989		1.099 1011	9.998 6286		449	
552	8.899 6227	953	8.900 9947	958	1.099 0053	9.998 6279	7	448	
553	8.899 7179	952	8.901 0905	958	1.098 9095	9.998 6273	6	447	
		951		958			6		
554	8.899 8130		8.901 1863		1.098 8137	9.998 6267	6	446	
555	8.899 9082	952	8.901 2820	957	1.098 7180	9.998 6261	6	445	
556	8.900 0033	951	8.901 3778	958	1.098 6222	9.998 6255	6	444	
		951		957			6		
557	8.900 0984		8.901 4735		1.098 5265	9.998 6249	6	443	
558	8.900 1935	951	8.901 5692	957	1.098 4308	9.998 6243	6	442	
559	8.900 2886	951	8.901 6649	957	1.098 3351	9.998 6237	6	441	
		950		956			6		
.560	8.900 3836		8.901 7605		1.098 2395	9.998 6231		**.440**	
		951		957			6		
561	8.900 4787		8.901 8562		1.098 1438	9.998 6225	6	439	
562	8.900 5737	950	8.901 9518	956	1.098 0482	9.998 6219	6	438	
563	8.900 6687	950	8.902 0474	956	1.097 9526	9.998 6213	6	437	
		949		955			6		
564	8.900 7636		8.902 1429		1.097 8571	9.998 6207	6	436	
565	8.900 8586	950	8.902 2385	956	1.097 7615	9.998 6201	6	435	
566	8.900 9535	949	8.902 3340	955	1.097 6660	9.998 6195	6	434	
		949		955			6		
567	8.901 0484		8.902 4295		1.097 5705	9.998 6189	6	433	
568	8.901 1433	949	8.902 5250	955	1.097 4750	9.998 6183	6	432	
569	8.901 2381	948	8.902 6205	955	1.097 3795	9.998 6177	6	431	
		949		954			6		
.570	8.901 3330		8.902 7159		1.097 2841	9.998 6171		**.430**	
		948		954			6		
571	8.901 4278		8.902 8113		1.097 1887	9.998 6165	6	429	
572	8.901 5226	948	8.902 9067	954	1.097 0933	9.998 6159	6	428	
573	8.901 6174	948	8.903 0021	954	1.096 9979	9.998 6152	7	427	
		947		954			6		
574	8.901 7121		8.903 0975		1.096 9025	9.998 6146	6	426	
575	8.901 8069	948	8.903 1928	953	1.096 8072	9.998 6140	6	425	
576	8.901 9016	947	8.903 2882	954	1.096 7118	9.998 6134	6	424	
		947		953			6		
577	8.901 9963		8.903 3835		1.096 6165	9.998 6128	6	423	
578	8.902 0910	947	8.903 4787	952	1.096 5213	9.998 6122	6	422	
579	8.902 1856	946	8.903 5740	953	1.096 4260	9.998 6116	6	421	
		946		952			6		
.580	8.902 2802		8.903 6692		1.096 3308	9.998 6110		**.420**	
		947		953			6		
581	8.902 3749		8.903 7645		1.096 2355	9.998 6104	6	419	
582	8.902 4694	945	8.903 8597	952	1.096 1403	9.998 6098	6	418	
583	8.902 5640	946	8.903 9548	951	1.096 0452	9.998 6092	6	417	
		946		952			6		
584	8.902 6586		8.904 0500		1.095 9500	9.998 6086	6	416	
585	8.902 7531	945	8.904 1451	951	1.095 8549	9.998 6080	6	415	
586	8.902 8476	945	8.904 2402	951	1.095 7598	9.998 6074	6	414	
		945		951			7		
587	8.902 9421		8.904 3353		1.095 6647	9.998 6067	6	413	
588	8.903 0366	945	8.904 4304	951	1.095 5696	9.998 6061	6	412	
589	8.903 1310	944	8.904 5255	951	1.095 4745	9.998 6055	6	411	
		944		950			6		
.590	8.903 2254		8.904 6205		1.095 3795	9.998 6049		**.410**	
		944		950			6		
591	8.903 3198		8.904 7155		1.095 2845	9.998 6043	6	409	
592	8.903 4142	944	8.904 8105	950	1.095 1895	9.998 6037	6	408	
593	8.903 5086	944	8.904 9055	950	1.095 0945	9.998 6031	6	407	
		943		949			6		
594	8.903 6029		8.905 0004		1.094 9996	9.998 6025	6	406	
595	8.903 6972	943	8.905 0954	950	1.094 9046	9.998 6019	6	405	
596	8.903 7915	943	8.905 1903	949	1.094 8097	9.998 6013	6	404	
		943		949			6		
597	8.903 8858		8.905 2852		1.094 7148	9.998 6007	7	403	
598	8.903 9801	943	8.905 3800	948	1.094 6200	9.998 6000	6	402	
599	8.904 0743	942	8.905 4749	949	1.094 5251	9.998 5994	6	401	
		942		948			6		
.600	8.904 1685		8.905 5697		1.094 4303	9.998 5988		**.400**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	959	958	957
1	95.9	95.8	95.7
2	191.8	191.6	191.4
3	287.7	287.4	287.1
4	383.6	383.2	382.8
5	479.5	479.0	478.5
6	575.4	574.8	574.2
7	671.3	670.6	669.9
8	767.2	766.4	765.6
9	863.1	862.2	861.3

	956	955	954
1	95.6	95.5	95.4
2	191.2	191.0	190.8
3	286.8	286.5	286.2
4	382.4	382.0	381.6
5	478.0	477.5	477.0
6	573.6	573.0	572.4
7	669.2	668.5	667.8
8	764.8	764.0	763.2
9	860.4	859.5	858.6

	953	952	951
1	95.3	95.2	95.1
2	190.6	190.4	190.2
3	285.9	285.6	285.3
4	381.2	380.8	380.4
5	476.5	476.0	475.5
6	571.8	571.2	570.6
7	667.1	666.4	665.7
8	762.4	761.6	760.8
9	857.7	856.8	855.9

	950	949	948
1	95.0	94.9	94.8
2	190.0	189.8	189.6
3	285.0	284.7	284.4
4	380.0	379.6	379.2
5	475.0	474.5	474.0
6	570.0	569.4	568.8
7	665.0	664.3	663.6
8	760.0	759.2	758.4
9	855.0	854.1	853.2

	947	946	945
1	94.7	94.6	94.5
2	189.4	189.2	189.0
3	284.1	283.8	283.5
4	378.8	378.4	378.0
5	473.5	473.0	472.5
6	568.2	567.6	567.0
7	662.9	662.2	661.5
8	757.6	756.8	756.0
9	852.3	851.4	850.5

	944	943	942
1	94.4	94.3	94.2
2	188.8	188.6	188.4
3	283.2	282.9	282.6
4	377.6	377.2	376.8
5	472.0	471.5	471.0
6	566.4	565.8	565.2
7	660.8	660.1	659.4
8	755.2	754.4	753.6
9	849.6	848.7	847.8

$85^\circ.450 - 85^\circ.400$

4°.600 — 4°.650

4°	sin	d	tang	d	cotg	cos	d		P.P.
.600	8.904 1685		8.905 5697		1.094 4303	9.998 5988		**.400**	
		942		948			6		
601	8.904 2627		8.905 6645		1.094 3355	9.998 5982		399	
602	8.904 3569	942	8.905 7593	948	1.094 2407	9.998 5976	6	398	
603	8.904 4511	942	8.905 8541	948	1.094 1459	9.998 5970	6	397	
		941		947			6		
604	8.904 5452		8.905 9488		1.094 0512	9.998 5964		396	
605	8.904 6393	941	8.906 0436	948	1.093 9564	9.998 5958	6	395	
606	8.904 7334	941	8.906 1383	947	1.093 8617	9.998 5952	6	394	
		941		946			6		
607	8.904 8275		8.906 2329		1.093 7671	9.998 5946		393	
608	8.904 9216	941	8.906 3276	947	1.093 6724	9.998 5939	7	392	
609	8.905 0156	940	8.906 4223	947	1.093 5777	9.998 5933	6	391	
		940		946			6		
.610	8.905 1096		8.906 5169		1.093 4831	9.998 5927		**.390**	
		940		946			6		
611	8.905 2036		8.906 6115		1.093 3885	9.998 5921		389	
612	8.905 2976	940	8.906 7061	946	1.093 2939	9.998 5915	6	388	
613	8.905 3915	939	8.906 8006	945	1.093 1994	9.998 5909	6	387	
		940		946			6		
614	8.905 4855		8.906 8952		1.093 1048	9.998 5903		386	
615	8.905 5794	939	8.906 9897	945	1.093 0103	9.998 5897	6	385	
616	8.905 6733	939	8.907 0842	945	1.092 9158	9.998 5891	6	384	
		938		945			7		
617	8.905 7671		8.907 1787		1.092 8213	9.998 5884		383	
618	8.905 8610	939	8.907 2732	945	1.092 7268	9.998 5878	6	382	
619	8.905 9548	938	8.907 3676	944	1.092 6324	9.998 5872	6	381	
		938		944			6		
.620	8.906 0486		8.907 4620		1.092 5380	9.998 5866		**.380**	
		938		944			6		
621	8.906 1424		8.907 5564		1.092 4436	9.998 5860		379	
622	8.906 2362	938	8.907 6508	944	1.092 3492	9.998 5854	6	378	
623	8.906 3299	937	8.907 7452	944	1.092 2548	9.998 5848	6	377	
		938		943			6		
624	8.906 4237		8.907 8395		1.092 1605	9.998 5842		376	
625	8.906 5174	937	8.907 9338	943	1.092 0662	9.998 5835	7	375	
626	8.906 6110	936	8.908 0281	943	1.091 9719	9.998 5829	6	374	
		937		943			6		
627	8.906 7047		8.908 1224		1.091 8776	9.998 5823		373	
628	8.906 7984	937	8.908 2167	943	1.091 7833	9.998 5817	6	372	
629	8.906 8920	936	8.908 3109	942	1.091 6891	9.998 5811	6	371	
		936		942			6		
.630	8.906 9856		8.908 4051		1.091 5949	9.998 5805		**.370**	
		936		942			6		
631	8.907 0792		8.908 4993		1.091 5007	9.998 5799		369	
632	8.907 1727	935	8.908 5935	942	1.091 4065	9.998 5792	7	368	
633	8.907 2663	936	8.908 6877	942	1.091 3123	9.998 5786	6	367	
		935		941			6		
634	8.907 3598		8.908 7818		1.091 2182	9.998 5780		366	
635	8.907 4533	935	8.908 8759	941	1.091 1241	9.998 5774	6	365	
636	8.907 5468	935	8.908 9700	941	1.091 0300	9.998 5768	6	364	
		935		941			6		
637	8.907 6403		8.909 0641		1.090 9359	9.998 5762		363	
638	8.907 7337	934	8.909 1582	941	1.090 8418	9.998 5756	6	362	
639	8.907 8271	934	8.909 2522	940	1.090 7478	9.998 5749	7	361	
		934		940			6		
.640	8.907 9205		8.909 3462		1.090 6538	9.998 5743		**.360**	
		934		940			6		
641	8.908 0139		8.909 4402		1.090 5598	9.998 5737		359	
642	8.908 1073	934	8.909 5342	940	1.090 4658	9.998 5731	6	358	
643	8.908 2006	933	8.909 6281	939	1.090 3719	9.998 5725	6	357	
		934		940			6		
644	8.908 2940		8.909 7221		1.090 2779	9.998 5719		356	
645	8.908 3873	933	8.909 8160	939	1.090 1840	9.998 5712	7	355	
646	8.908 4805	932	8.909 9099	939	1.090 0901	9.998 5706	6	354	
		933		939			6		
647	8.908 5738		8.910 0038		1.089 9962	9.998 5700		353	
648	8.908 6670	932	8.910 0976	938	1.089 9024	9.998 5694	6	352	
649	8.908 7603	933	8.910 1915	939	1.089 8085	9.998 5688	6	351	
		932		938			6		
.650	8.908 8535		8.910 2853		1.089 7147	9.998 5682		**.350**	
	cos	d	cotg	d	tang	sin	d	**85°**	P.P.

	948	947	946
1	94.8	94.7	94.6
2	189.6	189.4	189.2
3	284.4	284.1	283.8
4	379.2	378.8	378.4
5	474.0	473.5	473.0
6	568.8	568.2	567.6
7	663.6	662.9	662.2
8	758.4	757.6	756.8
9	853.2	852.3	851.4

	945	944	943
1	94.5	94.4	94.3
2	189.0	188.8	188.6
3	283.5	283.2	282.9
4	378.0	377.6	377.2
5	472.5	472.0	471.5
6	567.0	566.4	565.8
7	661.5	660.8	660.1
8	756.0	755.2	754.4
9	850.5	849.6	848.7

	942	941	940
1	94.2	94.1	94.0
2	188.4	188.2	188.0
3	282.6	282.3	282.0
4	376.8	376.4	376.0
5	471.0	470.5	470.0
6	565.2	564.6	564.0
7	659.4	658.7	658.0
8	753.6	752.8	752.0
9	847.8	846.9	846.0

	939	938	937
1	93.9	93.8	93.7
2	187.8	187.6	187.4
3	281.7	281.4	281.1
4	375.6	375.2	374.8
5	469.5	469.0	468.5
6	563.4	562.8	562.2
7	657.3	656.6	655.9
8	751.2	750.4	749.6
9	845.1	844.2	843.3

	936	935	934
1	93.6	93.5	93.4
2	187.2	187.0	186.8
3	280.8	280.5	280.2
4	374.4	374.0	373.6
5	468.0	467.5	467.0
6	561.6	561.0	560.4
7	655.2	654.5	653.8
8	748.8	748.0	747.2
9	842.4	841.5	840.6

	933	932
1	93.3	93.2
2	186.6	186.4
3	279.9	279.6
4	373.2	372.8
5	466.5	466.0
6	559.8	559.2
7	653.1	652.4
8	746.4	745.6
9	839.7	838.8

85°.400 — 85°.350

$4°.650 — 4°.700$

$4°$	sin	d	tang	d	cotg	cos	d		P.P.
.650	8.908 8535		8.910 2853		1.089 7147	9.998 5682		**.350**	
		931		938			6		
651	8.908 9466		8.910 3791		1.089 6209	9.998 5676		349	
652	8.909 0398	932	8.910 4729	938	1.089 5271	9.998 5669	7	348	
653	8.909 1329	931	8.910 5666	937	1.089 4334	9.998 5663	6	347	
		932		938			6		
654	8.909 2261		8.910 6604		1.089 3396	9.998 5657		346	
655	8.909 3192	931	8.910 7541	937	1.089 2459	9.998 5651	6	345	
656	8.909 4122	930	8.910 8478	937	1.089 1522	9.998 5645	6	344	
		931		937			7		
657	8.909 5053		8.910 9415		1.089 0585	9.998 5638		343	
658	8.909 5984	931	8.911 0351	936	1.088 9649	9.998 5632	6	342	
659	8.909 6914	930	8.911 1288	937	1.088 8712	9.998 5626	6	341	
		930		936			6		
.660	8.909 7844		8.911 2224		1.088 7776	9.998 5620		**.340**	
		930		936			6		
661	8.909 8774		8.911 3160		1.088 6840	9.998 5614		339	
662	8.909 9703	929	8.911 4096	936	1.088 5904	9.998 5608	6	338	
663	8.910 0633	930	8.911 5031	935	1.088 4969	9.998 5601	7	337	
		929		936			6		
664	8.910 1562		8.911 5967		1.088 4033	9.998 5595		336	
665	8.910 2491	929	8.911 6902	935	1.088 3098	9.998 5589	6	335	
666	8.910 3420	929	8.911 7837	935	1.088 2163	9.998 5583	6	334	
		928		934			6		
667	8.910 4348		8.911 8771		1.088 1229	9.998 5577		333	
668	8.910 5277	929	8.911 9706	935	1.088 0294	9.998 5570	7	332	
669	8.910 6205	928	8.912 0640	934	1.087 9360	9.998 5564	6	331	
		928		935			6		
.670	8.910 7133		8.912 1575		1.087 8425	9.998 5558		**.330**	
		928		934			6		
671	8.910 8061		8.912 2509		1.087 7491	9.998 5552		329	
672	8.910 8988	927	8.912 3442	933	1.087 6558	9.998 5546	6	328	
673	8.910 9916	928	8.912 4376	934	1.087 5624	9.998 5540	6	327	
		927		933			7		
674	8.911 0843		8.912 5309		1.087 4691	9.998 5533		326	
675	8.911 1770	927	8.912 6243	934	1.087 3757	9.998 5527	6	325	
676	8.911 2697	927	8.912 7176	933	1.087 2824	9.998 5521	6	324	
		926		933			6		
677	8.911 3623		8.912 8109		1.087 1891	9.998 5515		323	
678	8.911 4550	927	8.912 9041	932	1.087 0959	9.998 5509	6	322	
679	8.911 5476	926	8.912 9974	933	1.087 0026	9.998 5502	7	321	
		926		932			6		
.680	8.911 6402		8.913 0906		1.086 9094	9.998 5496		**.320**	
		926		932			6		
681	8.911 7328		8.913 1838		1.086 8162	9.998 5490		319	
682	8.911 8253	925	8.913 2770	932	1.086 7230	9.998 5484	6	318	
683	8.911 9179	926	8.913 3701	931	1.086 6299	9.998 5477	7	317	
		925		932			6		
684	8.912 0104		8.913 4633		1.086 5367	9.998 5471		316	
685	8.912 1029	925	8.913 5564	931	1.086 4436	9.998 5465	6	315	
686	8.912 1954	925	8.913 6495	931	1.086 3505	9.998 5459	6	314	
		924		931			6		
687	8.912 2878		8.913 7426		1.086 2574	9.998 5453		313	
688	8.912 3803	925	8.913 8356	930	1.086 1644	9.998 5446	7	312	
689	8.912 4727	924	8.913 9287	931	1.086 0713	9.998 5440	6	311	
		924		930			6		
.690	8.912 5651		8.914 0217		1.085 9783	9.998 5434		**.310**	
		924		930			6		
691	8.912 6575		8.914 1147		1.085 8853	9.998 5428		309	
692	8.912 7499	924	8.914 2077	930	1.085 7923	9.998 5422	6	308	
693	8.912 8422	923	8.914 3007	930	1.085 6993	9.998 5415	7	307	
		923		929			6		
694	8.912 9345		8.914 3936		1.085 6064	9.998 5409		306	
695	8.913 0268	923	8.914 4865	929	1.085 5135	9.998 5403	6	305	
696	8.913 1191	923	8.914 5794	929	1.085 4206	9.998 5397	6	304	
		923		929			7		
697	8.913 2114		8.914 6723		1.085 3277	9.998 5390		303	
698	8.913 3036	922	8.914 7652	929	1.085 2348	9.998 5384	6	302	
699	8.913 3958	922	8.914 8581	929	1.085 1419	9.998 5378	6	301	
		923		928			6		
.700	8.913 4881		8.914 9509		1.085 0491	9.998 5372		**.300**	
	cos	d	cotg	d	tang	sin	d	$85°$	P.P.

	938	937	936
1	93.8	93.7	93.6
2	187.6	187.4	187.2
3	281.4	281.1	280.8
4	375.2	374.8	374.4
5	469.0	468.5	468.0
6	562.8	562.2	561.6
7	656.6	655.9	655.2
8	750.4	749.6	748.8
9	844.2	843.3	842.4

	935	934	933
1	93.5	93.4	93.3
2	187.0	186.8	186.6
3	280.5	280.2	279.9
4	374.0	373.6	373.2
5	467.5	467.0	466.5
6	561.0	560.4	559.8
7	654.5	653.8	653.1
8	748.0	747.2	746.4
9	841.5	840.6	839.7

	932	931	930
1	93.2	93.1	93.0
2	186.4	186.2	186.0
3	279.6	279.3	279.0
4	372.8	372.4	372.0
5	466.0	465.5	465.0
6	559.2	558.6	558.0
7	652.4	651.7	651.0
8	745.6	744.8	744.0
9	838.8	837.9	837.0

	929	928	927
1	92.9	92.8	92.7
2	185.8	185.6	185.4
3	278.7	278.4	278.1
4	371.6	371.2	370.8
5	464.5	464.0	463.5
6	557.4	556.8	556.2
7	650.3	649.6	648.9
8	743.2	742.4	741.6
9	836.1	835.2	834.3

	926	925	924
1	92.6	92.5	92.4
2	185.2	185.0	184.8
3	277.8	277.5	277.2
4	370.4	370.0	369.6
5	463.0	462.5	462.0
6	555.6	555.0	554.4
7	648.2	647.5	646.8
8	740.8	740.0	739.2
9	833.4	832.5	831.6

	923	922
1	92.3	92.2
2	184.6	184.4
3	276.9	276.6
4	369.2	368.8
5	461.5	461.0
6	553.8	553.2
7	646.1	645.4
8	738.4	737.6
9	830.7	829.8

$85°.350 — 85°.300$

$4^\circ.700 - 4^\circ.750$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.700	8.913 4881		8.914 9509		1.085 0491	9.998 5372		**.300**	
		921		928			6		
701	8.913 5802		8.915 0437		1.084 9563	9.998 5366		299	
702	8.913 6724	922	8.915 1365	928	1.084 8635	9.998 5359	7	298	
703	8.913 7646	922	8.915 2292	927	1.084 7708	9.998 5353	6	297	
		921		928			6		
704	8.913 8567		8.915 3220		1.084 6780	9.998 5347		296	
705	8.913 9488	921	8.915 4147	927	1.084 5853	9.998 5341	6	295	
706	8.914 0409	921	8.915 5074	927	1.084 4926	9.998 5334	7	294	
		920		927			6		
707	8.914 1329		8.915 6001		1.084 3999	9.998 5328		293	
708	8.914 2250	921	8.915 6928	927	1.084 3072	9.998 5322	6	292	
709	8.914 3170	920	8.915 7855	927	1.084 2145	9.998 5316	6	291	
		920		926			7		
.710	8.914 4090		8.915 8781		1.084 1219	9.998 5309		**.290**	
		920		926			6		
711	8.914 5010		8.915 9707		1.084 0293	9.998 5303		289	
712	8.914 5930	920	8.916 0633	926	1.083 9367	9.998 5297	6	288	
713	8.914 6849	919	8.916 1559	926	1.083 8441	9.998 5291	6	287	
		920		925			7		
714	8.914 7769		8.916 2484		1.083 7516	9.998 5284		286	
715	8.914 8688	919	8.916 3410	926	1.083 6590	9.998 5278	6	285	
716	8.914 9607	919	8.916 4335	925	1.083 5665	9.998 5272	6	284	
		918		925			6		
717	8.915 0525		8.916 5260		1.083 4740	9.998 5266		283	
718	8.915 1444	919	8.916 6185	925	1.083 3815	9.998 5259	7	282	
719	8.915 2362	918	8.916 7109	924	1.083 2891	9.998 5253	6	281	
		918		925			6		
.720	8.915 3280		8.916 8034		1.083 1966	9.998 5247		**.280**	
		918		924			6		
721	8.915 4198		8.916 8958		1.083 1042	9.998 5241		279	
722	8.915 5116	918	8.916 9882	924	1.083 0118	9.998 5234	7	278	
723	8.915 6034	918	8.917 0806	924	1.082 9194	9.998 5228	6	277	
		917		923			6		
724	8.915 6951		8.917 1729		1.082 8271	9.998 5222		276	
725	8.915 7868	917	8.917 2653	924	1.082 7347	9.998 5216	6	275	
726	8.915 8785	917	8.917 3576	923	1.082 6424	9.998 5209	7	274	
		917		923			6		
727	8.915 9702		8.917 4499		1.082 5501	9.998 5203		273	
728	8.916 0618	916	8.917 5422	923	1.082 4578	9.998 5197	6	272	
729	8.916 1535	917	8.917 6344	922	1.082 3656	9.998 5190	7	271	
		916		923			6		
.730	8.916 2451		8.917 7267		1.082 2733	9.998 5184		**.270**	
		916		922			6		
731	8.916 3367		8.917 8189		1.082 1811	9.998 5178		269	
732	8.916 4283	916	8.917 9111	922	1.082 0889	9.998 5172	6	268	
733	8.916 5198	915	8.918 0033	922	1.081 9967	9.998 5165	7	267	
		916		922			6		
734	8.916 6114		8.918 0955		1.081 9045	9.998 5159		266	
735	8.916 7029	915	8.918 1876	921	1.081 8124	9.998 5153	6	265	
736	8.916 7944	915	8.918 2797	921	1.081 7203	9.998 5147	6	264	
		915		922			7		
737	8.916 8859		8.918 3719		1.081 6281	9.998 5140		263	
738	8.916 9773	914	8.918 4639	920	1.081 5361	9.998 5134	6	262	
739	8.917 0688	915	8.918 5560	921	1.081 4440	9.998 5128	6	261	
		914		921			7		
.740	8.917 1602		8.918 6481		1.081 3519	9.998 5121		**.260**	
		914		920			6		
741	8.917 2516		8.918 7401		1.081 2599	9.998 5115		259	
742	8.917 3430	914	8.918 8321	920	1.081 1679	9.998 5109	6	258	
743	8.917 4344	914	8.918 9241	920	1.081 0759	9.998 5103	6	257	
		913		920			7		
744	8.917 5257		8.919 0161		1.080 9839	9.998 5096		256	
745	8.917 6170	913	8.919 1080	919	1.080 8920	9.998 5090	6	255	
746	8.917 7083	913	8.919 2000	920	1.080 8000	9.998 5084	6	254	
		913		919			7		
747	8.917 7996		8.919 2919		1.080 7081	9.998 5077		253	
748	8.917 8909	913	8.919 3838	919	1.080 6162	9.998 5071	6	252	
749	8.917 9822	913	8.919 4757	919	1.080 5243	9.998 5065	6	251	
		912		918			7		
.750	8.918 0734		8.919 5675		1.080 4325	9.998 5058		**.250**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	928	927	926
1	92.8	92.7	92.6
2	185.6	185.4	185.2
3	278.4	278.1	277.8
4	371.2	370.8	370.4
5	464.0	463.5	463.0
6	556.8	556.2	555.6
7	649.6	648.9	648.2
8	742.4	741.6	740.8
9	835.2	834.3	833.4

	925	924	923
1	92.5	92.4	92.3
2	185.0	184.8	184.6
3	277.5	277.2	276.9
4	370.0	369.6	369.2
5	462.5	462.0	461.5
6	555.0	554.4	553.8
7	647.5	646.8	646.1
8	740.0	739.2	738.4
9	832.5	831.6	830.7

	922	921	920
1	92.2	92.1	92.0
2	184.4	184.2	184.0
3	276.6	276.3	276.0
4	368.8	368.4	368.0
5	461.0	460.5	460.0
6	553.2	552.6	552.0
7	645.4	644.7	644.0
8	737.6	736.8	736.0
9	829.8	828.9	828.0

	919	918	917
1	91.9	91.8	91.7
2	183.8	183.6	183.4
3	275.7	275.4	275.1
4	367.6	367.2	366.8
5	459.5	459.0	458.5
6	551.4	550.8	550.2
7	643.3	642.6	641.9
8	735.2	734.4	733.6
9	827.1	826.2	825.3

	916	915	914
1	91.6	91.5	91.4
2	183.2	183.0	182.8
3	274.8	274.5	274.2
4	366.4	366.0	365.6
5	458.0	457.5	457.0
6	549.6	549.0	548.4
7	641.2	640.5	639.8
8	732.8	732.0	731.2
9	824.4	823.5	822.6

	913	912
1	91.3	91.2
2	182.6	182.4
3	273.9	273.6
4	365.2	364.8
5	456.5	456.0
6	547.8	547.2
7	639.1	638.4
8	730.4	729.6
9	821.7	820.8

$85^\circ.300 - 85^\circ.250$

$4^\circ.750 - 4^\circ.800$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.750	8.918 0734		8.919 5675		1.080 4325	9.998 5058		**.250**	
		912		919			6		
751	8.918 1646		8.919 6594		1.080 3406	9.998 5052		249	
752	8.918 2558	912	8.919 7512	918	1.080 2488	9.998 5046	6	248	
753	8.918 3470	912	8.919 8430	918	1.080 1570	9.998 5040	6	247	
		911		918			7		
754	8.918 4381		8.919 9348		1.080 0652	9.998 5033	6	246	
755	8.918 5292	911	8.920 0265	917	1.079 9735	9.998 5027	6	245	
756	8.918 6204	912	8.920 1183	918	1.079 8817	9.998 5021	7	244	
		911		917			6		
757	8.918 7115		8.920 2100		1.079 7900	9.998 5014	6	243	
758	8.918 8025	910	8.920 3017	917	1.079 6983	9.998 5008	6	242	
759	8.918 8936	911	8.920 3934	917	1.079 6066	9.998 5002	7	241	
		910		917			6		
.760	8.918 9846		8.920 4851		1.079 5149	9.998 4995		**.240**	
		910		916			6		
761	8.919 0756		8.920 5767		1.079 4233	9.998 4989	6	239	
762	8.919 1666	910	8.920 6684	917	1.079 3316	9.998 4983	6	238	
763	8.919 2576	910	8.920 7600	916	1.079 2400	9.998 4977	7	237	
		910		916			6		
764	8.919 3486		8.920 8516		1.079 1484	9.998 4970	6	236	
765	8.919 4395	909	8.920 9431	915	1.079 0569	9.998 4964	6	235	
766	8.919 5305	910	8.921 0347	916	1.078 9653	9.998 4958	7	234	
		909		915			6		
767	8.919 6214		8.921 1262		1.078 8738	9.998 4951	6	233	
768	8.919 7122	908	8.921 2178	916	1.078 7822	9.998 4945	6	232	
769	8.919 8031	909	8.921 3092	914	1.078 6908	9.998 4939	7	231	
		909		915			6		
.770	8.919 8940		8.921 4007		1.078 5993	9.998 4932		**.230**	
		908		915			6		
771	8.919 9848		8.921 4922		1.078 5078	9.998 4926	6	229	
772	8.920 0756	908	8.921 5836	914	1.078 4164	9.998 4920	7	228	
773	8.920 1664	908	8.921 6750	914	1.078 3250	9.998 4913	6	227	
		907		915			6		
774	8.920 2571		8.921 7665		1.078 2335	9.998 4907	6	226	
775	8.920 3479	908	8.921 8578	913	1.078 1422	9.998 4901	7	225	
776	8.920 4386	907	8.921 9492	914	1.078 0508	9.998 4894	6	224	
		907		913			6		
777	8.920 5293		8.922 0405		1.077 9595	9.998 4888	6	223	
778	8.920 6200	907	8.922 1319	914	1.077 8681	9.998 4882	7	222	
779	8.920 7107	907	8.922 2232	913	1.077 7768	9.998 4875	6	221	
		907		913			6		
.780	8.920 8014		8.922 3145		1.077 6855	9.998 4869		**.220**	
		906		912			6		
781	8.920 8920		8.922 4057		1.077 5943	9.998 4863	7	219	
782	8.920 9826	906	8.922 4970	913	1.077 5030	9.998 4856	6	218	
783	8.921 0732	906	8.922 5882	912	1.077 4118	9.998 4850	6	217	
		906		912			7		
784	8.921 1638		8.922 6794		1.077 3206	9.998 4844	6	216	
785	8.921 2544	906	8.922 7706	912	1.077 2294	9.998 4837	6	215	
786	8.921 3449	905	8.922 8618	912	1.077 1382	9.998 4831	7	214	
		905		912			6		
787	8.921 4354		8.922 9530		1.077 0470	9.998 4825	6	213	
788	8.921 5259	905	8.923 0441	911	1.076 9559	9.998 4818	7	212	
789	8.921 6164	905	8.923 1352	911	1.076 8648	9.998 4812	6	211	
		905		911			7		
.790	8.921 7069		8.923 2263		1.076 7737	9.998 4805		**.210**	
		904		911			6		
791	8.921 7973		8.923 3174		1.076 6826	9.998 4799	6	209	
792	8.921 8877	904	8.923 4085	911	1.076 5915	9.998 4793	6	208	
793	8.921 9782	905	8.923 4995	910	1.076 5005	9.998 4786	7	207	
		903		910			6		
794	8.922 0685		8.923 5905		1.076 4095	9.998 4780	6	206	
795	8.922 1589	904	8.923 6815	910	1.076 3185	9.998 4774	6	205	
796	8.922 2493	904	8.923 7725	910	1.076 2275	9.998 4767	7	204	
		903		910			6		
797	8.922 3396		8.923 8635		1.076 1365	9.998 4761	6	203	
798	8.922 4299	903	8.923 9544	909	1.076 0456	9.998 4755	6	202	
799	8.922 5202	903	8.924 0454	910	1.075 9546	9.998 4748	7	201	
		903		909			6		
.800	8.922 6105		8.924 1363		1.075 8637	9.998 4742		**.200**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	919	918	917
1	91.9	91.8	91.7
2	183.8	183.6	183.4
3	275.7	275.4	275.1
4	367.6	367.2	366.8
5	459.5	459.0	458.5
6	551.4	550.8	550.2
7	643.3	642.6	641.9
8	735.2	734.4	733.6
9	827.1	826.2	825.3

	916	915	914
1	91.6	91.5	91.4
2	183.2	183.0	182.8
3	274.8	274.5	274.2
4	366.4	366.0	365.6
5	458.0	457.5	457.0
6	549.6	549.0	548.4
7	641.2	640.5	639.8
8	732.8	732.0	731.2
9	824.4	823.5	822.6

	913	912	911
1	91.3	91.2	91.1
2	182.6	182.4	182.2
3	273.9	273.6	273.3
4	365.2	364.8	364.4
5	456.5	456.0	455.5
6	547.8	547.2	546.6
7	639.1	638.4	637.7
8	730.4	729.6	728.8
9	821.7	820.8	819.9

	910	909	908
1	91.0	90.9	90.8
2	182.0	181.8	181.6
3	273.0	272.7	272.4
4	364.0	363.6	363.2
5	455.0	454.5	454.0
6	546.0	545.4	544.8
7	637.0	636.3	635.6
8	728.0	727.2	726.4
9	819.0	818.1	817.2

	907	906	905
1	90.7	90.6	90.5
2	181.4	181.2	181.0
3	272.1	271.8	271.5
4	362.8	362.4	362.0
5	453.5	453.0	452.5
6	544.2	543.6	543.0
7	634.9	634.2	633.5
8	725.6	724.8	724.0
9	816.3	815.4	814.5

	904	903
1	90.4	90.3
2	180.8	180.6
3	271.2	270.9
4	361.6	361.2
5	452.0	451.5
6	542.4	541.8
7	632.8	632.1
8	723.2	722.4
9	813.6	812.7

$85^\circ.250 - 85^\circ.200$

4°.800 — 4°.850

4°	sin	d	tang	d	cotg	cos	d		P.P.
.800	8.922 6105		8.924 1363		1.075 8637	9.998 4742		.200	
		902		909			6		
801	8.922 7007		8.924 2272		1.075 7728	9.998 4736		199	
802	8.922 7910	903	8.924 3181	909	1.075 6819	9.998 4729	7	198	
803	8.922 8812	902	8.924 4089	908	1.075 5911	9.998 4723	6	197	
		902		908			7		
804	8.922 9714		8.924 4997		1.075 5003	9.998 4716	6	196	
805	8.923 0616	902	8.924 5906	909	1.075 4094	9.998 4710	6	195	
806	8.923 1517	901	8.924 6814	908	1.075 3186	9.998 4704		194	
		902		907			7		
807	8.923 2419		8.924 7721		1.075 2279	9.998 4697	6	193	
808	8.923 3320	901	8.924 8629	908	1.075 1371	9.998 4691	6	192	
809	8.923 4221	901	8.924 9537	908	1.075 0463	9.998 4685		191	
		901		907			7		
.810	8.923 5122		8.925 0444		1.074 9556	9.998 4678	6	.190	
		901		907					
811	8.923 6023		8.925 1351		1.074 8649	9.998 4672	7	189	
812	8.923 6923	900	8.925 2258	907	1.074 7742	9.998 4665	6	188	
813	8.923 7823	900	8.925 3164	906	1.074 6836	9.998 4659		187	
		901		907			6		
814	8.923 8724		8.925 4071		1.074 5929	9.998 4653		186	
815	8.923 9624	900	8.925 4977	906	1.074 5023	9.998 4646	7	185	
816	8.924 0523	899	8.925 5883	906	1.074 4117	9.998 4640	6	184	
		900		906			6		
817	8.924 1423		8.925 6789		1.074 3211	9.998 4634		183	
818	8.924 2322	899	8.925 7695	906	1.074 2305	9.998 4627	7	182	
819	8.924 3221	899	8.925 8601	906	1.074 1399	9.998 4621	6	181	
		899		905			7		
.820	8.924 4120		8.925 9506		1.074 0494	9.998 4614	6	.180	
		899		905					
821	8.924 5019		8.926 0411		1.073 9589	9.998 4608		179	
822	8.924 5918	899	8.926 1316	905	1.073 8684	9.998 4602	6	178	
823	8.924 6816	898	8.926 2221	905	1.073 7779	9.998 4595	7	177	
		898		905			6		
824	8.924 7714		8.926 3126		1.073 6874	9.998 4589		176	
825	8.924 8613	899	8.926 4030	904	1.073 5970	9.998 4582	7	175	
826	8.924 9510	897	8.926 4934	904	1.073 5066	9.998 4576	6	174	
		898		904			6		
827	8.925 0408		8.926 5838		1.073 4162	9.998 4570		173	
828	8.925 1306	898	8.926 6742	904	1.073 3258	9.998 4563	7	172	
829	8.925 2203	897	8.926 7646	904	1.073 2354	9.998 4557	6	171	
		897		904			7		
.830	8.925 3100		8.926 8550		1.073 1450	9.998 4550	6	.170	
		897		903					
831	8.925 3997		8.926 9453		1.073 0547	9.998 4544		169	
832	8.925 4894	897	8.927 0356	903	1.072 9644	9.998 4538	6	168	
833	8.925 5790	896	8.927 1259	903	1.072 8741	9.998 4531	7	167	
		897		903			6		
834	8.925 6687		8.927 2162		1.072 7838	9.998 4525		166	
835	8.925 7583	896	8.927 3064	902	1.072 6936	9.998 4518	7	165	
836	8.925 8479	896	8.927 3967	903	1.072 6033	9.998 4512	6	164	
		896		902			7		
837	8.925 9375		8.927 4869		1.072 5131	9.998 4505	6	163	
838	8.926 0270	895	8.927 5771	902	1.072 4229	9.998 4499	6	162	
839	8.926 1166	896	8.927 6673	902	1.072 3327	9.998 4493		161	
		895		902			7		
.840	8.926 2061		8.927 7575		1.072 2425	9.998 4486	6	.160	
		895		901					
841	8.926 2956		8.927 8476		1.072 1524	9.998 4480		159	
842	8.926 3851	895	8.927 9378	902	1.072 0622	9.998 4473	7	158	
843	8.926 4746	895	8.928 0279	901	1.071 9721	9.998 4467	6	157	
		894		901			6		
844	8.926 5640		8.928 1180		1.071 8820	9.998 4461		156	
845	8.926 6534	894	8.928 2080	900	1.071 7920	9.998 4454	7	155	
846	8.926 7429	895	8.928 2981	901	1.071 7019	9.998 4448	6	154	
		894		900			7		
847	8.926 8323		8.928 3881		1.071 6119	9.998 4441	6	153	
848	8.926 9216	893	8.928 4782	901	1.071 5218	9.998 4435	7	152	
849	8.927 0110	894	8.928 5682	900	1.071 4318	9.998 4428	6	151	
		893		899					
.850	8.927 1003		8.928 6581		1.071 3419	9.998 4422		.150	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	909	908	907
1	90.9	90.8	90.7
2	181.8	181.6	181.4
3	272.7	272.4	272.1
4	363.6	363.2	362.8
5	454.5	454.0	453.5
6	545.4	544.8	544.2
7	636.3	635.6	634.9
8	727.2	726.4	725.6
9	818.1	817.2	816.3

	906	905	904
1	90.6	90.5	90.4
2	181.2	181.0	180.8
3	271.8	271.5	271.2
4	362.4	362.0	361.6
5	453.0	452.5	452.0
6	543.6	543.0	542.4
7	634.2	633.5	632.8
8	724.8	724.0	723.2
9	815.4	814.5	813.6

	903	902	901
1	90.3	90.2	90.1
2	180.6	180.4	180.2
3	270.9	270.6	270.3
4	361.2	360.8	360.4
5	451.5	451.0	450.5
6	541.8	541.2	540.6
7	632.1	631.4	630.7
8	722.4	721.6	720.8
9	812.7	811.8	810.9

	900	899	898
1	90.0	89.9	89.8
2	180.0	179.8	179.6
3	270.0	269.7	269.4
4	360.0	359.6	359.2
5	450.0	449.5	449.0
6	540.0	539.4	538.8
7	630.0	629.3	628.6
8	720.0	719.2	718.4
9	810.0	809.1	808.2

	897	896	895
1	89.7	89.6	89.5
2	179.4	179.2	179.0
3	269.1	268.8	268.5
4	358.8	358.4	358.0
5	448.5	448.0	447.5
6	538.2	537.6	537.0
7	627.9	627.2	626.5
8	717.6	716.8	716.0
9	807.3	806.4	805.5

	894	893
1	89.4	89.3
2	178.8	178.6
3	268.2	267.9
4	357.6	357.2
5	447.0	446.5
6	536.4	535.8
7	625.8	625.1
8	715.2	714.4
9	804.6	803.7

85°.200 — 85°.150

$4^\circ.850 - 4^\circ.900$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.850	8.927 1003		8.928 6581		1.071 3419	9.998 4422		**.150**	
		894		900			6		
851	8.927 1897		8.928 7481		1.071 2519	9.998 4416		149	
		893		899			7		
852	8.927 2790		8.928 8380		1.071 1620	9.998 4409		148	
		892		900			6		
853	8.927 3682		8.928 9280		1.071 0720	9.998 4403		147	
		893		899			7		
854	8.927 4575		8.929 0179		1.070 9821	9.998 4396		146	
		893		899			6		
855	8.927 5468		8.929 1078		1.070 8922	9.998 4390		145	
		892		899			7		
856	8.927 6360		8.929 1977		1.070 8023	9.998 4383		144	
		892		898			6		
857	8.927 7252		8.929 2875		1.070 7125	9.998 4377		143	
		892		898			6		
858	8.927 8144		8.929 3773		1.070 6227	9.998 4370		142	
		892		899			6		
859	8.927 9036		8.929 4672		1.070 5328	9.998 4364		141	
		891		898			6		
.860	8.927 9927		8.929 5570		1.070 4430	9.998 4358		**.140**	
		892		897			7		
861	8.928 0819		8.929 6467		1.070 3533	9.998 4351		139	
		891		898			6		
862	8.928 1710		8.929 7365		1.070 2635	9.998 4345		138	
		891		898			7		
863	8.928 2601		8.929 8263		1.070 1737	9.998 4338		137	
		891		897			6		
864	8.928 3492		8.929 9160		1.070 0840	9.998 4332		136	
		890		897			6		
865	8.928 4382		8.930 0057		1.069 9943	9.998 4325		135	
		891		897			6		
866	8.928 5273		8.930 0954		1.069 9046	9.998 4319		134	
		890		897			7		
867	8.928 6163		8.930 1851		1.069 8149	9.998 4312		133	
		890		896			6		
868	8.928 7053		8.930 2747		1.069 7253	9.998 4306		132	
		890		896			6		
869	8.928 7943		8.930 3643		1.069 6357	9.998 4300		131	
		890		897			7		
.870	8.928 8833		8.930 4540		1.069 5460	9.998 4293		**.130**	
		889		896			6		
871	8.928 9722		8.930 5436		1.069 4564	9.998 4287		129	
		890		895			7		
872	8.929 0612		8.930 6331		1.069 3669	9.998 4280		128	
		889		896			6		
873	8.929 1501		8.930 7227		1.069 2773	9.998 4274		127	
		889		895			7		
874	8.929 2390		8.930 8122		1.069 1878	9.998 4267		126	
		889		896			6		
875	8.929 3279		8.930 9018		1.069 0982	9.998 4261		125	
		888		895			7		
876	8.929 4167		8.930 9913		1.069 0087	9.998 4254		124	
		889		895			6		
877	8.929 5056		8.931 0808		1.068 9192	9.998 4248		123	
		888		894			7		
878	8.929 5944		8.931 1702		1.068 8298	9.998 4241		122	
		888		895			6		
879	8.929 6832		8.931 2597		1.068 7403	9.998 4235		121	
		888		894			7		
.880	8.929 7720		8.931 3491		1.068 6509	9.998 4228		**.120**	
		888		895			6		
881	8.929 8608		8.931 4386		1.068 5614	9.998 4222		119	
		887		894			6		
882	8.929 9495		8.931 5280		1.068 4720	9.998 4216		118	
		887		893			7		
883	8.930 0382		8.931 6173		1.068 3827	9.998 4209		117	
		888		894			6		
884	8.930 1270		8.931 7067		1.068 2933	9.998 4203		116	
		886		893			7		
885	8.930 2156		8.931 7960		1.068 2040	9.998 4196		115	
		887		894			6		
886	8.930 3043		8.931 8854		1.068 1146	9.998 4190		114	
		887		893			7		
887	8.930 3930		8.931 9747		1.068 0253	9.998 4183		113	
		886		893			6		
888	8.930 4816		8.932 0640		1.067 9360	9.998 4177		112	
		887		892			7		
889	8.930 5703		8.932 1532		1.067 8468	9.998 4170		111	
		886		893			6		
.890	8.930 6589		8.932 2425		1.067 7575	9.998 4164		**.110**	
		886		892			7		
891	8.930 7475		8.932 3317		1.067 6683	9.998 4157		109	
		885		893			6		
892	8.930 8360		8.932 4210		1.067 5790	9.998 4151		108	
		886		892			7		
893	8.930 9246		8.932 5102		1.067 4898	9.998 4144		107	
		885		891			6		
894	8.931 0131		8.932 5993		1.067 4007	9.998 4138		106	
		885		892			7		
895	8.931 1016		8.932 6885		1.067 3115	9.998 4131		105	
		885		891			6		
896	8.931 1901		8.932 7776		1.067 2224	9.998 4125		104	
		885		892			7		
897	8.931 2786		8.932 8668		1.067 1332	9.998 4118		103	
		885		891			6		
898	8.931 3671		8.932 9559		1.067 0441	9.998 4112		102	
		884		891			7		
899	8.931 4555		8.933 0450		1.066 9550	9.998 4105		101	
		884		890			6		
.900	8.931 5439		8.933 1340		1.066 8660	9.998 4099		**.100**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	900	899	898
1	90.0	89.9	89.8
2	180.0	179.8	179.6
3	270.0	269.7	269.4
4	360.0	359.6	359.2
5	450.0	449.5	449.0
6	540.0	539.4	538.8
7	630.0	629.3	628.6
8	720.0	719.2	718.4
9	810.0	809.1	808.2

	897	896	895
1	89.7	89.6	89.5
2	179.4	179.2	179.0
3	269.1	268.8	268.5
4	358.8	358.4	358.0
5	448.5	448.0	447.5
6	538.2	537.6	537.0
7	627.9	627.2	626.5
8	717.6	716.8	716.0
9	807.3	806.4	805.5

	894	893	892
1	89.4	89.3	89.2
2	178.8	178.6	178.4
3	268.2	267.9	267.6
4	357.6	357.2	356.8
5	447.0	446.5	446.0
6	536.4	535.8	535.2
7	625.8	625.1	624.4
8	715.2	714.4	713.6
9	804.6	803.7	802.8

	891	890	889
1	89.1	89.0	88.9
2	178.2	178.0	177.8
3	267.3	267.0	266.7
4	356.4	356.0	355.6
5	445.5	445.0	444.5
6	534.6	534.0	533.4
7	623.7	623.0	622.3
8	712.8	712.0	711.2
9	801.9	801.0	800.1

	888	887	886
1	88.8	88.7	88.6
2	177.6	177.4	177.2
3	266.4	266.1	265.8
4	355.2	354.8	354.4
5	444.0	443.5	443.0
6	532.8	532.2	531.6
7	621.6	620.9	620.2
8	710.4	709.6	708.8
9	799.2	798.3	797.4

	885	884
1	88.5	88.4
2	177.0	176.8
3	265.5	265.2
4	354.0	353.6
5	442.5	442.0
6	531.0	530.4
7	619.5	618.8
8	708.0	707.2
9	796.5	795.6

$85^\circ.150 - 85^\circ.100$

$4^\circ.900 - 4^\circ.950$

4°	sin	d	tang	d	cotg	cos	d		P.P.
.900	8.931 5439	884	8.933 1340	891	1.066 8660	9.998 4099	7	**.100**	
901	8.931 6323	884	8.933 2231	890	1.066 7769	9.998 4092	6	099	
902	8.931 7207	884	8.933 3121	891	1.066 6879	9.998 4086	7	098	
903	8.931 8091	883	8.933 4012	890	1.066 5988	9.998 4079	6	097	
904	8.931 8974	884	8.933 4902	889	1.066 5098	9.998 4073	7	096	
905	8.931 9858	883	8.933 5791	890	1.066 4209	9.998 4066	6	095	
906	8.932 0741	883	8.933 6681	890	1.066 3319	9.998 4060	7	094	
907	8.932 1624	883	8.933 7571	889	1.066 2429	9.998 4053	6	093	
908	8.932 2507	882	8.933 8460	889	1.066 1540	9.998 4047	7	092	
909	8.932 3389	883	8.933 9349	889	1.066 0651	9.998 4040	6	091	
.910	8.932 4272	882	8.934 0238	889	1.065 9762	9.998 4034	7	**.090**	
911	8.932 5154	882	8.934 1127	888	1.065 8873	9.998 4027	6	089	
912	8.932 6036	882	8.934 2015	889	1.065 7985	9.998 4021	7	088	
913	8.932 6918	882	8.934 2904	888	1.065 7096	9.998 4014	6	087	
914	8.932 7800	881	8.934 3792	888	1.065 6208	9.998 4008	7	086	
915	8.932 8681	882	8.934 4680	888	1.065 5320	9.998 4001	6	085	
916	8.932 9563	881	8.934 5568	888	1.065 4432	9.998 3995	7	084	
917	8.933 0444	881	8.934 6456	887	1.065 3544	9.998 3988	6	083	
918	8.933 1325	881	8.934 7343	887	1.065 2657	9.998 3982	7	082	
919	8.933 2206	880	8.934 8230	888	1.065 1770	9.998 3975	6	081	
.920	8.933 3086	881	8.934 9118	887	1.065 0882	9.998 3969	7	**.080**	
921	8.933 3967	880	8.935 0005	886	1.064 9995	9.998 3962	7	079	
922	8.933 4847	880	8.935 0891	887	1.064 9109	9.998 3955	6	078	
923	8.933 5727	880	8.935 1778	886	1.064 8222	9.998 3949	7	077	
924	8.933 6607	880	8.935 2664	887	1.064 7336	9.998 3942	6	076	
925	8.933 7487	879	8.935 3551	886	1.064 6449	9.998 3936	7	075	
926	8.933 8366	880	8.935 4437	886	1.064 5563	9.998 3929	6	074	
927	8.933 9246	879	8.935 5323	885	1.064 4677	9.998 3923	7	073	
928	8.934 0125	879	8.935 6208	886	1.064 3792	9.998 3916	6	072	
929	8.934 1004	879	8.935 7094	885	1.064 2906	9.998 3910	7	071	
.930	8.934 1883	878	8.935 7979	886	1.064 2021	9.998 3903	6	**.070**	
931	8.934 2761	879	8.935 8865	885	1.064 1135	9.998 3897	7	069	
932	8.934 3640	878	8.935 9750	884	1.064 0250	9.998 3890	6	068	
933	8.934 4518	878	8.936 0634	885	1.063 9366	9.998 3884	7	067	
934	8.934 5396	878	8.936 1519	885	1.063 8481	9.998 3877	7	066	
935	8.934 6274	878	8.936 2404	884	1.063 7596	9.998 3870	6	065	
936	8.934 7152	877	8.936 3288	884	1.063 6712	9.998 3864	7	064	
937	8.934 8029	878	8.936 4172	884	1.063 5828	9.998 3857	6	063	
938	8.934 8907	877	8.936 5056	884	1.063 4944	9.998 3851	7	062	
939	8.934 9784	877	8.936 5940	883	1.063 4060	9.998 3844	6	061	
.940	8.935 0661	877	8.936 6823	884	1.063 3177	9.998 3838	7	**.060**	
941	8.935 1538	877	8.936 7707	883	1.063 2293	9.998 3831	6	059	
942	8.935 2415	876	8.936 8590	883	1.063 1410	9.998 3825	7	058	
943	8.935 3291	877	8.936 9473	883	1.063 0527	9.998 3818	6	057	
944	8.935 4168	876	8.937 0356	883	1.062 9644	9.998 3812	7	056	
945	8.935 5044	876	8.937 1239	882	1.062 8761	9.998 3805	7	055	
946	8.935 5920	875	8.937 2121	883	1.062 7879	9.998 3798	6	054	
947	8.935 6795	876	8.937 3004	882	1.062 6996	9.998 3792	7	053	
948	8.935 7671	876	8.937 3886	882	1.062 6114	9.998 3785	6	052	
949	8.935 8547	875	8.937 4768	882	1.062 5232	9.998 3779	7	051	
.950	8.935 9422		8.937 5650		1.062 4350	9.998 3772		**.050**	
	cos	d	cotg	d	tang	sin	d	85°	P.P.

	891	890	889
1	89.1	89.0	88.9
2	178.2	178.0	177.8
3	267.3	267.0	266.7
4	356.4	356.0	355.6
5	445.5	445.0	444.5
6	534.6	534.0	533.4
7	623.7	623.0	622.3
8	712.8	712.0	711.2
9	801.9	801.0	800.1

	888	887	886
1	88.8	88.7	88.6
2	177.6	177.4	177.2
3	266.4	266.1	265.8
4	355.2	354.8	354.4
5	444.0	443.5	443.0
6	532.8	532.2	531.6
7	621.6	620.9	620.2
8	710.4	709.6	708.8
9	799.2	798.3	797.4

	885	884	883
1	88.5	88.4	88.3
2	177.0	176.8	176.6
3	265.5	265.2	264.9
4	354.0	353.6	353.2
5	442.5	442.0	441.5
6	531.0	530.4	529.8
7	619.5	618.8	618.1
8	708.0	707.2	706.4
9	796.5	795.6	794.7

	882	881	880
1	88.2	88.1	88.0
2	176.4	176.2	176.0
3	264.6	264.3	264.0
4	352.8	352.4	352.0
5	441.0	440.5	440.0
6	529.2	528.6	528.0
7	617.4	616.7	616.0
8	705.6	704.8	704.0
9	793.8	792.9	792.0

	879	878	877
1	87.9	87.8	87.7
2	175.8	175.6	175.4
3	263.7	263.4	263.1
4	351.6	351.2	350.8
5	439.5	439.0	438.5
6	527.4	526.8	526.2
7	615.3	614.6	613.9
8	703.2	702.4	701.6
9	791.1	790.2	789.3

	876	875
1	87.6	87.5
2	175.2	175.0
3	262.8	262.5
4	350.4	350.0
5	438.0	437.5
6	525.6	525.0
7	613.2	612.5
8	700.8	700.0
9	788.4	787.5

$85^\circ.100 - 85^\circ.050$

$4^\circ.950 - 5^\circ.000$

4°	sin	d	tang	d	cotg	cos	d	
.950	8.935 9422	875	8.937 5650	881	1.062 4350	9.998 3772	6	**.050**
951	8.936 0297	875	8.937 6531	882	1.062 3469	9.998 3766	7	049
952	8.936 1172	875	8.937 7413	881	1.062 2587	9.998 3759	7	048
953	8.936 2047	874	8.937 8294	881	1.062 1706	9.998 3752	6	047
954	8.936 2921	874	8.937 9175	881	1.062 0825	9.998 3746	7	046
955	8.936 3795	875	8.938 0056	881	1.061 9944	9.998 3739	6	045
956	8.936 4670	874	8.938 0937	880	1.061 9063	9.998 3733	7	044
957	8.936 5544	874	8.938 1817	881	1.061 8183	9.998 3726	6	043
958	8.936 6418	873	8.938 2698	880	1.061 7302	9.998 3720	7	042
959	8.936 7291	874	8.938 3578	880	1.061 6422	9.998 3713	7	041
.960	8.936 8165	873	8.938 4458	880	1.061 5542	9.998 3706	6	**.040**
961	8.936 9038	873	8.938 5338	880	1.061 4662	9.998 3700	7	039
962	8.936 9911	873	8.938 6218	879	1.061 3782	9.998 3693	6	038
963	8.937 0784	873	8.938 7097	880	1.061 2903	9.998 3687	7	037
964	8.937 1657	873	8.938 7977	879	1.061 2023	9.998 3680	6	036
965	8.937 2530	872	8.938 8856	879	1.061 1144	9.998 3674	7	035
966	8.937 3402	872	8.938 9735	879	1.061 0265	9.998 3667	7	034
967	8.937 4274	872	8.939 0614	878	1.060 9386	9.998 3660	6	033
968	8.937 5146	872	8.939 1492	879	1.060 8508	9.998 3654	7	032
969	8.937 6018	872	8.939 2371	878	1.060 7629	9.998 3647	6	031
.970	8.937 6890	871	8.939 3249	878	1.060 6751	9.998 3641	7	**.030**
971	8.937 7761	872	8.939 4127	878	1.060 5873	9.998 3634	7	029
972	8.937 8633	871	8.939 5005	878	1.060 4995	9.998 3627	6	028
973	8.937 9504	871	8.939 5883	878	1.060 4117	9.998 3621	7	027
974	8.938 0375	871	8.939 6761	877	1.060 3239	9.998 3614	6	026
975	8.938 1246	871	8.939 7638	878	1.060 2362	9.998 3608	7	025
976	8.938 2117	870	8.939 8516	877	1.060 1484	9.998 3601	7	024
977	8.938 2987	870	8.939 9393	877	1.060 0607	9.998 3594	6	023
978	8.938 3857	871	8.940 0270	876	1.059 9730	9.998 3588	7	022
979	8.938 4728	869	8.940 1146	877	1.059 8854	9.998 3581	6	021
.980	8.938 5597	870	8.940 2023	876	1.059 7977	9.998 3575	7	**.020**
981	8.938 6467	870	8.940 2899	876	1.059 7101	9.998 3568	7	019
982	8.938 7337	869	8.940 3775	877	1.059 6225	9.998 3561	6	018
983	8.938 8206	870	8.940 4652	875	1.059 5348	9.998 3555	7	017
984	8.938 9076	869	8.940 5527	876	1.059 4473	9.998 3548	6	016
985	8.938 9945	869	8.940 6403	876	1.059 3597	9.998 3542	7	015
986	8.939 0814	868	8.940 7279	875	1.059 2721	9.998 3535	7	014
987	8.939 1682	869	8.940 8154	875	1.059 1846	9.998 3528	6	013
988	8.939 2551	868	8.940 9029	875	1.059 0971	9.998 3522	7	012
989	8.939 3419	869	8.940 9904	875	1.059 0096	9.998 3515	6	011
.990	8.939 4288	868	8.941 0779	875	1.058 9221	9.998 3509	7	**.010**
991	8.939 5156	867	8.941 1654	874	1.058 8346	9.998 3502	7	009
992	8.939 6023	868	8.941 2528	874	1.058 7472	9.998 3495	6	008
993	8.939 6891	868	8.941 3402	875	1.058 6598	9.998 3489	7	007
994	8.939 7759	867	8.941 4277	874	1.058 5723	9.998 3482	7	006
995	8.939 8626	867	8.941 5151	873	1.058 4849	9.998 3475	6	005
996	8.939 9493	867	8.941 6024	874	1.058 3976	9.998 3469	7	004
997	8.940 0360	867	8.941 6898	873	1.058 3102	9.998 3462	6	003
998	8.940 1227	867	8.941 7771	874	1.058 2229	9.998 3456	7	002
999	8.940 2094	866	8.941 8645	873	1.058 1355	9.998 3449	7	001
***000**	8.940 2960		8.941 9518		1.058 0482	9.998 3442		**.000**
	cos	d	cotg	d	tang	sin	d	85°

P.P.

	882	881	880
1	88.2	88.1	88.0
2	176.4	176.2	176.0
3	264.6	264.3	264.0
4	352.8	352.4	352.0
5	441.0	440.5	440.0
6	529.2	528.6	528.0
7	617.4	616.7	616.0
8	705.6	704.8	704.0
9	793.8	792.9	792.0

	879	878	877
1	87.9	87.8	87.7
2	175.8	175.6	175.4
3	263.7	263.4	263.1
4	351.6	351.2	350.8
5	439.5	439.0	438.5
6	527.4	526.8	526.2
7	615.3	614.6	613.9
8	703.2	702.4	701.6
9	791.1	790.2	789.3

	876	875	874
1	87.6	87.5	87.4
2	175.2	175.0	174.8
3	262.8	262.5	262.2
4	350.4	350.0	349.6
5	438.0	437.5	437.0
6	525.6	525.0	524.4
7	613.2	612.5	611.8
8	700.8	700.0	699.2
9	788.4	787.5	786.6

	873	872	871
1	87.3	87.2	87.1
2	174.6	174.4	174.2
3	261.9	261.6	261.3
4	349.2	348.8	348.4
5	436.5	436.0	435.5
6	523.8	523.2	522.6
7	611.1	610.4	609.7
8	698.4	697.6	696.8
9	785.7	784.8	783.9

	870	869	868
1	87.0	86.9	86.8
2	174.0	173.8	173.6
3	261.0	260.7	260.4
4	348.0	347.6	347.2
5	435.0	434.5	434.0
6	522.0	521.4	520.8
7	609.0	608.3	607.6
8	696.0	695.2	694.4
9	783.0	782.1	781.2

	867	866
1	86.7	86.6
2	173.4	173.2
3	260.1	259.8
4	346.8	346.4
5	433.5	433.0
6	520.2	519.6
7	606.9	606.2
8	693.6	692.8
9	780.3	779.4

$85^\circ.050 - 85^\circ.000$

5°.000 — 5°.050

5°	sin	d	tang	d	cotg	cos	d		P.P.
.000	8.940 2960	866	8.941 9518	873	1.058 0482	9.998 3442	6	*000	
001	8.940 3826	867	8.942 0391	873	1.057 9609	9.998 3436	7	999	
002	8.940 4693	865	8.942 1264	872	1.057 8736	9.998 3429	7	998	
003	8.940 5558	866	8.942 2136	872	1.057 7864	9.998 3422	6	997	
004	8.940 6424	866	8.942 3008	873	1.057 6992	9.998 3416	7	996	
005	8.940 7290	865	8.942 3881	872	1.057 6119	9.998 3409	7	995	
006	8.940 8155	866	8.942 4753	872	1.057 5247	9.998 3402	6	994	
007	8.940 9021	865	8.942 5625	871	1.057 4375	9.998 3396	7	993	
008	8.940 9886	864	8.942 6496	872	1.057 3504	9.998 3389	6	992	
009	8.941 0750	865	8.942 7368	871	1.057 2632	9.998 3383	7	991	
.010	8.941 1615	865	8.942 8239	872	1.057 1761	9.998 3376	7	.990	
011	8.941 2480	864	8.942 9111	871	1.057 0889	9.998 3369	6	989	
012	8.941 3344	864	8.942 9982	870	1.057 0018	9.998 3363	7	988	
013	8.941 4208	864	8.943 0852	871	1.056 9148	9.998 3356	7	987	
014	8.941 5072	864	8.943 1723	871	1.056 8277	9.998 3349	6	986	
015	8.941 5936	864	8.943 2594	870	1.056 7406	9.998 3343	7	985	
016	8.941 6800	863	8.943 3464	870	1.056 6536	9.998 3336	7	984	
017	8.941 7663	864	8.943 4334	870	1.056 5666	9.998 3329	6	983	
018	8.941 8527	863	8.943 5204	870	1.056 4796	9.998 3323	7	982	
019	8.941 9390	863	8.943 6074	870	1.056 3926	9.998 3316	7	981	
.020	8.942 0253	863	8.943 6944	869	1.056 3056	9.998 3309	6	.980	
021	8.942 1116	862	8.943 7813	869	1.056 2187	9.998 3303	7	979	
022	8.942 1978	863	8.943 8682	870	1.056 1318	9.998 3296	7	978	
023	8.942 2841	862	8.943 9552	869	1.056 0448	9.998 3289	6	977	
024	8.942 3703	862	8.944 0421	868	1.055 9579	9.998 3283	7	976	
025	8.942 4565	862	8.944 1289	869	1.055 8711	9.998 3276	7	975	
026	8.942 5427	862	8.944 2158	868	1.055 7842	9.998 3269	6	974	
027	8.942 6289	862	8.944 3026	869	1.055 6974	9.998 3263	7	973	
028	8.942 7151	861	8.944 3895	868	1.055 6105	9.998 3256	7	972	
029	8.942 8012	862	8.944 4763	868	1.055 5237	9.998 3249	6	971	
.030	8.942 8874	861	8.944 5631	868	1.055 4369	9.998 3243	7	.970	
031	8.942 9735	861	8.944 6499	867	1.055 3501	9.998 3236	7	969	
032	8.943 0596	860	8.944 7366	868	1.055 2634	9.998 3229	6	968	
033	8.943 1456	861	8.944 8234	867	1.055 1766	9.998 3223	7	967	
034	8.943 2317	860	8.944 9101	867	1.055 0899	9.998 3216	7	966	
035	8.943 3177	861	8.944 9968	867	1.055 0032	9.998 3209	6	965	
036	8.943 4038	860	8.945 0835	867	1.054 9165	9.998 3203	7	964	
037	8.943 4898	860	8.945 1702	866	1.054 8298	9.998 3196	7	963	
038	8.943 5758	859	8.945 2568	867	1.054 7432	9.998 3189	6	962	
039	8.943 6617	860	8.945 3435	866	1.054 6565	9.998 3183	7	961	
.040	8.943 7477	859	8.945 4301	866	1.054 5699	9.998 3176	7	.960	
041	8.943 8336	859	8.945 5167	866	1.054 4833	9.998 3169	6	959	
042	8.943 9195	859	8.945 6033	866	1.054 3967	9.998 3163	7	958	
043	8.944 0054	859	8.945 6899	865	1.054 3101	9.998 3156	7	957	
044	8.944 0913	859	8.945 7764	866	1.054 2236	9.998 3149	7	956	
045	8.944 1772	859	8.945 8630	865	1.054 1370	9.998 3142	6	955	
046	8.944 2631	858	8.945 9495	865	1.054 0505	9.998 3136	7	954	
047	8.944 3489	858	8.946 0360	865	1.053 9640	9.998 3129	7	953	
048	8.944 4347	858	8.946 1225	864	1.053 8775	9.998 3122	6	952	
049	8.944 5205	858	8.946 2089	865	1.053 7911	9.998 3116	7	951	
.050	8.944 6063		8.946 2954		1.053 7046	9.998 3109		.950	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	873	872	871
1	87.3	87.2	87.1
2	174.6	174.4	174.2
3	261.9	261.6	261.3
4	349.2	348.8	348.4
5	436.5	436.0	435.5
6	523.8	523.2	522.6
7	611.1	610.4	609.7
8	698.4	697.6	696.8
9	785.7	784.8	783.9

	870	869	868
1	87.0	86.9	86.8
2	174.0	173.8	173.6
3	261.0	260.7	260.4
4	348.0	347.6	347.2
5	435.0	434.5	434.0
6	522.0	521.4	520.8
7	609.0	608.3	607.6
8	696.0	695.2	694.4
9	783.0	782.1	781.2

	867	866	865
1	86.7	86.6	86.5
2	173.4	173.2	173.0
3	260.1	259.8	259.5
4	346.8	346.4	346.0
5	433.5	433.0	432.5
6	520.2	519.6	519.0
7	606.9	606.2	605.5
8	693.6	692.8	692.0
9	780.3	779.4	778.5

	864	863	862
1	86.4	86.3	86.2
2	172.8	172.6	172.4
3	259.2	258.9	258.6
4	345.6	345.2	344.8
5	432.0	431.5	431.0
6	518.4	517.8	517.2
7	604.8	604.1	603.4
8	691.2	690.4	689.6
9	777.6	776.7	775.8

	861	860	859
1	86.1	86.0	85.9
2	172.2	172.0	171.8
3	258.3	258.0	257.7
4	344.4	344.0	343.6
5	430.5	430.0	429.5
6	516.6	516.0	515.4
7	602.7	602.0	601.3
8	688.8	688.0	687.2
9	774.9	774.0	773.1

	858
1	85.8
2	171.6
3	257.4
4	343.2
5	429.0
6	514.8
7	600.6
8	686.4
9	772.2

85°.000 — 84°.950

5°.050 — 5°.100

5°	sin	d	tang	d	cotg	cos	d		P.P.
.050	8.944 6063	858	8.946 2954	864	1.053 7046	9.998 3109	7	.950	
051	8.944 6921	857	8.946 3818	865	1.053 6182	9.998 3102	6	949	
052	8.944 7778	857	8.946 4683	864	1.053 5317	9.998 3096	7	948	
053	8.944 8635	858	8.946 5547	863	1.053 4453	9.998 3089	7	947	
054	8.944 9493	857	8.946 6410	864	1.053 3590	9.998 3082	6	946	
055	8.945 0350	856	8.946 7274	864	1.053 2726	9.998 3076	7	945	
056	8.945 1206	857	8.946 8138	863	1.053 1862	9.998 3069	7	944	
057	8.945 2063	857	8.946 9001	863	1.053 0999	9.998 3062	7	943	
058	8.945 2920	856	8.946 9864	863	1.053 0136	9.998 3055	6	942	
059	8.945 3776	856	8.947 0727	863	1.052 9273	9.998 3049	7	941	
.060	8.945 4632	856	8.947 1590	863	1.052 8410	9.998 3042	7	.940	
061	8.945 5488	856	8.947 2453	862	1.052 7547	9.998 3035	6	939	
062	8.945 6344	855	8.947 3315	863	1.052 6685	9.998 3029	7	938	
063	8.945 7199	856	8.947 4178	862	1.052 5822	9.998 3022	7	937	
064	8.945 8055	855	8.947 5040	862	1.052 4960	9.998 3015	6	936	
065	8.945 8910	855	8.947 5902	862	1.052 4098	9.998 3008	7	935	
066	8.945 9765	855	8.947 6764	861	1.052 3236	9.998 3002	6	934	
067	8.946 0620	855	8.947 7625	862	1.052 2375	9.998 2995	7	933	
068	8.946 1475	855	8.947 8487	861	1.052 1513	9.998 2988	7	932	
069	8.946 2330	854	8.947 9348	861	1.052 0652	9.998 2982	6	931	
.070	8.946 3184	854	8.948 0209	861	1.051 9791	9.998 2975	7	.930	
071	8.946 4038	855	8.948 1070	861	1.051 8930	9.998 2968	7	929	
072	8.946 4893	853	8.948 1931	861	1.051 8069	9.998 2961	7	928	
073	8.946 5746	854	8.948 2792	860	1.051 7208	9.998 2955	6	927	
074	8.946 6600	854	8.948 3652	861	1.051 6348	9.998 2948	7	926	
075	8.946 7454	853	8.948 4513	860	1.051 5487	9.998 2941	7	925	
076	8.946 8307	854	8.948 5373	860	1.051 4627	9.998 2934	7	924	
077	8.946 9161	853	8.948 6233	860	1.051 3767	9.998 2928	6	923	
078	8.947 0014	853	8.948 7093	859	1.051 2907	9.998 2921	7	922	
079	8.947 0867	852	8.948 7952	860	1.051 2048	9.998 2914	7	921	
.080	8.947 1719	853	8.948 8812	859	1.051 1188	9.998 2907	7	.920	
081	8.947 2572	852	8.948 9671	859	1.051 0329	9.998 2901	6	919	
082	8.947 3424	853	8.949 0530	859	1.050 9470	9.998 2894	7	918	
083	8.947 4277	852	8.949 1389	859	1.050 8611	9.998 2887	7	917	
084	8.947 5129	852	8.949 2248	859	1.050 7752	9.998 2881	6	916	
085	8.947 5981	851	8.949 3107	858	1.050 6893	9.998 2874	7	915	
086	8.947 6832	852	8.949 3965	859	1.050 6035	9.998 2867	7	914	
087	8.947 7684	851	8.949 4824	858	1.050 5176	9.998 2860	7	913	
088	8.947 8535	851	8.949 5682	858	1.050 4318	9.998 2854	6	912	
089	8.947 9386	852	8.949 6540	858	1.050 3460	9.998 2847	7	911	
.090	8.948 0238	850	8.949 7398	857	1.050 2602	9.998 2840	7	.910	
091	8.948 1088	851	8.949 8255	858	1.050 1745	9.998 2833	7	909	
092	8.948 1939	851	8.949 9113	857	1.050 0887	9.998 2827	6	908	
093	8.948 2790	850	8.949 9970	857	1.050 0030	9.998 2820	7	907	
094	8.948 3640	850	8.950 0827	857	1.049 9173	9.998 2813	7	906	
095	8.948 4490	850	8.950 1684	857	1.049 8316	9.998 2806	7	905	
096	8.948 5340	850	8.950 2541	857	1.049 7459	9.998 2799	7	904	
097	8.948 6190	850	8.950 3398	856	1.049 6602	9.998 2793	6	903	
098	8.948 7040	850	8.950 4254	856	1.049 5746	9.998 2786	7	902	
099	8.948 7890	850	8.950 5110	857	1.049 4890	9.998 2779	7	901	
.100	8.948 8739	849	8.950 5967		1.049 4033	9.998 2772	7	.900	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	865	864	863
1	86.5	86.4	86.3
2	173.0	172.8	172.6
3	259.5	259.2	258.9
4	346.0	345.6	345.2
5	432.5	432.0	431.5
6	519.0	518.4	517.8
7	605.5	604.8	604.1
8	692.0	691.2	690.4
9	778.5	777.6	776.7

	862	861	860
1	86.2	86.1	86.0
2	172.4	172.2	172.0
3	258.6	258.3	258.0
4	344.8	344.4	344.0
5	431.0	430.5	430.0
6	517.2	516.6	516.0
7	603.4	602.7	602.0
8	689.6	688.8	688.0
9	775.8	774.9	774.0

	859	858	857
1	85.9	85.8	85.7
2	171.8	171.6	171.4
3	257.7	257.4	257.1
4	343.6	343.2	342.8
5	429.5	429.0	428.5
6	515.4	514.8	514.2
7	601.3	600.6	599.9
8	687.2	686.4	685.6
9	773.1	772.2	771.3

	856	855	854
1	85.6	85.5	85.4
2	171.2	171.0	170.8
3	256.8	256.5	256.2
4	342.4	342.0	341.6
5	428.0	427.5	427.0
6	513.6	513.0	512.4
7	599.2	598.5	597.8
8	684.8	684.0	683.2
9	770.4	769.5	768.6

	853	852	851
1	85.3	85.2	85.1
2	170.6	170.4	170.2
3	255.9	255.6	255.3
4	341.2	340.8	340.4
5	426.5	426.0	425.5
6	511.8	511.2	510.6
7	597.1	596.4	595.7
8	682.4	681.6	680.8
9	767.7	766.8	765.9

	850	849
1	85.0	84.9
2	170.0	169.8
3	255.0	254.7
4	340.0	339.6
5	425.0	424.5
6	510.0	509.4
7	595.0	594.3
8	680.0	679.2
9	765.0	764.1

84°.950 — 84°.900

5°.100 — 5°.150

5°	sin	d	tang	d	cotg	cos	d		P.P.
.100	8.948 8739	849	8.950 5967	856	1.049 4033	9.998 2772	6	.900	
101	8.948 9588	849	8.950 6823	855	1.049 3177	9.998 2766	7	899	
102	8.949 0437	849	8.950 7678	856	1.049 2322	9.998 2759	7	898	
103	8.949 1286	849	8.950 8534	856	1.049 1466	9.998 2752	7	897	
104	8.949 2135	848	8.950 9390	855	1.049 0610	9.998 2745	6	896	
105	8.949 2983	849	8.951 0245	855	1.048 9755	9.998 2739	7	895	
106	8.949 3832	848	8.951 1100	855	1.048 8900	9.998 2732	7	894	
107	8.949 4680	848	8.951 1955	855	1.048 8045	9.998 2725	7	893	
108	8.949 5528	848	8.951 2810	854	1.048 7190	9.998 2718	6	892	
109	8.949 6376	848	8.951 3664	855	1.048 6336	9.998 2712	7	891	
.110	8.949 7224	847	8.951 4519	854	1.048 5481	9.998 2705	7	.890	
111	8.949 8071	848	8.951 5373	854	1.048 4627	9.998 2698	7	889	
112	8.949 8919	847	8.951 6227	854	1.048 3773	9.998 2691	7	888	
113	8.949 9766	847	8.951 7081	854	1.048 2919	9.998 2684	6	887	
114	8.950 0613	847	8.951 7935	854	1.048 2065	9.998 2678	7	886	
115	8.950 1460	847	8.951 8789	853	1.048 1211	9.998 2671	7	885	
116	8.950 2307	846	8.951 9642	854	1.048 0358	9.998 2664	7	884	
117	8.950 3153	846	8.952 0496	853	1.047 9504	9.998 2657	7	883	
118	8.950 3999	847	8.952 1349	853	1.047 8651	9.998 2650	6	882	
119	8.950 4846	846	8.952 2202	853	1.047 7798	9.998 2644	7	881	
.120	8.950 5692	846	8.952 3055	853	1.047 6945	9.998 2637	7	.880	
121	8.950 6538	845	8.952 3908	852	1.047 6092	9.998 2630	7	879	
122	8.950 7383	846	8.952 4760	852	1.047 5240	9.998 2623	7	878	
123	8.950 8229	845	8.952 5612	853	1.047 4388	9.998 2616	6	877	
124	8.950 9074	846	8.952 6465	852	1.047 3535	9.998 2610	7	876	
125	8.950 9920	845	8.952 7317	851	1.047 2683	9.998 2603	7	875	
126	8.951 0765	844	8.952 8168	852	1.047 1832	9.998 2596	7	874	
127	8.951 1609	845	8.952 9020	852	1.047 0980	9.998 2589	6	873	
128	8.951 2454	845	8.952 9872	851	1.047 0128	9.998 2583	7	872	
129	8.951 3299	844	8.953 0723	851	1.046 9277	9.998 2576	7	871	
.130	8.951 4143	844	8.953 1574	851	1.046 8426	9.998 2569	7	.870	
131	8.951 4987	844	8.953 2425	851	1.046 7575	9.998 2562	7	869	
132	8.951 5831	844	8.953 3276	851	1.046 6724	9.998 2555	7	868	
133	8.951 6675	844	8.953 4127	850	1.046 5873	9.998 2548	6	867	
134	8.951 7519	844	8.953 4977	851	1.046 5023	9.998 2542	7	866	
135	8.951 8363	843	8.953 5828	850	1.046 4172	9.998 2535	7	865	
136	8.951 9206	843	8.953 6678	850	1.046 3322	9.998 2528	7	864	
137	8.952 0049	843	8.953 7528	850	1.046 2472	9.998 2521	7	863	
138	8.952 0892	843	8.953 8378	850	1.046 1622	9.998 2514	6	862	
139	8.952 1735	843	8.953 9228	849	1.046 0772	9.998 2508	7	861	
.140	8.952 2578	843	8.954 0077	850	1.045 9923	9.998 2501	7	.860	
141	8.952 3421	842	8.954 0927	849	1.045 9073	9.998 2494	7	859	
142	8.952 4263	842	8.954 1776	849	1.045 8224	9.998 2487	7	858	
143	8.952 5105	842	8.954 2625	849	1.045 7375	9.998 2480	7	857	
144	8.952 5947	842	8.954 3474	849	1.045 6526	9.998 2473	6	856	
145	8.952 6789	842	8.954 4323	848	1.045 5677	9.998 2467	7	855	
146	8.952 7631	842	8.954 5171	849	1.045 4829	9.998 2460	7	854	
147	8.952 8473	841	8.954 6020	848	1.045 3980	9.998 2453	7	853	
148	8.952 9314	841	8.954 6868	848	1.045 3132	9.998 2446	7	852	
149	8.953 0155	841	8.954 7716	848	1.045 2284	9.998 2439	6	851	
.150	8.953 0996		8.954 8564		1.045 1436	9.998 2433		.850	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	856	855	854
1	85.6	85.5	85.4
2	171.2	171.0	170.8
3	256.8	256.5	256.2
4	342.4	342.0	341.6
5	428.0	427.5	427.0
6	513.6	513.0	512.4
7	599.2	598.5	597.8
8	684.8	684.0	683.2
9	770.4	769.5	768.6

	853	852	851
1	85.3	85.2	85.1
2	170.6	170.4	170.2
3	255.9	255.6	255.3
4	341.2	340.8	340.4
5	426.5	426.0	425.5
6	511.8	511.2	510.6
7	597.1	596.4	595.7
8	682.4	681.6	680.8
9	767.7	766.8	765.9

	850	849	848
1	85.0	84.9	84.8
2	170.0	169.8	169.6
3	255.0	254.7	254.4
4	340.0	339.6	339.2
5	425.0	424.5	424.0
6	510.0	509.4	508.8
7	595.0	594.3	593.6
8	680.0	679.2	678.4
9	765.0	764.1	763.2

	847	846	845
1	84.7	84.6	84.5
2	169.4	169.2	169.0
3	254.1	253.8	253.5
4	338.8	338.4	338.0
5	423.5	423.0	422.5
6	508.2	507.6	507.0
7	592.9	592.2	591.5
8	677.6	676.8	676.0
9	762.3	761.4	760.5

	844	843	842
1	84.4	84.3	84.2
2	168.8	168.6	168.4
3	253.2	252.9	252.6
4	337.6	337.2	336.8
5	422.0	421.5	421.0
6	506.4	505.8	505.2
7	590.8	590.1	589.4
8	675.2	674.4	673.6
9	759.6	758.7	757.8

	841
1	84.1
2	168.2
3	252.3
4	336.4
5	420.5
6	504.6
7	588.7
8	672.8
9	756.9

84°.900 — 84°.850

5°.150 — 5°.200

5°	sin	d	tang	d	cotg	cos	d		P.P.
.150	8.953 0996		8.954 8564		1.045 1436	9.998 2433		.850	
		841		848			7		
151	8.953 1837		8.954 9412		1.045 0588	9.998 2426		849	
152	8.953 2678	841	8.955 0259	847	1.044 9741	9.998 2419	7	848	
153	8.953 3519	841	8.955 1107	848	1.044 8893	9.998 2412	7	847	
		840		847			7		
154	8.953 4359		8.955 1954		1.044 8046	9.998 2405		846	
155	8.953 5199	840	8.955 2801	847	1.044 7199	9.998 2398	7	845	
156	8.953 6040	841	8.955 3648	847	1.044 6352	9.998 2392	6	844	
		840		847			7		
157	8.953 6880		8.955 4495		1.044 5505	9.998 2385		843	
158	8.953 7719	839	8.955 5342	847	1.044 4658	9.998 2378	7	842	
159	8.953 8559	840	8.955 6188	846	1.044 3812	9.998 2371	7	841	
		839		846			7		
.160	8.953 9398		8.955 7034		1.044 2966	9.998 2364		.840	
		840		846			7		
161	8.954 0238		8.955 7880		1.044 2120	9.998 2357		839	
162	8.954 1077	839	8.955 8726	846	1.044 1274	9.998 2350	7	838	
163	8.954 1916	839	8.955 9572	846	1.044 0428	9.998 2344	6	837	
		839		846			7		
164	8.954 2755		8.956 0418		1.043 9582	9.998 2337		836	
165	8.954 3593	838	8.956 1263	845	1.043 8737	9.998 2330	7	835	
166	8.954 4432	839	8.956 2109	846	1.043 7891	9.998 2323	7	834	
		838		845			7		
167	8.954 5270		8.956 2954		1.043 7046	9.998 2316		833	
168	8.954 6108	838	8.956 3799	845	1.043 6201	9.998 2309	7	832	
169	8.954 6946	838	8.956 4644	845	1.043 5356	9.998 2302	7	831	
		838		844			6		
.170	8.954 7784		8.956 5488		1.043 4512	9.998 2296		.830	
		838		845			7		
171	8.954 8622		8.956 6333		1.043 3667	9.998 2289		829	
172	8.954 9459	837	8.956 7177	844	1.043 2823	9.998 2282	7	828	
173	8.955 0297	838	8.956 8022	845	1.043 1978	9.998 2275	7	827	
		837		844			7		
174	8.955 1134		8.956 8866		1.043 1134	9.998 2268		826	
175	8.955 1971	837	8.956 9709	843	1.043 0291	9.998 2261	7	825	
176	8.955 2808	837	8.957 0553	844	1.042 9447	9.998 2254	7	824	
		836		844			6		
177	8.955 3644		8.957 1397		1.042 8603	9.998 2248		823	
178	8.955 4481	837	8.957 2240	843	1.042 7760	9.998 2241	7	822	
179	8.955 5317	836	8.957 3083	843	1.042 6917	9.998 2234	7	821	
		836		843			7		
.180	8.955 6153		8.957 3926		1.042 6074	9.998 2227		.820	
		836		843			7		
181	8.955 6989		8.957 4769		1.042 5231	9.998 2220		819	
182	8.955 7825	836	8.957 5612	843	1.042 4388	9.998 2213	7	818	
183	8.955 8661	836	8.957 6455	843	1.042 3545	9.998 2206	7	817	
		836		842			7		
184	8.955 9497		8.957 7297		1.042 2703	9.998 2199		816	
185	8.956 0332	835	8.957 8139	842	1.042 1861	9.998 2193	6	815	
186	8.956 1167	835	8.957 8981	842	1.042 1019	9.998 2186	7	814	
		835		842			7		
187	8.956 2002		8.957 9823		1.042 0177	9.998 2179		813	
188	8.956 2837	835	8.958 0665	842	1.041 9335	9.998 2172	7	812	
189	8.956 3672	835	8.958 1507	842	1.041 8493	9.998 2165	7	811	
		835		841			7		
.190	8.956 4507		8.958 2348		1.041 7652	9.998 2158		.810	
		834		842			7		
191	8.956 5341		8.958 3190		1.041 6810	9.998 2151		809	
192	8.956 6175	834	8.958 4031	841	1.041 5969	9.998 2144	7	808	
193	8.956 7009	834	8.958 4872	841	1.041 5128	9.998 2138	6	807	
		834		841			7		
194	8.956 7843		8.958 5713		1.041 4287	9.998 2131		806	
195	8.956 8677	834	8.958 6553	840	1.041 3447	9.998 2124	7	805	
196	8.956 9511	834	8.958 7394	841	1.041 2606	9.998 2117	7	804	
		833		840			7		
197	8.957 0344		8.958 8234		1.041 1766	9.998 2110		803	
198	8.957 1177	833	8.958 9074	840	1.041 0926	9.998 2103	7	802	
199	8.957 2010	833	8.958 9914	840	1.041 0086	9.998 2096	7	801	
		833		840			7		
.200	8.957 2843		8.959 0754		1.040 9246	9.998 2089		.800	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	848	847	846
1	84.8	84.7	84.6
2	169.6	169.4	169.2
3	254.4	254.1	253.8
4	339.2	338.8	338.4
5	424.0	423.5	423.0
6	508.8	508.2	507.6
7	593.6	592.9	592.2
8	678.4	677.6	676.8
9	763.2	762.3	761.4

	845	844	843
1	84.5	84.4	84.3
2	169.0	168.8	168.6
3	253.5	253.2	252.9
4	338.0	337.6	337.2
5	422.5	422.0	421.5
6	507.0	506.4	505.8
7	591.5	590.8	590.1
8	676.0	675.2	674.4
9	760.5	759.6	758.7

	842	841	840
1	84.2	84.1	84.0
2	168.4	168.2	168.0
3	252.6	252.3	252.0
4	336.8	336.4	336.0
5	421.0	420.5	420.0
6	505.2	504.6	504.0
7	589.4	588.7	588.0
8	673.6	672.8	672.0
9	757.8	756.9	756.0

	839	838	837
1	83.9	83.8	83.7
2	167.8	167.6	167.4
3	251.7	251.4	251.1
4	335.6	335.2	334.8
5	419.5	419.0	418.5
6	503.4	502.8	502.2
7	587.3	586.6	585.9
8	671.2	670.4	669.6
9	755.1	754.2	753.3

	836	835	834
1	83.6	83.5	83.4
2	167.2	167.0	166.8
3	250.8	250.5	250.2
4	334.4	334.0	333.6
5	418.0	417.5	417.0
6	501.6	501.0	500.4
7	585.2	584.5	583.8
8	668.8	668.0	667.2
9	752.4	751.5	750.6

	833
1	83.3
2	166.6
3	249.9
4	333.2
5	416.5
6	499.8
7	583.1
8	666.4
9	749.7

84°.850 — 84°.800

5°.200 — 5°.250

5°	sin	d	tang	d	cotg	cos	d		P.P.
.200	8.957 2843		8.959 0754		1.040 9246	9.998 2089		.800	
		833		840			7		
201	8.957 3676		8.959 1594		1.040 8406	9.998 2082		799	
202	8.957 4509	833	8.959 2433	839	1.040 7567	9.998 2075	7	798	
203	8.957 5341	832	8.959 3273	840	1.040 6727	9.998 2069	6	797	
		833		839			7		
204	8.957 6174		8.959 4112		1.040 5888	9.998 2062		796	
205	8.957 7006	832	8.959 4951	839	1.040 5049	9.998 2055	7	795	
206	8.957 7838	832	8.959 5790	839	1.040 4210	9.998 2048	7	794	
		832		839			7		
207	8.957 8670		8.959 6629		1.040 3371	9.998 2041		793	
208	8.957 9501	831	8.959 7467	838	1.040 2533	9.998 2034	7	792	
209	8.958 0333	832	8.959 8306	839	1.040 1694	9.998 2027	7	791	
		831		838			7		
.210	8.958 1164		8.959 9144		1.040 0856	9.998 2020		.790	
		831		838			7		
211	8.958 1995		8.959 9982		1.040 0018	9.998 2013		789	
212	8.958 2827	832	8.960 0820	838	1.039 9180	9.998 2006	7	788	
213	8.958 3657	830	8.960 1658	838	1.039 8342	9.998 1999	7	787	
		831		838			6		
214	8.958 4488		8.960 2496		1.039 7504	9.998 1993		786	
215	8.958 5319	831	8.960 3333	837	1.039 6667	9.998 1986	7	785	
216	8.958 6149	830	8.960 4170	837	1.039 5830	9.998 1979	7	784	
		830		837			7		
217	8.958 6979		8.960 5007		1.039 4993	9.998 1972		783	
218	8.958 7809	830	8.960 5844	837	1.039 4156	9.998 1965	7	782	
219	8.958 8639	830	8.960 6681	837	1.039 3319	9.998 1958	7	781	
		830		837			7		
.220	8.958 9469		8.960 7518		1.039 2482	9.998 1951		.780	
		830		837			7		
221	8.959 0299		8.960 8355		1.039 1645	9.998 1944		779	
222	8.959 1128	829	8.960 9191	836	1.039 0809	9.998 1937	7	778	
223	8.959 1957	829	8.961 0027	836	1.038 9973	9.998 1930	7	777	
		829		836			7		
224	8.959 2786		8.961 0863		1.038 9137	9.998 1923		776	
225	8.959 3615	829	8.961 1699	836	1.038 8301	9.998 1916	7	775	
226	8.959 4444	829	8.961 2535	836	1.038 7465	9.998 1909	7	774	
		829		835			6		
227	8.959 5273		8.961 3370		1.038 6630	9.998 1903		773	
228	8.959 6101	828	8.961 4206	836	1.038 5794	9.998 1896	7	772	
229	8.959 6930	829	8.961 5041	835	1.038 4959	9.998 1889	7	771	
		828		835			7		
.230	8.959 7758		8.961 5876		1.038 4124	9.998 1882		.770	
		828		835			7		
231	8.959 8586		8.961 6711		1.038 3289	9.998 1875		769	
232	8.959 9414	828	8.961 7546	835	1.038 2454	9.998 1868	7	768	
233	8.960 0241	827	8.961 8380	834	1.038 1620	9.998 1861	7	767	
		828		835			7		
234	8.960 1069		8.961 9215		1.038 0785	9.998 1854		766	
235	8.960 1896	827	8.962 0049	834	1.037 9951	9.998 1847	7	765	
236	8.960 2723	827	8.962 0883	834	1.037 9117	9.998 1840	7	764	
		828		834			7		
237	8.960 3551		8.962 1717		1.037 8283	9.998 1833		763	
238	8.960 4377	826	8.962 2551	834	1.037 7449	9.998 1826	7	762	
239	8.960 5204	827	8.962 3385	834	1.037 6615	9.998 1819	7	761	
		827		833			7		
.240	8.960 6031		8.962 4218		1.037 5782	9.998 1812		.760	
		826		834			7		
241	8.960 6857		8.962 5052		1.037 4948	9.998 1805		759	
242	8.960 7683	826	8.962 5885	833	1.037 4115	9.998 1798	7	758	
243	8.960 8510	827	8.962 6718	833	1.037 3282	9.998 1791	7	757	
		825		833			7		
244	8.960 9335		8.962 7551		1.037 2449	9.998 1784		756	
245	8.961 0161	826	8.962 8384	833	1.037 1616	9.998 1778	6	755	
246	8.961 0987	826	8.962 9216	832	1.037 0784	9.998 1771	7	754	
		825		833			7		
247	8.961 1812		8.963 0049		1.036 9951	9.998 1764		753	
248	8.961 2638	826	8.963 0881	832	1.036 9119	9.998 1757	7	752	
249	8.961 3463	825	8.963 1713	832	1.036 8287	9.998 1750	7	751	
		825		832			7		
.250	8.961 4288		8.963 2545		1.036 7455	9.998 1743		.750	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

P.P.

	840	839	838
1	84.0	83.9	83.8
2	168.0	167.8	167.6
3	252.0	251.7	251.4
4	336.0	335.6	335.2
5	420.0	419.5	419.0
6	504.0	503.4	502.8
7	588.0	587.3	586.6
8	672.0	671.2	670.4
9	756.0	755.1	754.2

	837	836	835
1	83.7	83.6	83.5
2	167.4	167.2	167.0
3	251.1	250.8	250.5
4	334.8	334.4	334.0
5	418.5	418.0	417.5
6	502.2	501.6	501.0
7	585.9	585.2	584.5
8	669.6	668.8	668.0
9	753.3	752.4	751.5

	834	833	832
1	83.4	83.3	83.2
2	166.8	166.6	166.4
3	250.2	249.9	249.6
4	333.6	333.2	332.8
5	417.0	416.5	416.0
6	500.4	499.8	499.2
7	583.8	583.1	582.4
8	667.2	666.4	665.6
9	750.6	749.7	748.8

	831	830	829
1	83.1	83.0	82.9
2	166.2	166.0	165.8
3	249.3	249.0	248.7
4	332.4	332.0	331.6
5	415.5	415.0	414.5
6	498.6	498.0	497.4
7	581.7	581.0	580.3
8	664.8	664.0	663.2
9	747.9	747.0	746.1

	828	827	826
1	82.8	82.7	82.6
2	165.6	165.4	165.2
3	248.4	248.1	247.8
4	331.2	330.8	330.4
5	414.0	413.5	413.0
6	496.8	496.2	495.6
7	579.6	578.9	578.2
8	662.4	661.6	660.8
9	745.2	744.3	743.4

	825
1	82.5
2	165.0
3	247.5
4	330.0
5	412.5
6	495.0
7	577.5
8	660.0
9	742.5

84°.800 — 84°.750

5°.250 — 5°.300

5°	sin	d	tang	d	cotg	cos	d		P.P.
.250	8.961 4288	825	8.963 2545	832	1.036 7455	9.998 1743	7	.750	
251	8.961 5113	824	8.963 3377	831	1.036 6623	9.998 1736	7	749	
252	8.961 5937	825	8.963 4208	832	1.036 5792	9.998 1729	7	748	
253	8.961 6762	824	8.963 5040	831	1.036 4960	9.998 1722	7	747	
254	8.961 7586	824	8.963 5871	831	1.036 4129	9.998 1715	7	746	
255	8.961 8410	824	8.963 6702	831	1.036 3298	9.998 1708	7	745	
256	8.961 9234	824	8.963 7533	831	1.036 2467	9.998 1701	7	744	
257	8.962 0058	824	8.963 8364	831	1.036 1636	9.998 1694	7	743	
258	8.962 0882	824	8.963 9195	831	1.036 0805	9.998 1687	7	742	
259	8.962 1706	823	8.964 0026	830	1.035 9974	9.998 1680	7	741	
.260	8.962 2529	823	8.964 0856	830	1.035 9144	9.998 1673	7	.740	
261	8.962 3352	823	8.964 1686	830	1.035 8314	9.998 1666	7	739	
262	8.962 4175	823	8.964 2516	830	1.035 7484	9.998 1659	7	738	
263	8.962 4998	823	8.964 3346	830	1.035 6654	9.998 1652	7	737	
264	8.962 5821	823	8.964 4176	830	1.035 5824	9.998 1645	7	736	
265	8.962 6644	822	8.964 5006	829	1.035 4994	9.998 1638	7	735	
266	8.962 7466	822	8.964 5835	829	1.035 4165	9.998 1631	7	734	
267	8.962 8288	823	8.964 6664	830	1.035 3336	9.998 1624	7	733	
268	8.962 9111	822	8.964 7494	828	1.035 2506	9.998 1617	7	732	
269	8.962 9933	821	8.964 8322	829	1.035 1678	9.998 1610	7	731	
.270	8.963 0754	822	8.964 9151	829	1.035 0849	9.998 1603	7	.730	
271	8.963 1576	822	8.964 9980	829	1.035 0020	9.998 1596	7	729	
272	8.963 2398	821	8.965 0809	828	1.034 9191	9.998 1589	7	728	
273	8.963 3219	821	8.965 1637	828	1.034 8363	9.998 1582	7	727	
274	8.963 4040	821	8.965 2465	828	1.034 7535	9.998 1575	7	726	
275	8.963 4861	821	8.965 3293	828	1.034 6707	9.998 1568	7	725	
276	8.963 5682	821	8.965 4121	828	1.034 5879	9.998 1561	7	724	
277	8.963 6503	821	8.965 4949	827	1.034 5051	9.998 1554	7	723	
278	8.963 7324	820	8.965 5776	828	1.034 4224	9.998 1547	7	722	
279	8.963 8144	820	8.965 6604	827	1.034 3396	9.998 1540	7	721	
.280	8.963 8964	820	8.965 7431	827	1.034 2569	9.998 1533	7	.720	
281	8.963 9784	820	8.965 8258	827	1.034 1742	9.998 1526	7	719	
282	8.964 0604	820	8.965 9085	827	1.034 0915	9.998 1519	7	718	
283	8.964 1424	820	8.965 9912	827	1.034 0088	9.998 1512	7	717	
284	8.964 2244	819	8.966 0739	826	1.033 9261	9.998 1505	7	716	
285	8.964 3063	820	8.966 1565	827	1.033 8435	9.998 1498	7	715	
286	8.964 3883	819	8.966 2392	826	1.033 7608	9.998 1491	7	714	
287	8.964 4702	819	8.966 3218	826	1.033 6782	9.998 1484	7	713	
288	8.964 5521	819	8.966 4044	826	1.033 5956	9.998 1477	7	712	
289	8.964 6340	818	8.966 4870	825	1.033 5130	9.998 1470	7	711	
.290	8.964 7158	819	8.966 5695	826	1.033 4305	9.998 1463	7	.710	
291	8.964 7977	818	8.966 6521	825	1.033 3479	9.998 1456	7	709	
292	8.964 8795	819	8.966 7346	826	1.033 2654	9.998 1449	7	708	
293	8.964 9614	818	8.966 8172	825	1.033 1828	9.998 1442	7	707	
294	8.965 0432	818	8.966 8997	825	1.033 1003	9.998 1435	7	706	
295	8.965 1250	817	8.966 9822	825	1.033 0178	9.998 1428	7	705	
296	8.965 2067	818	8.967 0647	824	1.032 9353	9.998 1421	7	704	
297	8.965 2885	818	8.967 1471	825	1.032 8529	9.998 1414	7	703	
298	8.965 3703	817	8.967 2296	824	1.032 7704	9.998 1407	7	702	
299	8.965 4520	817	8.967 3120	824	1.032 6880	9.998 1400	7	701	
.300	8.965 5337		8.967 3944		1.032 6056	9.998 1393		.700	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	832	831	830
1	83.2	83.1	83.0
2	166.4	166.2	166.0
3	249.6	249.3	249.0
4	332.8	332.4	332.0
5	416.0	415.5	415.0
6	499.2	498.6	498.0
7	582.4	581.7	581.0
8	665.6	664.8	664.0
9	748.8	747.9	747.0

	829	828	827
1	82.9	82.8	82.7
2	165.8	165.6	165.4
3	248.7	248.4	248.1
4	331.6	331.2	330.8
5	414.5	414.0	413.5
6	497.4	496.8	496.2
7	580.3	579.6	578.9
8	663.2	662.4	661.6
9	746.1	745.2	744.3

	826	825	824
1	82.6	82.5	82.4
2	165.2	165.0	164.8
3	247.8	247.5	247.2
4	330.4	330.0	329.6
5	413.0	412.5	412.0
6	495.6	495.0	494.4
7	578.2	577.5	576.8
8	660.8	660.0	659.2
9	743.4	742.5	741.6

	823	822	821
1	82.3	82.2	82.1
2	164.6	164.4	164.2
3	246.9	246.6	246.3
4	329.2	328.8	328.4
5	411.5	411.0	410.5
6	493.8	493.2	492.6
7	576.1	575.4	574.7
8	658.4	657.6	656.8
9	740.7	739.8	738.9

	820	819	818
1	82.0	81.9	81.8
2	164.0	163.8	163.6
3	246.0	245.7	245.4
4	328.0	327.6	327.2
5	410.0	409.5	409.0
6	492.0	491.4	490.8
7	574.0	573.3	572.6
8	656.0	655.2	654.4
9	738.0	737.1	736.2

	817
1	81.7
2	163.4
3	245.1
4	326.8
5	408.5
6	490.2
7	571.9
8	653.6
9	735.3

84°.750 — 84°.700

5°.300 — 5°.350

5°	sin	d	tang	d	cotg	cos	d		P.P.
.300	8.965 5337	817	8.967 3944	824	1.032 6056	9.998 1393	7	.700	
301	8.965 6154	817	8.967 4768	824	1.032 5232	9.998 1386	7	699	
302	8.965 6971	817	8.967 5592	824	1.032 4408	9.998 1379	7	698	
303	8.965 7788	816	8.967 6416	823	1.032 3584	9.998 1372	7	697	
304	8.965 8604	817	8.967 7239	824	1.032 2761	9.998 1365	7	696	
305	8.965 9421	816	8.967 8063	823	1.032 1937	9.998 1358	7	695	
306	8.966 0237	816	8.967 8886	823	1.032 1114	9.998 1351	7	694	
307	8.966 1053	816	8.967 9709	823	1.032 0291	9.998 1344	7	693	
308	8.966 1869	816	8.968 0532	823	1.031 9468	9.998 1337	7	692	
309	8.966 2685	815	8.968 1355	823	1.031 8645	9.998 1329	8	691	
.310	8.966 3500	816	8.968 2178	822	1.031 7822	9.998 1322	7	.690	
311	8.966 4316	815	8.968 3000	823	1.031 7000	9.998 1315	7	689	
312	8.966 5131	815	8.968 3823	822	1.031 6177	9.998 1308	7	688	
313	8.966 5946	815	8.968 4645	822	1.031 5355	9.998 1301	7	687	
314	8.966 6761	815	8.968 5467	822	1.031 4533	9.998 1294	7	686	
315	8.966 7576	815	8.968 6289	821	1.031 3711	9.998 1287	7	685	
316	8.966 8391	814	8.968 7110	822	1.031 2890	9.998 1280	7	684	
317	8.966 9205	815	8.968 7932	822	1.031 2068	9.998 1273	7	683	
318	8.967 0020	814	8.968 8754	821	1.031 1246	9.998 1266	7	682	
319	8.967 0834	814	8.968 9575	821	1.031 0425	9.998 1259	7	681	
.320	8.967 1648	814	8.969 0396	821	1.030 9604	9.998 1252	7	.680	
321	8.967 2462	814	8.969 1217	821	1.030 8783	9.998 1245	7	679	
322	8.967 3276	813	8.969 2038	820	1.030 7962	9.998 1238	7	678	
323	8.967 4089	814	8.969 2858	821	1.030 7142	9.998 1231	7	677	
324	8.967 4903	813	8.969 3679	820	1.030 6321	9.998 1224	7	676	
325	8.967 5716	813	8.969 4499	821	1.030 5501	9.998 1217	7	675	
326	8.967 6529	813	8.969 5320	820	1.030 4680	9.998 1210	7	674	
327	8.967 7342	813	8.969 6140	819	1.030 3860	9.998 1202	8	673	
328	8.967 8155	813	8.969 6959	820	1.030 3041	9.998 1195	7	672	
329	8.967 8968	812	8.969 7779	820	1.030 2221	9.998 1188	7	671	
.330	8.967 9780	812	8.969 8599	819	1.030 1401	9.998 1181	7	.670	
331	8.968 0592	813	8.969 9418	820	1.030 0582	9.998 1174	7	669	
332	8.968 1405	812	8.970 0238	819	1.029 9762	9.998 1167	7	668	
333	8.968 2217	812	8.970 1057	819	1.029 8943	9.998 1160	7	667	
334	8.968 3029	811	8.970 1876	819	1.029 8124	9.998 1153	7	666	
335	8.968 3840	812	8.970 2695	818	1.029 7305	9.998 1146	7	665	
336	8.968 4652	812	8.970 3513	819	1.029 6487	9.998 1139	7	664	
337	8.968 5464	811	8.970 4332	818	1.029 5668	9.998 1132	7	663	
338	8.968 6275	811	8.970 5150	818	1.029 4850	9.998 1125	7	662	
339	8.968 7086	811	8.970 5968	819	1.029 4032	9.998 1118	8	661	
.340	8.968 7897	811	8.970 6787	818	1.029 3213	9.998 1110	7	.660	
341	8.968 8708	811	8.970 7605	817	1.029 2395	9.998 1103	7	659	
342	8.968 9519	810	8.970 8422	818	1.029 1578	9.998 1096	7	658	
343	8.969 0329	811	8.970 9240	817	1.029 0760	9.998 1089	7	657	
344	8.969 1140	810	8.971 0057	818	1.028 9943	9.998 1082	7	656	
345	8.969 1950	810	8.971 0875	817	1.028 9125	9.998 1075	7	655	
346	8.969 2760	810	8.971 1692	817	1.028 8308	9.998 1068	7	654	
347	8.969 3570	810	8.971 2509	817	1.028 7491	9.998 1061	7	653	
348	8.969 4380	809	8.971 3326	817	1.028 6674	9.998 1054	7	652	
349	8.969 5189	810	8.971 4143	816	1.028 5857	9.998 1047	7	651	
.350	8.969 5999		8.971 4959		1.028 5041	9.998 1040		.650	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	824	823	822
1	82.4	82.3	82.2
2	164.8	164.6	164.4
3	247.2	246.9	246.6
4	329.6	329.2	328.8
5	412.0	411.5	411.0
6	494.4	493.8	493.2
7	576.8	576.1	575.4
8	659.2	658.4	657.6
9	741.6	740.7	739.8

	821	820	819
1	82.1	82.0	81.9
2	164.2	164.0	163.8
3	246.3	246.0	245.7
4	328.4	328.0	327.6
5	410.5	410.0	409.5
6	492.6	492.0	491.4
7	574.7	574.0	573.3
8	656.8	656.0	655.2
9	738.9	738.0	737.1

	818	817	816
1	81.8	81.7	81.6
2	163.6	163.4	163.2
3	245.4	245.1	244.8
4	327.2	326.8	326.4
5	409.0	408.5	408.0
6	490.8	490.2	489.6
7	572.6	571.9	571.2
8	654.4	653.6	652.8
9	736.2	735.3	734.4

	815	814	813
1	81.5	81.4	81.3
2	163.0	162.8	162.6
3	244.5	244.2	243.9
4	326.0	325.6	325.2
5	407.5	407.0	406.5
6	489.0	488.4	487.8
7	570.5	569.8	569.1
8	652.0	651.2	650.4
9	733.5	732.6	731.7

	812	811	810
1	81.2	81.1	81.0
2	162.4	162.2	162.0
3	243.6	243.3	243.0
4	324.8	324.4	324.0
5	406.0	405.5	405.0
6	487.2	486.6	486.0
7	568.4	567.7	567.0
8	649.6	648.8	648.0
9	730.8	729.9	729.0

	809
1	80.9
2	161.8
3	242.7
4	323.6
5	404.5
6	485.4
7	566.3
8	647.2
9	728.1

84°.700 — 84°.650

5°.350 — 5°.400

5°	sin	d	tang	d	cotg	cos	d		P.P.
.350	8.969 5999	809	8.971 4959	817	1.028 5041	9.998 1040	8	.650	
351	8.969 6808	809	8.971 5776	816	1.028 4224	9.998 1032	7	649	
352	8.969 7617	809	8.971 6592	816	1.028 3408	9.998 1025	7	648	
353	8.969 8426	809	8.971 7408	816	1.028 2592	9.998 1018	7	647	
354	8.969 9235	809	8.971 8224	816	1.028 1776	9.998 1011	7	646	
355	8.970 0044	808	8.971 9040	815	1.028 0960	9.998 1004	7	645	
356	8.970 0852	809	8.971 9855	816	1.028 0145	9.998 0997	7	644	
357	8.970 1661	808	8.972 0671	815	1.027 9329	9.998 0990	7	643	
358	8.970 2469	808	8.972 1486	816	1.027 8514	9.998 0983	7	642	
359	8.970 3277	808	8.972 2302	815	1.027 7698	9.998 0976	8	641	
.360	8.970 4085	808	8.972 3117	815	1.027 6883	9.998 0968	7	.640	
361	8.970 4893	808	8.972 3932	814	1.027 6068	9.998 0961	7	639	
362	8.970 5701	807	8.972 4746	815	1.027 5254	9.998 0954	7	638	
363	8.970 6508	807	8.972 5561	814	1.027 4439	9.998 0947	7	637	
364	8.970 7315	808	8.972 6375	815	1.027 3625	9.998 0940	7	636	
365	8.970 8123	807	8.972 7190	814	1.027 2810	9.998 0933	7	635	
366	8.970 8930	807	8.972 8004	814	1.027 1996	9.998 0926	7	634	
367	8.970 9737	806	8.972 8818	814	1.027 1182	9.998 0919	7	633	
368	8.971 0543	807	8.972 9632	814	1.027 0368	9.998 0912	7	632	
369	8.971 1350	806	8.973 0446	813	1.026 9554	9.998 0904	8	631	
.370	8.971 2156	807	8.973 1259	814	1.026 8741	9.998 0897	7	.630	
371	8.971 2963	806	8.973 2073	813	1.026 7927	9.998 0890	7	629	
372	8.971 3769	806	8.973 2886	813	1.026 7114	9.998 0883	7	628	
373	8.971 4575	806	8.973 3699	813	1.026 6301	9.998 0876	7	627	
374	8.971 5381	805	8.973 4512	813	1.026 5488	9.998 0869	7	626	
375	8.971 6186	806	8.973 5325	812	1.026 4675	9.998 0862	7	625	
376	8.971 6992	805	8.973 6137	813	1.026 3863	9.998 0855	8	624	
377	8.971 7797	806	8.973 6950	812	1.026 3050	9.998 0847	7	623	
378	8.971 8603	805	8.973 7762	813	1.026 2238	9.998 0840	7	622	
379	8.971 9408	805	8.973 8575	812	1.026 1425	9.998 0833	7	621	
.380	8.972 0213	804	8.973 9387	812	1.026 0613	9.998 0826	7	.620	
381	8.972 1017	805	8.974 0199	811	1.025 9801	9.998 0819	7	619	
382	8.972 1822	805	8.974 1010	812	1.025 8990	9.998 0812	7	618	
383	8.972 2627	804	8.974 1822	811	1.025 8178	9.998 0805	8	617	
384	8.972 3431	804	8.974 2633	812	1.025 7367	9.998 0797	7	616	
385	8.972 4235	804	8.974 3445	811	1.025 6555	9.998 0790	7	615	
386	8.972 5039	804	8.974 4256	811	1.025 5744	9.998 0783	7	614	
387	8.972 5843	804	8.974 5067	811	1.025 4933	9.998 0776	7	613	
388	8.972 6647	803	8.974 5878	811	1.025 4122	9.998 0769	7	612	
389	8.972 7450	804	8.974 6689	810	1.025 3311	9.998 0762	7	611	
.390	8.972 8254	803	8.974 7499	811	1.025 2501	9.998 0755	8	.610	
391	8.972 9057	803	8.974 8310	810	1.025 1690	9.998 0747	7	609	
392	8.972 9860	803	8.974 9120	810	1.025 0880	9.998 0740	7	608	
393	8.973 0663	803	8.974 9930	810	1.025 0070	9.998 0733	7	607	
394	8.973 1466	803	8.975 0740	810	1.024 9260	9.998 0726	7	606	
395	8.973 2269	802	8.975 1550	810	1.024 8450	9.998 0719	7	605	
396	8.973 3071	803	8.975 2360	809	1.024 7640	9.998 0712	8	604	
397	8.973 3874	802	8.975 3169	810	1.024 6831	9.998 0704	7	603	
398	8.973 4676	802	8.975 3979	809	1.024 6021	9.998 0697	7	602	
399	8.973 5478	802	8.975 4788	809	1.024 5212	9.998 0690	7	601	
.400	8.973 6280		8.975 5597		1.024 4403	9.998 0683		.600	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	817	816	815
1	81.7	81.6	81.5
2	163.4	163.2	163.0
3	245.1	244.8	244.5
4	326.8	326.4	326.0
5	408.5	408.0	407.5
6	490.2	489.6	489.0
7	571.9	571.2	570.5
8	653.6	652.8	652.0
9	735.3	734.4	733.5

	814	813	812
1	81.4	81.3	81.2
2	162.8	162.6	162.4
3	244.2	243.9	243.6
4	325.6	325.2	324.8
5	407.0	406.5	406.0
6	488.4	487.8	487.2
7	569.8	569.1	568.4
8	651.2	650.4	649.6
9	732.6	731.7	730.8

	811	810	809
1	81.1	81.0	80.9
2	162.2	162.0	161.8
3	243.3	243.0	242.7
4	324.4	324.0	323.6
5	405.5	405.0	404.5
6	486.6	486.0	485.4
7	567.7	567.0	566.3
8	648.8	648.0	647.2
9	729.9	729.0	728.1

	808	807	806
1	80.8	80.7	80.6
2	161.6	161.4	161.2
3	242.4	242.1	241.8
4	323.2	322.8	322.4
5	404.0	403.5	403.0
6	484.8	484.2	483.6
7	565.6	564.9	564.2
8	646.4	645.6	644.8
9	727.2	726.3	725.4

	805	804	803
1	80.5	80.4	80.3
2	161.0	160.8	160.6
3	241.5	241.2	240.9
4	322.0	321.6	321.2
5	402.5	402.0	401.5
6	483.0	482.4	481.8
7	563.5	562.8	562.1
8	644.0	643.2	642.4
9	724.5	723.6	722.7

	802
1	80.2
2	160.4
3	240.6
4	320.8
5	401.0
6	481.2
7	561.4
8	641.6
9	721.8

84°.650 — 84°.600

5°.400 — 5°.450

5°	sin	d	tang	d	cotg	cos	d		P.P.
.400	8.973 6280	802	8.975 5597	809	1.024 4403	9.998 0683	7	.600	
401	8.973 7082	801	8.975 6406	809	1.024 3594	9.998 0676	7	599	
402	8.973 7883	802	8.975 7215	808	1.024 2785	9.998 0669	8	598	
403	8.973 8685	801	8.975 8023	809	1.024 1977	9.998 0661	7	597	
404	8.973 9486	801	8.975 8832	808	1.024 1168	9.998 0654	7	596	
405	8.974 0287	801	8.975 9640	808	1.024 0360	9.998 0647	7	595	
406	8.974 1088	801	8.976 0448	809	1.023 9552	9.998 0640	7	594	
407	8.974 1889	801	8.976 1257	807	1.023 8743	9.998 0633	7	593	
408	8.974 2690	801	8.976 2064	808	1.023 7936	9.998 0626	8	592	
409	8.974 3491	800	8.976 2872	808	1.023 7128	9.998 0618	7	591	
.410	8.974 4291	800	8.976 3680	807	1.023 6320	9.998 0611	7	.590	
411	8.974 5091	801	8.976 4487	808	1.023 5513	9.998 0604	7	589	
412	8.974 5892	800	8.976 5295	807	1.023 4705	9.998 0597	7	588	
413	8.974 6692	799	8.976 6102	807	1.023 3898	9.998 0590	7	587	
414	8.974 7491	800	8.976 6909	807	1.023 3091	9.998 0583	8	586	
415	8.974 8291	800	8.976 7716	807	1.023 2284	9.998 0575	7	585	
416	8.974 9091	799	8.976 8523	806	1.023 1477	9.998 0568	7	584	
417	8.974 9890	799	8.976 9329	807	1.023 0671	9.998 0561	7	583	
418	8.975 0689	799	8.977 0136	806	1.022 9864	9.998 0554	7	582	
419	8.975 1488	799	8.977 0942	806	1.022 9058	9.998 0547	7	581	
.420	8.975 2287	799	8.977 1748	806	1.022 8252	9.998 0539	8	.580	
421	8.975 3086	799	8.977 2554	806	1.022 7446	9.998 0532	7	579	
422	8.975 3885	798	8.977 3360	806	1.022 6640	9.998 0525	7	578	
423	8.975 4683	799	8.977 4166	805	1.022 5834	9.998 0518	7	577	
424	8.975 5482	798	8.977 4971	806	1.022 5029	9.998 0511	8	576	
425	8.975 6280	798	8.977 5777	805	1.022 4223	9.998 0503	7	575	
426	8.975 7078	798	8.977 6582	805	1.022 3418	9.998 0496	7	574	
427	8.975 7876	798	8.977 7387	805	1.022 2613	9.998 0489	7	573	
428	8.975 8674	798	8.977 8192	805	1.022 1808	9.998 0482	7	572	
429	8.975 9471	797	8.977 8997	805	1.022 1003	9.998 0475	7	571	
.430	8.976 0269	798	8.977 9802	804	1.022 0198	9.998 0467	8	.570	
431	8.976 1066	797	8.978 0606	804	1.021 9394	9.998 0460	7	569	
432	8.976 1863	797	8.978 1410	805	1.021 8590	9.998 0453	7	568	
433	8.976 2660	797	8.978 2215	804	1.021 7785	9.998 0446	7	567	
434	8.976 3457	797	8.978 3019	804	1.021 6981	9.998 0439	8	566	
435	8.976 4254	797	8.978 3823	804	1.021 6177	9.998 0431	7	565	
436	8.976 5051	796	8.978 4627	803	1.021 5373	9.998 0424	7	564	
437	8.976 5847	796	8.978 5430	804	1.021 4570	9.998 0417	7	563	
438	8.976 6643	797	8.978 6234	803	1.021 3766	9.998 0410	7	562	
439	8.976 7440	796	8.978 7037	803	1.021 2963	9.998 0403	8	561	
.440	8.976 8236	795	8.978 7840	803	1.021 2160	9.998 0395	7	.560	
441	8.976 9031	796	8.978 8643	803	1.021 1357	9.998 0388	7	559	
442	8.976 9827	796	8.978 9446	803	1.021 0554	9.998 0381	7	558	
443	8.977 0623	795	8.979 0249	803	1.020 9751	9.998 0374	8	557	
444	8.977 1418	795	8.979 1052	802	1.020 8948	9.998 0366	7	556	
445	8.977 2213	796	8.979 1854	803	1.020 8146	9.998 0359	7	555	
446	8.977 3009	795	8.979 2657	802	1.020 7343	9.998 0352	7	554	
447	8.977 3804	794	8.979 3459	802	1.020 6541	9.998 0345	8	553	
448	8.977 4598	795	8.979 4261	802	1.020 5739	9.998 0337	7	552	
449	8.977 5393	795	8.979 5063	802	1.020 4937	9.998 0330	7	551	
.450	8.977 6188		8.979 5865		1.020 4135	9.998 0323		.550	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	809	808	807
1	80.9	80.8	80.7
2	161.8	161.6	161.4
3	242.7	242.4	242.1
4	323.6	323.2	322.8
5	404.5	404.0	403.5
6	485.4	484.8	484.2
7	566.3	565.6	564.9
8	647.2	646.4	645.6
9	728.1	727.2	726.3

	806	805	804
1	80.6	80.5	80.4
2	161.2	161.0	160.8
3	241.8	241.5	241.2
4	322.4	322.0	321.6
5	403.0	402.5	402.0
6	483.6	483.0	482.4
7	564.2	563.5	562.8
8	644.8	644.0	643.2
9	725.4	724.5	723.6

	803	802	801
1	80.3	80.2	80.1
2	160.6	160.4	160.2
3	240.9	240.6	240.3
4	321.2	320.8	320.4
5	401.5	401.0	400.5
6	481.8	481.2	480.6
7	562.1	561.4	560.7
8	642.4	641.6	640.8
9	722.7	721.8	720.9

	800	799	798
1	80.0	79.9	79.8
2	160.0	159.8	159.6
3	240.0	239.7	239.4
4	320.0	319.6	319.2
5	400.0	399.5	399.0
6	480.0	479.4	478.8
7	560.0	559.3	558.6
8	640.0	639.2	638.4
9	720.0	719.1	718.2

	797	796	795
1	79.7	79.6	79.5
2	159.4	159.2	159.0
3	239.1	238.8	238.5
4	318.8	318.4	318.0
5	398.5	398.0	397.5
6	478.2	477.6	477.0
7	557.9	557.2	556.5
8	637.6	636.8	636.0
9	717.3	716.4	715.5

	794
1	79.4
2	158.8
3	238.2
4	317.6
5	397.0
6	476.4
7	555.8
8	635.2
9	714.6

84°.600 — 84°.550

5°.450 — 5°.500

5°	sin	d	tang	d	cotg	cos	d		P.P.
.450	8.977 6188		8.979 5865		1.020 4135	9.998 0323		.550	
		794		801			7		
451	8.977 6982		8.979 6666		1.020 3334	9.998 0316		549	
452	8.977 7776	794	8.979 7468	802	1.020 2532	9.998 0309	7	548	
453	8.977 8570	794	8.979 8269	801	1.020 1731	9.998 0301	8	547	
		794		801			7		
454	8.977 9364		8.979 9070		1.020 0930	9.998 0294		546	
455	8.978 0158	794	8.979 9871	801	1.020 0129	9.998 0287	7	545	
456	8.978 0952	794	8.980 0672	801	1.019 9328	9.998 0280	7	544	
		793		801			8		
457	8.978 1745		8.980 1473		1.019 8527	9.998 0272		543	
458	8.978 2539	794	8.980 2274	801	1.019 7726	9.998 0265	7	542	
459	8.978 3332	793	8.980 3074	800	1.019 6926	9.998 0258	7	541	
		793		800			7		
.460	8.978 4125		8.980 3874		1.019 6126	9.998 0251		.540	
		793		800			8		
461	8.978 4918		8.980 4674		1.019 5326	9.998 0243		539	
462	8.978 5711	793	8.980 5475	801	1.019 4525	9.998 0236	7	538	
463	8.978 6503	792	8.980 6274	799	1.019 3726	9.998 0229	7	537	
		793		800			7		
464	8.978 7296		8.980 7074		1.019 2926	9.998 0222		536	
465	8.978 8088	792	8.980 7874	800	1.019 2126	9.998 0214	8	535	
466	8.978 8880	792	8.980 8673	799	1.019 1327	9.998 0207	7	534	
		792		800			7		
467	8.978 9672		8.980 9473		1.019 0527	9.998 0200		533	
468	8.979 0464	792	8.981 0272	799	1.018 9728	9.998 0193	7	532	
469	8.979 1256	792	8.981 1071	799	1.018 8929	9.998 0185	8	531	
		792		799			7		
.470	8.979 2048		8.981 1870		1.018 8130	9.998 0178		.530	
		791		798			7		
471	8.979 2839		8.981 2668		1.018 7332	9.998 0171		529	
472	8.979 3630	791	8.981 3467	799	1.018 6533	9.998 0164	7	528	
473	8.979 4422	792	8.981 4265	798	1.018 5735	9.998 0156	8	527	
		791		799			7		
474	8.979 5213		8.981 5064		1.018 4936	9.998 0149		526	
475	8.979 6004	791	8.981 5862	798	1.018 4138	9.998 0142	7	525	
476	8.979 6794	790	8.981 6660	798	1.018 3340	9.998 0135	7	524	
		791		798			8		
477	8.979 7585		8.981 7458		1.018 2542	9.998 0127		523	
478	8.979 8375	790	8.981 8255	797	1.018 1745	9.998 0120	7	522	
479	8.979 9166	791	8.981 9053	798	1.018 0947	9.998 0113	7	521	
		790		797			8		
.480	8.979 9956		8.981 9850		1.018 0150	9.998 0105		.520	
		790		798			7		
481	8.980 0746		8.982 0648		1.017 9352	9.998 0098		519	
482	8.980 1536	790	8.982 1445	797	1.017 8555	9.998 0091	7	518	
483	8.980 2325	789	8.982 2242	797	1.017 7758	9.998 0084	7	517	
		790		797			8		
484	8.980 3115		8.982 3039		1.017 6961	9.998 0076		516	
485	8.980 3904	789	8.982 3835	796	1.017 6165	9.998 0069	7	515	
486	8.980 4694	790	8.982 4632	797	1.017 5368	9.998 0062	7	514	
		789		796			7		
487	8.980 5483		8.982 5428		1.017 4572	9.998 0055		513	
488	8.980 6272	789	8.982 6225	797	1.017 3775	9.998 0047	8	512	
489	8.980 7061	789	8.982 7021	796	1.017 2979	9.998 0040	7	511	
		789		796			7		
.490	8.980 7850		8.982 7817		1.017 2183	9.998 0033		.510	
		788		796			8		
491	8.980 8638		8.982 8613		1.017 1387	9.998 0025		509	
492	8.980 9427	789	8.982 9408	795	1.017 0592	9.998 0018	7	508	
493	8.981 0215	788	8.983 0204	796	1.016 9796	9.998 0011	7	507	
		788		795			7		
494	8.981 1003		8.983 0999		1.016 9001	9.998 0004		506	
495	8.981 1791	788	8.983 1795	796	1.016 8205	9.997 9996	8	505	
496	8.981 2579	788	8.983 2590	795	1.016 7410	9.997 9989	7	504	
		787		795			7		
497	8.981 3366		8.983 3385		1.016 6615	9.997 9982		503	
498	8.981 4154	788	8.983 4180	795	1.016 5820	9.997 9974	8	502	
499	8.981 4941	787	8.983 4974	794	1.016 5026	9.997 9967	7	501	
		788		795			7		
.500	8.981 5729		8.983 5769		1.016 4231	9.997 9960		.500	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	802	801	800
1	80.2	80.1	80.0
2	160.4	160.2	160.0
3	240.6	240.3	240.0
4	320.8	320.4	320.0
5	401.0	400.5	400.0
6	481.2	480.6	480.0
7	561.4	560.7	560.0
8	641.6	640.8	640.0
9	721.8	720.9	720.0

	799	798	797
1	79.9	79.8	79.7
2	159.8	159.6	159.4
3	239.7	239.4	239.1
4	319.6	319.2	318.8
5	399.5	399.0	398.5
6	479.4	478.8	478.2
7	559.3	558.6	557.9
8	639.2	638.4	637.6
9	719.1	718.2	717.3

	796	795	794
1	79.6	79.5	79.4
2	159.2	159.0	158.8
3	238.8	238.5	238.2
4	318.4	318.0	317.6
5	398.0	397.5	397.0
6	477.6	477.0	476.4
7	557.2	556.5	555.8
8	636.8	636.0	635.2
9	716.4	715.5	714.6

	793	792	791
1	79.3	79.2	79.1
2	158.6	158.4	158.2
3	237.9	237.6	237.3
4	317.2	316.8	316.4
5	396.5	396.0	395.5
6	475.8	475.2	474.6
7	555.1	554.4	553.7
8	634.4	633.6	632.8
9	713.7	712.8	711.9

	790	789	788
1	79.0	78.9	78.8
2	158.0	157.8	157.6
3	237.0	236.7	236.4
4	316.0	315.6	315.2
5	395.0	394.5	394.0
6	474.0	473.4	472.8
7	553.0	552.3	551.6
8	632.0	631.2	630.4
9	711.0	710.1	709.2

	787
1	78.7
2	157.4
3	236.1
4	314.8
5	393.5
6	472.2
7	550.9
8	629.6
9	708.3

84°.550 — 84°.500

$5^\circ.500 - 5^\circ.550$

5°	sin	d	tang	d	cotg	cos	d		P.P.
.500	8.981 5729		8.983 5769		1.016 4231	9.997 9960		**.500**	
		787		794			8		
501	8.981 6516		8.983 6563		1.016 3437	9.997 9952		499	
502	8.981 7303	787	8.983 7358	795	1.016 2642	9.997 9945	7	498	
503	8.981 8090	787	8.983 8152	794	1.016 1848	9.997 9938	7	497	
		786		794			7		
504	8.981 8876		8.983 8946		1.016 1054	9.997 9931		496	
505	8.981 9663	787	8.983 9740	794	1.016 0260	9.997 9923	8	495	
506	8.982 0449	786	8.984 0533	793	1.015 9467	9.997 9916	7	494	
		787		794			7		
507	8.982 1236		8.984 1327		1.015 8673	9.997 9909		493	
508	8.982 2022	786	8.984 2120	793	1.015 7880	9.997 9901	8	492	
509	8.982 2808	786	8.984 2914	794	1.015 7086	9.997 9894	7	491	
		786		793			7		
.510	8.982 3594		8.984 3707		1.015 6293	9.997 9887		**.490**	
		785		793			8		
511	8.982 4379		8.984 4500		1.015 5500	9.997 9879		489	
512	8.982 5165	786	8.984 5293	793	1.015 4707	9.997 9872	7	488	
513	8.982 5950	785	8.984 6085	792	1.015 3915	9.997 9865	7	487	
		785		793			8		
514	8.982 6735		8.984 6878		1.015 3122	9.997 9857		486	
515	8.982 7521	786	8.984 7670	792	1.015 2330	9.997 9850	7	485	
516	8.982 8306	785	8.984 8463	793	1.015 1537	9.997 9843	7	484	
		784		792			7		
517	8.982 9090		8.984 9255		1.015 0745	9.997 9836		483	
518	8.982 9875	785	8.985 0047	792	1.014 9953	9.997 9828	8	482	
519	8.983 0660	785	8.985 0839	792	1.014 9161	9.997 9821	7	481	
		784		791			7		
.520	8.983 1444		8.985 1630		1.014 8370	9.997 9814		**.480**	
		784		792			8		
521	8.983 2228		8.985 2422		1.014 7578	9.997 9806		479	
522	8.983 3012	784	8.985 3213	791	1.014 6787	9.997 9799	7	478	
523	8.983 3796	784	8.985 4005	792	1.014 5995	9.997 9792	7	477	
		784		791			8		
524	8.983 4580		8.985 4796		1.014 5204	9.997 9784		476	
525	8.983 5364	784	8.985 5587	791	1.014 4413	9.997 9777	7	475	
526	8.983 6147	783	8.985 6378	791	1.014 3622	9.997 9770	7	474	
		784		791			8		
527	8.983 6931		8.985 7169		1.014 2831	9.997 9762		473	
528	8.983 7714	783	8.985 7959	790	1.014 2041	9.997 9755	7	472	
529	8.983 8497	783	8.985 8750	791	1.014 1250	9.997 9748	7	471	
		783		790			8		
.530	8.983 9280		8.985 9540		1.014 0460	9.997 9740		**.470**	
		783		790			7		
531	8.984 0063		8.986 0330		1.013 9670	9.997 9733		469	
532	8.984 0846	783	8.986 1120	790	1.013 8880	9.997 9726	7	468	
533	8.984 1628	782	8.986 1910	790	1.013 8090	9.997 9718	8	467	
		783		790			7		
534	8.984 2411		8.986 2700		1.013 7300	9.997 9711		466	
535	8.984 3193	782	8.986 3489	789	1.013 6511	9.997 9704	7	465	
536	8.984 3975	782	8.986 4279	790	1.013 5721	9.997 9696	8	464	
		782		789			7		
537	8.984 4757		8.986 5068		1.013 4932	9.997 9689		463	
538	8.984 5539	782	8.986 5857	789	1.013 4143	9.997 9681	8	462	
539	8.984 6320	781	8.986 6646	789	1.013 3354	9.997 9674	7	461	
		782		789			7		
.540	8.984 7102		8.986 7435		1.013 2565	9.997 9667		**.460**	
		781		789			8		
541	8.984 7883		8.986 8224		1.013 1776	9.997 9659		459	
542	8.984 8665	782	8.986 9013	789	1.013 0987	9.997 9652	7	458	
543	8.984 9446	781	8.986 9801	788	1.013 0199	9.997 9645	7	457	
		781		788			8		
544	8.985 0227		8.987 0589		1.012 9411	9.997 9637		456	
545	8.985 1008	781	8.987 1378	789	1.012 8622	9.997 9630	7	455	
546	8.985 1788	780	8.987 2166	788	1.012 7834	9.997 9623	7	454	
		781		788			8		
547	8.985 2569		8.987 2954		1.012 7046	9.997 9615		453	
548	8.985 3349	780	8.987 3741	787	1.012 6259	9.997 9608	7	452	
549	8.985 4130	781	8.987 4529	788	1.012 5471	9.997 9601	7	451	
		780		788			8		
.550	8.985 4910		8.987 5317		1.012 4683	9.997 9593		**.450**	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	795	794	793
1	79.5	79.4	79.3
2	159.0	158.8	158.6
3	238.5	238.2	237.9
4	318.0	317.6	317.2
5	397.5	397.0	396.5
6	477.0	476.4	475.8
7	556.5	555.8	555.1
8	636.0	635.2	634.4
9	715.5	714.6	713.7

	792	791	790
1	79.2	79.1	79.0
2	158.4	158.2	158.0
3	237.6	237.3	237.0
4	316.8	316.4	316.0
5	396.0	395.5	395.0
6	475.2	474.6	474.0
7	554.4	553.7	553.0
8	633.6	632.8	632.0
9	712.8	711.9	711.0

	789	788	787
1	78.9	78.8	78.7
2	157.8	157.6	157.4
3	236.7	236.4	236.1
4	315.6	315.2	314.8
5	394.5	394.0	393.5
6	473.4	472.8	472.2
7	552.3	551.6	550.9
8	631.2	630.4	629.6
9	710.1	709.2	708.3

	786	785	784
1	78.6	78.5	78.4
2	157.2	157.0	156.8
3	235.8	235.5	235.2
4	314.4	314.0	313.6
5	393.0	392.5	392.0
6	471.6	471.0	470.4
7	550.2	549.5	548.8
8	628.8	628.0	627.2
9	707.4	706.5	705.6

	783	782	781
1	78.3	78.2	78.1
2	156.6	156.4	156.2
3	234.9	234.6	234.3
4	313.2	312.8	312.4
5	391.5	391.0	390.5
6	469.8	469.2	468.6
7	548.1	547.4	546.7
8	626.4	625.6	624.8
9	704.7	703.8	702.9

	780
1	78.0
2	156.0
3	234.0
4	312.0
5	390.0
6	468.0
7	546.0
8	624.0
9	702.0

$84^\circ.500 - 84^\circ.450$

5°.550 — 5°.600

5°	sin	d	tang	d	cotg	cos	d		P.P.
.550	8.985 4910	780	8.987 5317	787	1.012 4683	9.997 9593	7	.450	
551	8.985 5690	780	8.987 6104	787	1.012 3896	9.997 9586	8	449	
552	8.985 6470	779	8.987 6891	787	1.012 3109	9.997 9578	7	448	
553	8.985 7249	780	8.987 7678	787	1.012 2322	9.997 9571	7	447	
554	8.985 8029	779	8.987 8465	787	1.012 1535	9.997 9564	8	446	
555	8.985 8808	780	8.987 9252	787	1.012 0748	9.997 9556	7	445	
556	8.985 9588	779	8.988 0039	786	1.011 9961	9.997 9549	7	444	
557	8.986 0367	779	8.988 0825	787	1.011 9175	9.997 9542	8	443	
558	8.986 1146	779	8.988 1612	786	1.011 8388	9.997 9534	7	442	
559	8.986 1925	778	8.988 2398	786	1.011 7602	9.997 9527	8	441	
.560	8.986 2703	779	8.988 3184	786	1.011 6816	9.997 9519	7	.440	
561	8.986 3482	778	8.988 3970	786	1.011 6030	9.997 9512	7	439	
562	8.986 4260	779	8.988 4756	785	1.011 5244	9.997 9505	8	438	
563	8.986 5039	778	8.988 5541	786	1.011 4459	9.997 9497	7	437	
564	8.986 5817	778	8.988 6327	785	1.011 3673	9.997 9490	7	436	
565	8.986 6595	778	8.988 7112	786	1.011 2888	9.997 9483	8	435	
566	8.986 7373	777	8.988 7898	785	1.011 2102	9.997 9475	7	434	
567	8.986 8150	778	8.988 8683	785	1.011 1317	9.997 9468	8	433	
568	8.986 8928	777	8.988 9468	784	1.011 0532	9.997 9460	7	432	
569	8.986 9705	778	8.989 0252	785	1.010 9748	9.997 9453	7	431	
.570	8.987 0483	777	8.989 1037	785	1.010 8963	9.997 9446	8	.430	
571	8.987 1260	777	8.989 1822	784	1.010 8178	9.997 9438	7	429	
572	8.987 2037	777	8.989 2606	784	1.010 7394	9.997 9431	8	428	
573	8.987 2814	777	8.989 3390	785	1.010 6610	9.997 9423	7	427	
574	8.987 3591	776	8.989 4175	784	1.010 5825	9.997 9416	7	426	
575	8.987 4367	777	8.989 4959	784	1.010 5041	9.997 9409	8	425	
576	8.987 5144	776	8.989 5743	783	1.010 4257	9.997 9401	7	424	
577	8.987 5920	776	8.989 6526	784	1.010 3474	9.997 9394	8	423	
578	8.987 6696	776	8.989 7310	783	1.010 2690	9.997 9386	7	422	
579	8.987 7472	776	8.989 8093	784	1.010 1907	9.997 9379	7	421	
.580	8.987 8248	776	8.989 8877	783	1.010 1123	9.997 9372	8	.420	
581	8.987 9024	776	8.989 9660	783	1.010 0340	9.997 9364	7	419	
582	8.987 9800	775	8.990 0443	783	1.009 9557	9.997 9357	8	418	
583	8.988 0575	776	8.990 1226	783	1.009 8774	9.997 9349	7	417	
584	8.988 1351	775	8.990 2009	782	1.009 7991	9.997 9342	7	416	
585	8.988 2126	775	8.990 2791	783	1.009 7209	9.997 9335	8	415	
586	8.988 2901	775	8.990 3574	782	1.009 6426	9.997 9327	7	414	
587	8.988 3676	775	8.990 4356	782	1.009 5644	9.997 9320	8	413	
588	8.988 4451	774	8.990 5138	782	1.009 4862	9.997 9312	7	412	
589	8.988 5225	775	8.990 5920	782	1.009 4080	9.997 9305	8	411	
.590	8.988 6000	774	8.990 6702	782	1.009 3298	9.997 9297	7	.410	
591	8.988 6774	774	8.990 7484	782	1.009 2516	9.997 9290	7	409	
592	8.988 7548	774	8.990 8266	781	1.009 1734	9.997 9283	8	408	
593	8.988 8322	774	8.990 9047	782	1.009 0953	9.997 9275	7	407	
594	8.988 9096	774	8.990 9829	781	1.009 0171	9.997 9268	8	406	
595	8.988 9870	774	8.991 0610	781	1.008 9390	9.997 9260	7	405	
596	8.989 0644	773	8.991 1391	781	1.008 8609	9.997 9253	7	404	
597	8.989 1417	774	8.991 2172	781	1.008 7828	9.997 9246	8	403	
598	8.989 2191	773	8.991 2953	780	1.008 7047	9.997 9238	7	402	
599	8.989 2964	773	8.991 3733	781	1.008 6267	9.997 9231	8	401	
.600	8.989 3737		8.991 4514		1.008 5486	9.997 9223		.400	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	787	786	785
1	78.7	78.6	78.5
2	157.4	157.2	157.0
3	236.1	235.8	235.5
4	314.8	314.4	314.0
5	393.5	393.0	392.5
6	472.2	471.6	471.0
7	550.9	550.2	549.5
8	629.6	628.8	628.0
9	708.3	707.4	706.5

	784	783	782
1	78.4	78.3	78.2
2	156.8	156.6	156.4
3	235.2	234.9	234.6
4	313.6	313.2	312.8
5	392.0	391.5	391.0
6	470.4	469.8	469.2
7	548.8	548.1	547.4
8	627.2	626.4	625.6
9	705.6	704.7	703.8

	781	780	779
1	78.1	78.0	77.9
2	156.2	156.0	155.8
3	234.3	234.0	233.7
4	312.4	312.0	311.6
5	390.5	390.0	389.5
6	468.6	468.0	467.4
7	546.7	546.0	545.3
8	624.8	624.0	623.2
9	702.9	702.0	701.1

	778	777	776
1	77.8	77.7	77.6
2	155.6	155.4	155.2
3	233.4	233.1	232.8
4	311.2	310.8	310.4
5	389.0	388.5	388.0
6	466.8	466.2	465.6
7	544.6	543.9	543.2
8	622.4	621.6	620.8
9	700.2	699.3	698.4

	775	774	773
1	77.5	77.4	77.3
2	155.0	154.8	154.6
3	232.5	232.2	231.9
4	310.0	309.6	309.2
5	387.5	387.0	386.5
6	465.0	464.4	463.8
7	542.5	541.8	541.1
8	620.0	619.2	618.4
9	697.5	696.6	695.7

84°.450 — 84°.400

5°.600 — 5°.650

5°	sin	d	tang	d	cotg	cos	d		P.P.
.600	8.989 3737		8.991 4514		1.008 5486	9.997 9223		.400	
		773		780			7		
601	8.989 4510		8.991 5294		1.008 4706	9.997 9216		399	
602	8.989 5283	773	8.991 6075	781	1.008 3925	9.997 9208	8	398	
603	8.989 6056	773	8.991 6855	780	1.008 3145	9.997 9201	7	397	
		772		780			7		
604	8.989 6828		8.991 7635		1.008 2365	9.997 9194		396	
605	8.989 7601	773	8.991 8415	780	1.008 1585	9.997 9186	8	395	
606	8.989 8373	772	8.991 9194	779	1.008 0806	9.997 9179	7	394	
		772		780			8		
607	8.989 9145		8.991 9974		1.008 0026	9.997 9171		393	
608	8.989 9917	772	8.992 0753	779	1.007 9247	9.997 9164	7	392	
609	8.990 0689	772	8.992 1533	780	1.007 8467	9.997 9156	8	391	
		772		779			7		
.610	8.990 1461		8.992 2312		1.007 7688	9.997 9149		.390	
		771		779			8		
611	8.990 2232		8.992 3091		1.007 6909	9.997 9141		389	
612	8.990 3004	772	8.992 3870	779	1.007 6130	9.997 9134	7	388	
613	8.990 3775	771	8.992 4649	779	1.007 5351	9.997 9127	7	387	
		771		778			8		
614	8.990 4546		8.992 5427		1.007 4573	9.997 9119		386	
615	8.990 5317	771	8.992 6206	779	1.007 3794	9.997 9112	7	385	
616	8.990 6088	771	8.992 6984	778	1.007 3016	9.997 9104	8	384	
		771		778			7		
617	8.990 6859		8.992 7762		1.007 2238	9.997 9097		383	
618	8.990 7630	771	8.992 8540	778	1.007 1460	9.997 9089	8	382	
619	8.990 8400	770	8.992 9318	778	1.007 0682	9.997 9082	7	381	
		771		778			8		
.620	8.990 9171		8.993 0096		1.006 9904	9.997 9074		.380	
		770		778			7		
621	8.990 9941		8.993 0874		1.006 9126	9.997 9067		379	
622	8.991 0711	770	8.993 1651	777	1.006 8349	9.997 9059	8	378	
623	8.991 1481	770	8.993 2429	778	1.006 7571	9.997 9052	7	377	
		770		777			8		
624	8.991 2251		8.993 3206		1.006 6794	9.997 9044		376	
625	8.991 3020	769	8.993 3983	777	1.006 6017	9.997 9037	7	375	
626	8.991 3790	770	8.993 4760	777	1.006 5240	9.997 9030	7	374	
		769		777			8		
627	8.991 4559		8.993 5537		1.006 4463	9.997 9022		373	
628	8.991 5328	769	8.993 6314	777	1.006 3686	9.997 9015	7	372	
629	8.991 6098	770	8.993 7090	776	1.006 2910	9.997 9007	8	371	
		769		777			7		
.630	8.991 6867		8.993 7867		1.006 2133	9.997 9000		.370	
		768		776			8		
631	8.991 7635		8.993 8643		1.006 1357	9.997 8992		369	
632	8.991 8404	769	8.993 9419	776	1.006 0581	9.997 8985	7	368	
633	8.991 9173	769	8.994 0195	776	1.005 9805	9.997 8977	8	367	
		768		776			7		
634	8.991 9941		8.994 0971		1.005 9029	9.997 8970		366	
635	8.992 0709	768	8.994 1747	776	1.005 8253	9.997 8962	8	365	
636	8.992 1478	769	8.994 2523	776	1.005 7477	9.997 8955	7	364	
		768		775			8		
637	8.992 2246		8.994 3298		1.005 6702	9.997 8947		363	
638	8.992 3013	767	8.994 4074	776	1.005 5926	9.997 8940	7	362	
639	8.992 3781	768	8.994 4849	775	1.005 5151	9.997 8932	8	361	
		768		775			7		
.640	8.992 4549		8.994 5624		1.005 4376	9.997 8925		.360	
		767		775			8		
641	8.992 5316		8.994 6399		1.005 3601	9.997 8917		359	
642	8.992 6084	768	8.994 7174	775	1.005 2826	9.997 8910	7	358	
643	8.992 6851	767	8.994 7948	774	1.005 2052	9.997 8902	8	357	
		767		775			7		
644	8.992 7618		8.994 8723		1.005 1277	9.997 8895		356	
645	8.992 8385	767	8.994 9497	774	1.005 0503	9.997 8887	8	355	
646	8.992 9152	767	8.995 0272	775	1.004 9728	9.997 8880	7	354	
		766		774			8		
647	8.992 9918		8.995 1046		1.004 8954	9.997 8872		353	
648	8.993 0685	767	8.995 1820	774	1.004 8180	9.997 8865	7	352	
649	8.993 1451	766	8.995 2594	774	1.004 7406	9.997 8857	8	351	
		766		773			7		
.650	8.993 2217		8.995 3367		1.004 6633	9.997 8850		.350	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	781	780	779
1	78.1	78.0	77.9
2	156.2	156.0	155.8
3	234.3	234.0	233.7
4	312.4	312.0	311.6
5	390.5	390.0	389.5
6	468.6	468.0	467.4
7	546.7	546.0	545.3
8	624.8	624.0	623.2
9	702.9	702.0	701.1

	778	777	776
1	77.8	77.7	77.6
2	155.6	155.4	155.2
3	233.4	233.1	232.8
4	311.2	310.8	310.4
5	389.0	388.5	388.0
6	466.8	466.2	465.6
7	544.6	543.9	543.2
8	622.4	621.6	620.8
9	700.2	699.3	698.4

	775	774	773
1	77.5	77.4	77.3
2	155.0	154.8	154.6
3	232.5	232.2	231.9
4	310.0	309.6	309.2
5	387.5	387.0	386.5
6	465.0	464.4	463.8
7	542.5	541.8	541.1
8	620.0	619.2	618.4
9	697.5	696.6	695.7

	772	771	770
1	77.2	77.1	77.0
2	154.4	154.2	154.0
3	231.6	231.3	231.0
4	308.8	308.4	308.0
5	386.0	385.5	385.0
6	463.2	462.6	462.0
7	540.4	539.7	539.0
8	617.6	616.8	616.0
9	694.8	693.9	693.0

	769	768	767
1	76.9	76.8	76.7
2	153.8	153.6	153.4
3	230.7	230.4	230.1
4	307.6	307.2	306.8
5	384.5	384.0	383.5
6	461.4	460.8	460.2
7	538.3	537.6	536.9
8	615.2	614.4	613.6
9	692.1	691.2	690.3

	766
1	76.6
2	153.2
3	229.8
4	306.4
5	383.0
6	459.6
7	536.2
8	612.8
9	689.4

84°.400 — 84°.350

5°.650 — 5°.700

5°	sin	d	tang	d	cotg	cos	d		P.P.
.650	8.993 2217		8.995 3367		1.004 6633	9.997 8850		.350	
		766		774			8		
651	8.993 2983		8.995 4141		1.004 5859	9.997 8842		349	
652	8.993 3749	766	8.995 4914	773	1.004 5086	9.997 8835	7	348	
653	8.993 4515	766	8.995 5688	774	1.004 4312	9.997 8827	8	347	
		766		773			7		
654	8.993 5281		8.995 6461		1.004 3539	9.997 8820		346	
655	8.993 6046	765	8.995 7234	773	1.004 2766	9.997 8812	8	345	
656	8.993 6812	766	8.995 8007	773	1.004 1993	9.997 8805	7	344	
		765		773			8		
657	8.993 7577		8.995 8780		1.004 1220	9.997 8797		343	
658	8.993 8342	765	8.995 9552	772	1.004 0448	9.997 8790	7	342	
659	8.993 9107	765	8.996 0325	773	1.003 9675	9.997 8782	8	341	
		765		772			7		
.660	8.993 9872		8.996 1097		1.003 8903	9.997 8775		.340	
		765		773			8		
661	8.994 0637		8.996 1870		1.003 8130	9.997 8767		339	
662	8.994 1402	765	8.996 2642	772	1.003 7358	9.997 8760	7	338	
663	8.994 2166	764	8.996 3414	772	1.003 6586	9.997 8752	8	337	
		764		771			7		
664	8.994 2930		8.996 4185		1.003 5815	9.997 8745		336	
665	8.994 3695	765	8.996 4957	772	1.003 5043	9.997 8737	8	335	
666	8.994 4459	764	8.996 5729	772	1.003 4271	9.997 8730	7	334	
		763		771			8		
667	8.994 5222		8.996 6500		1.003 3500	9.997 8722		333	
668	8.994 5986	764	8.996 7272	772	1.003 2728	9.997 8715	7	332	
669	8.994 6750	764	8.996 8043	771	1.003 1957	9.997 8707	8	331	
		763		771			7		
.670	8.994 7513		8.996 8814		1.003 1186	9.997 8700		.330	
		764		771			8		
671	8.994 8277		8.996 9585		1.003 0415	9.997 8692		329	
672	8.994 9040	763	8.997 0355	770	1.002 9645	9.997 8685	7	328	
673	8.994 9803	763	8.997 1126	771	1.002 8874	9.997 8677	8	327	
		763		771			7		
674	8.995 0566		8.997 1897		1.002 8103	9.997 8670		326	
675	8.995 1329	763	8.997 2667	770	1.002 7333	9.997 8662	8	325	
676	8.995 2092	763	8.997 3437	770	1.002 6563	9.997 8655	7	324	
		762		770			8		
677	8.995 2854		8.997 4207		1.002 5793	9.997 8647		323	
678	8.995 3617	763	8.997 4977	770	1.002 5023	9.997 8639	8	322	
679	8.995 4379	762	8.997 5747	770	1.002 4253	9.997 8632	7	321	
		762		770			8		
.680	8.995 5141		8.997 6517		1.002 3483	9.997 8624		.320	
		762		769			7		
681	8.995 5903		8.997 7286		1.002 2714	9.997 8617		319	
682	8.995 6665	762	8.997 8056	770	1.002 1944	9.997 8609	8	318	
683	8.995 7427	762	8.997 8825	769	1.002 1175	9.997 8602	7	317	
		761		769			8		
684	8.995 8188		8.997 9594		1.002 0406	9.997 8594		316	
685	8.995 8950	762	8.998 0363	769	1.001 9637	9.997 8587	7	315	
686	8.995 9711	761	8.998 1132	769	1.001 8868	9.997 8579	8	314	
		762		769			7		
687	8.996 0473		8.998 1901		1.001 8099	9.997 8572		313	
688	8.996 1234	761	8.998 2670	769	1.001 7330	9.997 8564	8	312	
689	8.996 1995	761	8.998 3438	768	1.001 6562	9.997 8556	8	311	
		760		768			7		
.690	8.996 2755		8.998 4206		1.001 5794	9.997 8549		.310	
		761		769			8		
691	8.996 3516		8.998 4975		1.001 5025	9.997 8541		309	
692	8.996 4277	761	8.998 5743	768	1.001 4257	9.997 8534	7	308	
693	8.996 5037	760	8.998 6511	768	1.001 3489	9.997 8526	8	307	
		760		768			7		
694	8.996 5797		8.998 7279		1.001 2721	9.997 8519		306	
695	8.996 6557	760	8.998 8046	767	1.001 1954	9.997 8511	8	305	
696	8.996 7317	760	8.998 8814	768	1.001 1186	9.997 8504	7	304	
		760		767			8		
697	8.996 8077		8.998 9581		1.001 0419	9.997 8496		303	
698	8.996 8837	760	8.999 0349	768	1.000 9651	9.997 8488	8	302	
699	8.996 9597	760	8.999 1116	767	1.000 8884	9.997 8481	7	301	
		759		767			8		
.700	8.997 0356		8.999 1883		1.000 8117	9.997 8473		.300	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	774	773	772
1	77.4	77.3	77.2
2	154.8	154.6	154.4
3	232.2	231.9	231.6
4	309.6	309.2	308.8
5	387.0	386.5	386.0
6	464.4	463.8	463.2
7	541.8	541.1	540.4
8	619.2	618.4	617.6
9	696.6	695.7	694.8

	771	770	769
1	77.1	77.0	76.9
2	154.2	154.0	153.8
3	231.3	231.0	230.7
4	308.4	308.0	307.6
5	385.5	385.0	384.5
6	462.6	462.0	461.4
7	539.7	539.0	538.3
8	616.8	616.0	615.2
9	693.9	693.0	692.1

	768	767	766
1	76.8	76.7	76.6
2	153.6	153.4	153.2
3	230.4	230.1	229.8
4	307.2	306.8	306.4
5	384.0	383.5	383.0
6	460.8	460.2	459.6
7	537.6	536.9	536.2
8	614.4	613.6	612.8
9	691.2	690.3	689.4

	765	764	763
1	76.5	76.4	76.3
2	153.0	152.8	152.6
3	229.5	229.2	228.9
4	306.0	305.6	305.2
5	382.5	382.0	381.5
6	459.0	458.4	457.8
7	535.5	534.8	534.1
8	612.0	611.2	610.4
9	688.5	687.6	686.7

	762	761	760
1	76.2	76.1	76.0
2	152.4	152.2	152.0
3	228.6	228.3	228.0
4	304.8	304.4	304.0
5	381.0	380.5	380.0
6	457.2	456.6	456.0
7	533.4	532.7	532.0
8	609.6	608.8	608.0
9	685.8	684.9	684.0

	759
1	75.9
2	151.8
3	227.7
4	303.6
5	379.5
6	455.4
7	531.3
8	607.2
9	683.1

84°.350 — 84°.300

5°.700 — 5°.750

5°	sin	d	tang	d	cotg	cos	d		P.P.
.700	8.997 0356		8.999 1883		1.000 8117	9.997 8473		**.300**	
		760		767			7		
701	8.997 1116		8.999 2650		1.000 7350	9.997 8466		299	
702	8.997 1875	759	8.999 3416	766	1.000 6584	9.997 8458	8	298	
703	8.997 2634	759	8.999 4183	767	1.000 5817	9.997 8451	7	297	
		759		767			8		
704	8.997 3393		8.999 4950		1.000 5050	9.997 8443		296	
705	8.997 4152	759	8.999 5716	766	1.000 4284	9.997 8436	7	295	
706	8.997 4910	758	8.999 6482	766	1.000 3518	9.997 8428	8	294	
		759		766			8		
707	8.997 5669		8.999 7248		1.000 2752	9.997 8420		293	
708	8.997 6427	758	8.999 8014	766	1.000 1986	9.997 8413	7	292	
709	8.997 7185	758	8.999 8780	766	1.000 1220	9.997 8405	8	291	
		759		766			7		
.710	8.997 7944		8.999 9546		1.000 0454	9.997 8398		**.290**	
		758		765			8		
711	8.997 8702		9.000 0311		0.999 9689	9.997 8390		289	
712	8.997 9459	757	9.000 1077	766	0.999 8923	9.997 8382	8	288	
713	8.998 0217	758	9.000 1842	765	0.999 8158	9.997 8375	7	287	
		758		765			8		
714	8.998 0975		9.000 2607		0.999 7393	9.997 8367		286	
715	8.998 1732	757	9.000 3372	765	0.999 6628	9.997 8360	7	285	
716	8.998 2490	758	9.000 4137	765	0.999 5863	9.997 8352	8	284	
		757		765			7		
717	8.998 3247		9.000 4902		0.999 5098	9.997 8345		283	
718	8.998 4004	757	9.000 5667	765	0.999 4333	9.997 8337	8	282	
719	8.998 4761	757	9.000 6431	764	0.999 3569	9.997 8329	8	281	
		757		765			7		
.720	8.998 5518		9.000 7196		0.999 2804	9.997 8322		**.280**	
		756		764			8		
721	8.998 6274		9.000 7960		0.999 2040	9.997 8314		279	
722	8.998 7031	757	9.000 8724	764	0.999 1276	9.997 8307	7	278	
723	8.998 7787	756	9.000 9488	764	0.999 0512	9.997 8299	8	277	
		756		764			8		
724	8.998 8543		9.001 0252		0.998 9748	9.997 8291		276	
725	8.998 9300	757	9.001 1016	764	0.998 8984	9.997 8284	7	275	
726	8.999 0056	756	9.001 1779	763	0.998 8221	9.997 8276	8	274	
		755		764			7		
727	8.999 0811		9.001 2543		0.998 7457	9.997 8269		273	
728	8.999 1567	756	9.001 3306	763	0.998 6694	9.997 8261	8	272	
729	8.999 2323	756	9.001 4069	763	0.998 5931	9.997 8253	8	271	
		755		763			7		
.730	8.999 3078		9.001 4832		0.998 5168	9.997 8246		**.270**	
		756		763			8		
731	8.999 3834		9.001 5595		0.998 4405	9.997 8238		269	
732	8.999 4589	755	9.001 6358	763	0.998 3642	9.997 8231	7	268	
733	8.999 5344	755	9.001 7121	763	0.998 2879	9.997 8223	8	267	
		755		762			8		
734	8.999 6099		9.001 7883		0.998 2117	9.997 8215		266	
735	8.999 6854	755	9.001 8646	763	0.998 1354	9.997 8208	7	265	
736	8.999 7608	754	9.001 9408	762	0.998 0592	9.997 8200	8	264	
		755		762			7		
737	8.999 8363		9.002 0170		0.997 9830	9.997 8193		263	
738	8.999 9117	754	9.002 0932	762	0.997 9068	9.997 8185	8	262	
739	8.999 9871	754	9.002 1694	762	0.997 8306	9.997 8177	8	261	
		755		762			7		
.740	9.000 0626		9.002 2456		0.997 7544	9.997 8170		**.260**	
		754		762			8		
741	9.000 1380		9.002 3218		0.997 6782	9.997 8162		259	
742	9.000 2133	753	9.002 3979	761	0.997 6021	9.997 8154	8	258	
743	9.000 2887	754	9.002 4740	761	0.997 5260	9.997 8147	7	257	
		754		762			8		
744	9.000 3641		9.002 5502		0.997 4498	9.997 8139		256	
745	9.000 4394	753	9.002 6263	761	0.997 3737	9.997 8132	7	255	
746	9.000 5148	754	9.002 7024	761	0.997 2976	9.997 8124	8	254	
		753		761			8		
747	9.000 5901		9.002 7785		0.997 2215	9.997 8116		253	
748	9.000 6654	753	9.002 8545	760	0.997 1455	9.997 8109	7	252	
749	9.000 7407	753	9.002 9306	761	0.997 0694	9.997 8101	8	251	
		753		760			8		
.750	9.000 8160		9.003 0066		0.996 9934	9.997 8093		**.250**	
	cos	d	cotg	d	tang	sin	d	**84°**	P.P.

	767	766	765
1	76.7	76.6	76.5
2	153.4	153.2	153.0
3	230.1	229.8	229.5
4	306.8	306.4	306.0
5	383.5	383.0	382.5
6	460.2	459.6	459.0
7	536.9	536.2	535.5
8	613.6	612.8	612.0
9	690.3	689.4	688.5

	764	763	762
1	76.4	76.3	76.2
2	152.8	152.6	152.4
3	229.2	228.9	228.6
4	305.6	305.2	304.8
5	382.0	381.5	381.0
6	458.4	457.8	457.2
7	534.8	534.1	533.4
8	611.2	610.4	609.6
9	687.6	686.7	685.8

	761	760	759
1	76.1	76.0	75.9
2	152.2	152.0	151.8
3	228.3	228.0	227.7
4	304.4	304.0	303.6
5	380.5	380.0	379.5
6	456.6	456.0	455.4
7	532.7	532.0	531.3
8	608.8	608.0	607.2
9	684.9	684.0	683.1

	758	757	756
1	75.8	75.7	75.6
2	151.6	151.4	151.2
3	227.4	227.1	226.8
4	303.2	302.8	302.4
5	379.0	378.5	378.0
6	454.8	454.2	453.6
7	530.6	529.9	529.2
8	606.4	605.6	604.8
9	682.2	681.3	680.4

	755	754	753
1	75.5	75.4	75.3
2	151.0	150.8	150.6
3	226.5	226.2	225.9
4	302.0	301.6	301.2
5	377.5	377.0	376.5
6	453.0	452.4	451.8
7	528.5	527.8	527.1
8	604.0	603.2	602.4
9	679.5	678.6	677.7

84°.300 — 84°.250

$5^\circ.750 - 5^\circ.800$

5°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.000 8160		9.003 0066		0.996 9934	9.997 8093		**.250**	
		752		761			7		
751	9.000 8912		9.003 0827		0.996 9173	9.997 8086		249	
752	9.000 9665	753	9.003 1587	760	0.996 8413	9.997 8078	8	248	
753	9.001 0417	752	9.003 2347	760	0.996 7653	9.997 8070	8	247	
		753		760			7		
754	9.001 1170		9.003 3107		0.996 6893	9.997 8063		246	
755	9.001 1922	752	9.003 3867	760	0.996 6133	9.997 8055	8	245	
756	9.001 2674	752	9.003 4626	759	0.996 5374	9.997 8048	7	244	
		752		760			8		
757	9.001 3426		9.003 5386		0.996 4614	9.997 8040		243	
758	9.001 4178	752	9.003 6145	759	0.996 3855	9.997 8032	8	242	
759	9.001 4929	751	9.003 6905	760	0.996 3095	9.997 8025	7	241	
		752		759			8		
.760	9.001 5681		9.003 7664		0.996 2336	9.997 8017		**.240**	
		751		759			8		
761	9.001 6432		9.003 8423		0.996 1577	9.997 8009		239	
762	9.001 7183	751	9.003 9182	759	0.996 0818	9.997 8002	7	238	
763	9.001 7934	751	9.003 9940	758	0.996 0060	9.997 7994	8	237	
		751		759			8		
764	9.001 8685		9.004 0699		0.995 9301	9.997 7986		236	
765	9.001 9436	751	9.004 1458	759	0.995 8542	9.997 7979	7	235	
766	9.002 0187	751	9.004 2216	758	0.995 7784	9.997 7971	8	234	
		751		758			8		
767	9.002 0938		9.004 2974		0.995 7026	9.997 7963		233	
768	9.002 1688	750	9.004 3732	758	0.995 6268	9.997 7956	7	232	
769	9.002 2438	750	9.004 4490	758	0.995 5510	9.997 7948	8	231	
		751		758			8		
.770	9.002 3189		9.004 5248		0.995 4752	9.997 7940		**.230**	
		750		758			7		
771	9.002 3939		9.004 6006		0.995 3994	9.997 7933		229	
772	9.002 4689	750	9.004 6763	757	0.995 3237	9.997 7925	8	228	
773	9.002 5438	749	9.004 7521	758	0.995 2479	9.997 7917	8	227	
		750		757			7		
774	9.002 6188		9.004 8278		0.995 1722	9.997 7910		226	
775	9.002 6938	750	9.004 9035	757	0.995 0965	9.997 7902	8	225	
776	9.002 7687	749	9.004 9793	758	0.995 0207	9.997 7894	8	224	
		749		756			7		
777	9.002 8436		9.005 0549		0.994 9451	9.997 7887		223	
778	9.002 9185	749	9.005 1306	757	0.994 8694	9.997 7879	8	222	
779	9.002 9934	749	9.005 2063	757	0.994 7937	9.997 7871	8	221	
		749		757			7		
.780	9.003 0683		9.005 2820		0.994 7180	9.997 7864		**.220**	
		749		756			8		
781	9.003 1432		9.005 3576		0.994 6424	9.997 7856		219	
782	9.003 2181	749	9.005 4332	756	0.994 5668	9.997 7848	8	218	
783	9.003 2929	748	9.005 5088	756	0.994 4912	9.997 7841	7	217	
		749		756			8		
784	9.003 3678		9.005 5844		0.994 4156	9.997 7833		216	
785	9.003 4426	748	9.005 6600	756	0.994 3400	9.997 7825	8	215	
786	9.003 5174	748	9.005 7356	756	0.994 2644	9.997 7818	7	214	
		748		756			8		
787	9.003 5922		9.005 8112		0.994 1888	9.997 7810		213	
788	9.003 6670	748	9.005 8867	755	0.994 1133	9.997 7802	8	212	
789	9.003 7417	747	9.005 9623	756	0.994 0377	9.997 7795	7	211	
		748		755			8		
.790	9.003 8165		9.006 0378		0.993 9622	9.997 7787		**.210**	
		748		755			8		
791	9.003 8913		9.006 1133		0.993 8867	9.997 7779		209	
792	9.003 9660	747	9.006 1888	755	0.993 8112	9.997 7772	7	208	
793	9.004 0407	747	9.006 2643	755	0.993 7357	9.997 7764	8	207	
		747		755			8		
794	9.004 1154		9.006 3398		0.993 6602	9.997 7756		206	
795	9.004 1901	747	9.006 4152	754	0.993 5848	9.997 7749	7	205	
796	9.004 2648	747	9.006 4907	755	0.993 5093	9.997 7741	8	204	
		747		754			8		
797	9.004 3395		9.006 5661		0.993 4339	9.997 7733		203	
798	9.004 4141	746	9.006 6416	755	0.993 3584	9.997 7725	8	202	
799	9.004 4888	747	9.006 7170	754	0.993 2830	9.997 7718	7	201	
		746		754			8		
.800	9.004 5634		9.006 7924		0.993 2076	9.997 7710		**.200**	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	761	760	759
1	76.1	76.0	75.9
2	152.2	152.0	151.8
3	228.3	228.0	227.7
4	304.4	304.0	303.6
5	380.5	380.0	379.5
6	456.6	456.0	455.4
7	532.7	532.0	531.3
8	608.8	608.0	607.2
9	684.9	684.0	683.1

	758	757	756
1	75.8	75.7	75.6
2	151.6	151.4	151.2
3	227.4	227.1	226.8
4	303.2	302.8	302.4
5	379.0	378.5	378.0
6	454.8	454.2	453.6
7	530.6	529.9	529.2
8	606.4	605.6	604.8
9	682.2	681.3	680.4

	755	754	753
1	75.5	75.4	75.3
2	151.0	150.8	150.6
3	226.5	226.2	225.9
4	302.0	301.6	301.2
5	377.5	377.0	376.5
6	453.0	452.4	451.8
7	528.5	527.8	527.1
8	604.0	603.2	602.4
9	679.5	678.6	677.7

	752	751	750
1	75.2	75.1	75.0
2	150.4	150.2	150.0
3	225.6	225.3	225.0
4	300.8	300.4	300.0
5	376.0	375.5	375.0
6	451.2	450.6	450.0
7	526.4	525.7	525.0
8	601.6	600.8	600.0
9	676.8	675.9	675.0

	749	748	747
1	74.9	74.8	74.7
2	149.8	149.6	149.4
3	224.7	224.4	224.1
4	299.6	299.2	298.8
5	374.5	374.0	373.5
6	449.4	448.8	448.2
7	524.3	523.6	522.9
8	599.2	598.4	597.6
9	674.1	673.2	672.3

	746
1	74.6
2	149.2
3	223.8
4	298.4
5	373.0
6	447.6
7	522.2
8	596.8
9	671.4

$84^\circ.250 - 84^\circ.200$

5°.800 — 5°.850

5°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.004 5634		9.006 7924		0.993 2076	9.997 7710		**.200**	
		746		754			8		
801	9.004 6380		9.006 8678		0.993 1322	9.997 7702		199	
802	9.004 7126	746	9.006 9431	753	0.993 0569	9.997 7695	7	198	
803	9.004 7872	746	9.007 0185	754	0.992 9815	9.997 7687	8	197	
		746		753			8		
804	9.004 8618		9.007 0938		0.992 9062	9.997 7679		196	
805	9.004 9363	745	9.007 1692	754	0.992 8308	9.997 7672	7	195	
806	9.005 0109	746	9.007 2445	753	0.992 7555	9.997 7664	8	194	
		745		753			8		
807	9.005 0854		9.007 3198		0.992 6802	9.997 7656		193	
808	9.005 1599	745	9.007 3951	753	0.992 6049	9.997 7648	8	192	
809	9.005 2345	746	9.007 4704	753	0.992 5296	9.997 7641	7	191	
		745		753			8		
.810	9.005 3090		9.007 5457		0.992 4543	9.997 7633		**.190**	
		744		752			8		
811	9.005 3834		9.007 6209		0.992 3791	9.997 7625		189	
812	9.005 4579	745	9.007 6962	753	0.992 3038	9.997 7618	7	188	
813	9.005 5324	745	9.007 7714	752	0.992 2286	9.997 7610	8	187	
		744		752			8		
814	9.005 6068		9.007 8466		0.992 1534	9.997 7602		186	
815	9.005 6813	745	9.007 9218	752	0.992 0782	9.997 7594	8	185	
816	9.005 7557	744	9.007 9970	752	0.992 0030	9.997 7587	7	184	
		744		752			8		
817	9.005 8301		9.008 0722		0.991 9278	9.997 7579		183	
818	9.005 9045	744	9.008 1474	752	0.991 8526	9.997 7571	8	182	
819	9.005 9789	744	9.008 2225	751	0.991 7775	9.997 7564	7	181	
		743		752			8		
.820	9.006 0532		9.008 2977		0.991 7023	9.997 7556		**.180**	
		744		751			8		
821	9.006 1276		9.008 3728		0.991 6272	9.997 7548		179	
822	9.006 2019	743	9.008 4479	751	0.991 5521	9.997 7540	8	178	
823	9.006 2763	744	9.008 5230	751	0.991 4770	9.997 7533	7	177	
		743		751			8		
824	9.006 3506		9.008 5981		0.991 4019	9.997 7525		176	
825	9.006 4249	743	9.008 6732	751	0.991 3268	9.997 7517	8	175	
826	9.006 4992	743	9.008 7483	751	0.991 2517	9.997 7509	8	174	
		743		750			7		
827	9.006 5735		9.008 8233		0.991 1767	9.997 7502		173	
828	9.006 6477	742	9.008 8983	750	0.991 1017	9.997 7494	8	172	
829	9.006 7220	743	9.008 9734	751	0.991 0266	9.997 7486	8	171	
		742		750			7		
.830	9.006 7962		9.009 0484		0.990 9516	9.997 7479		**.170**	
		743		750			8		
831	9.006 8705		9.009 1234		0.990 8766	9.997 7471		169	
832	9.006 9447	742	9.009 1984	750	0.990 8016	9.997 7463	8	168	
833	9.007 0189	742	9.009 2734	750	0.990 7266	9.997 7455	8	167	
		742		749			7		
834	9.007 0931		9.009 3483		0.990 6517	9.997 7448		166	
835	9.007 1673	742	9.009 4233	750	0.990 5767	9.997 7440	8	165	
836	9.007 2414	741	9.009 4982	749	0.990 5018	9.997 7432	8	164	
		742		750			8		
837	9.007 3156		9.009 5732		0.990 4268	9.997 7424		163	
838	9.007 3897	741	9.009 6481	749	0.990 3519	9.997 7417	7	162	
839	9.007 4638	741	9.009 7230	749	0.990 2770	9.997 7409	8	161	
		742		749			8		
.840	9.007 5380		9.009 7979		0.990 2021	9.997 7401		**.160**	
		741		748			8		
841	9.007 6121		9.009 8727		0.990 1273	9.997 7393		159	
842	9.007 6862	741	9.009 9476	749	0.990 0524	9.997 7386	7	158	
843	9.007 7602	740	9.010 0224	748	0.989 9776	9.997 7378	8	157	
		741		749			8		
844	9.007 8343		9.010 0973		0.989 9027	9.997 7370		156	
845	9.007 9083	740	9.010 1721	748	0.989 8279	9.997 7362	8	155	
846	9.007 9824	741	9.010 2469	748	0.989 7531	9.997 7355	7	154	
		740		748			8		
847	9.008 0564		9.010 3217		0.989 6783	9.997 7347		153	
848	9.008 1304	740	9.010 3965	748	0.989 6035	9.997 7339	8	152	
849	9.008 2044	740	9.010 4713	748	0.989 5287	9.997 7331	8	151	
		740		748			8		
.850	9.008 2784		9.010 5461		0.989 4539	9.997 7323		**.150**	
	cos	d	cotg	d	tang	sin	d	**84°**	P.P.

	754	753	752
1	75.4	75.3	75.2
2	150.8	150.6	150.4
3	226.2	225.9	225.6
4	301.6	301.2	300.8
5	377.0	376.5	376.0
6	452.4	451.8	451.2
7	527.8	527.1	526.4
8	603.2	602.4	601.6
9	678.6	677.7	676.8

	751	750	749
1	75.1	75.0	74.9
2	150.2	150.0	149.8
3	225.3	225.0	224.7
4	300.4	300.0	299.6
5	375.5	375.0	374.5
6	450.6	450.0	449.4
7	525.7	525.0	524.3
8	600.8	600.0	599.2
9	675.9	675.0	674.1

	748	746	745
1	74.8	74.6	74.5
2	149.6	149.2	149.0
3	224.4	223.8	223.5
4	299.2	298.4	298.0
5	374.0	373.0	372.5
6	448.8	447.6	447.0
7	523.6	522.2	521.5
8	598.4	596.8	596.0
9	673.2	671.4	670.5

	744	743	742
1	74.4	74.3	74.2
2	148.8	148.6	148.4
3	223.2	222.9	222.6
4	297.6	297.2	296.8
5	372.0	371.5	371.0
6	446.4	445.8	445.2
7	520.8	520.1	519.4
8	595.2	594.4	593.6
9	669.6	668.7	667.8

	741	740
1	74.1	74.0
2	148.2	148.0
3	222.3	222.0
4	296.4	296.0
5	370.5	370.0
6	444.6	444.0
7	518.7	518.0
8	592.8	592.0
9	666.9	666.0

84°.200 — 84°.150

5°.850 — 5°.900

5°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.008 2784		9.010 5461		0.989 4539	9.997 7323		.150	
		740		747			7		
851	9.008 3524		9.010 6208		0.989 3792	9.997 7316	8	149	
852	9.008 4263	739	9.010 6955	747	0.989 3045	9.997 7308	8	148	
853	9.008 5003	740	9.010 7703	748	0.989 2297	9.997 7300	8	147	
		739		747			8		
854	9.008 5742		9.010 8450		0.989 1550	9.997 7292		146	
855	9.008 6481	739	9.010 9197	747	0.989 0803	9.997 7285	7	145	
856	9.008 7221	740	9.010 9944	747	0.989 0056	9.997 7277	8	144	
		739		746			8		
857	9.008 7960		9.011 0690		0.988 9310	9.997 7269		143	
858	9.008 8698	738	9.011 1437	747	0.988 8563	9.997 7261	8	142	
859	9.008 9437	739	9.011 2184	747	0.988 7816	9.997 7254	7	141	
		739		746			8		
.860	9.009 0176		9.011 2930		0.988 7070	9.997 7246		.140	
		738		746			8		
861	9.009 0914		9.011 3676		0.988 6324	9.997 7238		139	
862	9.009 1652	738	9.011 4422	746	0.988 5578	9.997 7230	8	138	
863	9.009 2391	739	9.011 5168	746	0.988 4832	9.997 7222	8	137	
		738		746			7		
864	9.009 3129		9.011 5914		0.988 4086	9.997 7215	8	136	
865	9.009 3867	738	9.011 6660	746	0.988 3340	9.997 7207	8	135	
866	9.009 4605	738	9.011 7406	746	0.988 2594	9.997 7199	8	134	
		737		745			8		
867	9.009 5342		9.011 8151		0.988 1849	9.997 7191		133	
868	9.009 6080	738	9.011 8896	745	0.988 1104	9.997 7183	8	132	
869	9.009 6817	737	9.011 9642	746	0.988 0358	9.997 7176	7	131	
		738		745			8		
.870	9.009 7555		9.012 0387		0.987 9613	9.997 7168		.130	
		737		745			8		
871	9.009 8292		9.012 1132		0.987 8868	9.997 7160		129	
872	9.009 9029	737	9.012 1877	745	0.987 8123	9.997 7152	8	128	
873	9.009 9766	737	9.012 2621	744	0.987 7379	9.997 7144	8	127	
		737		745			7		
874	9.010 0503		9.012 3366		0.987 6634	9.997 7137	8	126	
875	9.010 1239	736	9.012 4110	744	0.987 5890	9.997 7129	8	125	
876	9.010 1976	737	9.012 4855	745	0.987 5145	9.997 7121	8	124	
		736		744			8		
877	9.010 2712		9.012 5599		0.987 4401	9.997 7113		123	
878	9.010 3449	737	9.012 6343	744	0.987 3657	9.997 7105	8	122	
879	9.010 4185	736	9.012 7087	744	0.987 2913	9.997 7098	7	121	
		736		744			8		
.880	9.010 4921		9.012 7831		0.987 2169	9.997 7090		.120	
		736		744			8		
881	9.010 5657		9.012 8575		0.987 1425	9.997 7082		119	
882	9.010 6393	736	9.012 9318	743	0.987 0682	9.997 7074	8	118	
883	9.010 7128	735	9.013 0062	744	0.986 9938	9.997 7066	8	117	
		736		743			7		
884	9.010 7864		9.013 0805		0.986 9195	9.997 7059	8	116	
885	9.010 8599	735	9.013 1549	744	0.986 8451	9.997 7051	8	115	
886	9.010 9335	736	9.013 2292	743	0.986 7708	9.997 7043	8	114	
		735		743			8		
887	9.011 0070		9.013 3035		0.986 6965	9.997 7035		113	
888	9.011 0805	735	9.013 3778	743	0.986 6222	9.997 7027	8	112	
889	9.011 1540	735	9.013 4520	742	0.986 5480	9.997 7020	7	111	
		735		743			8		
.890	9.011 2275		9.013 5263		0.986 4737	9.997 7012		.110	
		734		742			8		
891	9.011 3009		9.013 6005		0.986 3995	9.997 7004		109	
892	9.011 3744	735	9.013 6748	743	0.986 3252	9.997 6996	8	108	
893	9.011 4478	734	9.013 7490	742	0.986 2510	9.997 6988	8	107	
		735		742			8		
894	9.011 5213		9.013 8232		0.986 1768	9.997 6980		106	
895	9.011 5947	734	9.013 8974	742	0.986 1026	9.997 6973	7	105	
896	9.011 6681	734	9.013 9716	742	0.986 0284	9.997 6965	8	104	
		734		742			8		
897	9.011 7415		9.014 0458		0.985 9542	9.997 6957		103	
898	9.011 8149	734	9.014 1199	741	0.985 8801	9.997 6949	8	102	
899	9.011 8882	733	9.014 1941	742	0.985 8059	9.997 6941	8	101	
		734		741			8		
.900	9.011 9616		9.014 2682		0.985 7318	9.997 6933		.100	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	74^8	747	74^6
1	74.8	74.7	74.6
2	149.6	149.4	149.2
3	224.4	224.1	223.8
4	299.2	298.8	298.4
5	374.0	373.5	373.0
6	448.8	448.2	447.6
7	523.6	522.9	522.2
8	598.4	597.6	596.8
9	673.2	672.3	671.4

	745	744	743
1	74.5	74.4	74.3
2	149.0	148.8	148.6
3	223.5	223.2	222.9
4	298.0	297.6	297.2
5	372.5	372.0	371.5
6	447.0	446.4	445.8
7	521.5	520.8	520.1
8	596.0	595.2	594.4
9	670.5	669.6	668.7

	742	741	740
1	74.2	74.1	74.0
2	148.4	148.2	148.0
3	222.6	222.3	222.0
4	296.8	296.4	296.0
5	371.0	370.5	370.0
6	445.2	444.6	444.0
7	519.4	518.7	518.0
8	593.6	592.8	592.0
9	667.8	666.9	666.0

	739	73^8	737
1	73.9	73.8	73.7
2	147.8	147.6	147.4
3	221.7	221.4	221.1
4	295.6	295.2	294.8
5	369.5	369.0	368.5
6	443.4	442.8	442.2
7	517.3	516.6	515.9
8	591.2	590.4	589.6
9	665.1	664.2	663.3

	73^6	735	734
1	73.6	73.5	73.4
2	147.2	147.0	146.8
3	220.8	220.5	220.2
4	294.4	294.0	293.6
5	368.0	367.5	367.0
6	441.6	441.0	440.4
7	515.2	514.5	513.8
8	588.8	588.0	587.2
9	662.4	661.5	660.6

	733
1	73.3
2	146.6
3	219.9
4	293.2
5	366.5
6	439.8
7	513.1
8	586.4
9	659.7

84°.150 — 84°.100

5°.900 — 5°.950

5°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.011 9616		9.014 2682		0.985 7318	9.997 6933		.100	
		733		742			7		
901	9.012 0349		9.014 3424		0.985 6576	9.997 6926	8	099	
902	9.012 1083	734	9.014 4165	741	0.985 5835	9.997 6918	8	098	
903	9.012 1816	733	9.014 4906	741	0.985 5094	9.997 6910	8	097	
		733		741			8		
904	9.012 2549		9.014 5647		0.985 4353	9.997 6902		096	
905	9.012 3282	733	9.014 6387	740	0.985 3613	9.997 6894	8	095	
906	9.012 4015	733	9.014 7128	741	0.985 2872	9.997 6886	8	094	
		732		741			7		
907	9.012 4747		9.014 7869		0.985 2131	9.997 6879	8	093	
908	9.012 5480	733	9.014 8609	740	0.985 1391	9.997 6871	8	092	
909	9.012 6212	732	9.014 9349	740	0.985 0651	9.997 6863	8	091	
		732		740			8		
.910	9.012 6944		9.015 0089		0.984 9911	9.997 6855		.090	
		733		740			8		
911	9.012 7677		9.015 0829		0.984 9171	9.997 6847	8	089	
912	9.012 8409	732	9.015 1569	740	0.984 8431	9.997 6839	8	088	
913	9.012 9141	732	9.015 2309	740	0.984 7691	9.997 6832	7	087	
		731		740			8		
914	9.012 9872		9.015 3049		0.984 6951	9.997 6824	8	086	
915	9.013 0604	732	9.015 3788	739	0.984 6212	9.997 6816	8	085	
916	9.013 1336	732	9.015 4528	740	0.984 5472	9.997 6808	8	084	
		731		739			8		
917	9.013 2067		9.015 5267		0.984 4733	9.997 6800	8	083	
918	9.013 2798	731	9.015 6006	739	0.984 3994	9.997 6792	8	082	
919	9.013 3530	732	9.015 6745	739	0.984 3255	9.997 6784	8	081	
		731		739			7		
.920	9.013 4261		9.015 7484		0.984 2516	9.997 6777		.080	
		731		739			8		
921	9.013 4992		9.015 8223		0.984 1777	9.997 6769	8	079	
922	9.013 5722	730	9.015 8962	739	0.984 1038	9.997 6761	8	078	
923	9.013 6453	731	9.015 9700	738	0.984 0300	9.997 6753	8	077	
		731		739			8		
924	9.013 7184		9.016 0439		0.983 9561	9.997 6745	8	076	
925	9.013 7914	730	9.016 1177	738	0.983 8823	9.997 6737	8	075	
926	9.013 8644	730	9.016 1915	738	0.983 8085	9.997 6729	8	074	
		731		738			8		
927	9.013 9375		9.016 2653		0.983 7347	9.997 6721		073	
928	9.014 0105	730	9.016 3391	738	0.983 6609	9.997 6714	7	072	
929	9.014 0835	730	9.016 4129	738	0.983 5871	9.997 6706	8	071	
		729		737			8		
.930	9.014 1564		9.016 4866		0.983 5134	9.997 6698		.070	
		730		738			8		
931	9.014 2294		9.016 5604		0.983 4396	9.997 6690	8	069	
932	9.014 3024	730	9.016 6341	737	0.983 3659	9.997 6682	8	068	
933	9.014 3753	729	9.016 7079	738	0.983 2921	9.997 6674	8	067	
		729		737			8		
934	9.014 4482		9.016 7816		0.983 2184	9.997 6666		066	
935	9.014 5212	730	9.016 8553	737	0.983 1447	9.997 6659	7	065	
936	9.014 5941	729	9.016 9290	737	0.983 0710	9.997 6651	8	064	
		729		737			8		
937	9.014 6670		9.017 0027		0.982 9973	9.997 6643		063	
938	9.014 7398	728	9.017 0764	737	0.982 9236	9.997 6635	8	062	
939	9.014 8127	729	9.017 1500	736	0.982 8500	9.997 6627	8	061	
		729		737			8		
.940	9.014 8856		9.017 2237		0.982 7763	9.997 6619		.060	
		728		736			8		
941	9.014 9584		9.017 2973		0.982 7027	9.997 6611	8	059	
942	9.015 0312	728	9.017 3709	736	0.982 6291	9.997 6603	8	058	
943	9.015 1041	729	9.017 4445	736	0.982 5555	9.997 6595	8	057	
		728		736			7		
944	9.015 1769		9.017 5181		0.982 4819	9.997 6588	8	056	
945	9.015 2497	728	9.017 5917	736	0.982 4083	9.997 6580	8	055	
946	9.015 3225	728	9.017 6653	736	0.982 3347	9.997 6572	8	054	
		727		735			8		
947	9.015 3952		9.017 7388		0.982 2612	9.997 6564		053	
948	9.015 4680	728	9.017 8124	736	0.982 1876	9.997 6556	8	052	
949	9.015 5407	727	9.017 8859	735	0.982 1141	9.997 6548	8	051	
		728		735			8		
.950	9.015 6135		9.017 9594		0.982 0406	9.997 6540		.050	
	cos	d	cotg	d	tang	sin	d	84°	P.P.

	742	741	740
1	74.2	74.1	74.0
2	148.4	148.2	148.0
3	222.6	222.3	222.0
4	296.8	296.4	296.0
5	371.0	370.5	370.0
6	445.2	444.6	444.0
7	519.4	518.7	518.0
8	593.6	592.8	592.0
9	667.8	666.9	666.0

	739	738	737
1	73.9	73.8	73.7
2	147.8	147.6	147.4
3	221.7	221.4	221.1
4	295.6	295.2	294.8
5	369.5	369.0	368.5
6	443.4	442.8	442.2
7	517.3	516.6	515.9
8	591.2	590.4	589.6
9	665.1	664.2	663.3

	736	735	734
1	73.6	73.5	73.4
2	147.2	147.0	146.8
3	220.8	220.5	220.2
4	294.4	294.0	293.6
5	368.0	367.5	367.0
6	441.6	441.0	440.4
7	515.2	514.5	513.8
8	588.8	588.0	587.2
9	662.4	661.5	660.6

	733	732	731
1	73.3	73.2	73.1
2	146.6	146.4	146.2
3	219.9	219.6	219.3
4	293.2	292.8	292.4
5	366.5	366.0	365.5
6	439.8	439.2	438.6
7	513.1	512.4	511.7
8	586.4	585.6	584.8
9	659.7	658.8	657.9

	730	729	728
1	73.0	72.9	72.8
2	146.0	145.8	145.6
3	219.0	218.7	218.4
4	292.0	291.6	291.2
5	365.0	364.5	364.0
6	438.0	437.4	436.8
7	511.0	510.3	509.6
8	584.0	583.2	582.4
9	657.0	656.1	655.2

	727
1	72.7
2	145.4
3	218.1
4	290.8
5	363.5
6	436.2
7	508.9
8	581.6
9	654.3

84°.100 — 84°.050

5°.950 — 6°.000

5°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.015 6135		9.017 9594		0.982 0406	9.997 6540		**.050**	
		727		736			8		
951	9.015 6862		9.018 0330		0.981 9670	9.997 6532		049	
952	9.015 7589	727	9.018 1065	735	0.981 8935	9.997 6524	8	048	
953	9.015 8316	727	9.018 1799	734	0.981 8201	9.997 6516	8	047	
		727		735			7		
954	9.015 9043		9.018 2534		0.981 7466	9.997 6509		046	
955	9.015 9770	727	9.018 3269	735	0.981 6731	9.997 6501	8	045	
956	9.016 0496	726	9.018 4003	734	0.981 5997	9.997 6493	8	044	
		727		735			8		
957	9.016 1223		9.018 4738		0.981 5262	9.997 6485		043	
958	9.016 1949	726	9.018 5472	734	0.981 4528	9.997 6477	8	042	
959	9.016 2675	726	9.018 6206	734	0.981 3794	9.997 6469	8	041	
		726		734			8		
.960	9.016 3401		9.018 6940		0.981 3060	9.997 6461		**.040**	
		726		734			8		
961	9.016 4127		9.018 7674		0.981 2326	9.997 6453		039	
962	9.016 4853	726	9.018 8408	734	0.981 1592	9.997 6445	8	038	
963	9.016 5579	726	9.018 9142	734	0.981 0858	9.997 6437	8	037	
		726		733			8		
964	9.016 6305		9.018 9875		0.981 0125	9.997 6429		036	
965	9.016 7030	725	9.019 0609	734	0.980 9391	9.997 6422	7	035	
966	9.016 7755	725	9.019 1342	733	0.980 8658	9.997 6414	8	034	
		726		733			8		
967	9.016 8481		9.019 2075		0.980 7925	9.997 6406		033	
968	9.016 9206	725	9.019 2808	733	0.980 7192	9.997 6398	8	032	
969	9.016 9931	725	9.019 3541	733	0.980 6459	9.997 6390	8	031	
		725		733			8		
.970	9.017 0656		9.019 4274		0.980 5726	9.997 6382		**.030**	
		724		733			8		
971	9.017 1380		9.019 5007		0.980 4993	9.997 6374		029	
972	9.017 2105	725	9.019 5739	732	0.980 4261	9.997 6366	8	028	
973	9.017 2830	725	9.019 6472	733	0.980 3528	9.997 6358	8	027	
		724		732			8		
974	9.017 3554		9.019 7204		0.980 2796	9.997 6350		026	
975	9.017 4278	724	9.019 7936	732	0.980 2064	9.997 6342	8	025	
976	9.017 5002	724	9.019 8668	732	0.980 1332	9.997 6334	8	024	
		724		732			8		
977	9.017 5726		9.019 9400		0.980 0600	9.997 6326		023	
978	9.017 6450	724	9.020 0132	732	0.979 9868	9.997 6318	8	022	
979	9.017 7174	724	9.020 0864	732	0.979 9136	9.997 6310	8	021	
		724		731			7		
.980	9.017 7898		9.020 1595		0.979 8405	9.997 6303		**.020**	
		723		732			8		
981	9.017 8621		9.020 2327		0.979 7673	9.997 6295		019	
982	9.017 9345	724	9.020 3058	731	0.979 6942	9.997 6287	8	018	
983	9.018 0068	723	9.020 3789	731	0.979 6211	9.997 6279	8	017	
		723		732			8		
984	9.018 0791		9.020 4521		0.979 5479	9.997 6271		016	
985	9.018 1514	723	9.020 5252	731	0.979 4748	9.997 6263	8	015	
986	9.018 2237	723	9.020 5982	730	0.979 4018	9.997 6255	8	014	
		723		731			8		
987	9.018 2960		9.020 6713		0.979 3287	9.997 6247		013	
988	9.018 3683	723	9.020 7444	731	0.979 2556	9.997 6239	8	012	
989	9.018 4405	722	9.020 8174	730	0.979 1826	9.997 6231	8	011	
		723		731			8		
.990	9.018 5128		9.020 8905		0.979 1095	9.997 6223		**.010**	
		722		730			8		
991	9.018 5850		9.020 9635		0.979 0365	9.997 6215		009	
992	9.018 6572	722	9.021 0365	730	0.978 9635	9.997 6207	8	008	
993	9.018 7294	722	9.021 1095	730	0.978 8905	9.997 6199	8	007	
		722		730			8		
994	9.018 8016		9.021 1825		0.978 8175	9.997 6191		006	
995	9.018 8738	722	9.021 2555	730	0.978 7445	9.997 6183	8	005	
996	9.018 9460	722	9.021 3285	730	0.978 6715	9.997 6175	8	004	
		722		729			8		
997	9.019 0182		9.021 4014		0.978 5986	9.997 6167		003	
998	9.019 0903	721	9.021 4744	730	0.978 5256	9.997 6159	8	002	
999	9.019 1624	721	9.021 5473	729	0.978 4527	9.997 6151	8	001	
		722		729			8		
***000**	9.019 2346		9.021 6202		0.978 3798	9.997 6143		**.000**	
	cos	d	cotg	d	tang	sin	d	**84°**	P.P.

	736	735	734
1	73.6	73.5	73.4
2	147.2	147.0	146.8
3	220.8	220.5	220.2
4	294.4	294.0	293.6
5	368.0	367.5	367.0
6	441.6	441.0	440.4
7	515.2	514.5	513.8
8	588.8	588.0	587.2
9	662.4	661.5	660.6

	733	732	731
1	73.3	73.2	73.1
2	146.6	146.4	146.2
3	219.9	219.6	219.3
4	293.2	292.8	292.4
5	366.5	366.0	365.5
6	439.8	439.2	438.6
7	513.1	512.4	511.7
8	586.4	585.6	584.8
9	659.7	658.8	657.9

	730	729	727
1	73.0	72.9	72.7
2	146.0	145.8	145.4
3	219.0	218.7	218.1
4	292.0	291.6	290.8
5	365.0	364.5	363.5
6	438.0	437.4	436.2
7	511.0	510.3	508.9
8	584.0	583.2	581.6
9	657.0	656.1	654.3

	726	725	724
1	72.6	72.5	72.4
2	145.2	145.0	144.8
3	217.8	217.5	217.2
4	290.4	290.0	289.6
5	363.0	362.5	362.0
6	435.6	435.0	434.4
7	508.2	507.5	506.8
8	580.8	580.0	579.2
9	653.4	652.5	651.6

	723	722	721
1	72.3	72.2	72.1
2	144.6	144.4	144.2
3	216.9	216.6	216.3
4	289.2	288.8	288.4
5	361.5	361.0	360.5
6	433.8	433.2	432.6
7	506.1	505.4	504.7
8	578.4	577.6	576.8
9	650.7	649.8	648.9

84°.050 — 84°.000

$6^\circ.000 - 6^\circ.050$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.019 2346		9.021 6202		0.978 3798	9.997 6143		***000**	
		721		729			7		
001	9.019 3067		9.021 6931		0.978 3069	9.997 6136	8	999	
002	9.019 3788	721	9.021 7660	729	0.978 2340	9.997 6128	8	998	
003	9.019 4509	721	9.021 8389	729	0.978 1611	9.997 6120	8	997	
		720		729			8		
004	9.019 5229		9.021 9118		0.978 0882	9.997 6112		996	
005	9.019 5950	721	9.021 9846	728	0.978 0154	9.997 6104	8	995	
006	9.019 6671	721	9.022 0575	729	0.977 9425	9.997 6096	8	994	
		720		728			8		
007	9.019 7391		9.022 1303		0.977 8697	9.997 6088		993	
008	9.019 8111	720	9.022 2031	728	0.977 7969	9.997 6080	8	992	
009	9.019 8831	720	9.022 2760	729	0.977 7240	9.997 6072	8	991	
		720		728			8		
.010	9.019 9551		9.022 3488		0.977 6512	9.997 6064		**.990**	
		720		728			8		
011	9.020 0271		9.022 4216		0.977 5784	9.997 6056		989	
012	9.020 0991	720	9.022 4943	727	0.977 5057	9.997 6048	8	988	
013	9.020 1711	720	9.022 5671	728	0.977 4329	9.997 6040	8	987	
		719		727			8		
014	9.020 2430		9.022 6398		0.977 3602	9.997 6032		986	
015	9.020 3150	720	9.022 7126	728	0.977 2874	9.997 6024	8	985	
016	9.020 3869	719	9.022 7853	727	0.977 2147	9.997 6016	8	984	
		719		727			8		
017	9.020 4588		9.022 8580		0.977 1420	9.997 6008		983	
018	9.020 5307	719	9.022 9307	727	0.977 0693	9.997 6000	8	982	
019	9.020 6026	719	9.023 0034	727	0.976 9966	9.997 5992	8	981	
		719		727			8		
.020	9.020 6745		9.023 0761		0.976 9239	9.997 5984		**.980**	
		719		727			8		
021	9.020 7464		9.023 1488		0.976 8512	9.997 5976		979	
022	9.020 8182	718	9.023 2214	726	0.976 7786	9.997 5968	8	978	
023	9.020 8901	719	9.023 2941	727	0.976 7059	9.997 5960	8	977	
		718		726			8		
024	9.020 9619		9.023 3667		0.976 6333	9.997 5952		976	
025	9.021 0337	718	9.023 4393	726	0.976 5607	9.997 5944	8	975	
026	9.021 1055	718	9.023 5120	727	0.976 4880	9.997 5936	8	974	
		718		726			8		
027	9.021 1773		9.023 5846		0.976 4154	9.997 5928		973	
028	9.021 2491	718	9.023 6571	725	0.976 3429	9.997 5920	8	972	
029	9.021 3209	718	9.023 7297	726	0.976 2703	9.997 5912	8	971	
		718		726			8		
.030	9.021 3927		9.023 8023		0.976 1977	9.997 5904		**.970**	
		717		725			8		
031	9.021 4644		9.023 8748		0.976 1252	9.997 5896		969	
032	9.021 5362	718	9.023 9474	726	0.976 0526	9.997 5888	8	968	
033	9.021 6079	717	9.024 0199	725	0.975 9801	9.997 5880	8	967	
		717		725			8		
034	9.021 6796		9.024 0924		0.975 9076	9.997 5872		966	
035	9.021 7513	717	9.024 1649	725	0.975 8351	9.997 5864	8	965	
036	9.021 8230	717	9.024 2374	725	0.975 7626	9.997 5856	8	964	
		717		725			8		
037	9.021 8947		9.024 3099		0.975 6901	9.997 5848		963	
038	9.021 9663	716	9.024 3824	725	0.975 6176	9.997 5840	8	962	
039	9.022 0380	717	9.024 4548	724	0.975 5452	9.997 5832	8	961	
		716		725			8		
.040	9.022 1096		9.024 5273		0.975 4727	9.997 5824		**.960**	
		717		724			8		
041	9.022 1813		9.024 5997		0.975 4003	9.997 5816		959	
042	9.022 2529	716	9.024 6721	724	0.975 3279	9.997 5808	8	958	
043	9.022 3245	716	9.024 7445	724	0.975 2555	9.997 5800	8	957	
		716		724			8		
044	9.022 3961		9.024 8169		0.975 1831	9.997 5792		956	
045	9.022 4677	716	9.024 8893	724	0.975 1107	9.997 5784	8	955	
046	9.022 5392	715	9.024 9617	724	0.975 0383	9.997 5776	8	954	
		716		723			8		
047	9.022 6108		9.025 0340		0.974 9660	9.997 5768		953	
048	9.022 6823	715	9.025 1064	724	0.974 8936	9.997 5760	8	952	
049	9.022 7539	716	9.025 1787	723	0.974 8213	9.997 5752	8	951	
		715		723			9		
.050	9.022 8254		9.025 2510		0.974 7490	9.997 5743		**.950**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	729	728	727
1	72.9	72.8	72.7
2	145.8	145.6	145.4
3	218.7	218.4	218.1
4	291.6	291.2	290.8
5	364.5	364.0	363.5
6	437.4	436.8	436.2
7	510.3	509.6	508.9
8	583.2	582.4	581.6
9	656.1	655.2	654.3

	726	725	724
1	72.6	72.5	72.4
2	145.2	145.0	144.8
3	217.8	217.5	217.2
4	290.4	290.0	289.6
5	363.0	362.5	362.0
6	435.6	435.0	434.4
7	508.2	507.5	506.8
8	580.8	580.0	579.2
9	653.4	652.5	651.6

	723	721	720
1	72.3	72.1	72.0
2	144.6	144.2	144.0
3	216.9	216.3	216.0
4	289.2	288.4	288.0
5	361.5	360.5	360.0
6	433.8	432.6	432.0
7	506.1	504.7	504.0
8	578.4	576.8	576.0
9	650.7	648.9	648.0

	719	718	717
1	71.9	71.8	71.7
2	143.8	143.6	143.4
3	215.7	215.4	215.1
4	287.6	287.2	286.8
5	359.5	359.0	358.5
6	431.4	430.8	430.2
7	503.3	502.6	501.9
8	575.2	574.4	573.6
9	647.1	646.2	645.3

	716	715
1	71.6	71.5
2	143.2	143.0
3	214.8	214.5
4	286.4	286.0
5	358.0	357.5
6	429.6	429.0
7	501.2	500.5
8	572.8	572.0
9	644.4	643.5

$84^\circ.000 - 83^\circ.950$

$6^\circ.050 - 6^\circ.100$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.022 8254		9.025 2510		0.974 7490	9.997 5743		**.950**	
		715		724			8		
051	9.022 8969		9.025 3234		0.974 6766	9.997 5735	8	949	
052	9.022 9684	715	9.025 3957	723	0.974 6043	9.997 5727	8	948	
053	9.023 0399	715	9.025 4680	723	0.974 5320	9.997 5719	8	947	
		715		722			8		
054	9.023 1114		9.025 5402		0.974 4598	9.997 5711		946	
055	9.023 1828	714	9.025 6125	723	0.974 3875	9.997 5703	8	945	
056	9.023 2543	715	9.025 6848	723	0.974 3152	9.997 5695	8	944	
		714		722			8		
057	9.023 3257		9.025 7570		0.974 2430	9.997 5687		943	
058	9.023 3972	715	9.025 8292	722	0.974 1708	9.997 5679	8	942	
059	9.023 4686	714	9.025 9015	723	0.974 0985	9.997 5671	8	941	
		714		722			8		
.060	9.023 5400		9.025 9737		0.974 0263	9.997 5663		**.940**	
		714		722			8		
061	9.023 6114		9.026 0459		0.973 9541	9.997 5655		939	
062	9.023 6827	713	9.026 1180	721	0.973 8820	9.997 5647	8	938	
063	9.023 7541	714	9.026 1902	722	0.973 8098	9.997 5639	8	937	
		714		722			8		
064	9.023 8255		9.026 2624		0.973 7376	9.997 5631		936	
065	9.023 8968	713	9.026 3345	721	0.973 6655	9.997 5623	8	935	
066	9.023 9681	713	9.026 4067	722	0.973 5933	9.997 5615	8	934	
		714		721			8		
067	9.024 0395		9.026 4788		0.973 5212	9.997 5607		933	
068	9.024 1108	713	9.026 5509	721	0.973 4491	9.997 5599	8	932	
069	9.024 1821	713	9.026 6230	721	0.973 3770	9.997 5591	8	931	
		713		721			8		
.070	9.024 2534		9.026 6951		0.973 3049	9.997 5583		**.930**	
		712		721			9		
071	9.024 3246		9.026 7672		0.973 2328	9.997 5574	8	929	
072	9.024 3959	713	9.026 8393	721	0.973 1607	9.997 5566	8	928	
073	9.024 4671	712	9.026 9113	720	0.973 0887	9.997 5558	8	927	
		713		721			8		
074	9.024 5384		9.026 9834		0.973 0166	9.997 5550		926	
075	9.024 6096	712	9.027 0554	720	0.972 9446	9.997 5542	8	925	
076	9.024 6808	712	9.027 1274	720	0.972 8726	9.997 5534	8	924	
		712		720			8		
077	9.024 7520		9.027 1994		0.972 8006	9.997 5526		923	
078	9.024 8232	712	9.027 2714	720	0.972 7286	9.997 5518	8	922	
079	9.024 8944	712	9.027 3434	720	0.972 6566	9.997 5510	8	921	
		712		720			8		
.080	9.024 9656		9.027 4154		0.972 5846	9.997 5502		**.920**	
		711		719			8		
081	9.025 0367		9.027 4873		0.972 5127	9.997 5494		919	
082	9.025 1079	712	9.027 5593	720	0.972 4407	9.997 5486	8	918	
083	9.025 1790	711	9.027 6312	719	0.972 3688	9.997 5478	8	917	
		711		720			8		
084	9.025 2501		9.027 7032		0.972 2968	9.997 5470		916	
085	9.025 3212	711	9.027 7751	719	0.972 2249	9.997 5461	9	915	
086	9.025 3923	711	9.027 8470	719	0.972 1530	9.997 5453	8	914	
		711		719			8		
087	9.025 4634		9.027 9189		0.972 0811	9.997 5445		913	
088	9.025 5345	711	9.027 9908	719	0.972 0092	9.997 5437	8	912	
089	9.025 6055	710	9.028 0626	718	0.971 9374	9.997 5429	8	911	
		711		719			8		
.090	9.025 6766		9.028 1345		0.971 8655	9.997 5421		**.910**	
		710		718			8		
091	9.025 7476		9.028 2063		0.971 7937	9.997 5413		909	
092	9.025 8187	711	9.028 2782	719	0.971 7218	9.997 5405	8	908	
093	9.025 8897	710	9.028 3500	718	0.971 6500	9.997 5397	8	907	
		710		718			8		
094	9.025 9607		9.028 4218		0.971 5782	9.997 5389		906	
095	9.026 0317	710	9.028 4936	718	0.971 5064	9.997 5381	8	905	
096	9.026 1027	710	9.028 5654	718	0.971 4346	9.997 5373	8	904	
		709		718			9		
097	9.026 1736		9.028 6372		0.971 3628	9.997 5364		903	
098	9.026 2446	710	9.028 7089	717	0.971 2911	9.997 5356	8	902	
099	9.026 3155	709	9.028 7807	718	0.971 2193	9.997 5348	8	901	
		710		717			8		
.100	9.026 3865		9.028 8524		0.971 1476	9.997 5340		**.900**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	724	723	722
1	72.4	72.3	72.2
2	144.8	144.6	144.4
3	217.2	216.9	216.6
4	289.6	289.2	288.8
5	362.0	361.5	361.0
6	434.4	433.8	433.2
7	506.8	506.1	505.4
8	579.2	578.4	577.6
9	651.6	650.7	649.8

	721	720	719
1	72.1	72.0	71.9
2	144.2	144.0	143.8
3	216.3	216.0	215.7
4	288.4	288.0	287.6
5	360.5	360.0	359.5
6	432.6	432.0	431.4
7	504.7	504.0	503.3
8	576.8	576.0	575.2
9	648.9	648.0	647.1

	718	717	715
1	71.8	71.7	71.5
2	143.6	143.4	143.0
3	215.4	215.1	214.5
4	287.2	286.8	286.0
5	359.0	358.5	357.5
6	430.8	430.2	429.0
7	502.6	501.9	500.5
8	574.4	573.6	572.0
9	646.2	645.3	643.5

	714	713	712
1	71.4	71.3	71.2
2	142.8	142.6	142.4
3	214.2	213.9	213.6
4	285.6	285.2	284.8
5	357.0	356.5	356.0
6	428.4	427.8	427.2
7	499.8	499.1	498.4
8	571.2	570.4	569.6
9	642.6	641.7	640.8

	711	710	709
1	71.1	71.0	70.9
2	142.2	142.0	141.8
3	213.3	213.0	212.7
4	284.4	284.0	283.6
5	355.5	355.0	354.5
6	426.6	426.0	425.4
7	497.7	497.0	496.3
8	568.8	568.0	567.2
9	639.9	639.0	638.1

$83^\circ.950 - 83^\circ.900$

$6^\circ.100 - 6^\circ.150$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.026 3865		9.028 8524		0.971 1476	9.997 5340		**.900**	
		709		718			8		
101	9.026 4574		9.028 9242		0.971 0758	9.997 5332		899	
102	9.026 5283	709	9.028 9959	717	0.971 0041	9.997 5324	8	898	
103	9.026 5992	709	9.029 0676	717	0.970 9324	9.997 5316	8	897	
		709		717			8		
104	9.026 6701		9.029 1393		0.970 8607	9.997 5308		896	
105	9.026 7409	708	9.029 2110	717	0.970 7890	9.997 5300	8	895	
106	9.026 8118	709	9.029 2827	717	0.970 7173	9.997 5291	9	894	
		709		716			8		
107	9.026 8827		9.029 3543		0.970 6457	9.997 5283		893	
108	9.026 9535	708	9.029 4260	717	0.970 5740	9.997 5275	8	892	
109	9.027 0243	708	9.029 4976	716	0.970 5024	9.997 5267	8	891	
		708		716			8		
.110	9.027 0951		9.029 5692		0.970 4308	9.997 5259		**.890**	
		708		716			8		
111	9.027 1659		9.029 6408		0.970 3592	9.997 5251		889	
112	9.027 2367	708	9.029 7124	716	0.970 2876	9.997 5243	8	888	
113	9.027 3075	708	9.029 7840	716	0.970 2160	9.997 5235	8	887	
		708		716			8		
114	9.027 3783		9.029 8556		0.970 1444	9.997 5227		886	
115	9.027 4490	707	9.029 9272	716	0.970 0728	9.997 5218	9	885	
116	9.027 5198	708	9.029 9987	715	0.970 0013	9.997 5210	8	884	
		707		716			8		
117	9.027 5905		9.030 0703		0.969 9297	9.997 5202		883	
118	9.027 6612	707	9.030 1418	715	0.969 8582	9.997 5194	8	882	
119	9.027 7319	707	9.030 2133	715	0.969 7867	9.997 5186	8	881	
		707		716			8		
.120	9.027 8026		9.030 2849		0.969 7151	9.997 5178		**.880**	
		707		715			8		
121	9.027 8733		9.030 3564		0.969 6436	9.997 5170		879	
122	9.027 9440	707	9.030 4278	714	0.969 5722	9.997 5162	8	878	
123	9.028 0147	707	9.030 4993	715	0.969 5007	9.997 5153	9	877	
		706		715			8		
124	9.028 0853		9.030 5708		0.969 4292	9.997 5145		876	
125	9.028 1560	707	9.030 6422	714	0.969 3578	9.997 5137	8	875	
126	9.028 2266	706	9.030 7137	715	0.969 2863	9.997 5129	8	874	
		706		714			8		
127	9.028 2972		9.030 7851		0.969 2149	9.997 5121		873	
128	9.028 3678	706	9.030 8565	714	0.969 1435	9.997 5113	8	872	
129	9.028 4384	706	9.030 9279	714	0.969 0721	9.997 5105	8	871	
		706		714			8		
.130	9.028 5090		9.030 9993		0.969 0007	9.997 5097		**.870**	
		706		714			9		
131	9.028 5796		9.031 0707		0.968 9293	9.997 5088		869	
132	9.028 6501	705	9.031 1421	714	0.968 8579	9.997 5080	8	868	
133	9.028 7207	706	9.031 2135	714	0.968 7865	9.997 5072	8	867	
		705		713			8		
134	9.028 7912		9.031 2848		0.968 7152	9.997 5064		866	
135	9.028 8617	705	9.031 3562	714	0.968 6438	9.997 5056	8	865	
136	9.028 9322	705	9.031 4275	713	0.968 5725	9.997 5048	8	864	
		705		713			9		
137	9.029 0027		9.031 4988		0.968 5012	9.997 5039		863	
138	9.029 0732	705	9.031 5701	713	0.968 4299	9.997 5031	8	862	
139	9.029 1437	705	9.031 6414	713	0.968 3586	9.997 5023	8	861	
		705		713			8		
.140	9.029 2142		9.031 7127		0.968 2873	9.997 5015		**.860**	
		704		713			8		
141	9.029 2846		9.031 7840		0.968 2160	9.997 5007		859	
142	9.029 3551	705	9.031 8552	712	0.968 1448	9.997 4999	8	858	
143	9.029 4255	704	9.031 9265	713	0.968 0735	9.997 4991	8	857	
		704		712			9		
144	9.029 4959		9.031 9977		0.968 0023	9.997 4982		856	
145	9.029 5663	704	9.032 0689	712	0.967 9311	9.997 4974	8	855	
146	9.029 6367	704	9.032 1401	712	0.967 8599	9.997 4966	8	854	
		704		712			8		
147	9.029 7071		9.032 2113		0.967 7887	9.997 4958		853	
148	9.029 7775	704	9.032 2825	712	0.967 7175	9.997 4950	8	852	
149	9.029 8479	704	9.032 3537	712	0.967 6463	9.997 4942	8	851	
		703		712			9		
.150	9.029 9182		9.032 4249		0.967 5751	9.997 4933		**.850**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	718	717	716
1	71.8	71.7	71.6
2	143.6	143.4	143.2
3	215.4	215.1	214.8
4	287.2	286.8	286.4
5	359.0	358.5	358.0
6	430.8	430.2	429.6
7	502.6	501.9	501.2
8	574.4	573.6	572.8
9	646.2	645.3	644.4

	715	714	713
1	71.5	71.4	71.3
2	143.0	142.8	142.6
3	214.5	214.2	213.9
4	286.0	285.6	285.2
5	357.5	357.0	356.5
6	429.0	428.4	427.8
7	500.5	499.8	499.1
8	572.0	571.2	570.4
9	643.5	642.6	641.7

	712	709	708
1	71.2	70.9	70.8
2	142.4	141.8	141.6
3	213.6	212.7	212.4
4	284.8	283.6	283.2
5	356.0	354.5	354.0
6	427.2	425.4	424.8
7	498.4	496.3	495.6
8	569.6	567.2	566.4
9	640.8	638.1	637.2

	707	706	705
1	70.7	70.6	70.5
2	141.4	141.2	141.0
3	212.1	211.8	211.5
4	282.8	282.4	282.0
5	353.5	353.0	352.5
6	424.2	423.6	423.0
7	494.9	494.2	493.5
8	565.6	564.8	564.0
9	636.3	635.4	634.5

	704	703
1	70.4	70.3
2	140.8	140.6
3	211.2	210.9
4	281.6	281.2
5	352.0	351.5
6	422.4	421.8
7	492.8	492.1
8	563.2	562.4
9	633.6	632.7

$83^\circ.900 - 83^\circ.850$

6°.150 — 6°.200

6°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.029 9182		9.032 4249		0.967 5751	9.997 4933		.850	
		704		711			8		
151	9.029 9886		9.032 4960		0.967 5040	9.997 4925		849	
152	9.030 0589	703	9.032 5672	712	0.967 4328	9.997 4917	8	848	
153	9.030 1292	703	9.032 6383	711	0.967 3617	9.997 4909	8	847	
		703		711			8		
154	9.030 1995		9.032 7094		0.967 2906	9.997 4901		846	
155	9.030 2698	703	9.032 7805	711	0.967 2195	9.997 4893	8	845	
156	9.030 3401	703	9.032 8516	711	0.967 1484	9.997 4884	9	844	
		703		711			8		
157	9.030 4104		9.032 9227		0.967 0773	9.997 4876		843	
158	9.030 4806	702	9.032 9938	711	0.967 0062	9.997 4868	8	842	
159	9.030 5509	703	9.033 0649	711	0.966 9351	9.997 4860	8	841	
		702		710			8		
.160	9.030 6211		9.033 1359		0.966 8641	9.997 4852		.840	
		702		711			8		
161	9.030 6913		9.033 2070		0.966 7930	9.997 4844		839	
162	9.030 7615	702	9.033 2780	710	0.966 7220	9.997 4835	9	838	
163	9.030 8317	702	9.033 3490	710	0.966 6510	9.997 4827	8	837	
		702		710			8		
164	9.030 9019		9.033 4200		0.966 5800	9.997 4819		836	
165	9.030 9721	702	9.033 4910	710	0.966 5090	9.997 4811	8	835	
166	9.031 0423	702	9.033 5620	710	0.966 4380	9.997 4803	8	834	
		701		710			9		
167	9.031 1124		9.033 6330		0.966 3670	9.997 4794		833	
168	9.031 1826	702	9.033 7040	710	0.966 2960	9.997 4786	8	832	
169	9.031 2527	701	9.033 7749	709	0.966 2251	9.997 4778	8	831	
		701		709			8		
.170	9.031 3228		9.033 8458		0.966 1542	9.997 4770		.830	
		701		710			8		
171	9.031 3929		9.033 9168		0.966 0832	9.997 4762		829	
172	9.031 4630	701	9.033 9877	709	0.966 0123	9.997 4753	9	828	
173	9.031 5331	701	9.034 0586	709	0.965 9414	9.997 4745	8	827	
		701		709			8		
174	9.031 6032		9.034 1295		0.965 8705	9.997 4737		826	
175	9.031 6733	701	9.034 2004	709	0.965 7996	9.997 4729	8	825	
176	9.031 7433	700	9.034 2713	709	0.965 7287	9.997 4721	8	824	
		701		708			9		
177	9.031 8134		9.034 3421		0.965 6579	9.997 4712		823	
178	9.031 8834	700	9.034 4130	709	0.965 5870	9.997 4704	8	822	
179	9.031 9534	700	9.034 4838	708	0.965 5162	9.997 4696	8	821	
		700		708			8		
.180	9.032 0234		9.034 5546		0.965 4454	9.997 4688		.820	
		700		709			8		
181	9.032 0934		9.034 6255		0.965 3745	9.997 4680		819	
182	9.032 1634	700	9.034 6963	708	0.965 3037	9.997 4671	9	818	
183	9.032 2334	700	9.034 7670	707	0.965 2330	9.997 4663	8	817	
		699		708			8		
184	9.032 3033		9.034 8378		0.965 1622	9.997 4655		816	
185	9.032 3733	700	9.034 9086	708	0.965 0914	9.997 4647	8	815	
186	9.032 4432	699	9.034 9794	708	0.965 0206	9.997 4639	8	814	
		699		707			9		
187	9.032 5131		9.035 0501		0.964 9499	9.997 4630		813	
188	9.032 5831	700	9.035 1209	708	0.964 8791	9.997 4622	8	812	
189	9.032 6530	699	9.035 1916	707	0.964 8084	9.997 4614	8	811	
		699		707			8		
.190	9.032 7229		9.035 2623		0.964 7377	9.997 4606		.810	
		698		707			9		
191	9.032 7927		9.035 3330		0.964 6670	9.997 4597		809	
192	9.032 8626	699	9.035 4037	707	0.964 5963	9.997 4589	8	808	
193	9.032 9325	699	9.035 4744	707	0.964 5256	9.997 4581	8	807	
		698		706			8		
194	9.033 0023		9.035 5450		0.964 4550	9.997 4573		806	
195	9.033 0722	699	9.035 6157	707	0.964 3843	9.997 4565	8	805	
196	9.033 1420	698	9.035 6863	706	0.964 3137	9.997 4556	9	804	
		698		707			8		
197	9.033 2118		9.035 7570		0.964 2430	9.997 4548		803	
198	9.033 2816	698	9.035 8276	706	0.964 1724	9.997 4540	8	802	
199	9.033 3514	698	9.035 8982	706	0.964 1018	9.997 4532	8	801	
		698		706			9		
.200	9.033 4212		9.035 9688		0.964 0312	9.997 4523		.800	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	712	711	710
1	71.2	71.1	71.0
2	142.4	142.2	142.0
3	213.6	213.3	213.0
4	284.8	284.4	284.0
5	356.0	355.5	355.0
6	427.2	426.6	426.0
7	498.4	497.7	497.0
8	569.6	568.8	568.0
9	640.8	639.9	639.0

	709	708	707
1	70.9	70.8	70.7
2	141.8	141.6	141.4
3	212.7	212.4	212.1
4	283.6	283.2	282.8
5	354.5	354.0	353.5
6	425.4	424.8	424.2
7	496.3	495.6	494.9
8	567.2	566.4	565.6
9	638.1	637.2	636.3

	706	704	703
1	70.6	70.4	70.3
2	141.2	140.8	140.6
3	211.8	211.2	210.9
4	282.4	281.6	281.2
5	353.0	352.0	351.5
6	423.6	422.4	421.8
7	494.2	492.8	492.1
8	564.8	563.2	562.4
9	635.4	633.6	632.7

	702	701	700
1	70.2	70.1	70.0
2	140.4	140.2	140.0
3	210.6	210.3	210.0
4	280.8	280.4	280.0
5	351.0	350.5	350.0
6	421.2	420.6	420.0
7	491.4	490.7	490.0
8	561.6	560.8	560.0
9	631.8	630.9	630.0

	699	698
1	69.9	69.8
2	139.8	139.6
3	209.7	209.4
4	279.6	279.2
5	349.5	349.0
6	419.4	418.8
7	489.3	488.6
8	559.2	558.4
9	629.1	628.2

83°.850 — 83°.800

$6^\circ.200 - 6^\circ.250$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.033 4212		9.035 9688		0.964 0312	9.997 4523		**.800**	
		697		706			8		
201	9.033 4909		9.036 0394		0.963 9606	9.997 4515		799	
202	9.033 5607	698	9.036 1100	706	0.963 8900	9.997 4507	8	798	
203	9.033 6304	697	9.036 1806	706	0.963 8194	9.997 4499	8	797	
		698		705			9		
204	9.033 7002		9.036 2511		0.963 7489	9.997 4490		796	
205	9.033 7699	697	9.036 3217	706	0.963 6783	9.997 4482	8	795	
206	9.033 8396	697	9.036 3922	705	0.963 6078	9.997 4474	8	794	
		697		705			8		
207	9.033 9093		9.036 4627		0.963 5373	9.997 4466		793	
208	9.033 9790	697	9.036 5332	705	0.963 4668	9.997 4457	9	792	
209	9.034 0487	697	9.036 6037	705	0.963 3963	9.997 4449	8	791	
		696		705			8		
.210	9.034 1183		9.036 6742		0.963 3258	9.997 4441		**.790**	
		697		705			8		
211	9.034 1880		9.036 7447		0.963 2553	9.997 4433		789	
212	9.034 2576	696	9.036 8152	705	0.963 1848	9.997 4424	9	788	
213	9.034 3273	697	9.036 8856	704	0.963 1144	9.997 4416	8	787	
		696		705			8		
214	9.034 3969		9.036 9561		0.963 0439	9.997 4408		786	
215	9.034 4665	696	9.037 0265	704	0.962 9735	9.997 4400	8	785	
216	9.034 5361	696	9.037 0970	705	0.962 9030	9.997 4391	9	784	
		696		704			8		
217	9.034 6057		9.037 1674		0.962 8326	9.997 4383		783	
218	9.034 6753	696	9.037 2378	704	0.962 7622	9.997 4375	8	782	
219	9.034 7448	695	9.037 3082	704	0.962 6918	9.997 4367	8	781	
		696		703			9		
.220	9.034 8144		9.037 3785		0.962 6215	9.997 4358		**.780**	
		695		704			8		
221	9.034 8839		9.037 4489		0.962 5511	9.997 4350		779	
222	9.034 9535	696	9.037 5193	704	0.962 4807	9.997 4342	8	778	
223	9.035 0230	695	9.037 5896	703	0.962 4104	9.997 4334	8	777	
		695		703			9		
224	9.035 0925		9.037 6599		0.962 3401	9.997 4325		776	
225	9.035 1620	695	9.037 7303	704	0.962 2697	9.997 4317	8	775	
226	9.035 2315	695	9.037 8006	703	0.962 1994	9.997 4309	8	774	
		694		703			8		
227	9.035 3009		9.037 8709		0.962 1291	9.997 4301		773	
228	9.035 3704	695	9.037 9412	703	0.962 0588	9.997 4292	9	772	
229	9.035 4399	695	9.038 0115	703	0.961 9885	9.997 4284	8	771	
		694		702			8		
.230	9.035 5093		9.038 0817		0.961 9183	9.997 4276		**.770**	
		694		703			9		
231	9.035 5787		9.038 1520		0.961 8480	9.997 4267		769	
232	9.035 6481	694	9.038 2222	702	0.961 7778	9.997 4259	8	768	
233	9.035 7175	694	9.038 2925	703	0.961 7075	9.997 4251	8	767	
		694		702			8		
234	9.035 7869		9.038 3627		0.961 6373	9.997 4243		766	
235	9.035 8563	694	9.038 4329	702	0.961 5671	9.997 4234	9	765	
236	9.035 9257	694	9.038 5031	702	0.961 4969	9.997 4226	8	764	
		694		702			8		
237	9.035 9951		9.038 5733		0.961 4267	9.997 4218		763	
238	9.036 0644	693	9.038 6435	702	0.961 3565	9.997 4210	8	762	
239	9.036 1338	694	9.038 7136	701	0.961 2864	9.997 4201	9	761	
		693		702			8		
.240	9.036 2031		9.038 7838		0.961 2162	9.997 4193		**.760**	
		693		701			8		
241	9.036 2724		9.038 8539		0.961 1461	9.997 4185		759	
242	9.036 3417	693	9.038 9241	702	0.961 0759	9.997 4176	9	758	
243	9.036 4110	693	9.038 9942	701	0.961 0058	9.997 4168	8	757	
		693		701			8		
244	9.036 4803		9.039 0643		0.960 9357	9.997 4160		756	
245	9.036 5496	693	9.039 1344	701	0.960 8656	9.997 4151	9	755	
246	9.036 6188	692	9.039 2045	701	0.960 7955	9.997 4143	8	754	
		693		701			8		
247	9.036 6881		9.039 2746		0.960 7254	9.997 4135		753	
248	9.036 7573	692	9.039 3447	701	0.960 6553	9.997 4127	8	752	
249	9.036 8265	692	9.039 4147	700	0.960 5853	9.997 4118	9	751	
		693		701			8		
.250	9.036 8958		9.039 4848		0.960 5152	9.997 4110		**.750**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	706	705	704
1	70.6	70.5	70.4
2	141.2	141.0	140.8
3	211.8	211.5	211.2
4	282.4	282.0	281.6
5	353.0	352.5	352.0
6	423.6	423.0	422.4
7	494.2	493.5	492.8
8	564.8	564.0	563.2
9	635.4	634.5	633.6

	703	702	701
1	70.3	70.2	70.1
2	140.6	140.4	140.2
3	210.9	210.6	210.3
4	281.2	280.8	280.4
5	351.5	351.0	350.5
6	421.8	421.2	420.6
7	492.1	491.4	490.7
8	562.4	561.6	560.8
9	632.7	631.8	630.9

	700	698	697
1	70.0	69.8	69.7
2	140.0	139.6	139.4
3	210.0	209.4	209.1
4	280.0	279.2	278.8
5	350.0	349.0	348.5
6	420.0	418.8	418.2
7	490.0	488.6	487.9
8	560.0	558.4	557.6
9	630.0	628.2	627.3

	696	695	694
1	69.6	69.5	69.4
2	139.2	139.0	138.8
3	208.8	208.5	208.2
4	278.4	278.0	277.6
5	348.0	347.5	347.0
6	417.6	417.0	416.4
7	487.2	486.5	485.8
8	556.8	556.0	555.2
9	626.4	625.5	624.6

	693	692
1	69.3	69.2
2	138.6	138.4
3	207.9	207.6
4	277.2	276.8
5	346.5	346.0
6	415.8	415.2
7	485.1	484.4
8	554.4	553.6
9	623.7	622.8

$83^\circ.800 - 83^\circ.750$

$6^\circ.250 - 6^\circ.300$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.036 8958	692	9.039 4848	700	0.960 5152	9.997 4110	8	**.750**	
251	9.036 9650	692	9.039 5548	700	0.960 4452	9.997 4102	9	749	
252	9.037 0342	691	9.039 6248	700	0.960 3752	9.997 4093	8	748	
253	9.037 1033	692	9.039 6948	700	0.960 3052	9.997 4085	8	747	
254	9.037 1725	692	9.039 7648	700	0.960 2352	9.997 4077	9	746	
255	9.037 2417	691	9.039 8348	700	0.960 1652	9.997 4068	8	745	
256	9.037 3108	692	9.039 9048	700	0.960 0952	9.997 4060	8	744	
257	9.037 3800	691	9.039 9748	699	0.960 0252	9.997 4052	8	743	
258	9.037 4491	691	9.040 0447	700	0.959 9553	9.997 4044	9	742	
259	9.037 5182	691	9.040 1147	699	0.959 8853	9.997 4035	8	741	
.260	9.037 5873	691	9.040 1846	699	0.959 8154	9.997 4027	8	**.740**	
261	9.037 6564	691	9.040 2545	700	0.959 7455	9.997 4019	9	739	
262	9.037 7255	691	9.040 3245	699	0.959 6755	9.997 4010	8	738	
263	9.037 7946	690	9.040 3944	699	0.959 6056	9.997 4002	8	737	
264	9.037 8636	691	9.040 4643	698	0.959 5357	9.997 3994	9	736	
265	9.037 9327	690	9.040 5341	699	0.959 4659	9.997 3985	8	735	
266	9.038 0017	690	9.040 6040	699	0.959 3960	9.997 3977	8	734	
267	9.038 0707	691	9.040 6739	698	0.959 3261	9.997 3969	9	733	
268	9.038 1398	690	9.040 7437	699	0.959 2563	9.997 3960	8	732	
269	9.038 2088	690	9.040 8136	698	0.959 1864	9.997 3952	8	731	
.270	9.038 2778	689	9.040 8834	698	0.959 1166	9.997 3944	9	**.730**	
271	9.038 3467	690	9.040 9532	698	0.959 0468	9.997 3935	8	729	
272	9.038 4157	690	9.041 0230	698	0.958 9770	9.997 3927	8	728	
273	9.038 4847	689	9.041 0928	698	0.958 9072	9.997 3919	9	727	
274	9.038 5536	690	9.041 1626	698	0.958 8374	9.997 3910	8	726	
275	9.038 6226	689	9.041 2324	697	0.958 7676	9.997 3902	8	725	
276	9.038 6915	689	9.041 3021	698	0.958 6979	9.997 3894	9	724	
277	9.038 7604	689	9.041 3719	697	0.958 6281	9.997 3885	8	723	
278	9.038 8293	689	9.041 4416	697	0.958 5584	9.997 3877	8	722	
279	9.038 8982	689	9.041 5113	698	0.958 4887	9.997 3869	9	721	
.280	9.038 9671	689	9.041 5811	697	0.958 4189	9.997 3860	8	**.720**	
281	9.039 0360	688	9.041 6508	697	0.958 3492	9.997 3852	8	719	
282	9.039 1048	689	9.041 7205	696	0.958 2795	9.997 3844	9	718	
283	9.039 1737	688	9.041 7901	697	0.958 2099	9.997 3835	8	717	
284	9.039 2425	688	9.041 8598	697	0.958 1402	9.997 3827	8	716	
285	9.039 3113	689	9.041 9295	696	0.958 0705	9.997 3819	9	715	
286	9.039 3802	688	9.041 9991	697	0.958 0009	9.997 3810	8	714	
287	9.039 4490	688	9.042 0688	696	0.957 9312	9.997 3802	8	713	
288	9.039 5178	687	9.042 1384	696	0.957 8616	9.997 3794	9	712	
289	9.039 5865	688	9.042 2080	696	0.957 7920	9.997 3785	8	711	
.290	9.039 6553	688	9.042 2776	696	0.957 7224	9.997 3777	8	**.710**	
291	9.039 7241	687	9.042 3472	696	0.957 6528	9.997 3769	9	709	
292	9.039 7928	688	9.042 4168	696	0.957 5832	9.997 3760	8	708	
293	9.039 8616	687	9.042 4864	696	0.957 5136	9.997 3752	9	707	
294	9.039 9303	687	9.042 5560	695	0.957 4440	9.997 3743	8	706	
295	9.039 9990	687	9.042 6255	696	0.957 3745	9.997 3735	8	705	
296	9.040 0677	687	9.042 6951	695	0.957 3049	9.997 3727	9	704	
297	9.040 1364	687	9.042 7646	695	0.957 2354	9.997 3718	8	703	
298	9.040 2051	687	9.042 8341	695	0.957 1659	9.997 3710	8	702	
299	9.040 2738	686	9.042 9036	695	0.957 0964	9.997 3702	9	701	
.300	9.040 3424		9.042 9731		0.957 0269	9.997 3693		**.700**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	700	699	698
1	70.0	69.9	69.8
2	140.0	139.8	139.6
3	210.0	209.7	209.4
4	280.0	279.6	279.2
5	350.0	349.5	349.0
6	420.0	419.4	418.8
7	490.0	489.3	488.6
8	560.0	559.2	558.4
9	630.0	629.1	628.2

	697	696	695
1	69.7	69.6	69.5
2	139.4	139.2	139.0
3	209.1	208.8	208.5
4	278.8	278.4	278.0
5	348.5	348.0	347.5
6	418.2	417.6	417.0
7	487.9	487.2	486.5
8	557.6	556.8	556.0
9	627.3	626.4	625.5

	692	691	690
1	69.2	69.1	69.0
2	138.4	138.2	138.0
3	207.6	207.3	207.0
4	276.8	276.4	276.0
5	346.0	345.5	345.0
6	415.2	414.6	414.0
7	484.4	483.7	483.0
8	553.6	552.8	552.0
9	622.8	621.9	621.0

	689	688	687
1	68.9	68.8	68.7
2	137.8	137.6	137.4
3	206.7	206.4	206.1
4	275.6	275.2	274.8
5	344.5	344.0	343.5
6	413.4	412.8	412.2
7	482.3	481.6	480.9
8	551.2	550.4	549.6
9	620.1	619.2	618.3

	686
1	68.6
2	137.2
3	205.8
4	274.4
5	343.0
6	411.6
7	480.2
8	548.8
9	617.4

$83^\circ.750 - 83^\circ.700$

$6^\circ.300 - 6^\circ.350$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.040 3424		9.042 9731		0.957 0269	9.997 3693		**.700**	
		687		695			8		
301	9.040 4111		9.043 0426		0.956 9574	9.997 3685		699	
302	9.040 4797	686	9.043 1121	695	0.956 8879	9.997 3677	8	698	
303	9.040 5484	687	9.043 1816	695	0.956 8184	9.997 3668	9	697	
		686		694			8		
304	9.040 6170		9.043 2510		0.956 7490	9.997 3660		696	
305	9.040 6856	686	9.043 3205	695	0.956 6795	9.997 3651	9	695	
306	9.040 7542	686	9.043 3899	694	0.956 6101	9.997 3643	8	694	
		686		694			8		
307	9.040 8228		9.043 4593		0.956 5407	9.997 3635		693	
308	9.040 8914	686	9.043 5287	694	0.956 4713	9.997 3626	9	692	
309	9.040 9599	685	9.043 5981	694	0.956 4019	9.997 3618	8	691	
		686		694			9		
.310	9.041 0285		9.043 6675		0.956 3325	9.997 3609		**.690**	
		685		694			8		
311	9.041 0970		9.043 7369		0.956 2631	9.997 3601		689	
312	9.041 1655	685	9.043 8063	694	0.956 1937	9.997 3593	8	688	
313	9.041 2341	686	9.043 8756	693	0.956 1244	9.997 3584	9	687	
		685		694			8		
314	9.041 3026		9.043 9450		0.956 0550	9.997 3576		686	
315	9.041 3711	685	9.044 0143	693	0.955 9857	9.997 3568	8	685	
316	9.041 4396	685	9.044 0836	693	0.955 9164	9.997 3559	9	684	
		684		694			8		
317	9.041 5080		9.044 1530		0.955 8470	9.997 3551		683	
318	9.041 5765	685	9.044 2223	693	0.955 7777	9.997 3542	9	682	
319	9.041 6450	685	9.044 2916	693	0.955 7084	9.997 3534	8	681	
		684		692			8		
.320	9.041 7134		9.044 3608		0.955 6392	9.997 3526		**.680**	
		684		693			9		
321	9.041 7818		9.044 4301		0.955 5699	9.997 3517		679	
322	9.041 8503	685	9.044 4994	693	0.955 5006	9.997 3509	8	678	
323	9.041 9187	684	9.044 5686	692	0.955 4314	9.997 3500	9	677	
		684		693			8		
324	9.041 9871		9.044 6379		0.955 3621	9.997 3492		676	
325	9.042 0555	684	9.044 7071	692	0.955 2929	9.997 3484	8	675	
326	9.042 1238	683	9.044 7763	692	0.955 2237	9.997 3475	9	674	
		684		692			8		
327	9.042 1922		9.044 8455		0.955 1545	9.997 3467		673	
328	9.042 2606	684	9.044 9147	692	0.955 0853	9.997 3458	9	672	
329	9.042 3289	683	9.044 9839	692	0.955 0161	9.997 3450	8	671	
		683		692			8		
.330	9.042 3972		9.045 0531		0.954 9469	9.997 3442		**.670**	
		684		691			9		
331	9.042 4656		9.045 1222		0.954 8778	9.997 3433		669	
332	9.042 5339	683	9.045 1914	692	0.954 8086	9.997 3425	8	668	
333	9.042 6022	683	9.045 2605	691	0.954 7395	9.997 3416	9	667	
		683		692			8		
334	9.042 6705		9.045 3297		0.954 6703	9.997 3408		666	
335	9.042 7388	683	9.045 3988	691	0.954 6012	9.997 3400	8	665	
336	9.042 8070	682	9.045 4679	691	0.954 5321	9.997 3391	9	664	
		683		691			8		
337	9.042 8753		9.045 5370		0.954 4630	9.997 3383		663	
338	9.042 9435	682	9.045 6061	691	0.954 3939	9.997 3374	9	662	
339	9.043 0118	683	9.045 6752	691	0.954 3248	9.997 3366	8	661	
		682		690			9		
.340	9.043 0800		9.045 7442		0.954 2558	9.997 3357		**.660**	
		682		691			8		
341	9.043 1482		9.045 8133		0.954 1867	9.997 3349		659	
342	9.043 2164	682	9.045 8824	691	0.954 1176	9.997 3341	8	658	
343	9.043 2846	682	9.045 9514	690	0.954 0486	9.997 3332	9	657	
		682		690			8		
344	9.043 3528		9.046 0204		0.953 9796	9.997 3324		656	
345	9.043 4210	682	9.046 0894	690	0.953 9106	9.997 3315	9	655	
346	9.043 4891	681	9.046 1584	690	0.953 8416	9.997 3307	8	654	
		682		690			9		
347	9.043 5573		9.046 2274		0.953 7726	9.997 3298		653	
348	9.043 6254	681	9.046 2964	690	0.953 7036	9.997 3290	8	652	
349	9.043 6935	681	9.046 3654	690	0.953 6346	9.997 3282	8	651	
		682		689			9		
.350	9.043 7617		9.046 4343		0.953 5657	9.997 3273		**.650**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	695	694	693
1	69.5	69.4	69.3
2	139.0	138.8	138.6
3	208.5	208.2	207.9
4	278.0	277.6	277.2
5	347.5	347.0	346.5
6	417.0	416.4	415.8
7	486.5	485.8	485.1
8	556.0	555.2	554.4
9	625.5	624.6	623.7

	692	691	690
1	69.2	69.1	69.0
2	138.4	138.2	138.0
3	207.6	207.3	207.0
4	276.8	276.4	276.0
5	346.0	345.5	345.0
6	415.2	414.6	414.0
7	484.4	483.7	483.0
8	553.6	552.8	552.0
9	622.8	621.9	621.0

	689	687	686
1	68.9	68.7	68.6
2	137.8	137.4	137.2
3	206.7	206.1	205.8
4	275.6	274.8	274.4
5	344.5	343.5	343.0
6	413.4	412.2	411.6
7	482.3	480.9	480.2
8	551.2	549.6	548.8
9	620.1	618.3	617.4

	685	684	683
1	68.5	68.4	68.3
2	137.0	136.8	136.6
3	205.5	205.2	204.9
4	274.0	273.6	273.2
5	342.5	342.0	341.5
6	411.0	410.4	409.8
7	479.5	478.8	478.1
8	548.0	547.2	546.4
9	616.5	615.6	614.7

	682	681
1	68.2	68.1
2	136.4	136.2
3	204.6	204.3
4	272.8	272.4
5	341.0	340.5
6	409.2	408.6
7	477.4	476.7
8	545.6	544.8
9	613.8	612.9

$83^\circ.700 - 83^\circ.650$

$6^\circ.350 - 6^\circ.400$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.043 7617		9.046 4343		0.953 5657	9.997 3273		**.650**	
		681		690			8		
351	9.043 8298	681	9.046 5033	689	0.953 4967	9.997 3265	9	649	
352	9.043 8979	680	9.046 5722	690	0.953 4278	9.997 3256	8	648	
353	9.043 9659	681	9.046 6412	689	0.953 3588	9.997 3248	9	647	
354	9.044 0340	681	9.046 7101	689	0.953 2899	9.997 3239	8	646	
355	9.044 1021	680	9.046 7790	689	0.953 2210	9.997 3231	8	645	
356	9.044 1701	681	9.046 8479	689	0.953 1521	9.997 3223	9	644	
357	9.044 2382	680	9.046 9168	689	0.953 0832	9.997 3214	8	643	
358	9.044 3062	680	9.046 9857	688	0.953 0143	9.997 3206	9	642	
359	9.044 3742	680	9.047 0545	689	0.952 9455	9.997 3197	8	641	
.360	9.044 4422	680	9.047 1234	688	0.952 8766	9.997 3189	9	**.640**	
361	9.044 5102	680	9.047 1922	688	0.952 8078	9.997 3180	8	639	
362	9.044 5782	680	9.047 2610	689	0.952 7390	9.997 3172	9	638	
363	9.044 6462	680	9.047 3299	688	0.952 6701	9.997 3163	8	637	
364	9.044 7142	679	9.047 3987	688	0.952 6013	9.997 3155	9	636	
365	9.044 7821	680	9.047 4675	688	0.952 5325	9.997 3146	8	635	
366	9.044 8501	679	9.047 5363	688	0.952 4637	9.997 3138	8	634	
367	9.044 9180	679	9.047 6051	687	0.952 3949	9.997 3130	9	633	
368	9.044 9859	680	9.047 6738	688	0.952 3262	9.997 3121	8	632	
369	9.045 0539	679	9.047 7426	687	0.952 2574	9.997 3113	9	631	
.370	9.045 1218	678	9.047 8113	688	0.952 1887	9.997 3104	8	**.630**	
371	9.045 1896	679	9.047 8801	687	0.952 1199	9.997 3096	9	629	
372	9.045 2575	679	9.047 9488	687	0.952 0512	9.997 3087	8	628	
373	9.045 3254	679	9.048 0175	687	0.951 9825	9.997 3079	9	627	
374	9.045 3933	678	9.048 0862	687	0.951 9138	9.997 3070	8	626	
375	9.045 4611	678	9.048 1549	687	0.951 8451	9.997 3062	9	625	
376	9.045 5289	679	9.048 2236	687	0.951 7764	9.997 3053	8	624	
377	9.045 5968	678	9.048 2923	686	0.951 7077	9.997 3045	9	623	
378	9.045 6646	678	9.048 3609	687	0.951 6391	9.997 3036	8	622	
379	9.045 7324	678	9.048 4296	686	0.951 5704	9.997 3028	8	621	
.380	9.045 8002	678	9.048 4982	687	0.951 5018	9.997 3020	9	**.620**	
381	9.045 8680	677	9.048 5669	686	0.951 4331	9.997 3011	8	619	
382	9.045 9357	678	9.048 6355	686	0.951 3645	9.997 3003	9	618	
383	9.046 0035	678	9.048 7041	686	0.951 2959	9.997 2994	8	617	
384	9.046 0713	677	9.048 7727	686	0.951 2273	9.997 2986	9	616	
385	9.046 1390	677	9.048 8413	686	0.951 1587	9.997 2977	8	615	
386	9.046 2067	678	9.048 9099	685	0.951 0901	9.997 2969	9	614	
387	9.046 2745	677	9.048 9784	686	0.951 0216	9.997 2960	8	613	
388	9.046 3422	677	9.049 0470	685	0.950 9530	9.997 2952	9	612	
389	9.046 4099	676	9.049 1155	686	0.950 8845	9.997 2943	8	611	
.390	9.046 4775	677	9.049 1841	685	0.950 8159	9.997 2935	9	**.610**	
391	9.046 5452	677	9.049 2526	685	0.950 7474	9.997 2926	8	609	
392	9.046 6129	676	9.049 3211	685	0.950 6789	9.997 2918	9	608	
393	9.046 6805	677	9.049 3896	685	0.950 6104	9.997 2909	8	607	
394	9.046 7482	676	9.049 4581	685	0.950 5419	9.997 2901	9	606	
395	9.046 8158	677	9.049 5266	685	0.950 4734	9.997 2892	8	605	
396	9.046 8835	676	9.049 5951	684	0.950 4049	9.997 2884	9	604	
397	9.046 9511	676	9.049 6635	685	0.950 3365	9.997 2875	8	603	
398	9.047 0187	676	9.049 7320	684	0.950 2680	9.997 2867	9	602	
399	9.047 0863	675	9.049 8004	685	0.950 1996	9.997 2858	8	601	
.400	9.047 1538		9.049 8689		0.950 1311	9.997 2850		**.600**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	690	689	688
1	69.0	68.9	68.8
2	138.0	137.8	137.6
3	207.0	206.7	206.4
4	276.0	275.6	275.2
5	345.0	344.5	344.0
6	414.0	413.4	412.8
7	483.0	482.3	481.6
8	552.0	551.2	550.4
9	621.0	620.1	619.2

	687	686	685
1	68.7	68.6	68.5
2	137.4	137.2	137.0
3	206.1	205.8	205.5
4	274.8	274.4	274.0
5	343.5	343.0	342.5
6	412.2	411.6	411.0
7	480.9	480.2	479.5
8	549.6	548.8	548.0
9	618.3	617.4	616.5

	684	681	680
1	68.4	68.1	68.0
2	136.8	136.2	136.0
3	205.2	204.3	204.0
4	273.6	272.4	272.0
5	342.0	340.5	340.0
6	410.4	408.6	408.0
7	478.8	476.7	476.0
8	547.2	544.8	544.0
9	615.6	612.9	612.0

	679	678	677
1	67.9	67.8	67.7
2	135.8	135.6	135.4
3	203.7	203.4	203.1
4	271.6	271.2	270.8
5	339.5	339.0	338.5
6	407.4	406.8	406.2
7	475.3	474.6	473.9
8	543.2	542.4	541.6
9	611.1	610.2	609.3

	676	675	9
1	67.6	67.5	0.9
2	135.2	135.0	1.8
3	202.8	202.5	2.7
4	270.4	270.0	3.6
5	338.0	337.5	4.5
6	405.6	405.0	5.4
7	473.2	472.5	6.3
8	540.8	540.0	7.2
9	608.4	607.5	8.1

$83^\circ.650 - 83^\circ.600$

$6^\circ.400 - 6^\circ.450$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.047 1538		9.049 8689		0.950 1311	9.997 2850		**.600**	
		676		684			9		
401	9.047 2214		9.049 9373		0.950 0627	9.997 2841		599	
402	9.047 2890	676	9.050 0057	684	0.949 9943	9.997 2833	8	598	
403	9.047 3565	675	9.050 0741	684	0.949 9259	9.997 2824	9	597	
		676		684			8		
404	9.047 4241		9.050 1425		0.949 8575	9.997 2816		596	
405	9.047 4916	675	9.050 2109	684	0.949 7891	9.997 2807	9	595	
406	9.047 5591	675	9.050 2792	683	0.949 7208	9.997 2799	8	594	
		675		684			9		
407	9.047 6266		9.050 3476		0.949 6524	9.997 2790		593	
408	9.047 6941	675	9.050 4159	683	0.949 5841	9.997 2782	8	592	
409	9.047 7616	675	9.050 4843	684	0.949 5157	9.997 2773	9	591	
		675		683			8		
.410	9.047 8291		9.050 5526		0.949 4474	9.997 2765		**.590**	
		674		683			9		
411	9.047 8965		9.050 6209		0.949 3791	9.997 2756		589	
412	9.047 9640	675	9.050 6892	683	0.949 3108	9.997 2748	8	588	
413	9.048 0314	674	9.050 7575	683	0.949 2425	9.997 2739	9	587	
		675		683			8		
414	9.048 0989		9.050 8258		0.949 1742	9.997 2731		586	
415	9.048 1663	674	9.050 8941	683	0.949 1059	9.997 2722	9	585	
416	9.048 2337	674	9.050 9623	682	0.949 0377	9.997 2714	8	584	
		674		683			9		
417	9.048 3011		9.051 0306		0.948 9694	9.997 2705		583	
418	9.048 3685	674	9.051 0988	682	0.948 9012	9.997 2696	9	582	
419	9.048 4359	674	9.051 1671	683	0.948 8329	9.997 2688	8	581	
		673		682			9		
.420	9.048 5032		9.051 2353		0.948 7647	9.997 2679		**.580**	
		674		682			8		
421	9.048 5706		9.051 3035		0.948 6965	9.997 2671		579	
422	9.048 6379	673	9.051 3717	682	0.948 6283	9.997 2662	9	578	
423	9.048 7053	674	9.051 4399	682	0.948 5601	9.997 2654	8	577	
		673		682			9		
424	9.048 7726		9.051 5081		0.948 4919	9.997 2645		576	
425	9.048 8399	673	9.051 5762	681	0.948 4238	9.997 2637	8	575	
426	9.048 9072	673	9.051 6444	682	0.948 3556	9.997 2628	9	574	
		673		682			8		
427	9.048 9745		9.051 7126		0.948 2874	9.997 2620		573	
428	9.049 0418	673	9.051 7807	681	0.948 2193	9.997 2611	9	572	
429	9.049 1091	673	9.051 8488	681	0.948 1512	9.997 2603	8	571	
		672		681			9		
.430	9.049 1763		9.051 9169		0.948 0831	9.997 2594		**.570**	
		673		681			8		
431	9.049 2436		9.051 9850		0.948 0150	9.997 2586		569	
432	9.049 3108	672	9.052 0531	681	0.947 9469	9.997 2577	9	568	
433	9.049 3781	673	9.052 1212	681	0.947 8788	9.997 2568	9	567	
		672		681			8		
434	9.049 4453		9.052 1893		0.947 8107	9.997 2560		566	
435	9.049 5125	672	9.052 2574	681	0.947 7426	9.997 2551	9	565	
436	9.049 5797	672	9.052 3254	680	0.947 6746	9.997 2543	8	564	
		672		681			9		
437	9.049 6469		9.052 3935		0.947 6065	9.997 2534		563	
438	9.049 7141	672	9.052 4615	680	0.947 5385	9.997 2526	8	562	
439	9.049 7812	671	9.052 5295	680	0.947 4705	9.997 2517	9	561	
		672		680			8		
.440	9.049 8484		9.052 5975		0.947 4025	9.997 2509		**.560**	
		671		680			9		
441	9.049 9155		9.052 6655		0.947 3345	9.997 2500		559	
442	9.049 9827	672	9.052 7335	680	0.947 2665	9.997 2491	9	558	
443	9.050 0498	671	9.052 8015	680	0.947 1985	9.997 2483	8	557	
		671		680			9		
444	9.050 1169		9.052 8695		0.947 1305	9.997 2474		556	
445	9.050 1840	671	9.052 9375	680	0.947 0625	9.997 2466	8	555	
446	9.050 2511	671	9.053 0054	679	0.946 9946	9.997 2457	9	554	
		671		679			8		
447	9.050 3182		9.053 0733		0.946 9267	9.997 2449		553	
448	9.050 3853	671	9.053 1413	680	0.946 8587	9.997 2440	9	552	
449	9.050 4524	671	9.053 2092	679	0.946 7908	9.997 2432	8	551	
		670		679			9		
.450	9.050 5194		9.053 2771		0.946 7229	9.997 2423		**.550**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	684	683	682
1	68.4	68.3	68.2
2	136.8	136.6	136.4
3	205.2	204.9	204.6
4	273.6	273.2	272.8
5	342.0	341.5	341.0
6	410.4	409.8	409.2
7	478.8	478.1	477.4
8	547.2	546.4	545.6
9	615.6	614.7	613.8

	681	680	679
1	68.1	68.0	67.9
2	136.2	136.0	135.8
3	204.3	204.0	203.7
4	272.4	272.0	271.6
5	340.5	340.0	339.5
6	408.6	408.0	407.4
7	476.7	476.0	475.3
8	544.8	544.0	543.2
9	612.9	612.0	611.1

	676	675	674
1	67.6	67.5	67.4
2	135.2	135.0	134.8
3	202.8	202.5	202.2
4	270.4	270.0	269.6
5	338.0	337.5	337.0
6	405.6	405.0	404.4
7	473.2	472.5	471.8
8	540.8	540.0	539.2
9	608.4	607.5	606.6

	673	672	671
1	67.3	67.2	67.1
2	134.6	134.4	134.2
3	201.9	201.6	201.3
4	269.2	268.8	268.4
5	336.5	336.0	335.5
6	403.8	403.2	402.6
7	471.1	470.4	469.7
8	538.4	537.6	536.8
9	605.7	604.8	603.9

	670	9	8
1	67.0	0.9	0.8
2	134.0	1.8	1.6
3	201.0	2.7	2.4
4	268.0	3.6	3.2
5	335.0	4.5	4.0
6	402.0	5.4	4.8
7	469.0	6.3	5.6
8	536.0	7.2	6.4
9	603.0	8.1	7.2

$83^\circ.600 - 83^\circ.550$

$6^\circ.450 - 6^\circ.500$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.050 5194		9.053 2771		0.946 7229	9.997 2423		**.550**	
		670		679			9		
451	9.050 5864		9.053 3450		0.946 6550	9.997 2414		549	
452	9.050 6535	671	9.053 4129	679	0.946 5871	9.997 2406	8	548	
453	9.050 7205	670	9.053 4808	679	0.946 5192	9.997 2397	9	547	
		670		678			8		
454	9.050 7875		9.053 5486		0.946 4514	9.997 2389		546	
455	9.050 8545	670	9.053 6165	679	0.946 3835	9.997 2380	9	545	
456	9.050 9215	670	9.053 6844	679	0.946 3156	9.997 2372	8	544	
		670		678			9		
457	9.050 9885		9.053 7522		0.946 2478	9.997 2363		543	
458	9.051 0555	670	9.053 8200	678	0.946 1800	9.997 2354	9	542	
459	9.051 1224	669	9.053 8878	678	0.946 1122	9.997 2346	8	541	
		670		678			9		
.460	9.051 1894		9.053 9556		0.946 0444	9.997 2337		**.540**	
		669		678			8		
461	9.051 2563		9.054 0234		0.945 9766	9.997 2329		539	
462	9.051 3232	669	9.054 0912	678	0.945 9088	9.997 2320	9	538	
463	9.051 3901	669	9.054 1590	678	0.945 8410	9.997 2311	9	537	
		669		678			8		
464	9.051 4570		9.054 2268		0.945 7732	9.997 2303		536	
465	9.051 5239	669	9.054 2945	677	0.945 7055	9.997 2294	9	535	
466	9.051 5908	669	9.054 3623	678	0.945 6377	9.997 2286	8	534	
		669		677			9		
467	9.051 6577		9.054 4300		0.945 5700	9.997 2277		533	
468	9.051 7246	669	9.054 4977	677	0.945 5023	9.997 2268	9	532	
469	9.051 7914	668	9.054 5654	677	0.945 4346	9.997 2260	8	531	
		669		677			9		
.470	9.051 8583		9.054 6331		0.945 3669	9.997 2251		**.530**	
		668		677			8		
471	9.051 9251		9.054 7008		0.945 2992	9.997 2243		529	
472	9.051 9919	668	9.054 7685	677	0.945 2315	9.997 2234	9	528	
473	9.052 0587	668	9.054 8362	677	0.945 1638	9.997 2225	9	527	
		668		676			8		
474	9.052 1255		9.054 9038		0.945 0962	9.997 2217		526	
475	9.052 1923	668	9.054 9715	677	0.945 0285	9.997 2208	9	525	
476	9.052 2591	668	9.055 0391	676	0.944 9609	9.997 2200	8	524	
		668		677			9		
477	9.052 3259		9.055 1068		0.944 8932	9.997 2191		523	
478	9.052 3926	667	9.055 1744	676	0.944 8256	9.997 2182	9	522	
479	9.052 4594	668	9.055 2420	676	0.944 7580	9.997 2174	8	521	
		667		676			9		
.480	9.052 5261		9.055 3096		0.944 6904	9.997 2165		**.520**	
		668		676			8		
481	9.052 5929		9.055 3772		0.944 6228	9.997 2157		519	
482	9.052 6596	667	9.055 4448	676	0.944 5552	9.997 2148	9	518	
483	9.052 7263	667	9.055 5123	675	0.944 4877	9.997 2139	9	517	
		667		676			8		
484	9.052 7930		9.055 5799		0.944 4201	9.997 2131		516	
485	9.052 8597	667	9.055 6475	676	0.944 3525	9.997 2122	9	515	
486	9.052 9264	667	9.055 7150	675	0.944 2850	9.997 2114	8	514	
		666		675			9		
487	9.052 9930		9.055 7825		0.944 2175	9.997 2105		513	
488	9.053 0597	667	9.055 8500	675	0.944 1500	9.997 2096	9	512	
489	9.053 1263	666	9.055 9176	676	0.944 0824	9.997 2088	8	511	
		667		675			9		
.490	9.053 1930		9.055 9851		0.944 0149	9.997 2079		**.510**	
		666		674			9		
491	9.053 2596		9.056 0525		0.943 9475	9.997 2070		509	
492	9.053 3262	666	9.056 1200	675	0.943 8800	9.997 2062	8	508	
493	9.053 3928	666	9.056 1875	675	0.943 8125	9.997 2053	9	507	
		666		674			8		
494	9.053 4594		9.056 2549		0.943 7451	9.997 2045		506	
495	9.053 5260	666	9.056 3224	675	0.943 6776	9.997 2036	9	505	
496	9.053 5926	666	9.056 3898	674	0.943 6102	9.997 2027	9	504	
		665		675			8		
497	9.053 6591		9.056 4573		0.943 5427	9.997 2019		503	
498	9.053 7257	666	9.056 5247	674	0.943 4753	9.997 2010	9	502	
499	9.053 7922	665	9.056 5921	674	0.943 4079	9.997 2001	9	501	
		666		674			8		
.500	9.053 8588		9.056 6595		0.943 3405	9.997 1993		**.500**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	679	678	677
1	67.9	67.8	67.7
2	135.8	135.6	135.4
3	203.7	203.4	203.1
4	271.6	271.2	270.8
5	339.5	339.0	338.5
6	407.4	406.8	406.2
7	475.3	474.6	473.9
8	543.2	542.4	541.6
9	611.1	610.2	609.3

	676	675	674
1	67.6	67.5	67.4
2	135.2	135.0	134.8
3	202.8	202.5	202.2
4	270.4	270.0	269.6
5	338.0	337.5	337.0
6	405.6	405.0	404.4
7	473.2	472.5	471.8
8	540.8	540.0	539.2
9	608.4	607.5	606.6

	671	670	669
1	67.1	67.0	66.9
2	134.2	134.0	133.8
3	201.3	201.0	200.7
4	268.4	268.0	267.6
5	335.5	335.0	334.5
6	402.6	402.0	401.4
7	469.7	469.0	468.3
8	536.8	536.0	535.2
9	603.9	603.0	602.1

	668	667	666
1	66.8	66.7	66.6
2	133.6	133.4	133.2
3	200.4	200.1	199.8
4	267.2	266.8	266.4
5	334.0	333.5	333.0
6	400.8	400.2	399.6
7	467.6	466.9	466.2
8	534.4	533.6	532.8
9	601.2	600.3	599.4

	665	9	8
1	66.5	0.9	0.8
2	133.0	1.8	1.6
3	199.5	2.7	2.4
4	266.0	3.6	3.2
5	332.5	4.5	4.0
6	399.0	5.4	4.8
7	465.5	6.3	5.6
8	532.0	7.2	6.4
9	598.5	8.1	7.2

$83^\circ.550 - 83^\circ.500$

$6^\circ.500 - 6^\circ.550$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.053 8588		9.056 6595		0.943 3405	9.997 1993		**.500**	
		665		674			9		
501	9.053 9253		9.056 7269		0.943 2731	9.997 1984		499	
502	9.053 9918	665	9.056 7942	673	0.943 2058	9.997 1976	8	498	
503	9.054 0583	665	9.056 8616	674	0.943 1384	9.997 1967	9	497	
		665		674			9		
504	9.054 1248		9.056 9290		0.943 0710	9.997 1958		496	
505	9.054 1913	665	9.056 9963	673	0.943 0037	9.997 1950	8	495	
506	9.054 2577	664	9.057 0636	673	0.942 9364	9.997 1941	9	494	
		665		674			9		
507	9.054 3242		9.057 1310		0.942 8690	9.997 1932		493	
508	9.054 3906	664	9.057 1983	673	0.942 8017	9.997 1924	8	492	
509	9.054 4571	665	9.057 2656	673	0.942 7344	9.997 1915	9	491	
		664		673			9		
.510	9.054 5235		9.057 3329		0.942 6671	9.997 1906		**.490**	
		664		673			8		
511	9.054 5899		9.057 4002		0.942 5998	9.997 1898		489	
512	9.054 6563	664	9.057 4674	672	0.942 5326	9.997 1889	9	488	
513	9.054 7227	664	9.057 5347	673	0.942 4653	9.997 1880	9	487	
		664		673			8		
514	9.054 7891		9.057 6020		0.942 3980	9.997 1872		486	
515	9.054 8555	664	9.057 6692	672	0.942 3308	9.997 1863	9	485	
516	9.054 9219	664	9.057 7364	672	0.942 2636	9.997 1854	9	484	
		663		673			8		
517	9.054 9882		9.057 8037		0.942 1963	9.997 1846		483	
518	9.055 0546	664	9.057 8709	672	0.942 1291	9.997 1837	9	482	
519	9.055 1209	663	9.057 9381	672	0.942 0619	9.997 1828	9	481	
		663		672			8		
.520	9.055 1872		9.058 0053		0.941 9947	9.997 1820		**.480**	
		664		672			9		
521	9.055 2536		9.058 0725		0.941 9275	9.997 1811		479	
522	9.055 3199	663	9.058 1396	671	0.941 8604	9.997 1802	9	478	
523	9.055 3862	663	9.058 2068	672	0.941 7932	9.997 1794	8	477	
		663		671			9		
524	9.055 4525		9.058 2739		0.941 7261	9.997 1785		476	
525	9.055 5187	662	9.058 3411	672	0.941 6589	9.997 1776	9	475	
526	9.055 5850	663	9.058 4082	671	0.941 5918	9.997 1768	8	474	
		663		671			9		
527	9.055 6513		9.058 4753		0.941 5247	9.997 1759		473	
528	9.055 7175	662	9.058 5424	671	0.941 4576	9.997 1750	9	472	
529	9.055 7837	662	9.058 6096	672	0.941 3904	9.997 1742	8	471	
		663		670			9		
.530	9.055 8500		9.058 6766		0.941 3234	9.997 1733		**.470**	
		662		671			9		
531	9.055 9162		9.058 7437		0.941 2563	9.997 1724		469	
532	9.055 9824	662	9.058 8108	671	0.941 1892	9.997 1716	8	468	
533	9.056 0486	662	9.058 8779	671	0.941 1221	9.997 1707	9	467	
		662		670			9		
534	9.056 1148		9.058 9449		0.941 0551	9.997 1698		466	
535	9.056 1809	661	9.059 0120	671	0.940 9880	9.997 1690	8	465	
536	9.056 2471	662	9.059 0790	670	0.940 9210	9.997 1681	9	464	
		661		670			9		
537	9.056 3132		9.059 1460		0.940 8540	9.997 1672		463	
538	9.056 3794	662	9.059 2130	670	0.940 7870	9.997 1664	8	462	
539	9.056 4455	661	9.059 2800	670	0.940 7200	9.997 1655	9	461	
		661		670			9		
.540	9.056 5116		9.059 3470		0.940 6530	9.997 1646		**.460**	
		661		670			8		
541	9.056 5777		9.059 4140		0.940 5860	9.997 1638		459	
542	9.056 6439	662	9.059 4810	670	0.940 5190	9.997 1629	9	458	
543	9.056 7099	660	9.059 5479	669	0.940 4521	9.997 1620	9	457	
		661		670			8		
544	9.056 7760		9.059 6149		0.940 3851	9.997 1612		456	
545	9.056 8421	661	9.059 6818	669	0.940 3182	9.997 1603	9	455	
546	9.056 9082	661	9.059 7487	669	0.940 2513	9.997 1594	9	454	
		660		670			9		
547	9.056 9742		9.059 8157		0.940 1843	9.997 1585		453	
548	9.057 0402	660	9.059 8826	669	0.940 1174	9.997 1577	8	452	
549	9.057 1063	661	9.059 9495	669	0.940 0505	9.997 1568	9	451	
		660		669			9		
.550	9.057 1723		9.060 0164		0.939 9836	9.997 1559		**.450**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	674	673	672
1	67.4	67.3	67.2
2	134.8	134.6	134.4
3	202.2	201.9	201.6
4	269.6	269.2	268.8
5	337.0	336.5	336.0
6	404.4	403.8	403.2
7	471.8	471.1	470.4
8	539.2	538.4	537.6
9	606.6	605.7	604.8

	671	670	669
1	67.1	67.0	66.9
2	134.2	134.0	133.8
3	201.3	201.0	200.7
4	268.4	268.0	267.6
5	335.5	335.0	334.5
6	402.6	402.0	401.4
7	469.7	469.0	468.3
8	536.8	536.0	535.2
9	603.9	603.0	602.1

	665	664	663
1	66.5	66.4	66.3
2	133.0	132.8	132.6
3	199.5	199.2	198.9
4	266.0	265.6	265.2
5	332.5	332.0	331.5
6	399.0	398.4	397.8
7	465.5	464.8	464.1
8	532.0	531.2	530.4
9	598.5	597.6	596.7

	662	661	660
1	66.2	66.1	66.0
2	132.4	132.2	132.0
3	198.6	198.3	198.0
4	264.8	264.4	264.0
5	331.0	330.5	330.0
6	397.2	396.6	396.0
7	463.4	462.7	462.0
8	529.6	528.8	528.0
9	595.8	594.9	594.0

	9	8
1	0.9	0.8
2	1.8	1.6
3	2.7	2.4
4	3.6	3.2
5	4.5	4.0
6	5.4	4.8
7	6.3	5.6
8	7.2	6.4
9	8.1	7.2

$83^\circ.500 - 83^\circ.450$

$6^\circ.550 - 6^\circ.600$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.057 1723		9.060 0164		0.939 9836	9.997 1559		**.450**	
		660		668			8		
551	9.057 2383		9.060 0832		0.939 9168	9.997 1551		449	
		660		669			9		
552	9.057 3043		9.060 1501		0.939 8499	9.997 1542		448	
		660		669			9		
553	9.057 3703		9.060 2170		0.939 7830	9.997 1533		447	
		660		668			8		
554	9.057 4363		9.060 2838		0.939 7162	9.997 1525		446	
		660		669			9		
555	9.057 5023		9.060 3507		0.939 6493	9.997 1516		445	
		659		668			9		
556	9.057 5682		9.060 4175		0.939 5825	9.997 1507		444	
		660		668			9		
557	9.057 6342		9.060 4843		0.939 5157	9.997 1498		443	
		659		668			8		
558	9.057 7001		9.060 5511		0.939 4489	9.997 1490		442	
		659		668			9		
559	9.057 7660		9.060 6179		0.939 3821	9.997 1481		441	
		659		668			9		
.560	9.057 8319		9.060 6847		0.939 3153	9.997 1472		**.440**	
		660		668			8		
561	9.057 8979		9.060 7515		0.939 2485	9.997 1464		439	
		659		668			9		
562	9.057 9638		9.060 8183		0.939 1817	9.997 1455		438	
		658		667			9		
563	9.058 0296		9.060 8850		0.939 1150	9.997 1446		437	
		659		668			9		
564	9.058 0955		9.060 9518		0.939 0482	9.997 1437		436	
		659		667			8		
565	9.058 1614		9.061 0185		0.938 9815	9.997 1429		435	
		658		668			9		
566	9.058 2272		9.061 0853		0.938 9147	9.997 1420		434	
		659		667			9		
567	9.058 2931		9.061 1520		0.938 8480	9.997 1411		433	
		658		667			9		
568	9.058 3589		9.061 2187		0.938 7813	9.997 1402		432	
		659		667			8		
569	9.058 4248		9.061 2854		0.938 7146	9.997 1394		431	
		658		667			9		
.570	9.058 4906		9.061 3521		0.938 6479	9.997 1385		**.430**	
		658		667			9		
571	9.058 5564		9.061 4188		0.938 5812	9.997 1376		429	
		658		666			8		
572	9.058 6222		9.061 4854		0.938 5146	9.997 1368		428	
		658		667			9		
573	9.058 6880		9.061 5521		0.938 4479	9.997 1359		427	
		657		666			9		
574	9.058 7537		9.061 6187		0.938 3813	9.997 1350		426	
		658		667			9		
575	9.058 8195		9.061 6854		0.938 3146	9.997 1341		425	
		658		666			8		
576	9.058 8853		9.061 7520		0.938 2480	9.997 1333		424	
		657		666			9		
577	9.058 9510		9.061 8186		0.938 1814	9.997 1324		423	
		658		666			9		
578	9.059 0168		9.061 8852		0.938 1148	9.997 1315		422	
		657		666			9		
579	9.059 0825		9.061 9518		0.938 0482	9.997 1306		421	
		657		666			8		
.580	9.059 1482		9.062 0184		0.937 9816	9.997 1298		**.420**	
		657		666			9		
581	9.059 2139		9.062 0850		0.937 9150	9.997 1289		419	
		657		666			9		
582	9.059 2796		9.062 1516		0.937 8484	9.997 1280		418	
		657		666			9		
583	9.059 3453		9.062 2182		0.937 7818	9.997 1271		417	
		657		665			8		
584	9.059 4110		9.062 2847		0.937 7153	9.997 1263		416	
		656		665			9		
585	9.059 4766		9.062 3512		0.937 6488	9.997 1254		415	
		657		666			9		
586	9.059 5423		9.062 4178		0.937 5822	9.997 1245		414	
		656		665			9		
587	9.059 6079		9.062 4843		0.937 5157	9.997 1236		413	
		657		665			8		
588	9.059 6736		9.062 5508		0.937 4492	9.997 1228		412	
		656		665			9		
589	9.059 7392		9.062 6173		0.937 3827	9.997 1219		411	
		656		665			9		
.590	9.059 8048		9.062 6838		0.937 3162	9.997 1210		**.410**	
		656		665			9		
591	9.059 8704		9.062 7503		0.937 2497	9.997 1201		409	
		656		665			8		
592	9.059 9360		9.062 8168		0.937 1832	9.997 1193		408	
		656		664			9		
593	9.060 0016		9.062 8832		0.937 1168	9.997 1184		407	
		656		665			9		
594	9.060 0672		9.062 9497		0.937 0503	9.997 1175		406	
		655		664			9		
595	9.060 1327		9.063 0161		0.936 9839	9.997 1166		405	
		656		664			8		
596	9.060 1983		9.063 0825		0.936 9175	9.997 1158		404	
		655		665			9		
597	9.060 2638		9.063 1490		0.936 8510	9.997 1149		403	
		656		664			9		
598	9.060 3294		9.063 2154		0.936 7846	9.997 1140		402	
		655		664			9		
599	9.060 3949		9.063 2818		0.936 7182	9.997 1131		401	
		655		664			9		
.600	9.060 4604		9.063 3482		0.936 6518	9.997 1122		**.400**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	669	668	667
1	66.9	66.8	66.7
2	133.8	133.6	133.4
3	200.7	200.4	200.1
4	267.6	267.2	266.8
5	334.5	334.0	333.5
6	401.4	400.8	400.2
7	468.3	467.6	466.9
8	535.2	534.4	533.6
9	602.1	601.2	600.3

	666	665	664
1	66.6	66.5	66.4
2	133.2	133.0	132.8
3	199.8	199.5	199.2
4	266.4	266.0	265.6
5	333.0	332.5	332.0
6	399.6	399.0	398.4
7	466.2	465.5	464.8
8	532.8	532.0	531.2
9	599.4	598.5	597.6

	660	659	658
1	66.0	65.9	65.8
2	132.0	131.8	131.6
3	198.0	197.7	197.4
4	264.0	263.6	263.2
5	330.0	329.5	329.0
6	396.0	395.4	394.8
7	462.0	461.3	460.6
8	528.0	527.2	526.4
9	594.0	593.1	592.2

	657	656	655
1	65.7	65.6	65.5
2	131.4	131.2	131.0
3	197.1	196.8	196.5
4	262.8	262.4	262.0
5	328.5	328.0	327.5
6	394.2	393.6	393.0
7	459.9	459.2	458.5
8	525.6	524.8	524.0
9	591.3	590.4	589.5

	9	8
1	0.9	0.8
2	1.8	1.6
3	2.7	2.4
4	3.6	3.2
5	4.5	4.0
6	5.4	4.8
7	6.3	5.6
8	7.2	6.4
9	8.1	7.2

$83^\circ.450 - 83^\circ.400$

$6^\circ.600 - 6^\circ.650$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.060 4604		9.063 3482		0.936 6518	9.997 1122		**.400**	
		655		664			8		
601	9.060 5259		9.063 4146		0.936 5854	9.997 1114		399	
602	9.060 5914	655	9.063 4809	663	0.936 5191	9.997 1105	9	398	
603	9.060 6569	655	9.063 5473	664	0.936 4527	9.997 1096	9	397	
		655		663			9		
604	9.060 7224		9.063 6136		0.936 3864	9.997 1087		396	
605	9.060 7879	655	9.063 6800	664	0.936 3200	9.997 1079	8	395	
606	9.060 8533	654	9.063 7463	663	0.936 2537	9.997 1070	9	394	
		655		664			9		
607	9.060 9188		9.063 8127		0.936 1873	9.997 1061		393	
608	9.060 9842	654	9.063 8790	663	0.936 1210	9.997 1052	9	392	
609	9.061 0496	654	9.063 9453	663	0.936 0547	9.997 1044	8	391	
		654		663			9		
.610	9.061 1150		9.064 0116		0.935 9884	9.997 1035		**.390**	
		654		662			9		
611	9.061 1804		9.064 0778		0.935 9222	9.997 1026		389	
612	9.061 2458	654	9.064 1441	663	0.935 8559	9.997 1017	9	388	
613	9.061 3112	654	9.064 2104	663	0.935 7896	9.997 1008	9	387	
		654		662			8		
614	9.061 3766		9.064 2766		0.935 7234	9.997 1000		386	
615	9.061 4420	654	9.064 3429	663	0.935 6571	9.997 0991	9	385	
616	9.061 5073	653	9.064 4091	662	0.935 5909	9.997 0982	9	384	
		654		662			9		
617	9.061 5727		9.064 4753		0.935 5247	9.997 0973		383	
618	9.061 6380	653	9.064 5416	663	0.935 4584	9.997 0964	9	382	
619	9.061 7033	653	9.064 6078	662	0.935 3922	9.997 0956	8	381	
		653		662			9		
.620	9.061 7686		9.064 6740		0.935 3260	9.997 0947		**.380**	
		654		661			9		
621	9.061 8340		9.064 7401		0.935 2599	9.997 0938		379	
622	9.061 8992	652	9.064 8063	662	0.935 1937	9.997 0929	9	378	
623	9.061 9645	653	9.064 8725	662	0.935 1275	9.997 0920	9	377	
		653		661			8		
624	9.062 0298		9.064 9386		0.935 0614	9.997 0912		376	
625	9.062 0951	653	9.065 0048	662	0.934 9952	9.997 0903	9	375	
626	9.062 1603	652	9.065 0709	661	0.934 9291	9.997 0894	9	374	
		653		662			9		
627	9.062 2256		9.065 1371		0.934 8629	9.997 0885		373	
628	9.062 2908	652	9.065 2032	661	0.934 7968	9.997 0876	9	372	
629	9.062 3560	652	9.065 2693	661	0.934 7307	9.997 0868	8	371	
		653		661			9		
.630	9.062 4213		9.065 3354		0.934 6646	9.997 0859		**.370**	
		652		661			9		
631	9.062 4865		9.065 4015		0.934 5985	9.997 0850		369	
632	9.062 5517	652	9.065 4675	660	0.934 5325	9.997 0841	9	368	
633	9.062 6169	652	9.065 5336	661	0.934 4664	9.997 0832	9	367	
		651		661			8		
634	9.062 6820		9.065 5997		0.934 4003	9.997 0824		366	
635	9.062 7472	652	9.065 6657	660	0.934 3343	9.997 0815	9	365	
636	9.062 8124	652	9.065 7318	661	0.934 2682	9.997 0806	9	364	
		651		660			9		
637	9.062 8775		9.065 7978		0.934 2022	9.997 0797		363	
638	9.062 9426	651	9.065 8638	660	0.934 1362	9.997 0788	9	362	
639	9.063 0078	652	9.065 9298	660	0.934 0702	9.997 0779	9	361	
		651		660			8		
.640	9.063 0729		9.065 9958		0.934 0042	9.997 0771		**.360**	
		651		660			9		
641	9.063 1380		9.066 0618		0.933 9382	9.997 0762		359	
642	9.063 2031	651	9.066 1278	660	0.933 8722	9.997 0753	9	358	
643	9.063 2682	651	9.066 1938	660	0.933 8062	9.997 0744	9	357	
		651		659			9		
644	9.063 3333		9.066 2597		0.933 7403	9.997 0735		356	
645	9.063 3983	650	9.066 3257	660	0.933 6743	9.997 0726	9	355	
646	9.063 4634	651	9.066 3916	659	0.933 6084	9.997 0718	8	354	
		650		659			9		
647	9.063 5284		9.066 4575		0.933 5425	9.997 0709		353	
648	9.063 5935	651	9.066 5235	660	0.933 4765	9.997 0700	9	352	
649	9.063 6585	650	9.066 5894	659	0.933 4106	9.997 0691	9	351	
		650		659			9		
.650	9.063 7235		9.066 6553		0.933 3447	9.997 0682		**.350**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	664	663	662
1	66.4	66.3	66.2
2	132.8	132.6	132.4
3	199.2	198.9	198.6
4	265.6	265.2	264.8
5	332.0	331.5	331.0
6	398.4	397.8	397.2
7	464.8	464.1	463.4
8	531.2	530.4	529.6
9	597.6	596.7	595.8

	661	660	659
1	66.1	66.0	65.9
2	132.2	132.0	131.8
3	198.3	198.0	197.7
4	264.4	264.0	263.6
5	330.5	330.0	329.5
6	396.6	396.0	395.4
7	462.7	462.0	461.3
8	528.8	528.0	527.2
9	594.9	594.0	593.1

	655	654	653
1	65.5	65.4	65.3
2	131.0	130.8	130.6
3	196.5	196.2	195.9
4	262.0	261.6	261.2
5	327.5	327.0	326.5
6	393.0	392.4	391.8
7	458.5	457.8	457.1
8	524.0	523.2	522.4
9	589.5	588.6	587.7

	652	651	650
1	65.2	65.1	65.0
2	130.4	130.2	130.0
3	195.6	195.3	195.0
4	260.8	260.4	260.0
5	326.0	325.5	325.0
6	391.2	390.6	390.0
7	456.4	455.7	455.0
8	521.6	520.8	520.0
9	586.8	585.9	585.0

	9	8
1	0.9	0.8
2	1.8	1.6
3	2.7	2.4
4	3.6	3.2
5	4.5	4.0
6	5.4	4.8
7	6.3	5.6
8	7.2	6.4
9	8.1	7.2

$83^\circ.400 - 83^\circ.350$

6°.650 — 6°.700

6°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.063 7235		9.066 6553		0.933 3447	9.997 0682		.350	
		650		659			9		
651	9.063 7885		9.066 7212		0.933 2788	9.997 0673	8	349	
652	9.063 8535	650	9.066 7871	659	0.933 2129	9.997 0665		348	
653	9.063 9185	650	9.066 8529	658	0.933 1471	9.997 0656	9	347	
		650		659			9		
654	9.063 9835		9.066 9188		0.933 0812	9.997 0647		346	
655	9.064 0485	650	9.066 9847	659	0.933 0153	9.997 0638	9	345	
656	9.064 1134	649	9.067 0505	658	0.932 9495	9.997 0629	9	344	
		650		658			9		
657	9.064 1784		9.067 1163		0.932 8837	9.997 0620		343	
658	9.064 2433	649	9.067 1822	659	0.932 8178	9.997 0612	8	342	
659	9.064 3082	649	9.067 2480	658	0.932 7520	9.997 0603	9	341	
		650		658			9		
.660	9.064 3732		9.067 3138		0.932 6862	9.997 0594		.340	
		649		658			9		
661	9.064 4381		9.067 3796		0.932 6204	9.997 0585		339	
662	9.064 5030	649	9.067 4454	658	0.932 5546	9.997 0576	9	338	
663	9.064 5679	649	9.067 5111	657	0.932 4889	9.997 0567	9	337	
		648		658			9		
664	9.064 6327		9.067 5769		0.932 4231	9.997 0558	8	336	
665	9.064 6976	649	9.067 6427	658	0.932 3573	9.997 0550		335	
666	9.064 7625	649	9.067 7084	657	0.932 2916	9.997 0541	9	334	
		648		657			9		
667	9.064 8273		9.067 7741		0.932 2259	9.997 0532		333	
668	9.064 8922	649	9.067 8399	658	0.932 1601	9.997 0523	9	332	
669	9.064 9570	648	9.067 9056	657	0.932 0944	9.997 0514	9	331	
		648		657			9		
.670	9.065 0218		9.067 9713		0.932 0287	9.997 0505		.330	
		648		657			9		
671	9.065 0866		9.068 0370		0.931 9630	9.997 0496	8	329	
672	9.065 1514	648	9.068 1027	657	0.931 8973	9.997 0488		328	
673	9.065 2162	648	9.068 1684	657	0.931 8316	9.997 0479	9	327	
		648		656			9		
674	9.065 2810		9.068 2340		0.931 7660	9.997 0470		326	
675	9.065 3458	648	9.068 2997	657	0.931 7003	9.997 0461	9	325	
676	9.065 4106	648	9.068 3653	656	0.931 6347	9.997 0452	9	324	
		647		657			9		
677	9.065 4753		9.068 4310		0.931 5690	9.997 0443		323	
678	9.065 5400	647	9.068 4966	656	0.931 5034	9.997 0434	9	322	
679	9.065 6048	648	9.068 5622	656	0.931 4378	9.997 0425	9	321	
		647		656			8		
.680	9.065 6695		9.068 6278		0.931 3722	9.997 0417		.320	
		647		657			9		
681	9.065 7342		9.068 6935		0.931 3065	9.997 0408		319	
682	9.065 7989	647	9.068 7590	655	0.931 2410	9.997 0399	9	318	
683	9.065 8636	647	9.068 8246	656	0.931 1754	9.997 0390	9	317	
		647		656			9		
684	9.065 9283		9.068 8902		0.931 1098	9.997 0381		316	
685	9.065 9930	647	9.068 9558	656	0.931 0442	9.997 0372	9	315	
686	9.066 0576	646	9.069 0213	655	0.930 9787	9.997 0363	9	314	
		647		656			9		
687	9.066 1223		9.069 0869		0.930 9131	9.997 0354		313	
688	9.066 1869	646	9.069 1524	655	0.930 8476	9.997 0346	8	312	
689	9.066 2516	647	9.069 2179	655	0.930 7821	9.997 0337	9	311	
		646		655			9		
.690	9.066 3162		9.069 2834		0.930 7166	9.997 0328		.310	
		646		655			9		
691	9.066 3808		9.069 3489		0.930 6511	9.997 0319		309	
692	9.066 4454	646	9.069 4144	655	0.930 5856	9.997 0310	9	308	
693	9.066 5100	646	9.069 4799	655	0.930 5201	9.997 0301	9	307	
		646		655			9		
694	9.066 5746		9.069 5454		0.930 4546	9.997 0292		306	
695	9.066 6392	646	9.069 6109	655	0.930 3891	9.997 0283	9	305	
696	9.066 7038	646	9.069 6763	654	0.930 3237	9.997 0274	9	304	
		645		655			9		
697	9.066 7683		9.069 7418		0.930 2582	9.997 0265	8	303	
698	9.066 8329	646	9.069 8072	654	0.930 1928	9.997 0257	9	302	
699	9.066 8974	645	9.069 8726	654	0.930 1274	9.997 0248	9	301	
		645		655			9		
.700	9.066 9619		9.069 9381		0.930 0619	9.997 0239		.300	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	659	658	657
1	65.9	65.8	65.7
2	131.8	131.6	131.4
3	197.7	197.4	197.1
4	263.6	263.2	262.8
5	329.5	329.0	328.5
6	395.4	394.8	394.2
7	461.3	460.6	459.9
8	527.2	526.4	525.6
9	593.1	592.2	591.3

	656	655	654
1	65.6	65.5	65.4
2	131.2	131.0	130.8
3	196.8	196.5	196.2
4	262.4	262.0	261.6
5	328.0	327.5	327.0
6	393.6	393.0	392.4
7	459.2	458.5	457.8
8	524.8	524.0	523.2
9	590.4	589.5	588.6

	650	649	648
1	65.0	64.9	64.8
2	130.0	129.8	129.6
3	195.0	194.7	194.4
4	260.0	259.6	259.2
5	325.0	324.5	324.0
6	390.0	389.4	388.8
7	455.0	454.3	453.6
8	520.0	519.2	518.4
9	585.0	584.1	583.2

	647	646	645
1	64.7	64.6	64.5
2	129.4	129.2	129.0
3	194.1	193.8	193.5
4	258.8	258.4	258.0
5	323.5	323.0	322.5
6	388.2	387.6	387.0
7	452.9	452.2	451.5
8	517.6	516.8	516.0
9	582.3	581.4	580.5

	9	8
1	0.9	0.8
2	1.8	1.6
3	2.7	2.4
4	3.6	3.2
5	4.5	4.0
6	5.4	4.8
7	6.3	5.6
8	7.2	6.4
9	8.1	7.2

83°.350 — 83°.300

$6^\circ.700 - 6^\circ.750$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.066 9619		9.069 9381		0.930 0619	9.997 0239		**.300**	
		646		654			9		
701	9.067 0265		9.070 0035		0.929 9965	9.997 0230		299	
702	9.067 0910	645	9.070 0689	654	0.929 9311	9.997 0221	9	298	
703	9.067 1555	645	9.070 1343	654	0.929 8657	9.997 0212	9	297	
		645		653			9		
704	9.067 2200		9.070 1996		0.929 8004	9.997 0203		296	
705	9.067 2844	644	9.070 2650	654	0.929 7350	9.997 0194	9	295	
706	9.067 3489	645	9.070 3304	654	0.929 6696	9.997 0185	9	294	
		645		653			9		
707	9.067 4134		9.070 3957		0.929 6043	9.997 0176		293	
708	9.067 4778	644	9.070 4611	654	0.929 5389	9.997 0167	9	292	
709	9.067 5423	645	9.070 5264	653	0.929 4736	9.997 0159	8	291	
		644		653			9		
.710	9.067 6067		9.070 5917		0.929 4083	9.997 0150		**.290**	
		644		653			9		
711	9.067 6711		9.070 6570		0.929 3430	9.997 0141		289	
712	9.067 7355	644	9.070 7224	654	0.929 2776	9.997 0132	9	288	
713	9.067 7999	644	9.070 7876	652	0.929 2124	9.997 0123	9	287	
		644		653			9		
714	9.067 8643		9.070 8529		0.929 1471	9.997 0114		286	
715	9.067 9287	644	9.070 9182	653	0.929 0818	9.997 0105	9	285	
716	9.067 9931	644	9.070 9835	653	0.929 0165	9.997 0096	9	284	
		644		652			9		
717	9.068 0575		9.071 0487		0.928 9513	9.997 0087		283	
718	9.068 1218	643	9.071 1140	653	0.928 8860	9.997 0078	9	282	
719	9.068 1862	644	9.071 1792	652	0.928 8208	9.997 0069	9	281	
		643		652			9		
.720	9.068 2505		9.071 2444		0.928 7556	9.997 0060		**.280**	
		643		653			9		
721	9.068 3148		9.071 3097		0.928 6903	9.997 0051		279	
722	9.068 3791	643	9.071 3749	652	0.928 6251	9.997 0043	8	278	
723	9.068 4434	643	9.071 4401	652	0.928 5599	9.997 0034	9	277	
		643		652			9		
724	9.068 5077		9.071 5053		0.928 4947	9.997 0025		276	
725	9.068 5720	643	9.071 5704	651	0.928 4296	9.997 0016	9	275	
726	9.068 6363	643	9.071 6356	652	0.928 3644	9.997 0007	9	274	
		643		652			9		
727	9.068 7006		9.071 7008		0.928 2992	9.996 9998		273	
728	9.068 7648	642	9.071 7659	651	0.928 2341	9.996 9989	9	272	
729	9.068 8291	643	9.071 8311	652	0.928 1689	9.996 9980	9	271	
		642		651			9		
.730	9.068 8933		9.071 8962		0.928 1038	9.996 9971		**.270**	
		642		651			9		
731	9.068 9575		9.071 9613		0.928 0387	9.996 9962		269	
732	9.069 0218	643	9.072 0264	651	0.927 9736	9.996 9953	9	268	
733	9.069 0860	642	9.072 0916	652	0.927 9084	9.996 9944	9	267	
		642		650			9		
734	9.069 1502		9.072 1566		0.927 8434	9.996 9935		266	
735	9.069 2144	642	9.072 2217	651	0.927 7783	9.996 9926	9	265	
736	9.069 2785	641	9.072 2868	651	0.927 7132	9.996 9917	9	264	
		642		651			9		
737	9.069 3427		9.072 3519		0.927 6481	9.996 9908		263	
738	9.069 4069	642	9.072 4169	650	0.927 5831	9.996 9899	9	262	
739	9.069 4710	641	9.072 4820	651	0.927 5180	9.996 9890	9	261	
		642		650			8		
.740	9.069 5352		9.072 5470		0.927 4530	9.996 9882		**.260**	
		641		650			9		
741	9.069 5993		9.072 6120		0.927 3880	9.996 9873		259	
742	9.069 6634	641	9.072 6771	651	0.927 3229	9.996 9864	9	258	
743	9.069 7275	641	9.072 7421	650	0.927 2579	9.996 9855	9	257	
		641		650			9		
744	9.069 7916		9.072 8071		0.927 1929	9.996 9846		256	
745	9.069 8557	641	9.072 8721	650	0.927 1279	9.996 9837	9	255	
746	9.069 9198	641	9.072 9371	650	0.927 0629	9.996 9828	9	254	
		641		649			9		
747	9.069 9839		9.073 0020		0.926 9980	9.996 9819		253	
748	9.070 0480	641	9.073 0670	650	0.926 9330	9.996 9810	9	252	
749	9.070 1120	640	9.073 1319	649	0.926 8681	9.996 9801	9	251	
		641		650			9		
.750	9.070 1761		9.073 1969		0.926 8031	9.996 9792		**.250**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	654	653	652
1	65.4	65.3	65.2
2	130.8	130.6	130.4
3	196.2	195.9	195.6
4	261.6	261.2	260.8
5	327.0	326.5	326.0
6	392.4	391.8	391.2
7	457.8	457.1	456.4
8	523.2	522.4	521.6
9	588.6	587.7	586.8

	651	650	649
1	65.1	65.0	64.9
2	130.2	130.0	129.8
3	195.3	195.0	194.7
4	260.4	260.0	259.6
5	325.5	325.0	324.5
6	390.6	390.0	389.4
7	455.7	455.0	454.3
8	520.8	520.0	519.2
9	585.9	585.0	584.1

	646	645	644
1	64.6	64.5	64.4
2	129.2	129.0	128.8
3	193.8	193.5	193.2
4	258.4	258.0	257.6
5	323.0	322.5	322.0
6	387.6	387.0	386.4
7	452.2	451.5	450.8
8	516.8	516.0	515.2
9	581.4	580.5	579.6

	643	642	641
1	64.3	64.2	64.1
2	128.6	128.4	128.2
3	192.9	192.6	192.3
4	257.2	256.8	256.4
5	321.5	321.0	320.5
6	385.8	385.2	384.6
7	450.1	449.4	448.7
8	514.4	513.6	512.8
9	578.7	577.8	576.9

	640	9	8
1	64.0	0.9	0.8
2	128.0	1.8	1.6
3	192.0	2.7	2.4
4	256.0	3.6	3.2
5	320.0	4.5	4.0
6	384.0	5.4	4.8
7	448.0	6.3	5.6
8	512.0	7.2	6.4
9	576.0	8.1	7.2

$83^\circ.300 - 83^\circ.250$

$6^\circ.750 - 6^\circ.800$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.070 1761		9.073 1969		0.926 8031	9.996 9792		**.250**	
		640		649			9		
751	9.070 2401		9.073 2618		0.926 7382	9.996 9783		249	
752	9.070 3041	640	9.073 3267	649	0.926 6733	9.996 9774	9	248	
753	9.070 3682	641	9.073 3917	650	0.926 6083	9.996 9765	9	247	
		640		649			9		
754	9.070 4322		9.073 4566		0.926 5434	9.996 9756		246	
755	9.070 4962	640	9.073 5215	649	0.926 4785	9.996 9747	9	245	
756	9.070 5601	639	9.073 5863	648	0.926 4137	9.996 9738	9	244	
		640		649			9		
757	9.070 6241		9.073 6512		0.926 3488	9.996 9729		243	
758	9.070 6881	640	9.073 7161	649	0.926 2839	9.996 9720	9	242	
759	9.070 7521	640	9.073 7810	649	0.926 2190	9.996 9711	9	241	
		639		648			9		
.760	9.070 8160		9.073 8458		0.926 1542	9.996 9702		**.240**	
		640		648			9		
761	9.070 8800		9.073 9106		0.926 0894	9.996 9693		239	
762	9.070 9439	639	9.073 9755	649	0.926 0245	9.996 9684	9	238	
763	9.071 0078	639	9.074 0403	648	0.925 9597	9.996 9675	9	237	
		639		648			9		
764	9.071 0717		9.074 1051		0.925 8949	9.996 9666		236	
765	9.071 1356	639	9.074 1699	648	0.925 8301	9.996 9657	9	235	
766	9.071 1995	639	9.074 2347	648	0.925 7653	9.996 9648	9	234	
		639		648			9		
767	9.071 2634		9.074 2995		0.925 7005	9.996 9639		233	
768	9.071 3273	639	9.074 3643	648	0.925 6357	9.996 9630	9	232	
769	9.071 3911	638	9.074 4290	647	0.925 5710	9.996 9621	9	231	
		639		648			9		
.770	9.071 4550		9.074 4938		0.925 5062	9.996 9612		**.230**	
		638		647			9		
771	9.071 5188		9.074 5585		0.925 4415	9.996 9603		229	
772	9.071 5827	639	9.074 6233	648	0.925 3767	9.996 9594	9	228	
773	9.071 6465	638	9.074 6880	647	0.925 3120	9.996 9585	9	227	
		638		647			9		
774	9.071 7103		9.074 7527		0.925 2473	9.996 9576		226	
775	9.071 7741	638	9.074 8174	647	0.925 1826	9.996 9567	9	225	
776	9.071 8379	638	9.074 8821	647	0.925 1179	9.996 9558	9	224	
		638		647			9		
777	9.071 9017		9.074 9468		0.925 0532	9.996 9549		223	
778	9.071 9655	638	9.075 0115	647	0.924 9885	9.996 9540	9	222	
779	9.072 0293	638	9.075 0762	647	0.924 9238	9.996 9531	9	221	
		637		646			9		
.780	9.072 0930		9.075 1408		0.924 8592	9.996 9522		**.220**	
		638		647			9		
781	9.072 1568		9.075 2055		0.924 7945	9.996 9513		219	
782	9.072 2205	637	9.075 2701	646	0.924 7299	9.996 9504	9	218	
783	9.072 2843	638	9.075 3347	646	0.924 6653	9.996 9495	9	217	
		637		647			9		
784	9.072 3480		9.075 3994		0.924 6006	9.996 9486		216	
785	9.072 4117	637	9.075 4640	646	0.924 5360	9.996 9477	9	215	
786	9.072 4754	637	9.075 5286	646	0.924 4714	9.996 9468	9	214	
		637		646			9		
787	9.072 5391		9.075 5932		0.924 4068	9.996 9459		213	
788	9.072 6028	637	9.075 6578	646	0.924 3422	9.996 9450	9	212	
789	9.072 6665	636	9.075 7224	646	0.924 2776	9.996 9441	9	211	
		637		646			9		
.790	9.072 7301		9.075 7869		0.924 2131	9.996 9432		**.210**	
		636		645			9		
791	9.072 7938		9.075 8515		0.924 1485	9.996 9423		209	
792	9.072 8574	637	9.075 9160	646	0.924 0840	9.996 9414	9	208	
793	9.072 9211	636	9.075 9806	645	0.924 0194	9.996 9405	9	207	
		636		645			9		
794	9.072 9847		9.076 0451		0.923 9549	9.996 9396		206	
795	9.073 0483	636	9.076 1096	645	0.923 8904	9.996 9387	9	205	
796	9.073 1119	636	9.076 1741	645	0.923 8259	9.996 9378	9	204	
		636		645			9		
797	9.073 1755		9.076 2386		0.923 7614	9.996 9369		203	
798	9.073 2391	636	9.076 3031	645	0.923 6969	9.996 9360	9	202	
799	9.073 3027	636	9.076 3676	645	0.923 6324	9.996 9351	9	201	
		636		645			9		
.800	9.073 3663		9.076 4321		0.923 5679	9.996 9342		**.200**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	650	649	648
1	65.0	64.9	64.8
2	130.0	129.8	129.6
3	195.0	194.7	194.4
4	260.0	259.6	259.2
5	325.0	324.5	324.0
6	390.0	389.4	388.8
7	455.0	454.3	453.6
8	520.0	519.2	518.4
9	585.0	584.1	583.2

	647	646	645
1	64.7	64.6	64.5
2	129.4	129.2	129.0
3	194.1	193.8	193.5
4	258.8	258.4	258.0
5	323.5	323.0	322.5
6	388.2	387.6	387.0
7	452.9	452.2	451.5
8	517.6	516.8	516.0
9	582.3	581.4	580.5

	641	640	639
1	64.1	64.0	63.9
2	128.2	128.0	127.8
3	192.3	192.0	191.7
4	256.4	256.0	255.6
5	320.5	320.0	319.5
6	384.6	384.0	383.4
7	448.7	448.0	447.3
8	512.8	512.0	511.2
9	576.9	576.0	575.1

	638	637	636
1	63.8	63.7	63.6
2	127.6	127.4	127.2
3	191.4	191.1	190.8
4	255.2	254.8	254.4
5	319.0	318.5	318.0
6	382.8	382.2	381.6
7	446.6	445.9	445.2
8	510.4	509.6	508.8
9	574.2	573.3	572.4

	9
1	0.9
2	1.8
3	2.7
4	3.6
5	4.5
6	5.4
7	6.3
8	7.2
9	8.1

$83^\circ.250 - 83^\circ.200$

6°.800 — 6°.850

6°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.073 3663		9.076 4321		0.923 5679	9.996 9342		.200	
		635		645			9		
801	9.073 4298		9.076 4966		0.923 5034	9.996 9333		199	
802	9.073 4934	636	9.076 5610	644	0.923 4390	9.996 9324	9	198	
803	9.073 5569	635	9.076 6255	645	0.923 3745	9.996 9315	9	197	
		635		644			10		
804	9.073 6204		9.076 6899		0.923 3101	9.996 9305		196	
805	9.073 6840	636	9.076 7543	644	0.923 2457	9.996 9296	9	195	
806	9.073 7475	635	9.076 8188	645	0.923 1812	9.996 9287	9	194	
		635		644			9		
807	9.073 8110		9.076 8832		0.923 1168	9.996 9278		193	
808	9.073 8745	635	9.076 9476	644	0.923 0524	9.996 9269	9	192	
809	9.073 9380	635	9.077 0120	644	0.922 9880	9.996 9260	9	191	
		635		643			9		
.810	9.074 0015		9.077 0763		0.922 9237	9.996 9251		.190	
		634		644			9		
811	9.074 0649		9.077 1407		0.922 8593	9.996 9242		189	
812	9.074 1284	635	9.077 2051	644	0.922 7949	9.996 9233	9	188	
813	9.074 1918	634	9.077 2694	643	0.922 7306	9.996 9224	9	187	
		635		644			9		
814	9.074 2553		9.077 3338		0.922 6662	9.996 9215		186	
815	9.074 3187	634	9.077 3981	643	0.922 6019	9.996 9206	9	185	
816	9.074 3821	634	9.077 4624	643	0.922 5376	9.996 9197	9	184	
		634		644			9		
817	9.074 4455		9.077 5268		0.922 4732	9.996 9188		183	
818	9.074 5089	634	9.077 5911	643	0.922 4089	9.996 9179	9	182	
819	9.074 5723	634	9.077 6554	643	0.922 3446	9.996 9170	9	181	
		634		642			9		
.820	9.074 6357		9.077 7196		0.922 2804	9.996 9161		.180	
		634		643			9		
821	9.074 6991		9.077 7839		0.922 2161	9.996 9152		179	
822	9.074 7624	633	9.077 8482	643	0.922 1518	9.996 9142	10	178	
823	9.074 8258	634	9.077 9125	643	0.922 0875	9.996 9133	9	177	
		633		642			9		
824	9.074 8891		9.077 9767		0.922 0233	9.996 9124		176	
825	9.074 9525	634	9.078 0410	643	0.921 9590	9.996 9115	9	175	
826	9.075 0158	633	9.078 1052	642	0.921 8948	9.996 9106	9	174	
		633		642			9		
827	9.075 0791		9.078 1694		0.921 8306	9.996 9097		173	
828	9.075 1424	633	9.078 2336	642	0.921 7664	9.996 9088	9	172	
829	9.075 2057	633	9.078 2978	642	0.921 7022	9.996 9079	9	171	
		633		642			9		
.830	9.075 2690		9.078 3620		0.921 6380	9.996 9070		.170	
		633		642			9		
831	9.075 3323		9.078 4262		0.921 5738	9.996 9061		169	
832	9.075 3956	633	9.078 4904	642	0.921 5096	9.996 9052	9	168	
833	9.075 4588	632	9.078 5546	642	0.921 4454	9.996 9043	9	167	
		633		641			9		
834	9.075 5221		9.078 6187		0.921 3813	9.996 9034		166	
835	9.075 5853	632	9.078 6829	642	0.921 3171	9.996 9024	10	165	
836	9.075 6486	633	9.078 7470	641	0.921 2530	9.996 9015	9	164	
		632		642			9		
837	9.075 7118		9.078 8112		0.921 1888	9.996 9006		163	
838	9.075 7750	632	9.078 8753	641	0.921 1247	9.996 8997	9	162	
839	9.075 8382	632	9.078 9394	641	0.921 0606	9.996 8988	9	161	
		632		641			9		
.840	9.075 9014		9.079 0035		0.920 9965	9.996 8979		.160	
		632		641			9		
841	9.075 9646		9.079 0676		0.920 9324	9.996 8970		159	
842	9.076 0278	632	9.079 1317	641	0.920 8683	9.996 8961	9	158	
843	9.076 0909	631	9.079 1958	641	0.920 8042	9.996 8952	9	157	
		632		640			9		
844	9.076 1541		9.079 2598		0.920 7402	9.996 8943		156	
845	9.076 2172	631	9.079 3239	641	0.920 6761	9.996 8934	9	155	
846	9.076 2804	632	9.079 3879	640	0.920 6121	9.996 8924	10	154	
		631		641			9		
847	9.076 3435		9.079 4520		0.920 5480	9.996 8915		153	
848	9.076 4066	631	9.079 5160	640	0.920 4840	9.996 8906	9	152	
849	9.076 4698	632	9.079 5800	640	0.920 4200	9.996 8897	9	151	
		631		641			9		
.850	9.076 5329		9.079 6441		0.920 3559	9.996 8888		.150	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	645	644	643
1	64.5	64.4	64.3
2	129.0	128.8	128.6
3	193.5	193.2	192.9
4	258.0	257.6	257.2
5	322.5	322.0	321.5
6	387.0	386.4	385.8
7	451.5	450.8	450.1
8	516.0	515.2	514.4
9	580.5	579.6	578.7

	642	641	640
1	64.2	64.1	64.0
2	128.4	128.2	128.0
3	192.6	192.3	192.0
4	256.8	256.4	256.0
5	321.0	320.5	320.0
6	385.2	384.6	384.0
7	449.4	448.7	448.0
8	513.6	512.8	512.0
9	577.8	576.9	576.0

	636	635	634
1	63.6	63.5	63.4
2	127.2	127.0	126.8
3	190.8	190.5	190.2
4	254.4	254.0	253.6
5	318.0	317.5	317.0
6	381.6	381.0	380.4
7	445.2	444.5	443.8
8	508.8	508.0	507.2
9	572.4	571.5	570.6

	633	632	631
1	63.3	63.2	63.1
2	126.6	126.4	126.2
3	189.9	189.6	189.3
4	253.2	252.8	252.4
5	316.5	316.0	315.5
6	379.8	379.2	378.6
7	443.1	442.4	441.7
8	506.4	505.6	504.8
9	569.7	568.8	567.9

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

83°.200 — 83°.150

$6^\circ.850 - 6^\circ.900$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.076 5329		9.079 6441		0.920 3559	9.996 8888		**.150**	
		630		640			9		
851	9.076 5959		9.079 7081		0.920 2919	9.996 8879		149	
852	9.076 6590	631	9.079 7721	640	0.920 2279	9.996 8870	9	148	
853	9.076 7221	631	9.079 8360	639	0.920 1640	9.996 8861	9	147	
		631		640			9		
854	9.076 7852		9.079 9000		0.920 1000	9.996 8852		146	
855	9.076 8482	630	9.079 9640	640	0.920 0360	9.996 8842	10	145	
856	9.076 9113	631	9.080 0279	639	0.919 9721	9.996 8833	9	144	
		630		640			9		
857	9.076 9743		9.080 0919		0.919 9081	9.996 8824		143	
858	9.077 0373	630	9.080 1558	639	0.919 8442	9.996 8815	9	142	
859	9.077 1004	631	9.080 2198	640	0.919 7802	9.996 8806	9	141	
		630		639			9		
.860	9.077 1634		9.080 2837		0.919 7163	9.996 8797		**.140**	
		630		639			9		
861	9.077 2264		9.080 3476		0.919 6524	9.996 8788		139	
862	9.077 2894	630	9.080 4115	639	0.919 5885	9.996 8779	9	138	
863	9.077 3523	629	9.080 4754	639	0.919 5246	9.996 8770	9	137	
		630		639			10		
864	9.077 4153		9.080 5393		0.919 4607	9.996 8760		136	
865	9.077 4783	630	9.080 6032	639	0.919 3968	9.996 8751	9	135	
866	9.077 5412	629	9.080 6670	638	0.919 3330	9.996 8742	9	134	
		630		639			9		
867	9.077 6042		9.080 7309		0.919 2691	9.996 8733		133	
868	9.077 6671	629	9.080 7947	638	0.919 2053	9.996 8724	9	132	
869	9.077 7300	629	9.080 8586	639	0.919 1414	9.996 8715	9	131	
		630		638			9		
.870	9.077 7930		9.080 9224		0.919 0776	9.996 8706		**.130**	
		629		638			9		
871	9.077 8559		9.080 9862		0.919 0138	9.996 8697		129	
872	9.077 9188	629	9.081 0500	638	0.918 9500	9.996 8687	10	128	
873	9.077 9817	629	9.081 1138	638	0.918 8862	9.996 8678	9	127	
		628		638			9		
874	9.078 0445		9.081 1776		0.918 8224	9.996 8669		126	
875	9.078 1074	629	9.081 2414	638	0.918 7586	9.996 8660	9	125	
876	9.078 1703	629	9.081 3052	638	0.918 6948	9.996 8651	9	124	
		628		638			9		
877	9.078 2331		9.081 3690		0.918 6310	9.996 8642		123	
878	9.078 2960	629	9.081 4327	637	0.918 5673	9.996 8633	9	122	
879	9.078 3588	628	9.081 4965	638	0.918 5035	9.996 8623	10	121	
		628		637			9		
.880	9.078 4216		9.081 5602		0.918 4398	9.996 8614		**.120**	
		628		637			9		
881	9.078 4844		9.081 6239		0.918 3761	9.996 8605		119	
882	9.078 5473	629	9.081 6877	638	0.918 3123	9.996 8596	9	118	
883	9.078 6101	628	9.081 7514	637	0.918 2486	9.996 8587	9	117	
		627		637			9		
884	9.078 6728		9.081 8151		0.918 1849	9.996 8578		116	
885	9.078 7356	628	9.081 8788	637	0.918 1212	9.996 8569	9	115	
886	9.078 7984	628	9.081 9425	637	0.918 0575	9.996 8559	10	114	
		627		636			9		
887	9.078 8611		9.082 0061		0.917 9939	9.996 8550		113	
888	9.078 9239	628	9.082 0698	637	0.917 9302	9.996 8541	9	112	
889	9.078 9866	627	9.082 1335	637	0.917 8665	9.996 8532	9	111	
		628		636			9		
.890	9.079 0494		9.082 1971		0.917 8029	9.996 8523		**.110**	
		627		636			9		
891	9.079 1121		9.082 2607		0.917 7393	9.996 8514		109	
892	9.079 1748	627	9.082 3244	637	0.917 6756	9.996 8504	10	108	
893	9.079 2375	627	9.082 3880	636	0.917 6120	9.996 8495	9	107	
		627		636			9		
894	9.079 3002		9.082 4516		0.917 5484	9.996 8486		106	
895	9.079 3629	627	9.082 5152	636	0.917 4848	9.996 8477	9	105	
896	9.079 4256	627	9.082 5788	636	0.917 4212	9.996 8468	9	104	
		626		636			9		
897	9.079 4882		9.082 6424		0.917 3576	9.996 8459		103	
898	9.079 5509	627	9.082 7060	636	0.917 2940	9.996 8449	10	102	
899	9.079 6136	627	9.082 7695	635	0.917 2305	9.996 8440	9	101	
		626		636			9		
.900	9.079 6762		9.082 8331		0.917 1669	9.996 8431		**.100**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	640	639	638
1	64.0	63.9	63.8
2	128.0	127.8	127.6
3	192.0	191.7	191.4
4	256.0	255.6	255.2
5	320.0	319.5	319.0
6	384.0	383.4	382.8
7	448.0	447.3	446.6
8	512.0	511.2	510.4
9	576.0	575.1	574.2

	637	636	635
1	63.7	63.6	63.5
2	127.4	127.2	127.0
3	191.1	190.8	190.5
4	254.8	254.4	254.0
5	318.5	318.0	317.5
6	382.2	381.6	381.0
7	445.9	445.2	444.5
8	509.6	508.8	508.0
9	573.3	572.4	571.5

	631	630	629
1	63.1	63.0	62.9
2	126.2	126.0	125.8
3	189.3	189.0	188.7
4	252.4	252.0	251.6
5	315.5	315.0	314.5
6	378.6	378.0	377.4
7	441.7	441.0	440.3
8	504.8	504.0	503.2
9	567.9	567.0	566.1

	628	627	626
1	62.8	62.7	62.6
2	125.6	125.4	125.2
3	188.4	188.1	187.8
4	251.2	250.8	250.4
5	314.0	313.5	313.0
6	376.8	376.2	375.6
7	439.6	438.9	438.2
8	502.4	501.6	500.8
9	565.2	564.3	563.4

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$83^\circ.150 - 83^\circ.100$

$6^\circ.900 - 6^\circ.950$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.079 6762		9.082 8331		0.917 1669	9.996 8431		**.100**	
		626		635			9		
901	9.079 7388		9.082 8966		0.917 1034	9.996 8422		099	
902	9.079 8015	627	9.082 9602	636	0.917 0398	9.996 8413	9	098	
903	9.079 8641	626	9.083 0237	635	0.916 9763	9.996 8404	9	097	
		626		635			10		
904	9.079 9267		9.083 0872		0.916 9128	9.996 8394		096	
905	9.079 9893	626	9.083 1507	635	0.916 8493	9.996 8385	9	095	
906	9.080 0519	626	9.083 2143	636	0.916 7857	9.996 8376	9	094	
		625		634			9		
907	9.080 1144		9.083 2777		0.916 7223	9.996 8367		093	
908	9.080 1770	626	9.083 3412	635	0.916 6588	9.996 8358	9	092	
909	9.080 2396	626	9.083 4047	635	0.916 5953	9.996 8348	10	091	
		625		635			9		
.910	9.080 3021		9.083 4682		0.916 5318	9.996 8339		**.090**	
		625		634			9		
911	9.080 3646		9.083 5316		0.916 4684	9.996 8330		089	
912	9.080 4272	626	9.083 5951	635	0.916 4049	9.996 8321	9	088	
913	9.080 4897	625	9.083 6585	634	0.916 3415	9.996 8312	9	087	
		625		635			9		
914	9.080 5522		9.083 7220		0.916 2780	9.996 8303		086	
915	9.080 6147	625	9.083 7854	634	0.916 2146	9.996 8293	10	085	
916	9.080 6772	625	9.083 8488	634	0.916 1512	9.996 8284	9	084	
		625		634			9		
917	9.080 7397		9.083 9122		0.916 0878	9.996 8275		083	
918	9.080 8022	625	9.083 9756	634	0.916 0244	9.996 8266	9	082	
919	9.080 8646	624	9.084 0390	634	0.915 9610	9.996 8257	9	081	
		625		634			10		
.920	9.080 9271		9.084 1024		0.915 8976	9.996 8247		**.080**	
		625		633			9		
921	9.080 9896		9.084 1657		0.915 8343	9.996 8238		079	
922	9.081 0520	624	9.084 2291	634	0.915 7709	9.996 8229	9	078	
923	9.081 1144	624	9.084 2924	633	0.915 7076	9.996 8220	9	077	
		624		634			9		
924	9.081 1768		9.084 3558		0.915 6442	9.996 8211		076	
925	9.081 2393	625	9.084 4191	633	0.915 5809	9.996 8201	10	075	
926	9.081 3017	624	9.084 4824	633	0.915 5176	9.996 8192	9	074	
		624		634			9		
927	9.081 3641		9.084 5458		0.915 4542	9.996 8183		073	
928	9.081 4264	623	9.084 6091	633	0.915 3909	9.996 8174	9	072	
929	9.081 4888	624	9.084 6724	633	0.915 3276	9.996 8165	9	071	
		624		633			10		
.930	9.081 5512		9.084 7357		0.915 2643	9.996 8155		**.070**	
		623		632			9		
931	9.081 6135		9.084 7989		0.915 2011	9.996 8146		069	
932	9.081 6759	624	9.084 8622	633	0.915 1378	9.996 8137	9	068	
933	9.081 7382	623	9.084 9255	633	0.915 0745	9.996 8128	9	067	
		624		632			10		
934	9.081 8006		9.084 9887		0.915 0113	9.996 8118		066	
935	9.081 8629	623	9.085 0520	633	0.914 9480	9.996 8109	9	065	
936	9.081 9252	623	9.085 1152	632	0.914 8848	9.996 8100	9	064	
		623		632			9		
937	9.081 9875		9.085 1784		0.914 8216	9.996 8091		063	
938	9.082 0498	623	9.085 2416	632	0.914 7584	9.996 8082	9	062	
939	9.082 1121	623	9.085 3049	633	0.914 6951	9.996 8072	10	061	
		623		632			9		
.940	9.082 1744		9.085 3681		0.914 6319	9.996 8063		**.060**	
		622		631			9		
941	9.082 2366		9.085 4312		0.914 5688	9.996 8054		059	
942	9.082 2989	623	9.085 4944	632	0.914 5056	9.996 8045	9	058	
943	9.082 3611	622	9.085 5576	632	0.914 4424	9.996 8035	10	057	
		623		632			9		
944	9.082 4234		9.085 6208		0.914 3792	9.996 8026		056	
945	9.082 4856	622	9.085 6839	631	0.914 3161	9.996 8017	9	055	
946	9.082 5478	622	9.085 7471	632	0.914 2529	9.996 8008	9	054	
		622		631			10		
947	9.082 6100		9.085 8102		0.914 1898	9.996 7998		053	
948	9.082 6722	622	9.085 8733	631	0.914 1267	9.996 7989	9	052	
949	9.082 7344	622	9.085 9364	631	0.914 0636	9.996 7980	9	051	
		622		632			9		
.950	9.082 7966		9.085 9996		0.914 0004	9.996 7971		**.050**	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	636	635	634
1	63.6	63.5	63.4
2	127.2	127.0	126.8
3	190.8	190.5	190.2
4	254.4	254.0	253.6
5	318.0	317.5	317.0
6	381.6	381.0	380.4
7	445.2	444.5	443.8
8	508.8	508.0	507.2
9	572.4	571.5	570.6

	633	632	631
1	63.3	63.2	63.1
2	126.6	126.4	126.2
3	189.9	189.6	189.3
4	253.2	252.8	252.4
5	316.5	316.0	315.5
6	379.8	379.2	378.6
7	443.1	442.4	441.7
8	506.4	505.6	504.8
9	569.7	568.8	567.9

	627	626	625
1	62.7	62.6	62.5
2	125.4	125.2	125.0
3	188.1	187.8	187.5
4	250.8	250.4	250.0
5	313.5	313.0	312.5
6	376.2	375.6	375.0
7	438.9	438.2	437.5
8	501.6	500.8	500.0
9	564.3	563.4	562.5

	624	623	622
1	62.4	62.3	62.2
2	124.8	124.6	124.4
3	187.2	186.9	186.6
4	249.6	249.2	248.8
5	312.0	311.5	311.0
6	374.4	373.8	373.2
7	436.8	436.1	435.4
8	499.2	498.4	497.6
9	561.6	560.7	559.8

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$83^\circ.100 - 83^\circ.050$

$6^\circ.950 - 7^\circ.000$

6°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.082 7966		9.085 9996		0.914 0004	9.996 7971		.050	
		622		631			9		
951	9.082 8588		9.086 0627		0.913 9373	9.996 7962		049	
952	9.082 9210	622	9.086 1257	630	0.913 8743	9.996 7952	10	048	
953	9.082 9831	621	9.086 1888	631	0.913 8112	9.996 7943	9	047	
		622		631			9		
954	9.083 0453		9.086 2519		0.913 7481	9.996 7934		046	
955	9.083 1074	621	9.086 3150	631	0.913 6850	9.996 7925	9	045	
956	9.083 1696	622	9.086 3780	630	0.913 6220	9.996 7915	10	044	
		621		631			9		
957	9.083 2317		9.086 4411		0.913 5589	9.996 7906		043	
958	9.083 2938	621	9.086 5041	630	0.913 4959	9.996 7897	9	042	
959	9.083 3559	621	9.086 5671	630	0.913 4329	9.996 7888	9	041	
		621		631			10		
.960	9.083 4180		9.086 6302		0.913 3698	9.996 7878		.040	
		621		630			9		
961	9.083 4801		9.086 6932		0.913 3068	9.996 7869		039	
962	9.083 5422	621	9.086 7562	630	0.913 2438	9.996 7860	9	038	
963	9.083 6042	620	9.086 8192	630	0.913 1808	9.996 7851	9	037	
		621		630			10		
964	9.083 6663		9.086 8822		0.913 1178	9.996 7841		036	
965	9.083 7283	620	9.086 9451	629	0.913 0549	9.996 7832	9	035	
966	9.083 7904	621	9.087 0081	630	0.912 9919	9.996 7823	9	034	
		620		630			10		
967	9.083 8524		9.087 0711		0.912 9289	9.996 7813		033	
968	9.083 9144	620	9.087 1340	629	0.912 8660	9.996 7804	9	032	
969	9.083 9765	621	9.087 1970	630	0.912 8030	9.996 7795	9	031	
		620		629			9		
.970	9.084 0385		9.087 2599		0.912 7401	9.996 7786		.030	
		620		629			10		
971	9.084 1005		9.087 3228		0.912 6772	9.996 7776		029	
972	9.084 1624	619	9.087 3857	629	0.912 6143	9.996 7767	9	028	
973	9.084 2244	620	9.087 4486	629	0.912 5514	9.996 7758	9	027	
		620		629			9		
974	9.084 2864		9.087 5115		0.912 4885	9.996 7749		026	
975	9.084 3484	620	9.087 5744	629	0.912 4256	9.996 7739	10	025	
976	9.084 4103	619	9.087 6373	629	0.912 3627	9.996 7730	9	024	
		619		629			9		
977	9.084 4722		9.087 7002		0.912 2998	9.996 7721		023	
978	9.084 5342	620	9.087 7630	628	0.912 2370	9.996 7712	9	022	
979	9.084 5961	619	9.087 8259	629	0.912 1741	9.996 7702	10	021	
		619		628			9		
.980	9.084 6580		9.087 8887		0.912 1113	9.996 7693		.020	
		619		629			9		
981	9.084 7199		9.087 9516		0.912 0484	9.996 7684		019	
982	9.084 7818	619	9.088 0144	628	0.911 9856	9.996 7674	10	018	
983	9.084 8437	619	9.088 0772	628	0.911 9228	9.996 7665	9	017	
		619		628			9		
984	9.084 9056		9.088 1400		0.911 8600	9.996 7656		016	
985	9.084 9675	619	9.088 2028	628	0.911 7972	9.996 7647	9	015	
986	9.085 0293	618	9.088 2656	628	0.911 7344	9.996 7637	10	014	
		619		628			9		
987	9.085 0912		9.088 3284		0.911 6716	9.996 7628		013	
988	9.085 1530	618	9.088 3912	628	0.911 6088	9.996 7619	9	012	
989	9.085 2149	619	9.088 4539	627	0.911 5461	9.996 7609	10	011	
		618		628			9		
.990	9.085 2767		9.088 5167		0.911 4833	9.996 7600		.010	
		618		627			9		
991	9.085 3385		9.088 5794		0.911 4206	9.996 7591		009	
992	9.085 4003	618	9.088 6422	628	0.911 3578	9.996 7582	9	008	
993	9.085 4621	618	9.088 7049	627	0.911 2951	9.996 7572	10	007	
		618		627			9		
994	9.085 5239		9.088 7676		0.911 2324	9.996 7563		006	
995	9.085 5857	618	9.088 8303	627	0.911 1697	9.996 7554	9	005	
996	9.085 6475	618	9.088 8930	627	0.911 1070	9.996 7544	10	004	
		617		627			9		
997	9.085 7092		9.088 9557		0.911 0443	9.996 7535		003	
998	9.085 7710	618	9.089 0184	627	0.910 9816	9.996 7526	9	002	
999	9.085 8327	617	9.089 0811	627	0.910 9189	9.996 7516	10	001	
		618		627			9		
*.000	9.085 8945		9.089 1438		0.910 8562	9.996 7507		.000	
	cos	d	cotg	d	tang	sin	d	83°	P.P.

	631	630	629
1	63.1	63.0	62.9
2	126.2	126.0	125.8
3	189.3	189.0	188.7
4	252.4	252.0	251.6
5	315.5	315.0	314.5
6	378.6	378.0	377.4
7	441.7	441.0	440.3
8	504.8	504.0	503.2
9	567.9	567.0	566.1

	628	627	622
1	62.8	62.7	62.2
2	125.6	125.4	124.4
3	188.4	188.1	186.6
4	251.2	250.8	248.8
5	314.0	313.5	311.0
6	376.8	376.2	373.2
7	439.6	438.9	435.4
8	502.4	501.6	497.6
9	565.2	564.3	559.8

	621	620	619
1	62.1	62.0	61.9
2	124.2	124.0	123.8
3	186.3	186.0	185.7
4	248.4	248.0	247.6
5	310.5	310.0	309.5
6	372.6	372.0	371.4
7	434.7	434.0	433.3
8	496.8	496.0	495.2
9	558.9	558.0	557.1

	618	617
1	61.8	61.7
2	123.6	123.4
3	185.4	185.1
4	247.2	246.8
5	309.0	308.5
6	370.8	370.2
7	432.6	431.9
8	494.4	493.6
9	556.2	555.3

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$83^\circ.050 - 83^\circ.000$

7°.000 — 7°.050

7°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.085 8945	617	9.089 1438	626	0.910 8562	9.996 7507	9	***000**	
001	9.085 9562	617	9.089 2064	627	0.910 7936	9.996 7498	10	999	
002	9.086 0179	617	9.089 2691	626	0.910 7309	9.996 7488	9	998	
003	9.086 0796	617	9.089 3317	626	0.910 6683	9.996 7479	9	997	
004	9.086 1413	617	9.089 3943	627	0.910 6057	9.996 7470	9	996	
005	9.086 2030	617	9.089 4570	626	0.910 5430	9.996 7461	10	995	
006	9.086 2647	617	9.089 5196	626	0.910 4804	9.996 7451	9	994	
007	9.086 3264	617	9.089 5822	626	0.910 4178	9.996 7442	9	993	
008	9.086 3881	616	9.089 6448	626	0.910 3552	9.996 7433	10	992	
009	9.086 4497	617	9.089 7074	626	0.910 2926	9.996 7423	9	991	
.010	9.086 5114	616	9.089 7700	625	0.910 2300	9.996 7414	9	**.990**	
011	9.086 5730	616	9.089 8325	626	0.910 1675	9.996 7405	10	989	
012	9.086 6346	616	9.089 8951	626	0.910 1049	9.996 7395	9	988	
013	9.086 6962	617	9.089 9577	625	0.910 0423	9.996 7386	9	987	
014	9.086 7579	616	9.090 0202	625	0.909 9798	9.996 7377	10	986	
015	9.086 8195	616	9.090 0827	626	0.909 9173	9.996 7367	9	985	
016	9.086 8811	615	9.090 1453	625	0.909 8547	9.996 7358	9	984	
017	9.086 9426	616	9.090 2078	625	0.909 7922	9.996 7349	10	983	
018	9.087 0042	616	9.090 2703	625	0.909 7297	9.996 7339	9	982	
019	9.087 0658	616	9.090 3328	625	0.909 6672	9.996 7330	9	981	
.020	9.087 1274	615	9.090 3953	625	0.909 6047	9.996 7321	10	**.980**	
021	9.087 1889	615	9.090 4578	624	0.909 5422	9.996 7311	9	979	
022	9.087 2504	616	9.090 5202	625	0.909 4798	9.996 7302	9	978	
023	9.087 3120	615	9.090 5827	625	0.909 4173	9.996 7293	10	977	
024	9.087 3735	615	9.090 6452	624	0.909 3548	9.996 7283	9	976	
025	9.087 4350	615	9.090 7076	625	0.909 2924	9.996 7274	9	975	
026	9.087 4965	615	9.090 7701	624	0.909 2299	9.996 7265	10	974	
027	9.087 5580	615	9.090 8325	624	0.909 1675	9.996 7255	9	973	
028	9.087 6195	615	9.090 8949	624	0.909 1051	9.996 7246	9	972	
029	9.087 6810	615	9.090 9573	624	0.909 0427	9.996 7237	10	971	
.030	9.087 7425	614	9.091 0197	624	0.908 9803	9.996 7227	9	**.970**	
031	9.087 8039	615	9.091 0821	624	0.908 9179	9.996 7218	9	969	
032	9.087 8654	614	9.091 1445	624	0.908 8555	9.996 7209	10	968	
033	9.087 9268	615	9.091 2069	624	0.908 7931	9.996 7199	9	967	
034	9.087 9883	614	9.091 2693	623	0.908 7307	9.996 7190	9	966	
035	9.088 0497	614	9.091 3316	624	0.908 6684	9.996 7181	10	965	
036	9.088 1111	614	9.091 3940	623	0.908 6060	9.996 7171	9	964	
037	9.088 1725	614	9.091 4563	624	0.908 5437	9.996 7162	10	963	
038	9.088 2339	614	9.091 5187	623	0.908 4813	9.996 7152	9	962	
039	9.088 2953	614	9.091 5810	623	0.908 4190	9.996 7143	9	961	
.040	9.088 3567	614	9.091 6433	623	0.908 3567	9.996 7134	10	**.960**	
041	9.088 4181	613	9.091 7056	623	0.908 2944	9.996 7124	9	959	
042	9.088 4794	614	9.091 7679	623	0.908 2321	9.996 7115	9	958	
043	9.088 5408	613	9.091 8302	623	0.908 1698	9.996 7106	10	957	
044	9.088 6021	614	9.091 8925	623	0.908 1075	9.996 7096	9	956	
045	9.088 6635	613	9.091 9548	623	0.908 0452	9.996 7087	9	955	
046	9.088 7248	613	9.092 0171	622	0.907 9829	9.996 7078	10	954	
047	9.088 7861	613	9.092 0793	623	0.907 9207	9.996 7068	9	953	
048	9.088 8474	613	9.092 1416	622	0.907 8584	9.996 7059	10	952	
049	9.088 9087	613	9.092 2038	622	0.907 7962	9.996 7049	9	951	
.050	9.088 9700		9.092 2660		0.907 7340	9.996 7040		**.950**	
	cos	d	cotg	d	tang	sin	d	**82°**	P.P.

	627	626	625
1	62.7	62.6	62.5
2	125.4	125.2	125.0
3	188.1	187.8	187.5
4	250.8	250.4	250.0
5	313.5	313.0	312.5
6	376.2	375.6	375.0
7	438.9	438.2	437.5
8	501.6	500.8	500.0
9	564.3	563.4	562.5

	624	623	622
1	62.4	62.3	62.2
2	124.8	124.6	124.4
3	187.2	186.9	186.6
4	249.6	249.2	248.8
5	312.0	311.5	311.0
6	374.4	373.8	373.2
7	436.8	436.1	435.4
8	499.2	498.4	497.6
9	561.6	560.7	559.8

	617	616	615
1	61.7	61.6	61.5
2	123.4	123.2	123.0
3	185.1	184.8	184.5
4	246.8	246.4	246.0
5	308.5	308.0	307.5
6	370.2	369.6	369.0
7	431.9	431.2	430.5
8	493.6	492.8	492.0
9	555.3	554.4	553.5

	614	613
1	61.4	61.3
2	122.8	122.6
3	184.2	183.9
4	245.6	245.2
5	307.0	306.5
6	368.4	367.8
7	429.8	429.1
8	491.2	490.4
9	552.6	551.7

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

83°.000 — 82°.950

7°.050 — 7°.100

7°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.088 9700		9.092 2660		0.907 7340	9.996 7040		**.950**	
		613		623			9		
051	9.089 0313		9.092 3283		0.907 6717	9.996 7031		949	
052	9.089 0926	613	9.092 3905	622	0.907 6095	9.996 7021	10	948	
053	9.089 1539	613	9.092 4527	622	0.907 5473	9.996 7012	9	947	
		612		622			9		
054	9.089 2151		9.092 5149		0.907 4851	9.996 7003		946	
055	9.089 2764	613	9.092 5771	622	0.907 4229	9.996 6993	10	945	
056	9.089 3376	612	9.092 6392	621	0.907 3608	9.996 6984	9	944	
		613		622			10		
057	9.089 3989		9.092 7014		0.907 2986	9.996 6974		943	
058	9.089 4601	612	9.092 7636	622	0.907 2364	9.996 6965	9	942	
059	9.089 5213	612	9.092 8257	621	0.907 1743	9.996 6956	9	941	
		612		622			10		
.060	9.089 5825		9.092 8879		0.907 1121	9.996 6946		**.940**	
		612		621			9		
061	9.089 6437		9.092 9500		0.907 0500	9.996 6937		939	
062	9.089 7049	612	9.093 0122	622	0.906 9878	9.996 6927	10	938	
063	9.089 7661	612	9.093 0743	621	0.906 9257	9.996 6918	9	937	
		612		621			9		
064	9.089 8273		9.093 1364		0.906 8636	9.996 6909		936	
065	9.089 8884	611	9.093 1985	621	0.906 8015	9.996 6899	10	935	
066	9.089 9496	612	9.093 2606	621	0.906 7394	9.996 6890	9	934	
		611		621			9		
067	9.090 0107		9.093 3227		0.906 6773	9.996 6881		933	
068	9.090 0719	612	9.093 3847	620	0.906 6153	9.996 6871	10	932	
069	9.090 1330	611	9.093 4468	621	0.906 5532	9.996 6862	9	931	
		611		621			10		
.070	9.090 1941		9.093 5089		0.906 4911	9.996 6852		**.930**	
		611		620			9		
071	9.090 2552		9.093 5709		0.906 4291	9.996 6843		929	
072	9.090 3163	611	9.093 6330	621	0.906 3670	9.996 6834	9	928	
073	9.090 3774	611	9.093 6950	620	0.906 3050	9.996 6824	10	927	
		611		620			9		
074	9.090 4385		9.093 7570		0.906 2430	9.996 6815		926	
075	9.090 4996	611	9.093 8190	620	0.906 1810	9.996 6805	10	925	
076	9.090 5606	610	9.093 8811	621	0.906 1189	9.996 6796	9	924	
		611		620			10		
077	9.090 6217		9.093 9431		0.906 0569	9.996 6786		923	
078	9.090 6828	611	9.094 0050	619	0.905 9950	9.996 6777	9	922	
079	9.090 7438	610	9.094 0670	620	0.905 9330	9.996 6768	9	921	
		610		620			10		
.080	9.090 8048		9.094 1290		0.905 8710	9.996 6758		**.920**	
		611		620			9		
081	9.090 8659		9.094 1910		0.905 8090	9.996 6749		919	
082	9.090 9269	610	9.094 2529	619	0.905 7471	9.996 6739	10	918	
083	9.090 9879	610	9.094 3149	620	0.905 6851	9.996 6730	9	917	
		610		619			9		
084	9.091 0489		9.094 3768		0.905 6232	9.996 6721		916	
085	9.091 1099	610	9.094 4387	619	0.905 5613	9.996 6711	10	915	
086	9.091 1708	609	9.094 5007	620	0.905 4993	9.996 6702	9	914	
		610		619			10		
087	9.091 2318		9.094 5626		0.905 4374	9.996 6692		913	
088	9.091 2928	610	9.094 6245	619	0.905 3755	9.996 6683	9	912	
089	9.091 3537	609	9.094 6864	619	0.905 3136	9.996 6673	10	911	
		610		619			9		
.090	9.091 4147		9.094 7483		0.905 2517	9.996 6664		**.910**	
		609		619			9		
091	9.091 4756		9.094 8102		0.905 1898	9.996 6655		909	
092	9.091 5365	609	9.094 8720	618	0.905 1280	9.996 6645	10	908	
093	9.091 5975	610	9.094 9339	619	0.905 0661	9.996 6636	9	907	
		609		618			10		
094	9.091 6584		9.094 9957		0.905 0043	9.996 6626		906	
095	9.091 7193	609	9.095 0576	619	0.904 9424	9.996 6617	9	905	
096	9.091 7802	609	9.095 1194	618	0.904 8806	9.996 6607	10	904	
		609		619			9		
097	9.091 8411		9.095 1813		0.904 8187	9.996 6598		903	
098	9.091 9019	608	9.095 2431	618	0.904 7569	9.996 6589	9	902	
099	9.091 9628	609	9.095 3049	618	0.904 6951	9.996 6579	10	901	
		609		618			9		
.100	9.092 0237		9.095 3667		0.904 6333	9.996 6570		**.900**	
	cos	d	cotg	d	tang	sin	d	**82°**	P.P.

	623	622	621
1	62.3	62.2	62.1
2	124.6	124.4	124.2
3	186.9	186.6	186.3
4	249.2	248.8	248.4
5	311.5	311.0	310.5
6	373.8	373.2	372.6
7	436.1	435.4	434.7
8	498.4	497.6	496.8
9	560.7	559.8	558.9

	620	619	618
1	62.0	61.9	61.8
2	124.0	123.8	123.6
3	186.0	185.7	185.4
4	248.0	247.6	247.2
5	310.0	309.5	309.0
6	372.0	371.4	370.8
7	434.0	433.3	432.6
8	496.0	495.2	494.4
9	558.0	557.1	556.2

	613	612	611
1	61.3	61.2	61.1
2	122.6	122.4	122.2
3	183.9	183.6	183.3
4	245.2	244.8	244.4
5	306.5	306.0	305.5
6	367.8	367.2	366.6
7	429.1	428.4	427.7
8	490.4	489.6	488.8
9	551.7	550.8	549.9

	610	609	608
1	61.0	60.9	60.8
2	122.0	121.8	121.6
3	183.0	182.7	182.4
4	244.0	243.6	243.2
5	305.0	304.5	304.0
6	366.0	365.4	364.8
7	427.0	426.3	425.6
8	488.0	487.2	486.4
9	549.0	548.1	547.2

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

82°.950 — 82°.900

$7^\circ.100 - 7^\circ.150$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.092 0237		9.095 3667		0.904 6333	9.996 6570		**.900**	
		608		618			10		
101	9.092 0845		9.095 4285		0.904 5715	9.996 6560		899	
		609		618			9		
102	9.092 1454		9.095 4903		0.904 5097	9.996 6551		898	
		608		617			10		
103	9.092 2062		9.095 5520		0.904 4480	9.996 6541		897	
		608		618			9		
104	9.092 2670		9.095 6138		0.904 3862	9.996 6532		896	
		608		618			10		
105	9.092 3278		9.095 6756		0.904 3244	9.996 6522		895	
		608		617			9		
106	9.092 3886		9.095 7373		0.904 2627	9.996 6513		894	
		608		618			9		
107	9.092 4494		9.095 7991		0.904 2009	9.996 6504		893	
		608		617			10		
108	9.092 5102		9.095 8608		0.904 1392	9.996 6494		892	
		608		617			9		
109	9.092 5710		9.095 9225		0.904 0775	9.996 6485		891	
		608		618			10		
.110	9.092 6318		9.095 9843		0.904 0157	9.996 6475		**.890**	
		607		617			9		
111	9.092 6925		9.096 0460		0.903 9540	9.996 6466		889	
		608		617			10		
112	9.092 7533		9.096 1077		0.903 8923	9.996 6456		888	
		607		617			9		
113	9.092 8140		9.096 1694		0.903 8306	9.996 6447		887	
		608		616			10		
114	9.092 8748		9.096 2310		0.903 7690	9.996 6437		886	
		607		617			9		
115	9.092 9355		9.096 2927		0.903 7073	9.996 6428		885	
		607		617			10		
116	9.092 9962		9.096 3544		0.903 6456	9.996 6418		884	
		607		616			9		
117	9.093 0569		9.096 4160		0.903 5840	9.996 6409		883	
		607		617			9		
118	9.093 1176		9.096 4777		0.903 5223	9.996 6400		882	
		607		616			10		
119	9.093 1783		9.096 5393		0.903 4607	9.996 6390		881	
		607		617			9		
.120	9.093 2390		9.096 6010		0.903 3990	9.996 6381		**.880**	
		607		616			10		
121	9.093 2997		9.096 6626		0.903 3374	9.996 6371		879	
		607		616			9		
122	9.093 3604		9.096 7242		0.903 2758	9.996 6362		878	
		606		616			10		
123	9.093 4210		9.096 7858		0.903 2142	9.996 6352		877	
		607		616			9		
124	9.093 4817		9.096 8474		0.903 1526	9.996 6343		876	
		606		616			10		
125	9.093 5423		9.096 9090		0.903 0910	9.996 6333		875	
		607		616			9		
126	9.093 6030		9.096 9706		0.903 0294	9.996 6324		874	
		606		616			10		
127	9.093 6636		9.097 0322		0.902 9678	9.996 6314		873	
		606		615			9		
128	9.093 7242		9.097 0937		0.902 9063	9.996 6305		872	
		606		616			10		
129	9.093 7848		9.097 1553		0.902 8447	9.996 6295		871	
		606		615			9		
.130	9.093 8454		9.097 2168		0.902 7832	9.996 6286		**.870**	
		606		616			10		
131	9.093 9060		9.097 2784		0.902 7216	9.996 6276		869	
		606		615			9		
132	9.093 9666		9.097 3399		0.902 6601	9.996 6267		868	
		606		615			10		
133	9.094 0272		9.097 4014		0.902 5986	9.996 6257		867	
		605		615			9		
134	9.094 0877		9.097 4629		0.902 5371	9.996 6248		866	
		606		615			10		
135	9.094 1483		9.097 5244		0.902 4756	9.996 6238		865	
		605		615			9		
136	9.094 2088		9.097 5859		0.902 4141	9.996 6229		864	
		606		615			10		
137	9.094 2694		9.097 6474		0.902 3526	9.996 6219		863	
		605		615			9		
138	9.094 3299		9.097 7089		0.902 2911	9.996 6210		862	
		605		615			10		
139	9.094 3904		9.097 7704		0.902 2296	9.996 6200		861	
		606		615			9		
.140	9.094 4510		9.097 8319		0.902 1681	9.996 6191		**.860**	
		605		614			10		
141	9.094 5115		9.097 8933		0.902 1067	9.996 6181		859	
		605		615			9		
142	9.094 5720		9.097 9548		0.902 0452	9.996 6172		858	
		604		614			10		
143	9.094 6324		9.098 0162		0.901 9838	9.996 6162		857	
		605		614			9		
144	9.094 6929		9.098 0776		0.901 9224	9.996 6153		856	
		605		614			10		
145	9.094 7534		9.098 1390		0.901 8610	9.996 6143		855	
		605		615			9		
146	9.094 8139		9.098 2005		0.901 7995	9.996 6134		854	
		604		614			10		
147	9.094 8743		9.098 2619		0.901 7381	9.996 6124		853	
		605		614			9		
148	9.094 9348		9.098 3233		0.901 6767	9.996 6115		852	
		604		614			10		
149	9.094 9952		9.098 3847		0.901 6153	9.996 6105		851	
		604		613			9		
.150	9.095 0556		9.098 4460		0.901 5540	9.996 6096		**.850**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	618	617	616
1	61.8	61.7	61.6
2	123.6	123.4	123.2
3	185.4	185.1	184.8
4	247.2	246.8	246.4
5	309.0	308.5	308.0
6	370.8	370.2	369.6
7	432.6	431.9	431.2
8	494.4	493.6	492.8
9	556.2	555.3	554.4

	615	614	613
1	61.5	61.4	61.3
2	123.0	122.8	122.6
3	184.5	184.2	183.9
4	246.0	245.6	245.2
5	307.5	307.0	306.5
6	369.0	368.4	367.8
7	430.5	429.8	429.1
8	492.0	491.2	490.4
9	553.5	552.6	551.7

	609	608	607
1	60.9	60.8	60.7
2	121.8	121.6	121.4
3	182.7	182.4	182.1
4	243.6	243.2	242.8
5	304.5	304.0	303.5
6	365.4	364.8	364.2
7	426.3	425.6	424.9
8	487.2	486.4	485.6
9	548.1	547.2	546.3

	606	605	604
1	60.6	60.5	60.4
2	121.2	121.0	120.8
3	181.8	181.5	181.2
4	242.4	242.0	241.6
5	303.0	302.5	302.0
6	363.6	363.0	362.4
7	424.2	423.5	422.8
8	484.8	484.0	483.2
9	545.4	544.5	543.6

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$82^\circ.900 - 82^\circ.850$

$7^\circ.150$ — $7^\circ.200$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.095 0556		9.098 4460		0.901 5540	9.996 6096		**.850**	
		604		614			10		
151	9.095 1160		9.098 5074		0.901 4926	9.996 6086		849	
152	9.095 1765	605	9.098 5688	614	0.901 4312	9.996 6077	9	848	
153	9.095 2369	604	9.098 6301	613	0.901 3699	9.996 6067	10	847	
		604		614			9		
154	9.095 2973		9.098 6915		0.901 3085	9.996 6058		846	
155	9.095 3576	603	9.098 7528	613	0.901 2472	9.996 6048	10	845	
156	9.095 4180	604	9.098 8141	613	0.901 1859	9.996 6039	9	844	
		604		614			10		
157	9.095 4784		9.098 8755		0.901 1245	9.996 6029		843	
158	9.095 5388	604	9.098 9368	613	0.901 0632	9.996 6020	9	842	
159	9.095 5991	603	9.098 9981	613	0.901 0019	9.996 6010	10	841	
		603		613			9		
.160	9.095 6594		9.099 0594		0.900 9406	9.996 6001		**.840**	
		604		613			10		
161	9.095 7198		9.099 1207		0.900 8793	9.996 5991		839	
162	9.095 7801	603	9.099 1819	612	0.900 8181	9.996 5982	9	838	
163	9.095 8404	603	9.099 2432	613	0.900 7568	9.996 5972	10	837	
		603		613			9		
164	9.095 9007		9.099 3045		0.900 6955	9.996 5963		836	
165	9.095 9610	603	9.099 3657	612	0.900 6343	9.996 5953	10	835	
166	9.096 0213	603	9.099 4270	613	0.900 5730	9.996 5944	9	834	
		603		612			10		
167	9.096 0816		9.099 4882		0.900 5118	9.996 5934		833	
168	9.096 1419	603	9.099 5494	612	0.900 4506	9.996 5925	9	832	
169	9.096 2022	603	9.099 6107	613	0.900 3893	9.996 5915	10	831	
		602		612			9		
.170	9.096 2624		9.099 6719		0.900 3281	9.996 5906		**.830**	
		603		612			10		
171	9.096 3227		9.099 7331		0.900 2669	9.996 5896		829	
172	9.096 3829	602	9.099 7943	612	0.900 2057	9.996 5886	10	828	
173	9.096 4431	602	9.099 8555	612	0.900 1445	9.996 5877	9	827	
		603		611			10		
174	9.096 5034		9.099 9166		0.900 0834	9.996 5867		826	
175	9.096 5636	602	9.099 9778	612	0.900 0222	9.996 5858	9	825	
176	9.096 6238	602	9.100 0390	612	0.899 9610	9.996 5848	10	824	
		602		611			9		
177	9.096 6840		9.100 1001		0.899 8999	9.996 5839		823	
178	9.096 7442	602	9.100 1613	612	0.899 8387	9.996 5829	10	822	
179	9.096 8044	602	9.100 2224	611	0.899 7776	9.996 5820	9	821	
		601		611			10		
.180	9.096 8645		9.100 2835		0.899 7165	9.996 5810		**.820**	
		602		612			9		
181	9.096 9247		9.100 3447		0.899 6553	9.996 5801		819	
182	9.096 9849	602	9.100 4058	611	0.899 5942	9.996 5791	10	818	
183	9.097 0450	601	9.100 4669	611	0.899 5331	9.996 5781	10	817	
		602		611			9		
184	9.097 1052		9.100 5280		0.899 4720	9.996 5772		816	
185	9.097 1653	601	9.100 5890	610	0.899 4110	9.996 5762	10	815	
186	9.097 2254	601	9.100 6501	611	0.899 3499	9.996 5753	9	814	
		601		611			10		
187	9.097 2855		9.100 7112		0.899 2888	9.996 5743		813	
188	9.097 3456	601	9.100 7723	611	0.899 2277	9.996 5734	9	812	
189	9.097 4057	601	9.100 8333	610	0.899 1667	9.996 5724	10	811	
		601		611			9		
.190	9.097 4658		9.100 8944		0.899 1056	9.996 5715		**.810**	
		601		610			10		
191	9.097 5259		9.100 9554		0.899 0446	9.996 5705		809	
192	9.097 5860	601	9.101 0164	610	0.898 9836	9.996 5695	10	808	
193	9.097 6460	600	9.101 0774	610	0.898 9226	9.996 5686	9	807	
		601		611			10		
194	9.097 7061		9.101 1385		0.898 8615	9.996 5676		806	
195	9.097 7661	600	9.101 1995	610	0.898 8005	9.996 5667	9	805	
196	9.097 8262	601	9.101 2605	610	0.898 7395	9.996 5657	10	804	
		600		609			9		
197	9.097 8862		9.101 3214		0.898 6786	9.996 5648		803	
198	9.097 9462	600	9.101 3824	610	0.898 6176	9.996 5638	10	802	
199	9.098 0062	600	9.101 4434	610	0.898 5566	9.996 5628	10	801	
		600		610			9		
.200	9.098 0662		9.101 5044		0.898 4956	9.996 5619		**.800**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	614	613	612
1	61.4	61.3	61.2
2	122.8	122.6	122.4
3	184.2	183.9	183.6
4	245.6	245.2	244.8
5	307.0	306.5	306.0
6	368.4	367.8	367.2
7	429.8	429.1	428.4
8	491.2	490.4	489.6
9	552.6	551.7	550.8

	611	610	609
1	61.1	61.0	60.9
2	122.2	122.0	121.8
3	183.3	183.0	182.7
4	244.4	244.0	243.6
5	305.5	305.0	304.5
6	366.6	366.0	365.4
7	427.7	427.0	426.3
8	488.8	488.0	487.2
9	549.9	549.0	548.1

	605	604	603
1	60.5	60.4	60.3
2	121.0	120.8	120.6
3	181.5	181.2	180.9
4	242.0	241.6	241.2
5	302.5	302.0	301.5
6	363.0	362.4	361.8
7	423.5	422.8	422.1
8	484.0	483.2	482.4
9	544.5	543.6	542.7

	602	601	600
1	60.2	60.1	60.0
2	120.4	120.2	120.0
3	180.6	180.3	180.0
4	240.8	240.4	240.0
5	301.0	300.5	300.0
6	361.2	360.6	360.0
7	421.4	420.7	420.0
8	481.6	480.8	480.0
9	541.8	540.9	540.0

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$82^\circ.850$ — $82^\circ.800$

7°.200 — 7°.250

7°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.098 0662		9.101 5044		0.898 4956	9.996 5619		**.800**	
		600		609			10		
201	9.098 1262		9.101 5653		0.898 4347	9.996 5609		799	
202	9.098 1862	600	9.101 6263	610	0.898 3737	9.996 5600	9	798	
203	9.098 2462	600	9.101 6872	609	0.898 3128	9.996 5590	10	797	
204	9.098 3062	600	9.101 7481	609	0.898 2519	9.996 5581	9	796	
205	9.098 3661	599	9.101 8090	609	0.898 1910	9.996 5571	10	795	
206	9.098 4261	600	9.101 8700	610	0.898 1300	9.996 5561	10	794	
207	9.098 4860	599	9.101 9309	609	0.898 0691	9.996 5552	9	793	
208	9.098 5460	600	9.101 9918	609	0.898 0082	9.996 5542	10	792	
209	9.098 6059	599	9.102 0526	608	0.897 9474	9.996 5533	9	791	
.210	9.098 6658	599	9.102 1135	609	0.897 8865	9.996 5523	10	**.790**	
		599		609			10		
211	9.098 7257		9.102 1744		0.897 8256	9.996 5513		789	
212	9.098 7856	599	9.102 2353	609	0.897 7647	9.996 5504	9	788	
213	9.098 8455	599	9.102 2961	608	0.897 7039	9.996 5494	10	787	
214	9.098 9054	599	9.102 3570	609	0.897 6430	9.996 5485	9	786	
215	9.098 9653	599	9.102 4178	608	0.897 5822	9.996 5475	10	785	
216	9.099 0252	599	9.102 4786	608	0.897 5214	9.996 5465	10	784	
217	9.099 0850	598	9.102 5395	609	0.897 4605	9.996 5456	9	783	
218	9.099 1449	599	9.102 6003	608	0.897 3997	9.996 5446	10	782	
219	9.099 2047	598	9.102 6611	608	0.897 3389	9.996 5437	9	781	
.220	9.099 2646	599	9.102 7219	608	0.897 2781	9.996 5427	10	**.780**	
		598		608			10		
221	9.099 3244		9.102 7827		0.897 2173	9.996 5417		779	
222	9.099 3842	598	9.102 8434	607	0.897 1566	9.996 5408	9	778	
223	9.099 4440	598	9.102 9042	608	0.897 0958	9.996 5398	10	777	
224	9.099 5038	598	9.102 9650	608	0.897 0350	9.996 5389	9	776	
225	9.099 5636	598	9.103 0257	607	0.896 9743	9.996 5379	10	775	
226	9.099 6234	598	9.103 0865	608	0.896 9135	9.996 5369	10	774	
227	9.099 6832	598	9.103 1472	607	0.896 8528	9.996 5360	9	773	
228	9.099 7430	598	9.103 2080	608	0.896 7920	9.996 5350	10	772	
229	9.099 8027	597	9.103 2687	607	0.896 7313	9.996 5341	9	771	
.230	9.099 8625	598	9.103 3294	607	0.896 6706	9.996 5331	10	**.770**	
		597		607			10		
231	9.099 9222		9.103 3901		0.896 6099	9.996 5321		769	
232	9.099 9820	598	9.103 4508	607	0.896 5492	9.996 5312	9	768	
233	9.100 0417	597	9.103 5115	607	0.896 4885	9.996 5302	10	767	
234	9.100 1014	597	9.103 5722	606	0.896 4278	9.996 5293	9	766	
235	9.100 1611	597	9.103 6328	607	0.896 3672	9.996 5283	10	765	
236	9.100 2208	597	9.103 6935	607	0.896 3065	9.996 5273	10	764	
237	9.100 2805	597	9.103 7542	606	0.896 2458	9.996 5264	9	763	
238	9.100 3402	597	9.103 8148	607	0.896 1852	9.996 5254	10	762	
239	9.100 3999	597	9.103 8755	606	0.896 1245	9.996 5244	10	761	
.240	9.100 4596	596	9.103 9361	606	0.896 0639	9.996 5235	9	**.760**	
		597		606			10		
241	9.100 5192		9.103 9967		0.896 0033	9.996 5225		759	
242	9.100 5789	596	9.104 0573	606	0.895 9427	9.996 5215	10	758	
243	9.100 6385	597	9.104 1179	606	0.895 8821	9.996 5206	9	757	
244	9.100 6982	596	9.104 1785	606	0.895 8215	9.996 5196	10	756	
245	9.100 7578	596	9.104 2391	606	0.895 7609	9.996 5187	9	755	
246	9.100 8174	596	9.104 2997	606	0.895 7003	9.996 5177	10	754	
247	9.100 8770	596	9.104 3603	606	0.895 6397	9.996 5167	10	753	
248	9.100 9366	596	9.104 4209	605	0.895 5791	9.996 5158	9	752	
249	9.100 9962	596	9.104 4814	606	0.895 5186	9.996 5148	10	751	
.250	9.101 0558		9.104 5420		0.895 4580	9.996 5138	10	**.750**	
	cos	d	cotg	d	tang	sin	d	**82°**	P.P.

	610	609	608
1	61.0	60.9	60.8
2	122.0	121.8	121.6
3	183.0	182.7	182.4
4	244.0	243.6	243.2
5	305.0	304.5	304.0
6	366.0	365.4	364.8
7	427.0	426.3	425.6
8	488.0	487.2	486.4
9	549.0	548.1	547.2

	607	606	605
1	60.7	60.6	60.5
2	121.4	121.2	121.0
3	182.1	181.8	181.5
4	242.8	242.4	242.0
5	303.5	303.0	302.5
6	364.2	363.6	363.0
7	424.9	424.2	423.5
8	485.6	484.8	484.0
9	546.3	545.4	544.5

	600	599	598
1	60.0	59.9	59.8
2	120.0	119.8	119.6
3	180.0	179.7	179.4
4	240.0	239.6	239.2
5	300.0	299.5	299.0
6	360.0	359.4	358.8
7	420.0	419.3	418.6
8	480.0	479.2	478.4
9	540.0	539.1	538.2

	597	596
1	59.7	59.6
2	119.4	119.2
3	179.1	178.8
4	238.8	238.4
5	298.5	298.0
6	358.2	357.6
7	417.9	417.2
8	477.6	476.8
9	537.3	536.4

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

82°.800 — 82°.750

$7^\circ.250 - 7^\circ.300$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.101 0558		9.104 5420		0.895 4580	9.996 5138		.750	
		596		605			9		
251	9.101 1154		9.104 6025		0.895 3975	9.996 5129		749	
252	9.101 1750	596	9.104 6630	605	0.895 3370	9.996 5119	10	748	
253	9.101 2345	595	9.104 7236	606	0.895 2764	9.996 5109	10	747	
		596		605			9		
254	9.101 2941		9.104 7841		0.895 2159	9.996 5100		746	
255	9.101 3536	595	9.104 8446	605	0.895 1554	9.996 5090	10	745	
256	9.101 4132	596	9.104 9051	605	0.895 0949	9.996 5081	9	744	
		595		605			10		
257	9.101 4727		9.104 9656		0.895 0344	9.996 5071		743	
258	9.101 5322	595	9.105 0261	605	0.894 9739	9.996 5061	10	742	
259	9.101 5917	595	9.105 0866	605	0.894 9134	9.996 5052	9	741	
		595		604			10		
.260	9.101 6512		9.105 1470		0.894 8530	9.996 5042		.740	
		595		605			10		
261	9.101 7107		9.105 2075		0.894 7925	9.996 5032		739	
262	9.101 7702	595	9.105 2679	604	0.894 7321	9.996 5023	9	738	
263	9.101 8297	595	9.105 3284	605	0.894 6716	9.996 5013	10	737	
		595		604			10		
264	9.101 8892		9.105 3888		0.894 6112	9.996 5003		736	
265	9.101 9486	594	9.105 4493	605	0.894 5507	9.996 4994	9	735	
266	9.102 0081	595	9.105 5097	604	0.894 4903	9.996 4984	10	734	
		594		604			10		
267	9.102 0675		9.105 5701		0.894 4299	9.996 4974		733	
268	9.102 1270	595	9.105 6305	604	0.894 3695	9.996 4965	9	732	
269	9.102 1864	594	9.105 6909	604	0.894 3091	9.996 4955	10	731	
		594		604			10		
.270	9.102 2458		9.105 7513		0.894 2487	9.996 4945		.730	
		594		604			9		
271	9.102 3052		9.105 8117		0.894 1883	9.996 4936		729	
272	9.102 3646	594	9.105 8720	603	0.894 1280	9.996 4926	10	728	
273	9.102 4240	594	9.105 9324	604	0.894 0676	9.996 4916	10	727	
		594		603			9		
274	9.102 4834		9.105 9927		0.894 0073	9.996 4907		726	
275	9.102 5428	594	9.106 0531	604	0.893 9469	9.996 4897	10	725	
276	9.102 6022	594	9.106 1134	603	0.893 8866	9.996 4887	10	724	
		593		604			9		
277	9.102 6615		9.106 1738		0.893 8262	9.996 4878		723	
278	9.102 7209	594	9.106 2341	603	0.893 7659	9.996 4868	10	722	
279	9.102 7802	593	9.106 2944	603	0.893 7056	9.996 4858	10	721	
		594		603			9		
.280	9.102 8396		9.106 3547		0.893 6453	9.996 4849		.720	
		593		603			10		
281	9.102 8989		9.106 4150		0.893 5850	9.996 4839		719	
282	9.102 9582	593	9.106 4753	603	0.893 5247	9.996 4829	10	718	
283	9.103 0175	593	9.106 5356	603	0.893 4644	9.996 4819	10	717	
		593		603			9		
284	9.103 0768		9.106 5959		0.893 4041	9.996 4810		716	
285	9.103 1361	593	9.106 6561	602	0.893 3439	9.996 4800	10	715	
286	9.103 1954	593	9.106 7164	603	0.893 2836	9.996 4790	10	714	
		593		602			9		
287	9.103 2547		9.106 7766		0.893 2234	9.996 4781		713	
288	9.103 3140	593	9.106 8369	603	0.893 1631	9.996 4771	10	712	
289	9.103 3732	592	9.106 8971	602	0.893 1029	9.996 4761	10	711	
		593		602			9		
.290	9.103 4325		9.106 9573		0.893 0427	9.996 4752		.710	
		592		602			10		
291	9.103 4917		9.107 0175		0.892 9825	9.996 4742		709	
292	9.103 5510	593	9.107 0778	603	0.892 9222	9.996 4732	10	708	
293	9.103 6102	592	9.107 1380	602	0.892 8620	9.996 4723	9	707	
		592		602			10		
294	9.103 6694		9.107 1982		0.892 8018	9.996 4713		706	
295	9.103 7286	592	9.107 2583	601	0.892 7417	9.996 4703	10	705	
296	9.103 7879	593	9.107 3185	602	0.892 6815	9.996 4693	10	704	
		592		602			9		
297	9.103 8471		9.107 3787		0.892 6213	9.996 4684		703	
298	9.103 9062	591	9.107 4388	601	0.892 5612	9.996 4674	10	702	
299	9.103 9654	592	9.107 4990	602	0.892 5010	9.996 4664	10	701	
		592		601			9		
.300	9.104 0246		9.107 5591		0.892 4409	9.996 4655		.700	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	606	605	604
1	60.6	60.5	60.4
2	121.2	121.0	120.8
3	181.8	181.5	181.2
4	242.4	242.0	241.6
5	303.0	302.5	302.0
6	363.6	363.0	362.4
7	424.2	423.5	422.8
8	484.8	484.0	483.2
9	545.4	544.5	543.6

	603	602	601
1	60.3	60.2	60.1
2	120.6	120.4	120.2
3	180.9	180.6	180.3
4	241.2	240.8	240.4
5	301.5	301.0	300.5
6	361.8	361.2	360.6
7	422.1	421.4	420.7
8	482.4	481.6	480.8
9	542.7	541.8	540.9

	596	595	594
1	59.6	59.5	59.4
2	119.2	119.0	118.8
3	178.8	178.5	178.2
4	238.4	238.0	237.6
5	298.0	297.5	297.0
6	357.6	357.0	356.4
7	417.2	416.5	415.8
8	476.8	476.0	475.2
9	536.4	535.5	534.6

	593	592	591
1	59.3	59.2	59.1
2	118.6	118.4	118.2
3	177.9	177.6	177.3
4	237.2	236.8	236.4
5	296.5	296.0	295.5
6	355.8	355.2	354.6
7	415.1	414.4	413.7
8	474.4	473.6	472.8
9	533.7	532.8	531.9

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$82^\circ.750 - 82^\circ.700$

$7^\circ.300 - 7^\circ.350$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.104 0246		9.107 5591		0.892 4409	9.996 4655		**.700**	
		592		602			10		
301	9.104 0838		9.107 6193		0.892 3807	9.996 4645		699	
302	9.104 1429	591	9.107 6794	601	0.892 3206	9.996 4635	10	698	
303	9.104 2021	592	9.107 7395	601	0.892 2605	9.996 4625	10	697	
		591		601			9		
304	9.104 2612		9.107 7996		0.892 2004	9.996 4616		696	
305	9.104 3204	592	9.107 8598	602	0.892 1402	9.996 4606	10	695	
306	9.104 3795	591	9.107 9198	600	0.892 0802	9.996 4596	10	694	
		591		601			9		
307	9.104 4386		9.107 9799		0.892 0201	9.996 4587		693	
308	9.104 4977	591	9.108 0400	601	0.891 9600	9.996 4577	10	692	
309	9.104 5568	591	9.108 1001	601	0.891 8999	9.996 4567	10	691	
		591		601			10		
.310	9.104 6159		9.108 1602		0.891 8398	9.996 4557		**.690**	
		591		600			9		
311	9.104 6750		9.108 2202		0.891 7798	9.996 4548		689	
312	9.104 7341	591	9.108 2803	601	0.891 7197	9.996 4538	10	688	
313	9.104 7931	590	9.108 3403	600	0.891 6597	9.996 4528	10	687	
		591		600			10		
314	9.104 8522		9.108 4003		0.891 5997	9.996 4518		686	
315	9.104 9112	590	9.108 4604	601	0.891 5396	9.996 4509	9	685	
316	9.104 9703	591	9.108 5204	600	0.891 4796	9.996 4499	10	684	
		590		600			10		
317	9.105 0293		9.108 5804		0.891 4196	9.996 4489		683	
318	9.105 0883	590	9.108 6404	600	0.891 3596	9.996 4480	9	682	
319	9.105 1474	591	9.108 7004	600	0.891 2996	9.996 4470	10	681	
		590		600			10		
.320	9.105 2064		9.108 7604		0.891 2396	9.996 4460		**.680**	
		590		599			10		
321	9.105 2654		9.108 8203		0.891 1797	9.996 4450		679	
322	9.105 3244	590	9.108 8803	600	0.891 1197	9.996 4441	9	678	
323	9.105 3834	590	9.108 9403	600	0.891 0597	9.996 4431	10	677	
		589		599			10		
324	9.105 4423		9.109 0002		0.890 9998	9.996 4421		676	
325	9.105 5013	590	9.109 0602	600	0.890 9398	9.996 4411	10	675	
326	9.105 5603	590	9.109 1201	599	0.890 8799	9.996 4402	9	674	
		589		599			10		
327	9.105 6192		9.109 1800		0.890 8200	9.996 4392		673	
328	9.105 6782	590	9.109 2399	599	0.890 7601	9.996 4382	10	672	
329	9.105 7371	589	9.109 2999	600	0.890 7001	9.996 4372	10	671	
		589		599			9		
.330	9.105 7960		9.109 3598		0.890 6402	9.996 4363		**.670**	
		590		599			10		
331	9.105 8550		9.109 4197		0.890 5803	9.996 4353		669	
332	9.105 9139	589	9.109 4795	598	0.890 5205	9.996 4343	10	668	
333	9.105 9728	589	9.109 5394	599	0.890 4606	9.996 4333	10	667	
		589		599			9		
334	9.106 0317		9.109 5993		0.890 4007	9.996 4324		666	
335	9.106 0906	589	9.109 6592	599	0.890 3408	9.996 4314	10	665	
336	9.106 1494	588	9.109 7190	598	0.890 2810	9.996 4304	10	664	
		589		599			10		
337	9.106 2083		9.109 7789		0.890 2211	9.996 4294		663	
338	9.106 2672	589	9.109 8387	598	0.890 1613	9.996 4285	9	662	
339	9.106 3260	588	9.109 8985	598	0.890 1015	9.996 4275	10	661	
		589		599			10		
.340	9.106 3849		9.109 9584		0.890 0416	9.996 4265		**.660**	
		588		598			10		
341	9.106 4437		9.110 0182		0.889 9818	9.996 4255		659	
342	9.106 5025	588	9.110 0780	598	0.889 9220	9.996 4246	9	658	
343	9.106 5614	589	9.110 1378	598	0.889 8622	9.996 4236	10	657	
		588		598			10		
344	9.106 6202		9.110 1976		0.889 8024	9.996 4226		656	
345	9.106 6790	588	9.110 2574	598	0.889 7426	9.996 4216	10	655	
346	9.106 7378	588	9.110 3171	597	0.889 6829	9.996 4206	10	654	
		588		598			9		
347	9.106 7966		9.110 3769		0.889 6231	9.996 4197		653	
348	9.106 8554	588	9.110 4367	598	0.889 5633	9.996 4187	10	652	
349	9.106 9141	587	9.110 4964	597	0.889 5036	9.996 4177	10	651	
		588		598			10		
.350	9.106 9729		9.110 5562		0.889 4438	9.996 4167		**.650**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	602	601	600
1	60.2	60.1	60.0
2	120.4	120.2	120.0
3	180.6	180.3	180.0
4	240.8	240.4	240.0
5	301.0	300.5	300.0
6	361.2	360.6	360.0
7	421.4	420.7	420.0
8	481.6	480.8	480.0
9	541.8	540.9	540.0

	599	598	597
1	59.9	59.8	59.7
2	119.8	119.6	119.4
3	179.7	179.4	179.1
4	239.6	239.2	238.8
5	299.5	299.0	298.5
6	359.4	358.8	358.2
7	419.3	418.6	417.9
8	479.2	478.4	477.6
9	539.1	538.2	537.3

	592	591	590
1	59.2	59.1	59.0
2	118.4	118.2	118.0
3	177.6	177.3	177.0
4	236.8	236.4	236.0
5	296.0	295.5	295.0
6	355.2	354.6	354.0
7	414.4	413.7	413.0
8	473.6	472.8	472.0
9	532.8	531.9	531.0

	589	588	587
1	58.9	58.8	58.7
2	117.8	117.6	117.4
3	176.7	176.4	176.1
4	235.6	235.2	234.8
5	294.5	294.0	293.5
6	353.4	352.8	352.2
7	412.3	411.6	410.9
8	471.2	470.4	469.6
9	530.1	529.2	528.3

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$82^\circ.700 - 82^\circ.650$

$7^\circ.350 - 7^\circ.400$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.106 9729		9.110 5562		0.889 4438	9.996 4167		**.650**	
		588		597			9		
351	9.107 0317		9.110 6159		0.889 3841	9.996 4158		649	
352	9.107 0904	587	9.110 6756	597	0.889 3244	9.996 4148	10	648	
353	9.107 1492	588	9.110 7354	598	0.889 2646	9.996 4138	10	647	
		587		597			10		
354	9.107 2079		9.110 7951		0.889 2049	9.996 4128		646	
355	9.107 2666	587	9.110 8548	597	0.889 1452	9.996 4118	10	645	
356	9.107 3253	587	9.110 9145	597	0.889 0855	9.996 4109	9	644	
		588		597			10		
357	9.107 3841		9.110 9742		0.889 0258	9.996 4099		643	
358	9.107 4428	587	9.111 0338	596	0.888 9662	9.996 4089	10	642	
359	9.107 5015	587	9.111 0935	597	0.888 9065	9.996 4079	10	641	
		586		597			9		
.360	9.107 5601		9.111 1532		0.888 8468	9.996 4070		**.640**	
		587		596			10		
361	9.107 6188		9.111 2128		0.888 7872	9.996 4060		639	
362	9.107 6775	587	9.111 2725	597	0.888 7275	9.996 4050	10	638	
363	9.107 7362	587	9.111 3321	596	0.888 6679	9.996 4040	10	637	
		586		597			10		
364	9.107 7948		9.111 3918		0.888 6082	9.996 4030		636	
365	9.107 8535	587	9.111 4514	596	0.888 5486	9.996 4021	9	635	
366	9.107 9121	586	9.111 5110	596	0.888 4890	9.996 4011	10	634	
		586		596			10		
367	9.107 9707		9.111 5706		0.888 4294	9.996 4001		633	
368	9.108 0293	586	9.111 6302	596	0.888 3698	9.996 3991	10	632	
369	9.108 0880	587	9.111 6898	596	0.888 3102	9.996 3981	10	631	
		586		596			9		
.370	9.108 1466		9.111 7494		0.888 2506	9.996 3972		**.630**	
		586		596			10		
371	9.108 2052		9.111 8090		0.888 1910	9.996 3962		629	
372	9.108 2638	586	9.111 8686	596	0.888 1314	9.996 3952	10	628	
373	9.108 3223	585	9.111 9281	595	0.888 0719	9.996 3942	10	627	
		586		596			10		
374	9.108 3809		9.111 9877		0.888 0123	9.996 3932		626	
375	9.108 4395	586	9.112 0472	595	0.887 9528	9.996 3923	9	625	
376	9.108 4980	585	9.112 1068	596	0.887 8932	9.996 3913	10	624	
		586		595			10		
377	9.108 5566		9.112 1663		0.887 8337	9.996 3903		623	
378	9.108 6151	585	9.112 2258	595	0.887 7742	9.996 3893	10	622	
379	9.108 6737	586	9.112 2853	595	0.887 7147	9.996 3883	10	621	
		585		595			10		
.380	9.108 7322		9.112 3448		0.887 6552	9.996 3873		**.620**	
		585		595			9		
381	9.108 7907		9.112 4043		0.887 5957	9.996 3864		619	
382	9.108 8492	585	9.112 4638	595	0.887 5362	9.996 3854	10	618	
383	9.108 9077	585	9.112 5233	595	0.887 4767	9.996 3844	10	617	
		585		595			10		
384	9.108 9662		9.112 5828		0.887 4172	9.996 3834		616	
385	9.109 0247	585	9.112 6423	595	0.887 3577	9.996 3824	10	615	
386	9.109 0832	585	9.112 7017	594	0.887 2983	9.996 3815	9	614	
		584		595			10		
387	9.109 1416		9.112 7612		0.887 2388	9.996 3805		613	
388	9.109 2001	585	9.112 8206	594	0.887 1794	9.996 3795	10	612	
389	9.109 2586	585	9.112 8800	594	0.887 1200	9.996 3785	10	611	
		584		595			10		
.390	9.109 3170		9.112 9395		0.887 0605	9.996 3775		**.610**	
		584		594			10		
391	9.109 3754		9.112 9989		0.887 0011	9.996 3765		609	
392	9.109 4339	585	9.113 0583	594	0.886 9417	9.996 3756	9	608	
393	9.109 4923	584	9.113 1177	594	0.886 8823	9.996 3746	10	607	
		584		594			10		
394	9.109 5507		9.113 1771		0.886 8229	9.996 3736		606	
395	9.109 6091	584	9.113 2365	594	0.886 7635	9.996 3726	10	605	
396	9.109 6675	584	9.113 2959	594	0.886 7041	9.996 3716	10	604	
		584		594			10		
397	9.109 7259		9.113 3553		0.886 6447	9.996 3706		603	
398	9.109 7843	584	9.113 4146	593	0.886 5854	9.996 3697	9	602	
399	9.109 8426	583	9.113 4740	594	0.886 5260	9.996 3687	10	601	
		584		593			10		
.400	9.109 9010		9.113 5333		0.886 4667	9.996 3677		**.600**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	598	597	596
1	59.8	59.7	59.6
2	119.6	119.4	119.2
3	179.4	179.1	178.8
4	239.2	238.8	238.4
5	299.0	298.5	298.0
6	358.8	358.2	357.6
7	418.6	417.9	417.2
8	478.4	477.6	476.8
9	538.2	537.3	536.4

	595	594	593
1	59.5	59.4	59.3
2	119.0	118.8	118.6
3	178.5	178.2	177.9
4	238.0	237.6	237.2
5	297.5	297.0	296.5
6	357.0	356.4	355.8
7	416.5	415.8	415.1
8	476.0	475.2	474.4
9	535.5	534.6	533.7

	588	587	586
1	58.8	58.7	58.6
2	117.6	117.4	117.2
3	176.4	176.1	175.8
4	235.2	234.8	234.4
5	294.0	293.5	293.0
6	352.8	352.2	351.6
7	411.6	410.9	410.2
8	470.4	469.6	468.8
9	529.2	528.3	527.4

	585	584	583
1	58.5	58.4	58.3
2	117.0	116.8	116.6
3	175.5	175.2	174.9
4	234.0	233.6	233.2
5	292.5	292.0	291.5
6	351.0	350.4	349.8
7	409.5	408.8	408.1
8	468.0	467.2	466.4
9	526.5	525.6	524.7

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$82^\circ.650 - 82^\circ.600$

7°.400 — 7°.450

7°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.109 9010		9.113 5333		0.886 4667	9.996 3677		**.600**	
		584		594			10		
401	9.109 9594		9.113 5927		0.886 4073	9.996 3667		599	
402	9.110 0177	583	9.113 6520	593	0.886 3480	9.996 3657	10	598	
403	9.110 0761	584	9.113 7113	593	0.886 2887	9.996 3647	10	597	
		583		594			10		
404	9.110 1344		9.113 7707		0.886 2293	9.996 3637		596	
405	9.110 1927	583	9.113 8300	593	0.886 1700	9.996 3628	9	595	
406	9.110 2510	583	9.113 8893	593	0.886 1107	9.996 3618	10	594	
		584		593			10		
407	9.110 3094		9.113 9486		0.886 0514	9.996 3608		593	
408	9.110 3677	583	9.114 0078	592	0.885 9922	9.996 3598	10	592	
409	9.110 4259	582	9.114 0671	593	0.885 9329	9.996 3588	10	591	
		583		593			10		
.410	9.110 4842		9.114 1264		0.885 8736	9.996 3578		**.590**	
		583		593			10		
411	9.110 5425		9.114 1857		0.885 8143	9.996 3568		589	
412	9.110 6008	583	9.114 2449	592	0.885 7551	9.996 3559	9	588	
413	9.110 6590	582	9.114 3042	593	0.885 6958	9.996 3549	10	587	
		583		592			10		
414	9.110 7173		9.114 3634		0.885 6366	9.996 3539		586	
415	9.110 7755	582	9.114 4226	592	0.885 5774	9.996 3529	10	585	
416	9.110 8338	583	9.114 4819	593	0.885 5181	9.996 3519	10	584	
		582		592			10		
417	9.110 8920		9.114 5411		0.885 4589	9.996 3509		583	
418	9.110 9502	582	9.114 6003	592	0.885 3997	9.996 3499	10	582	
419	9.111 0085	583	9.114 6595	592	0.885 3405	9.996 3490	9	581	
		582		592			10		
.420	9.111 0667		9.114 7187		0.885 2813	9.996 3480		**.580**	
		582		592			10		
421	9.111 1249		9.114 7779		0.885 2221	9.996 3470		579	
422	9.111 1830	581	9.114 8371	592	0.885 1629	9.996 3460	10	578	
423	9.111 2412	582	9.114 8962	591	0.885 1038	9.996 3450	10	577	
		582		592			10		
424	9.111 2994		9.114 9554		0.885 0446	9.996 3440		576	
425	9.111 3576	582	9.115 0145	591	0.884 9855	9.996 3430	10	575	
426	9.111 4157	581	9.115 0737	592	0.884 9263	9.996 3420	10	574	
		582		591			9		
427	9.111 4739		9.115 1328		0.884 8672	9.996 3411		573	
428	9.111 5320	581	9.115 1920	592	0.884 8080	9.996 3401	10	572	
429	9.111 5902	582	9.115 2511	591	0.884 7489	9.996 3391	10	571	
		581		591			10		
.430	9.111 6483		9.115 3102		0.884 6898	9.996 3381		**.570**	
		581		591			10		
431	9.111 7064		9.115 3693		0.884 6307	9.996 3371		569	
432	9.111 7645	581	9.115 4284	591	0.884 5716	9.996 3361	10	568	
433	9.111 8226	581	9.115 4875	591	0.884 5125	9.996 3351	10	567	
		581		591			10		
434	9.111 8807		9.115 5466		0.884 4534	9.996 3341		566	
435	9.111 9388	581	9.115 6057	591	0.884 3943	9.996 3331	10	565	
436	9.111 9969	581	9.115 6647	590	0.884 3353	9.996 3322	9	564	
		581		591			10		
437	9.112 0550		9.115 7238		0.884 2762	9.996 3312		563	
438	9.112 1130	580	9.115 7828	590	0.884 2172	9.996 3302	10	562	
439	9.112 1711	581	9.115 8419	591	0.884 1581	9.996 3292	10	561	
		580		590			10		
.440	9.112 2291		9.115 9009		0.884 0991	9.996 3282		**.560**	
		581		591			10		
441	9.112 2872		9.115 9600		0.884 0400	9.996 3272		559	
442	9.112 3452	580	9.116 0190	590	0.883 9810	9.996 3262	10	558	
443	9.112 4032	580	9.116 0780	590	0.883 9220	9.996 3252	10	557	
		580		590			10		
444	9.112 4612		9.116 1370		0.883 8630	9.996 3242		556	
445	9.112 5193	581	9.116 1960	590	0.883 8040	9.996 3232	10	555	
446	9.112 5773	580	9.116 2550	590	0.883 7450	9.996 3223	9	554	
		579		590			10		
447	9.112 6352		9.116 3140		0.883 6860	9.996 3213		553	
448	9.112 6932	580	9.116 3730	590	0.883 6270	9.996 3203	10	552	
449	9.112 7512	580	9.116 4319	589	0.883 5681	9.996 3193	10	551	
		580		590			10		
.450	9.112 8092		9.116 4909		0.883 5091	9.996 3183		**.550**	
	cos	d	cotg	d	tang	sin	d	**82°**	P.P.

	594	593	592
1	59.4	59.3	59.2
2	118.8	118.6	118.4
3	178.2	177.9	177.6
4	237.6	237.2	236.8
5	297.0	296.5	296.0
6	356.4	355.8	355.2
7	415.8	415.1	414.4
8	475.2	474.4	473.6
9	534.6	533.7	532.8

	591	590	589
1	59.1	59.0	58.9
2	118.2	118.0	117.8
3	177.3	177.0	176.7
4	236.4	236.0	235.6
5	295.5	295.0	294.5
6	354.6	354.0	353.4
7	413.7	413.0	412.3
8	472.8	472.0	471.2
9	531.9	531.0	530.1

	584	583	582
1	58.4	58.3	58.2
2	116.8	116.6	116.4
3	175.2	174.9	174.6
4	233.6	233.2	232.8
5	292.0	291.5	291.0
6	350.4	349.8	349.2
7	408.8	408.1	407.4
8	467.2	466.4	465.6
9	525.6	524.7	523.8

	581	580	579
1	58.1	58.0	57.9
2	116.2	116.0	115.8
3	174.3	174.0	173.7
4	232.4	232.0	231.6
5	290.5	290.0	289.5
6	348.6	348.0	347.4
7	406.7	406.0	405.3
8	464.8	464.0	463.2
9	522.9	522.0	521.1

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

82°.600 — 82°.550

$7^\circ.450 - 7^\circ.500$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.112 8092		9.116 4909		0.883 5091	9.996 3183		.550	
		579		589			10		
451	9.112 8671		9.116 5498		0.883 4502	9.996 3173		549	
452	9.112 9251	580	9.116 6088	590	0.883 3912	9.996 3163	10	548	
453	9.112 9830	579	9.116 6677	589	0.883 3323	9.996 3153	10	547	
		580		590			10		
454	9.113 0410		9.116 7267		0.883 2733	9.996 3143		546	
455	9.113 0989	579	9.116 7856	589	0.883 2144	9.996 3133	10	545	
456	9.113 1568	579	9.116 8445	589	0.883 1555	9.996 3123	10	544	
		579		589			9		
457	9.113 2147		9.116 9034		0.883 0966	9.996 3114		543	
458	9.113 2727	580	9.116 9623	589	0.883 0377	9.996 3104	10	542	
459	9.113 3306	579	9.117 0212	589	0.882 9788	9.996 3094	10	541	
		578		589			10		
.460	9.113 3884		9.117 0801		0.882 9199	9.996 3084		.540	
		579		588			10		
461	9.113 4463		9.117 1389		0.882 8611	9.996 3074		539	
462	9.113 5042	579	9.117 1978	589	0.882 8022	9.996 3064	10	538	
463	9.113 5621	579	9.117 2567	589	0.882 7433	9.996 3054	10	537	
		578		588			10		
464	9.113 6199		9.117 3155		0.882 6845	9.996 3044		536	
465	9.113 6778	579	9.117 3744	589	0.882 6256	9.996 3034	10	535	
466	9.113 7356	578	9.117 4332	588	0.882 5668	9.996 3024	10	534	
		579		588			10		
467	9.113 7935		9.117 4920		0.882 5080	9.996 3014		533	
468	9.113 8513	578	9.117 5509	589	0.882 4491	9.996 3004	10	532	
469	9.113 9091	578	9.117 6097	588	0.882 3903	9.996 2994	10	531	
		578		588			10		
.470	9.113 9669		9.117 6685		0.882 3315	9.996 2984		.530	
		578		588			10		
471	9.114 0247		9.117 7273		0.882 2727	9.996 2974		529	
472	9.114 0825	578	9.117 7861	588	0.882 2139	9.996 2965	9	528	
473	9.114 1403	578	9.117 8449	588	0.882 1551	9.996 2955	10	527	
		578		587			10		
474	9.114 1981		9.117 9036		0.882 0964	9.996 2945		526	
475	9.114 2559	578	9.117 9624	588	0.882 0376	9.996 2935	10	525	
476	9.114 3136	577	9.118 0212	588	0.881 9788	9.996 2925	10	524	
		578		587			10		
477	9.114 3714		9.118 0799		0.881 9201	9.996 2915		523	
478	9.114 4291	577	9.118 1387	588	0.881 8613	9.996 2905	10	522	
479	9.114 4869	578	9.118 1974	587	0.881 8026	9.996 2895	10	521	
		577		587			10		
.480	9.114 5446		9.118 2561		0.881 7439	9.996 2885		.520	
		577		587			10		
481	9.114 6023		9.118 3148		0.881 6852	9.996 2875		519	
482	9.114 6601	578	9.118 3736	588	0.881 6264	9.996 2865	10	518	
483	9.114 7178	577	9.118 4323	587	0.881 5677	9.996 2855	10	517	
		577		587			10		
484	9.114 7755		9.118 4910		0.881 5090	9.996 2845		516	
485	9.114 8332	577	9.118 5497	587	0.881 4503	9.996 2835	10	515	
486	9.114 8909	577	9.118 6083	586	0.881 3917	9.996 2825	10	514	
		576		587			10		
487	9.114 9485		9.118 6670		0.881 3330	9.996 2815		513	
488	9.115 0062	577	9.118 7257	587	0.881 2743	9.996 2805	10	512	
489	9.115 0639	577	9.118 7843	586	0.881 2157	9.996 2795	10	511	
		576		587			10		
.490	9.115 1215		9.118 8430		0.881 1570	9.996 2785		.510	
		577		586			10		
491	9.115 1792		9.118 9016		0.881 0984	9.996 2775		509	
492	9.115 2368	576	9.118 9603	587	0.881 0397	9.996 2765	10	508	
493	9.115 2945	577	9.119 0189	586	0.880 9811	9.996 2755	10	507	
		576		586			9		
494	9.115 3521		9.119 0775		0.880 9225	9.996 2746		506	
495	9.115 4097	576	9.119 1361	586	0.880 8639	9.996 2736	10	505	
496	9.115 4673	576	9.119 1948	587	0.880 8052	9.996 2726	10	504	
		576		586			10		
497	9.115 5249		9.119 2534		0.880 7466	9.996 2716		503	
498	9.115 5825	576	9.119 3119	585	0.880 6881	9.996 2706	10	502	
499	9.115 6401	576	9.119 3705	586	0.880 6295	9.996 2696	10	501	
		576		586			10		
.500	9.115 6977		9.119 4291		0.880 5709	9.996 2686		.500	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	590	589	588
1	59.0	58.9	58.8
2	118.0	117.8	117.6
3	177.0	176.7	176.4
4	236.0	235.6	235.2
5	295.0	294.5	294.0
6	354.0	353.4	352.8
7	413.0	412.3	411.6
8	472.0	471.2	470.4
9	531.0	530.1	529.2

	587	586	585
1	58.7	58.6	58.5
2	117.4	117.2	117.0
3	176.1	175.8	175.5
4	234.8	234.4	234.0
5	293.5	293.0	292.5
6	352.2	351.6	351.0
7	410.9	410.2	409.5
8	469.6	468.8	468.0
9	528.3	527.4	526.5

	580	579	578
1	58.0	57.9	57.8
2	116.0	115.8	115.6
3	174.0	173.7	173.4
4	232.0	231.6	231.2
5	290.0	289.5	289.0
6	348.0	347.4	346.8
7	406.0	405.3	404.6
8	464.0	463.2	462.4
9	522.0	521.1	520.2

	577	576
1	57.7	57.6
2	115.4	115.2
3	173.1	172.8
4	230.8	230.4
5	288.5	288.0
6	346.2	345.6
7	403.9	403.2
8	461.6	460.8
9	519.3	518.4

	10	9
1	1.0	0.9
2	2.0	1.8
3	3.0	2.7
4	4.0	3.6
5	5.0	4.5
6	6.0	5.4
7	7.0	6.3
8	8.0	7.2
9	9.0	8.1

$82^\circ.550 - 82^\circ.500$

$7^\circ.500 - 7^\circ.550$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.115 6977		9.119 4291		0.880 5709	9.996 2686		**.500**	
		575		586			10		
501	9.115 7552		9.119 4877		0.880 5123	9.996 2676		499	
502	9.115 8128	576	9.119 5462	585	0.880 4538	9.996 2666	10	498	
503	9.115 8704	576	9.119 6048	586	0.880 3952	9.996 2656	10	497	
		575		585			10		
504	9.115 9279		9.119 6633		0.880 3367	9.996 2646		496	
505	9.115 9854	575	9.119 7219	586	0.880 2781	9.996 2636	10	495	
506	9.116 0430	576	9.119 7804	585	0.880 2196	9.996 2626	10	494	
		575		585			10		
507	9.116 1005		9.119 8389		0.880 1611	9.996 2616		493	
508	9.116 1580	575	9.119 8974	585	0.880 1026	9.996 2606	10	492	
509	9.116 2155	575	9.119 9559	585	0.880 0441	9.996 2596	10	491	
		575		585			10		
.510	9.116 2730		9.120 0144		0.879 9856	9.996 2586		**.490**	
		575		585			10		
511	9.116 3305		9.120 0729		0.879 9271	9.996 2576		489	
512	9.116 3880	575	9.120 1314	585	0.879 8686	9.996 2566	10	488	
513	9.116 4455	575	9.120 1899	585	0.879 8101	9.996 2556	10	487	
		575		585			10		
514	9.116 5030		9.120 2484		0.879 7516	9.996 2546		486	
515	9.116 5604	574	9.120 3068	584	0.879 6932	9.996 2536	10	485	
516	9.116 6179	575	9.120 3653	585	0.879 6347	9.996 2526	10	484	
		574		584			10		
517	9.116 6753		9.120 4237		0.879 5763	9.996 2516		483	
518	9.116 7328	575	9.120 4822	585	0.879 5178	9.996 2506	10	482	
519	9.116 7902	574	9.120 5406	584	0.879 4594	9.996 2496	10	481	
		574		584			10		
.520	9.116 8476		9.120 5990		0.879 4010	9.996 2486		**.480**	
		574		585			10		
521	9.116 9050		9.120 6575		0.879 3425	9.996 2476		479	
522	9.116 9624	574	9.120 7159	584	0.879 2841	9.996 2466	10	478	
523	9.117 0198	574	9.120 7743	584	0.879 2257	9.996 2456	10	477	
		574		584			10		
524	9.117 0772		9.120 8327		0.879 1673	9.996 2446		476	
525	9.117 1346	574	9.120 8910	583	0.879 1090	9.996 2436	10	475	
526	9.117 1920	574	9.120 9494	584	0.879 0506	9.996 2426	10	474	
		574		584			10		
527	9.117 2494		9.121 0078		0.878 9922	9.996 2416		473	
528	9.117 3067	573	9.121 0662	584	0.878 9338	9.996 2406	10	472	
529	9.117 3641	574	9.121 1245	583	0.878 8755	9.996 2396	10	471	
		573		584			10		
.530	9.117 4214		9.121 1829		0.878 8171	9.996 2386		**.470**	
		574		583			10		
531	9.117 4788		9.121 2412		0.878 7588	9.996 2376		469	
532	9.117 5361	573	9.121 2995	583	0.878 7005	9.996 2366	10	468	
533	9.117 5934	573	9.121 3579	584	0.878 6421	9.996 2356	10	467	
		573		583			10		
534	9.117 6507		9.121 4162		0.878 5838	9.996 2346		466	
535	9.117 7080	573	9.121 4745	583	0.878 5255	9.996 2336	10	465	
536	9.117 7653	573	9.121 5328	583	0.878 4672	9.996 2326	10	464	
		573		583			10		
537	9.117 8226		9.121 5911		0.878 4089	9.996 2316		463	
538	9.117 8799	573	9.121 6494	583	0.878 3506	9.996 2305	11	462	
539	9.117 9372	573	9.121 7077	583	0.878 2923	9.996 2295	10	461	
		573		582			10		
.540	9.117 9945		9.121 7659		0.878 2341	9.996 2285		**.460**	
		572		583			10		
541	9.118 0517		9.121 8242		0.878 1758	9.996 2275		459	
542	9.118 1090	573	9.121 8825	583	0.878 1175	9.996 2265	10	458	
543	9.118 1662	572	9.121 9407	582	0.878 0593	9.996 2255	10	457	
		573		582			10		
544	9.118 2235		9.121 9989		0.878 0011	9.996 2245		456	
545	9.118 2807	572	9.122 0572	583	0.877 9428	9.996 2235	10	455	
546	9.118 3379	572	9.122 1154	582	0.877 8846	9.996 2225	10	454	
		572		582			10		
547	9.118 3951		9.122 1736		0.877 8264	9.996 2215		453	
548	9.118 4524	573	9.122 2318	582	0.877 7682	9.996 2205	10	452	
549	9.118 5096	572	9.122 2900	582	0.877 7100	9.996 2195	10	451	
		571		582			10		
.550	9.118 5667		9.122 3482		0.877 6518	9.996 2185		**.450**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	586	585	584
1	58.6	58.5	58.4
2	117.2	117.0	116.8
3	175.8	175.5	175.2
4	234.4	234.0	233.6
5	293.0	292.5	292.0
6	351.6	351.0	350.4
7	410.2	409.5	408.8
8	468.8	468.0	467.2
9	527.4	526.5	525.6

	583	582	576
1	58.3	58.2	57.6
2	116.6	116.4	115.2
3	174.9	174.6	172.8
4	233.2	232.8	230.4
5	291.5	291.0	288.0
6	349.8	349.2	345.6
7	408.1	407.4	403.2
8	466.4	465.6	460.8
9	524.7	523.8	518.4

	575	574	573
1	57.5	57.4	57.3
2	115.0	114.8	114.6
3	172.5	172.2	171.9
4	230.0	229.6	229.2
5	287.5	287.0	286.5
6	345.0	344.4	343.8
7	402.5	401.8	401.1
8	460.0	459.2	458.4
9	517.5	516.6	515.7

	572	571
1	57.2	57.1
2	114.4	114.2
3	171.6	171.3
4	228.8	228.4
5	286.0	285.5
6	343.2	342.6
7	400.4	399.7
8	457.6	456.8
9	514.8	513.9

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$82^\circ.500 - 82^\circ.450$

$7^\circ.550 - 7^\circ.600$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.118 5667		9.122 3482		0.877 6518	9.996 2185		**.450**	
		572		582			10		
551	9.118 6239		9.122 4064		0.877 5936	9.996 2175		449	
552	9.118 6811	572	9.122 4646	582	0.877 5354	9.996 2165	10	448	
553	9.118 7383	572	9.122 5228	582	0.877 4772	9.996 2155	10	447	
		571		582			10		
554	9.118 7954		9.122 5810		0.877 4190	9.996 2145		446	
555	9.118 8526	572	9.122 6391	581	0.877 3609	9.996 2135	10	445	
556	9.118 9097	571	9.122 6973	582	0.877 3027	9.996 2125	10	444	
		572		581			10		
557	9.118 9669		9.122 7554		0.877 2446	9.996 2115		443	
558	9.119 0240	571	9.122 8136	582	0.877 1864	9.996 2105	10	442	
559	9.119 0811	571	9.122 8717	581	0.877 1283	9.996 2095	10	441	
		572		581			11		
.560	9.119 1383		9.122 9298		0.877 0702	9.996 2084		**.440**	
		571		581			10		
561	9.119 1954		9.122 9879		0.877 0121	9.996 2074		439	
562	9.119 2525	571	9.123 0460	581	0.876 9540	9.996 2064	10	438	
563	9.119 3096	571	9.123 1041	581	0.876 8959	9.996 2054	10	437	
		570		581			10		
564	9.119 3666		9.123 1622		0.876 8378	9.996 2044		436	
565	9.119 4237	571	9.123 2203	581	0.876 7797	9.996 2034	10	435	
566	9.119 4808	571	9.123 2784	581	0.876 7216	9.996 2024	10	434	
		571		581			10		
567	9.119 5379		9.123 3365		0.876 6635	9.996 2014		433	
568	9.119 5949	570	9.123 3945	580	0.876 6055	9.996 2004	10	432	
569	9.119 6520	571	9.123 4526	581	0.876 5474	9.996 1994	10	431	
		570		580			10		
.570	9.119 7090		9.123 5106		0.876 4894	9.996 1984		**.430**	
		570		581			10		
571	9.119 7660		9.123 5687		0.876 4313	9.996 1974		429	
572	9.119 8231	571	9.123 6267	580	0.876 3733	9.996 1964	10	428	
573	9.119 8801	570	9.123 6847	580	0.876 3153	9.996 1954	10	427	
		570		580			10		
574	9.119 9371		9.123 7427		0.876 2573	9.996 1944		426	
575	9.119 9941	570	9.123 8007	580	0.876 1993	9.996 1933	11	425	
576	9.120 0511	570	9.123 8587	580	0.876 1413	9.996 1923	10	424	
		570		580			10		
577	9.120 1081		9.123 9167		0.876 0833	9.996 1913		423	
578	9.120 1650	569	9.123 9747	580	0.876 0253	9.996 1903	10	422	
579	9.120 2220	570	9.124 0327	580	0.875 9673	9.996 1893	10	421	
		570		580			10		
.580	9.120 2790		9.124 0907		0.875 9093	9.996 1883		**.420**	
		569		579			10		
581	9.120 3359		9.124 1486		0.875 8514	9.996 1873		419	
582	9.120 3929	570	9.124 2066	580	0.875 7934	9.996 1863	10	418	
583	9.120 4498	569	9.124 2646	580	0.875 7354	9.996 1853	10	417	
		570		579			10		
584	9.120 5068		9.124 3225		0.875 6775	9.996 1843		416	
585	9.120 5637	569	9.124 3804	579	0.875 6196	9.996 1833	10	415	
586	9.120 6206	569	9.124 4384	580	0.875 5616	9.996 1822	11	414	
		569		579			10		
587	9.120 6775		9.124 4963		0.875 5037	9.996 1812		413	
588	9.120 7344	569	9.124 5542	579	0.875 4458	9.996 1802	10	412	
589	9.120 7913	569	9.124 6121	579	0.875 3879	9.996 1792	10	411	
		569		579			10		
.590	9.120 8482		9.124 6700		0.875 3300	9.996 1782		**.410**	
		569		579			10		
591	9.120 9051		9.124 7279		0.875 2721	9.996 1772		409	
592	9.120 9620	569	9.124 7858	579	0.875 2142	9.996 1762	10	408	
593	9.121 0188	568	9.124 8436	578	0.875 1564	9.996 1752	10	407	
		569		579			10		
594	9.121 0757		9.124 9015		0.875 0985	9.996 1742		406	
595	9.121 1325	568	9.124 9594	579	0.875 0406	9.996 1732	10	405	
596	9.121 1894	569	9.125 0172	578	0.874 9828	9.996 1721	11	404	
		568		579			10		
597	9.121 2462		9.125 0751		0.874 9249	9.996 1711		403	
598	9.121 3030	568	9.125 1329	578	0.874 8671	9.996 1701	10	402	
599	9.121 3599	569	9.125 1907	578	0.874 8093	9.996 1691	10	401	
		568		579			10		
.600	9.121 4167		9.125 2486		0.874 7514	9.996 1681		**.400**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	582	581	580
1	58.2	58.1	58.0
2	116.4	116.2	116.0
3	174.6	174.3	174.0
4	232.8	232.4	232.0
5	291.0	290.5	290.0
6	349.2	348.6	348.0
7	407.4	406.7	406.0
8	465.6	464.8	464.0
9	523.8	522.9	522.0

	579	578	572
1	57.9	57.8	57.2
2	115.8	115.6	114.4
3	173.7	173.4	171.6
4	231.6	231.2	228.8
5	289.5	289.0	286.0
6	347.4	346.8	343.2
7	405.3	404.6	400.4
8	463.2	462.4	457.6
9	521.1	520.2	514.8

	571	570
1	57.1	57.0
2	114.2	114.0
3	171.3	171.0
4	228.4	228.0
5	285.5	285.0
6	342.6	342.0
7	399.7	399.0
8	456.8	456.0
9	513.9	513.0

	569	568
1	56.9	56.8
2	113.8	113.6
3	170.7	170.4
4	227.6	227.2
5	284.5	284.0
6	341.4	340.8
7	398.3	397.6
8	455.2	454.4
9	512.1	511.2

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$82^\circ.450 - 82^\circ.400$

$7^\circ.600 - 7^\circ.650$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.121 4167		9.125 2486		0.874 7514	9.996 1681		**.400**	
		568		578			10		
601	9.121 4735		9.125 3064		0.874 6936	9.996 1671		399	
602	9.121 5303	568	9.125 3642	578	0.874 6358	9.996 1661	10	398	
603	9.121 5871	568	9.125 4220	578	0.874 5780	9.996 1651	10	397	
		567		578			10		
604	9.121 6438		9.125 4798		0.874 5202	9.996 1641		396	
605	9.121 7006	568	9.125 5376	578	0.874 4624	9.996 1630	11	395	
606	9.121 7574	568	9.125 5953	577	0.874 4047	9.996 1620	10	394	
		567		578			10		
607	9.121 8141		9.125 6531		0.874 3469	9.996 1610		393	
608	9.121 8709	568	9.125 7109	578	0.874 2891	9.996 1600	10	392	
609	9.121 9276	567	9.125 7686	577	0.874 2314	9.996 1590	10	391	
		568		578			10		
.610	9.121 9844		9.125 8264		0.874 1736	9.996 1580		**.390**	
		567		577			10		
611	9.122 0411		9.125 8841		0.874 1159	9.996 1570		389	
612	9.122 0978	567	9.125 9419	578	0.874 0581	9.996 1560	10	388	
613	9.122 1545	567	9.125 9996	577	0.874 0004	9.996 1549	11	387	
		567		577			10		
614	9.122 2112		9.126 0573		0.873 9427	9.996 1539		386	
615	9.122 2679	567	9.126 1150	577	0.873 8850	9.996 1529	10	385	
616	9.122 3246	567	9.126 1727	577	0.873 8273	9.996 1519	10	384	
		567		577			10		
617	9.122 3813		9.126 2304		0.873 7696	9.996 1509		383	
618	9.122 4380	567	9.126 2881	577	0.873 7119	9.996 1499	10	382	
619	9.122 4947	567	9.126 3458	577	0.873 6542	9.996 1489	10	381	
		566		577			11		
.620	9.122 5513		9.126 4035		0.873 5965	9.996 1478		**.380**	
		567		576			10		
621	9.122 6080		9.126 4611		0.873 5389	9.996 1468		379	
622	9.122 6646	566	9.126 5188	577	0.873 4812	9.996 1458	10	378	
623	9.122 7213	567	9.126 5765	577	0.873 4235	9.996 1448	10	377	
		566		576			10		
624	9.122 7779		9.126 6341		0.873 3659	9.996 1438		376	
625	9.122 8345	566	9.126 6917	576	0.873 3083	9.996 1428	10	375	
626	9.122 8911	566	9.126 7494	577	0.873 2506	9.996 1418	10	374	
		566		576			11		
627	9.122 9477		9.126 8070		0.873 1930	9.996 1407		373	
628	9.123 0043	566	9.126 8646	576	0.873 1354	9.996 1397	10	372	
629	9.123 0609	566	9.126 9222	576	0.873 0778	9.996 1387	10	371	
		566		576			10		
.630	9.123 1175		9.126 9798		0.873 0202	9.996 1377		**.370**	
		566		576			10		
631	9.123 1741		9.127 0374		0.872 9626	9.996 1367		369	
632	9.123 2307	566	9.127 0950	576	0.872 9050	9.996 1357	10	368	
633	9.123 2872	565	9.127 1526	576	0.872 8474	9.996 1347	10	367	
		566		576			11		
634	9.123 3438		9.127 2102		0.872 7898	9.996 1336		366	
635	9.123 4003	565	9.127 2677	575	0.872 7323	9.996 1326	10	365	
636	9.123 4569	566	9.127 3253	576	0.872 6747	9.996 1316	10	364	
		565		575			10		
637	9.123 5134		9.127 3828		0.872 6172	9.996 1306		363	
638	9.123 5699	565	9.127 4404	576	0.872 5596	9.996 1296	10	362	
639	9.123 6265	566	9.127 4979	575	0.872 5021	9.996 1286	10	361	
		565		575			11		
.640	9.123 6830		9.127 5554		0.872 4446	9.996 1275		**.360**	
		565		576			10		
641	9.123 7395		9.127 6130		0.872 3870	9.996 1265		359	
642	9.123 7960	565	9.127 6705	575	0.872 3295	9.996 1255	10	358	
643	9.123 8525	565	9.127 7280	575	0.872 2720	9.996 1245	10	357	
		564		575			10		
644	9.123 9089		9.127 7855		0.872 2145	9.996 1235		356	
645	9.123 9654	565	9.127 8430	575	0.872 1570	9.996 1225	10	355	
646	9.124 0219	565	9.127 9004	574	0.872 0996	9.996 1214	11	354	
		564		575			10		
647	9.124 0783		9.127 9579		0.872 0421	9.996 1204		353	
648	9.124 1348	565	9.128 0154	575	0.871 9846	9.996 1194	10	352	
649	9.124 1912	564	9.128 0729	575	0.871 9271	9.996 1184	10	351	
		565		574			10		
.650	9.124 2477		9.128 1303		0.871 8697	9.996 1174		**.350**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	578	577	576
1	57.8	57.7	57.6
2	115.6	115.4	115.2
3	173.4	173.1	172.8
4	231.2	230.8	230.4
5	289.0	288.5	288.0
6	346.8	346.2	345.6
7	404.6	403.9	403.2
8	462.4	461.6	460.8
9	520.2	519.3	518.4

	575	574	568
1	57.5	57.4	56.8
2	115.0	114.8	113.6
3	172.5	172.2	170.4
4	230.0	229.6	227.2
5	287.5	287.0	284.0
6	345.0	344.4	340.8
7	402.5	401.8	397.6
8	460.0	459.2	454.4
9	517.5	516.6	511.2

	567	566
1	56.7	56.6
2	113.4	113.2
3	170.1	169.8
4	226.8	226.4
5	283.5	283.0
6	340.2	339.6
7	396.9	396.2
8	453.6	452.8
9	510.3	509.4

	565	564
1	56.5	56.4
2	113.0	112.8
3	169.5	169.2
4	226.0	225.6
5	282.5	282.0
6	339.0	338.4
7	395.5	394.8
8	452.0	451.2
9	508.5	507.6

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$82^\circ.400 - 82^\circ.350$

$7^\circ.650 - 7^\circ.700$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.124 2477		9.128 1303		0.871 8697	9.996 1174		**.350**	
		564		575			11		
651	9.124 3041		9.128 1878		0.871 8122	9.996 1163		349	
652	9.124 3605	564	9.128 2452	574	0.871 7548	9.996 1153	10	348	
653	9.124 4169	564	9.128 3026	574	0.871 6974	9.996 1143	10	347	
		564		575			10		
654	9.124 4733		9.128 3601		0.871 6399	9.996 1133		346	
655	9.124 5297	564	9.128 4175	574	0.871 5825	9.996 1123	10	345	
656	9.124 5861	564	9.128 4749	574	0.871 5251	9.996 1113	10	344	
		564		574			11		
657	9.124 6425		9.128 5323		0.871 4677	9.996 1102		343	
658	9.124 6989	564	9.128 5897	574	0.871 4103	9.996 1092	10	342	
659	9.124 7553	564	9.128 6471	574	0.871 3529	9.996 1082	10	341	
		563		574			10		
.660	9.124 8116		9.128 7045		0.871 2955	9.996 1072		**.340**	
		564		573			10		
661	9.124 8680		9.128 7618		0.871 2382	9.996 1062		339	
662	9.124 9243	563	9.128 8192	574	0.871 1808	9.996 1051	11	338	
663	9.124 9807	564	9.128 8766	574	0.871 1234	9.996 1041	10	337	
		563		573			10		
664	9.125 0370		9.128 9339		0.871 0661	9.996 1031		336	
665	9.125 0933	563	9.128 9912	573	0.871 0088	9.996 1021	10	335	
666	9.125 1496	563	9.129 0486	574	0.870 9514	9.996 1011	10	334	
		564		573			11		
667	9.125 2060		9.129 1059		0.870 8941	9.996 1000		333	
668	9.125 2623	563	9.129 1632	573	0.870 8368	9.996 0990	10	332	
669	9.125 3186	563	9.129 2206	574	0.870 7794	9.996 0980	10	331	
		562		573			10		
.670	9.125 3748		9.129 2779		0.870 7221	9.996 0970		**.330**	
		563		573			10		
671	9.125 4311		9.129 3352		0.870 6648	9.996 0960		329	
672	9.125 4874	563	9.129 3925	573	0.870 6075	9.996 0949	11	328	
673	9.125 5437	563	9.129 4497	572	0.870 5503	9.996 0939	10	327	
		562		573			10		
674	9.125 5999		9.129 5070		0.870 4930	9.996 0929		326	
675	9.125 6562	563	9.129 5643	573	0.870 4357	9.996 0919	10	325	
676	9.125 7124	562	9.129 6216	573	0.870 3784	9.996 0908	11	324	
		562		572			10		
677	9.125 7686		9.129 6788		0.870 3212	9.996 0898		323	
678	9.125 8249	563	9.129 7361	573	0.870 2639	9.996 0888	10	322	
679	9.125 8811	562	9.129 7933	572	0.870 2067	9.996 0878	10	321	
		562		572			10		
.680	9.125 9373		9.129 8505		0.870 1495	9.996 0868		**.320**	
		562		573			11		
681	9.125 9935		9.129 9078		0.870 0922	9.996 0857		319	
682	9.126 0497	562	9.129 9650	572	0.870 0350	9.996 0847	10	318	
683	9.126 1059	562	9.130 0222	572	0.869 9778	9.996 0837	10	317	
		562		572			10		
684	9.126 1621		9.130 0794		0.869 9206	9.996 0827		316	
685	9.126 2183	562	9.130 1366	572	0.869 8634	9.996 0816	11	315	
686	9.126 2744	561	9.130 1938	572	0.869 8062	9.996 0806	10	314	
		562		572			10		
687	9.126 3306		9.130 2510		0.869 7490	9.996 0796		313	
688	9.126 3867	561	9.130 3082	572	0.869 6918	9.996 0786	10	312	
689	9.126 4429	562	9.130 3653	571	0.869 6347	9.996 0776	10	311	
		561		572			11		
.690	9.126 4990		9.130 4225		0.869 5775	9.996 0765		**.310**	
		562		572			10		
691	9.126 5552		9.130 4797		0.869 5203	9.996 0755		309	
692	9.126 6113	561	9.130 5368	571	0.869 4632	9.996 0745	10	308	
693	9.126 6674	561	9.130 5939	571	0.869 4061	9.996 0735	10	307	
		561		572			11		
694	9.126 7235		9.130 6511		0.869 3489	9.996 0724		306	
695	9.126 7796	561	9.130 7082	571	0.869 2918	9.996 0714	10	305	
696	9.126 8357	561	9.130 7653	571	0.869 2347	9.996 0704	10	304	
		561		571			10		
697	9.126 8918		9.130 8224		0.869 1776	9.996 0694		303	
698	9.126 9479	561	9.130 8795	571	0.869 1205	9.996 0683	11	302	
699	9.127 0040	561	9.130 9366	571	0.869 0634	9.996 0673	10	301	
		560		571			10		
.700	9.127 0600		9.130 9937		0.869 0063	9.996 0663		**.300**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	575	574	573
1	57.5	57.4	57.3
2	115.0	114.8	114.6
3	172.5	172.2	171.9
4	230.0	229.6	229.2
5	287.5	287.0	286.5
6	345.0	344.4	343.8
7	402.5	401.8	401.1
8	460.0	459.2	458.4
9	517.5	516.6	515.7

	572	571	564
1	57.2	57.1	56.4
2	114.4	114.2	112.8
3	171.6	171.3	169.2
4	228.8	228.4	225.6
5	286.0	285.5	282.0
6	343.2	342.6	338.4
7	400.4	399.7	394.8
8	457.6	456.8	451.2
9	514.8	513.9	507.6

	563	562
1	56.3	56.2
2	112.6	112.4
3	168.9	168.6
4	225.2	224.8
5	281.5	281.0
6	337.8	337.2
7	394.1	393.4
8	450.4	449.6
9	506.7	505.8

	561	560
1	56.1	56.0
2	112.2	112.0
3	168.3	168.0
4	224.4	224.0
5	280.5	280.0
6	336.6	336.0
7	392.7	392.0
8	448.8	448.0
9	504.9	504.0

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$82^\circ.350 - 82^\circ.300$

$7^\circ.700 - 7^\circ.750$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.127 0600		9.130 9937		0.869 0063	9.996 0663		**.300**	
		561		571			10		
701	9.127 1161		9.131 0508		0.868 9492	9.996 0653		299	
702	9.127 1721	560	9.131 1079	571	0.868 8921	9.996 0642	11	298	
703	9.127 2282	561	9.131 1650	571	0.868 8350	9.996 0632	10	297	
		560		570			10		
704	9.127 2842		9.131 2220		0.868 7780	9.996 0622		296	
705	9.127 3402	560	9.131 2791	571	0.868 7209	9.996 0612	10	295	
706	9.127 3963	561	9.131 3361	570	0.868 6639	9.996 0601	11	294	
		560		571			10		
707	9.127 4523		9.131 3932		0.868 6068	9.996 0591		293	
708	9.127 5083	560	9.131 4502	570	0.868 5498	9.996 0581	10	292	
709	9.127 5643	560	9.131 5072	570	0.868 4928	9.996 0571	10	291	
		560		570			11		
.710	9.127 6203		9.131 5642		0.868 4358	9.996 0560		**.290**	
		560		570			10		
711	9.127 6763		9.131 6212		0.868 3788	9.996 0550		289	
712	9.127 7322	559	9.131 6783	571	0.868 3217	9.996 0540	10	288	
713	9.127 7882	560	9.131 7352	569	0.868 2648	9.996 0530	10	287	
		560		570			11		
714	9.127 8442		9.131 7922		0.868 2078	9.996 0519		286	
715	9.127 9001	559	9.131 8492	570	0.868 1508	9.996 0509	10	285	
716	9.127 9561	560	9.131 9062	570	0.868 0938	9.996 0499	10	284	
		559		570			10		
717	9.128 0120		9.131 9632		0.868 0368	9.996 0489		283	
718	9.128 0679	559	9.132 0201	569	0.867 9799	9.996 0478	11	282	
719	9.128 1239	560	9.132 0771	570	0.867 9229	9.996 0468	10	281	
		559		569			10		
.720	9.128 1798		9.132 1340		0.867 8660	9.996 0458		**.280**	
		559		570			11		
721	9.128 2357		9.132 1910		0.867 8090	9.996 0447		279	
722	9.128 2916	559	9.132 2479	569	0.867 7521	9.996 0437	10	278	
723	9.128 3475	559	9.132 3048	569	0.867 6952	9.996 0427	10	277	
		559		569			10		
724	9.128 4034		9.132 3617		0.867 6383	9.996 0417		276	
725	9.128 4593	559	9.132 4186	569	0.867 5814	9.996 0406	11	275	
726	9.128 5151	558	9.132 4755	569	0.867 5245	9.996 0396	10	274	
		559		569			10		
727	9.128 5710		9.132 5324		0.867 4676	9.996 0386		273	
728	9.128 6269	559	9.132 5893	569	0.867 4107	9.996 0375	11	272	
729	9.128 6827	558	9.132 6462	569	0.867 3538	9.996 0365	10	271	
		559		569			10		
.730	9.128 7386		9.132 7031		0.867 2969	9.996 0355		**.270**	
		558		569			10		
731	9.128 7944		9.132 7600		0.867 2400	9.996 0345		269	
732	9.128 8502	558	9.132 8168	568	0.867 1832	9.996 0334	11	268	
733	9.128 9061	559	9.132 8737	569	0.867 1263	9.996 0324	10	267	
		558		568			10		
734	9.128 9619		9.132 9305		0.867 0695	9.996 0314		266	
735	9.129 0177	558	9.132 9873	568	0.867 0127	9.996 0303	11	265	
736	9.129 0735	558	9.133 0442	569	0.866 9558	9.996 0293	10	264	
		558		568			10		
737	9.129 1293		9.133 1010		0.866 8990	9.996 0283		263	
738	9.129 1851	558	9.133 1578	568	0.866 8422	9.996 0273	10	262	
739	9.129 2409	558	9.133 2146	568	0.866 7854	9.996 0262	11	261	
		557		568			10		
.740	9.129 2966		9.133 2714		0.866 7286	9.996 0252		**.260**	
		558		568			10		
741	9.129 3524		9.133 3282		0.866 6718	9.996 0242		259	
742	9.129 4081	557	9.133 3850	568	0.866 6150	9.996 0231	11	258	
743	9.129 4639	558	9.133 4418	568	0.866 5582	9.996 0221	10	257	
		557		568			10		
744	9.129 5196		9.133 4986		0.866 5014	9.996 0211		256	
745	9.129 5754	558	9.133 5553	567	0.866 4447	9.996 0200	11	255	
746	9.129 6311	557	9.133 6121	568	0.866 3879	9.996 0190	10	254	
		557		568			10		
747	9.129 6868		9.133 6689		0.866 3311	9.996 0180		253	
748	9.129 7425	557	9.133 7256	567	0.866 2744	9.996 0169	11	252	
749	9.129 7982	557	9.133 7823	567	0.866 2177	9.996 0159	10	251	
		557		568			10		
.750	9.129 8539		9.133 8391		0.866 1609	9.996 0149		**.250**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	571	570	569
1	57.1	57.0	56.9
2	114.2	114.0	113.8
3	171.3	171.0	170.7
4	228.4	228.0	227.6
5	285.5	285.0	284.5
6	342.6	342.0	341.4
7	399.7	399.0	398.3
8	456.8	456.0	455.2
9	513.9	513.0	512.1

	568	567	561
1	56.8	56.7	56.1
2	113.6	113.4	112.2
3	170.4	170.1	168.3
4	227.2	226.8	224.4
5	284.0	283.5	280.5
6	340.8	340.2	336.6
7	397.6	396.9	392.7
8	454.4	453.6	448.8
9	511.2	510.3	504.9

	560	559
1	56.0	55.9
2	112.0	111.8
3	168.0	167.7
4	224.0	223.6
5	280.0	279.5
6	336.0	335.4
7	392.0	391.3
8	448.0	447.2
9	504.0	503.1

	558	557
1	55.8	55.7
2	111.6	111.4
3	167.4	167.1
4	223.2	222.8
5	279.0	278.5
6	334.8	334.2
7	390.6	389.9
8	446.4	445.6
9	502.2	501.3

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$82^\circ.300 - 82^\circ.250$

$7^\circ.750 - 7^\circ.800$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.129 8539		9.133 8391		0.866 1609	9.996 0149		.250	
		557		567			11		
751	9.129 9096		9.133 8958		0.866 1042	9.996 0138		249	
752	9.129 9653	557	9.133 9525	567	0.866 0475	9.996 0128	10	248	
753	9.130 0210	557	9.134 0092	567	0.865 9908	9.996 0118	10	247	
		557		567			10		
754	9.130 0767		9.134 0659		0.865 9341	9.996 0108		246	
755	9.130 1323	556	9.134 1226	567	0.865 8774	9.996 0097	11	245	
756	9.130 1880	557	9.134 1793	567	0.865 8207	9.996 0087	10	244	
		556		567			10		
757	9.130 2436		9.134 2360		0.865 7640	9.996 0077		243	
758	9.130 2993	557	9.134 2927	567	0.865 7073	9.996 0066	11	242	
759	9.130 3549	556	9.134 3493	566	0.865 6507	9.996 0056	10	241	
		556		567			10		
.760	9.130 4105		9.134 4060		0.865 5940	9.996 0046		.240	
		557		566			11		
761	9.130 4662		9.134 4626		0.865 5374	9.996 0035		239	
762	9.130 5218	556	9.134 5193	567	0.865 4807	9.996 0025	10	238	
763	9.130 5774	556	9.134 5759	566	0.865 4241	9.996 0015	10	237	
		556		566			11		
764	9.130 6330		9.134 6325		0.865 3675	9.996 0004		236	
765	9.130 6886	556	9.134 6892	567	0.865 3108	9.995 9994	10	235	
766	9.130 7442	556	9.134 7458	566	0.865 2542	9.995 9984	10	234	
		555		566			11		
767	9.130 7997		9.134 8024		0.865 1976	9.995 9973		233	
768	9.130 8553	556	9.134 8590	566	0.865 1410	9.995 9963	10	232	
769	9.130 9109	556	9.134 9156	566	0.865 0844	9.995 9953	10	231	
		555		566			11		
.770	9.130 9664		9.134 9722		0.865 0278	9.995 9942		.230	
		556		566			10		
771	9.131 0220		9.135 0288		0.864 9712	9.995 9932		229	
772	9.131 0775	555	9.135 0853	565	0.864 9147	9.995 9922	10	228	
773	9.131 1330	555	9.135 1419	566	0.864 8581	9.995 9911	11	227	
		556		566			10		
774	9.131 1886		9.135 1985		0.864 8015	9.995 9901		226	
775	9.131 2441	555	9.135 2550	565	0.864 7450	9.995 9891	10	225	
776	9.131 2996	555	9.135 3116	566	0.864 6884	9.995 9880	11	224	
		555		565			10		
777	9.131 3551		9.135 3681		0.864 6319	9.995 9870		223	
778	9.131 4106	555	9.135 4246	565	0.864 5754	9.995 9859	11	222	
779	9.131 4661	555	9.135 4812	566	0.864 5188	9.995 9849	10	221	
		555		565			10		
.780	9.131 5216		9.135 5377		0.864 4623	9.995 9839		.220	
		554		565			11		
781	9.131 5770		9.135 5942		0.864 4058	9.995 9828		219	
782	9.131 6325	555	9.135 6507	565	0.864 3493	9.995 9818	10	218	
783	9.131 6880	555	9.135 7072	565	0.864 2928	9.995 9808	10	217	
		554		565			11		
784	9.131 7434		9.135 7637		0.864 2363	9.995 9797		216	
785	9.131 7989	555	9.135 8202	565	0.864 1798	9.995 9787	10	215	
786	9.131 8543	554	9.135 8766	564	0.864 1234	9.995 9777	10	214	
		554		565			11		
787	9.131 9097		9.135 9331		0.864 0669	9.995 9766		213	
788	9.131 9652	555	9.135 9896	565	0.864 0104	9.995 9756	10	212	
789	9.132 0206	554	9.136 0460	564	0.863 9540	9.995 9745	11	211	
		554		565			10		
.790	9.132 0760		9.136 1025		0.863 8975	9.995 9735		.210	
		554		564			10		
791	9.132 1314		9.136 1589		0.863 8411	9.995 9725		209	
792	9.132 1868	554	9.136 2153	564	0.863 7847	9.995 9714	11	208	
793	9.132 2422	554	9.136 2718	565	0.863 7282	9.995 9704	10	207	
		553		564			10		
794	9.132 2975		9.136 3282		0.863 6718	9.995 9694		206	
795	9.132 3529	554	9.136 3846	564	0.863 6154	9.995 9683	11	205	
796	9.132 4083	554	9.136 4410	564	0.863 5590	9.995 9673	10	204	
		553		564			11		
797	9.132 4636		9.136 4974		0.863 5026	9.995 9662		203	
798	9.132 5190	554	9.136 5538	564	0.863 4462	9.995 9652	10	202	
799	9.132 5743	553	9.136 6102	564	0.863 3898	9.995 9642	10	201	
		554		563			11		
.800	9.132 6297		9.136 6665		0.863 3335	9.995 9631		.200	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	567	566	565
1	56.7	56.6	56.5
2	113.4	113.2	113.0
3	170.1	169.8	169.5
4	226.8	226.4	226.0
5	283.5	283.0	282.5
6	340.2	339.6	339.0
7	396.9	396.2	395.5
8	453.6	452.8	452.0
9	510.3	509.4	508.5

	564	563	557
1	56.4	56.3	55.7
2	112.8	112.6	111.4
3	169.2	168.9	167.1
4	225.6	225.2	222.8
5	282.0	281.5	278.5
6	338.4	337.8	334.2
7	394.8	394.1	389.9
8	451.2	450.4	445.6
9	507.6	506.7	501.3

	556	555
1	55.6	55.5
2	111.2	111.0
3	166.8	166.5
4	222.4	222.0
5	278.0	277.5
6	333.6	333.0
7	389.2	388.5
8	444.8	444.0
9	500.4	499.5

	554	553
1	55.4	55.3
2	110.8	110.6
3	166.2	165.9
4	221.6	221.2
5	277.0	276.5
6	332.4	331.8
7	387.8	387.1
8	443.2	442.4
9	498.6	497.7

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$82^\circ.250 - 82^\circ.200$

$7^\circ.800 - 7^\circ.850$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.132 6297		9.136 6665		0.863 3335	9.995 9631		**.200**	
		553		564			10		
801	9.132 6850		9.136 7229		0.863 2771	9.995 9621		199	
		553		564			10		
802	9.132 7403		9.136 7793		0.863 2207	9.995 9611		198	
		554		563			11		
803	9.132 7957		9.136 8356		0.863 1644	9.995 9600		197	
		553		564			10		
804	9.132 8510		9.136 8920		0.863 1080	9.995 9590		196	
		553		563			11		
805	9.132 9063		9.136 9483		0.863 0517	9.995 9579		195	
		553		564			10		
806	9.132 9616		9.137 0047		0.862 9953	9.995 9569		194	
		552		563			10		
807	9.133 0168		9.137 0610		0.862 9390	9.995 9559		193	
		553		563			11		
808	9.133 0721		9.137 1173		0.862 8827	9.995 9548		192	
		553		563			10		
809	9.133 1274		9.137 1736		0.862 8264	9.995 9538		191	
		553		563			11		
.810	9.133 1827		9.137 2299		0.862 7701	9.995 9527		**.190**	
		552		563			10		
811	9.133 2379		9.137 2862		0.862 7138	9.995 9517		189	
		553		563			10		
812	9.133 2932		9.137 3425		0.862 6575	9.995 9507		188	
		552		563			11		
813	9.133 3484		9.137 3988		0.862 6012	9.995 9496		187	
		553		563			10		
814	9.133 4037		9.137 4551		0.862 5449	9.995 9486		186	
		552		562			11		
815	9.133 4589		9.137 5113		0.862 4887	9.995 9475		185	
		552		563			10		
816	9.133 5141		9.137 5676		0.862 4324	9.995 9465		184	
		552		563			10		
817	9.133 5693		9.137 6239		0.862 3761	9.995 9455		183	
		552		562			11		
818	9.133 6245		9.137 6801		0.862 3199	9.995 9444		182	
		552		563			10		
819	9.133 6797		9.137 7364		0.862 2636	9.995 9434		181	
		552		562			11		
.820	9.133 7349		9.137 7926		0.862 2074	9.995 9423		**.180**	
		552		562			10		
821	9.133 7901		9.137 8488		0.862 1512	9.995 9413		179	
		552		562			10		
822	9.133 8453		9.137 9050		0.862 0950	9.995 9403		178	
		552		563			11		
823	9.133 9005		9.137 9613		0.862 0387	9.995 9392		177	
		551		562			10		
824	9.133 9556		9.138 0175		0.861 9825	9.995 9382		176	
		552		562			11		
825	9.134 0108		9.138 0737		0.861 9263	9.995 9371		175	
		552		562			10		
826	9.134 0660		9.138 1299		0.861 8701	9.995 9361		174	
		551		561			10		
827	9.134 1211		9.138 1860		0.861 8140	9.995 9351		173	
		551		562			11		
828	9.134 1762		9.138 2422		0.861 7578	9.995 9340		172	
		552		562			10		
829	9.134 2314		9.138 2984		0.861 7016	9.995 9330		171	
		551		562			11		
.830	9.134 2865		9.138 3546		0.861 6454	9.995 9319		**.170**	
		551		561			10		
831	9.134 3416		9.138 4107		0.861 5893	9.995 9309		169	
		551		562			11		
832	9.134 3967		9.138 4669		0.861 5331	9.995 9298		168	
		551		561			10		
833	9.134 4518		9.138 5230		0.861 4770	9.995 9288		167	
		551		562			10		
834	9.134 5069		9.138 5792		0.861 4208	9.995 9278		166	
		551		561			11		
835	9.134 5620		9.138 6353		0.861 3647	9.995 9267		165	
		551		561			10		
836	9.134 6171		9.138 6914		0.861 3086	9.995 9257		164	
		551		561			11		
837	9.134 6722		9.138 7475		0.861 2525	9.995 9246		163	
		550		561			10		
838	9.134 7272		9.138 8036		0.861 1964	9.995 9236		162	
		551		561			11		
839	9.134 7823		9.138 8597		0.861 1403	9.995 9225		161	
		550		561			10		
.840	9.134 8373		9.138 9158		0.861 0842	9.995 9215		**.160**	
		551		561			10		
841	9.134 8924		9.138 9719		0.861 0281	9.995 9205		159	
		550		561			11		
842	9.134 9474		9.139 0280		0.860 9720	9.995 9194		158	
		550		561			10		
843	9.135 0024		9.139 0841		0.860 9159	9.995 9184		157	
		551		561			11		
844	9.135 0575		9.139 1402		0.860 8598	9.995 9173		156	
		550		560			10		
845	9.135 1125		9.139 1962		0.860 8038	9.995 9163		155	
		550		561			11		
846	9.135 1675		9.139 2523		0.860 7477	9.995 9152		154	
		550		560			10		
847	9.135 2225		9.139 3083		0.860 6917	9.995 9142		153	
		550		561			11		
848	9.135 2775		9.139 3644		0.860 6356	9.995 9131		152	
		550		560			10		
849	9.135 3325		9.139 4204		0.860 5796	9.995 9121		151	
		550		560			10		
.850	9.135 3875		9.139 4764		0.860 5236	9.995 9111		**.150**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	564	563	562
1	56.4	56.3	56.2
2	112.8	112.6	112.4
3	169.2	168.9	168.6
4	225.6	225.2	224.8
5	282.0	281.5	281.0
6	338.4	337.8	337.2
7	394.8	394.1	393.4
8	451.2	450.4	449.6
9	507.6	506.7	505.8

	561	560	554
1	56.1	56.0	55.4
2	112.2	112.0	110.8
3	168.3	168.0	166.2
4	224.4	224.0	221.6
5	280.5	280.0	277.0
6	336.6	336.0	332.4
7	392.7	392.0	387.8
8	448.8	448.0	443.2
9	504.9	504.0	498.6

	553	552
1	55.3	55.2
2	110.6	110.4
3	165.9	165.6
4	221.2	220.8
5	276.5	276.0
6	331.8	331.2
7	387.1	386.4
8	442.4	441.6
9	497.7	496.8

	551	550
1	55.1	55.0
2	110.2	110.0
3	165.3	165.0
4	220.4	220.0
5	275.5	275.0
6	330.6	330.0
7	385.7	385.0
8	440.8	440.0
9	495.9	495.0

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$82^\circ.200 - 82^\circ.150$

$7^\circ.850 - 7^\circ.900$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.135 3875		9.139 4764		0.860 5236	9.995 9111		.150	
		549		560			11		
851	9.135 4424		9.139 5324		0.860 4676	9.995 9100		149	
852	9.135 4974	550	9.139 5884	560	0.860 4116	9.995 9090	10	148	
853	9.135 5524	550	9.139 6444	560	0.860 3556	9.995 9079	11	147	
		549		560			10		
854	9.135 6073		9.139 7004		0.860 2996	9.995 9069		146	
855	9.135 6623	550	9.139 7564	560	0.860 2436	9.995 9058	11	145	
856	9.135 7172	549	9.139 8124	560	0.860 1876	9.995 9048	10	144	
		549		560			11		
857	9.135 7721		9.139 8684		0.860 1316	9.995 9037		143	
858	9.135 8271	550	9.139 9244	560	0.860 0756	9.995 9027	10	142	
859	9.135 8820	549	9.139 9803	559	0.860 0197	9.995 9016	11	141	
		549		560			10		
.860	9.135 9369		9.140 0363		0.859 9637	9.995 9006		.140	
		549		559			11		
861	9.135 9918		9.140 0922		0.859 9078	9.995 8995		139	
862	9.136 0467	549	9.140 1482	560	0.859 8518	9.995 8985	10	138	
863	9.136 1016	549	9.140 2041	559	0.859 7959	9.995 8975	10	137	
		549		559			11		
864	9.136 1565		9.140 2600		0.859 7400	9.995 8964		136	
865	9.136 2113	548	9.140 3160	560	0.859 6840	9.995 8954	10	135	
866	9.136 2662	549	9.140 3719	559	0.859 6281	9.995 8943	11	134	
		549		559			10		
867	9.136 3211		9.140 4278		0.859 5722	9.995 8933		133	
868	9.136 3759	548	9.140 4837	559	0.859 5163	9.995 8922	11	132	
869	9.136 4308	549	9.140 5396	559	0.859 4604	9.995 8912	10	131	
		548		559			11		
.870	9.136 4856		9.140 5955		0.859 4045	9.995 8901		.130	
		548		559			10		
871	9.136 5404		9.140 6514		0.859 3486	9.995 8891		129	
872	9.136 5953	549	9.140 7072	558	0.859 2928	9.995 8880	11	128	
873	9.136 6501	548	9.140 7631	559	0.859 2369	9.995 8870	10	127	
		548		559			11		
874	9.136 7049		9.140 8190		0.859 1810	9.995 8859		126	
875	9.136 7597	548	9.140 8748	558	0.859 1252	9.995 8849	10	125	
876	9.136 8145	548	9.140 9307	559	0.859 0693	9.995 8838	11	124	
		548		558			10		
877	9.136 8693		9.140 9865		0.859 0135	9.995 8828		123	
878	9.136 9241	548	9.141 0423	558	0.858 9577	9.995 8817	11	122	
879	9.136 9788	547	9.141 0981	558	0.858 9019	9.995 8807	10	121	
		548		559			11		
.880	9.137 0336		9.141 1540		0.858 8460	9.995 8796		.120	
		548		558			10		
881	9.137 0884		9.141 2098		0.858 7902	9.995 8786		119	
882	9.137 1431	547	9.141 2656	558	0.858 7344	9.995 8775	11	118	
883	9.137 1979	548	9.141 3214	558	0.858 6786	9.995 8765	10	117	
		547		558			11		
884	9.137 2526		9.141 3772		0.858 6228	9.995 8754		116	
885	9.137 3073	547	9.141 4330	558	0.858 5670	9.995 8744	10	115	
886	9.137 3621	548	9.141 4887	557	0.858 5113	9.995 8733	11	114	
		547		558			10		
887	9.137 4168		9.141 5445		0.858 4555	9.995 8723		113	
888	9.137 4715	547	9.141 6003	558	0.858 3997	9.995 8712	11	112	
889	9.137 5262	547	9.141 6560	557	0.858 3440	9.995 8702	10	111	
		547		558			11		
.890	9.137 5809		9.141 7118		0.858 2882	9.995 8691		.110	
		547		557			10		
891	9.137 6356		9.141 7675		0.858 2325	9.995 8681		109	
892	9.137 6903	547	9.141 8232	557	0.858 1768	9.995 8670	11	108	
893	9.137 7450	547	9.141 8790	558	0.858 1210	9.995 8660	10	107	
		546		557			11		
894	9.137 7996		9.141 9347		0.858 0653	9.995 8649		106	
895	9.137 8543	547	9.141 9904	557	0.858 0096	9.995 8639	10	105	
896	9.137 9090	547	9.142 0461	557	0.857 9539	9.995 8628	11	104	
		546		557			10		
897	9.137 9636		9.142 1018		0.857 8982	9.995 8618		103	
898	9.138 0182	546	9.142 1575	557	0.857 8425	9.995 8607	11	102	
899	9.138 0729	547	9.142 2132	557	0.857 7868	9.995 8597	10	101	
		546		557			11		
.900	9.138 1275		9.142 2689		0.857 7311	9.995 8586		.100	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	560	559	558
1	56.0	55.9	55.8
2	112.0	111.8	111.6
3	168.0	167.7	167.4
4	224.0	223.6	223.2
5	280.0	279.5	279.0
6	336.0	335.4	334.8
7	392.0	391.3	390.6
8	448.0	447.2	446.4
9	504.0	503.1	502.2

	557	550	549
1	55.7	55.0	54.9
2	111.4	110.0	109.8
3	167.1	165.0	164.7
4	222.8	220.0	219.6
5	278.5	275.0	274.5
6	334.2	330.0	329.4
7	389.9	385.0	384.3
8	445.6	440.0	439.2
9	501.3	495.0	494.1

	548	547
1	54.8	54.7
2	109.6	109.4
3	164.4	164.1
4	219.2	218.8
5	274.0	273.5
6	328.8	328.2
7	383.6	382.9
8	438.4	437.6
9	493.2	492.3

	546	11
1	54.6	1.1
2	109.2	2.2
3	163.8	3.3
4	218.4	4.4
5	273.0	5.5
6	327.6	6.6
7	382.2	7.7
8	436.8	8.8
9	491.4	9.9

	10
1	1.0
2	2.0
3	3.0
4	4.0
5	5.0
6	6.0
7	7.0
8	8.0
9	9.0

$82^\circ.150 - 82^\circ.100$

$7^\circ.900 - 7^\circ.950$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.138 1275		9.142 2689		0.857 7311	9.995 8586		**.100**	
		546		557			10		
901	9.138 1821		9.142 3246		0.857 6754	9.995 8576		099	
902	9.138 2367	546	9.142 3802	556	0.857 6198	9.995 8565	11	098	
903	9.138 2914	547	9.142 4359	557	0.857 5641	9.995 8555	10	097	
		546		556			11		
904	9.138 3460		9.142 4915		0.857 5085	9.995 8544		096	
905	9.138 4005	545	9.142 5472	557	0.857 4528	9.995 8534	10	095	
906	9.138 4551	546	9.142 6028	556	0.857 3972	9.995 8523	11	094	
		546		557			10		
907	9.138 5097		9.142 6585		0.857 3415	9.995 8513		093	
908	9.138 5643	546	9.142 7141	556	0.857 2859	9.995 8502	11	092	
909	9.138 6189	546	9.142 7697	556	0.857 2303	9.995 8492	10	091	
		545		556			11		
.910	9.138 6734		9.142 8253		0.857 1747	9.995 8481		**.090**	
		546		556			10		
911	9.138 7280		9.142 8809		0.857 1191	9.995 8471		089	
912	9.138 7825	545	9.142 9365	556	0.857 0635	9.995 8460	11	088	
913	9.138 8370	545	9.142 9921	556	0.857 0079	9.995 8449	11	087	
		546		556			10		
914	9.138 8916		9.143 0477		0.856 9523	9.995 8439		086	
915	9.138 9461	545	9.143 1033	556	0.856 8967	9.995 8428	11	085	
916	9.139 0006	545	9.143 1588	555	0.856 8412	9.995 8418	10	084	
		545		556			11		
917	9.139 0551		9.143 2144		0.856 7856	9.995 8407		083	
918	9.139 1096	545	9.143 2700	556	0.856 7300	9.995 8397	10	082	
919	9.139 1641	545	9.143 3255	555	0.856 6745	9.995 8386	11	081	
		545		556			10		
.920	9.139 2186		9.143 3811		0.856 6189	9.995 8376		**.080**	
		545		555			11		
921	9.139 2731		9.143 4366		0.856 5634	9.995 8365		079	
922	9.139 3276	545	9.143 4921	555	0.856 5079	9.995 8355	10	078	
923	9.139 3820	544	9.143 5476	555	0.856 4524	9.995 8344	11	077	
		545		556			11		
924	9.139 4365		9.143 6032		0.856 3968	9.995 8333		076	
925	9.139 4910	545	9.143 6587	555	0.856 3413	9.995 8323	10	075	
926	9.139 5454	544	9.143 7142	555	0.856 2858	9.995 8312	11	074	
		544		555			10		
927	9.139 5998		9.143 7697		0.856 2303	9.995 8302		073	
928	9.139 6543	545	9.143 8252	555	0.856 1748	9.995 8291	11	072	
929	9.139 7087	544	9.143 8806	554	0.856 1194	9.995 8281	10	071	
		544		555			11		
.930	9.139 7631		9.143 9361		0.856 0639	9.995 8270		**.070**	
		544		555			10		
931	9.139 8175		9.143 9916		0.856 0084	9.995 8260		069	
932	9.139 8719	544	9.144 0470	554	0.855 9530	9.995 8249	11	068	
933	9.139 9263	544	9.144 1025	555	0.855 8975	9.995 8238	11	067	
		544		554			10		
934	9.139 9807		9.144 1579		0.855 8421	9.995 8228		066	
935	9.140 0351	544	9.144 2134	555	0.855 7866	9.995 8217	11	065	
936	9.140 0895	544	9.144 2688	554	0.855 7312	9.995 8207	10	064	
		544		554			11		
937	9.140 1439		9.144 3242		0.855 6758	9.995 8196		063	
938	9.140 1982	543	9.144 3797	555	0.855 6203	9.995 8186	10	062	
939	9.140 2526	544	9.144 4351	554	0.855 5649	9.995 8175	11	061	
		543		554			11		
.940	9.140 3069		9.144 4905		0.855 5095	9.995 8164		**.060**	
		544		554			10		
941	9.140 3613		9.144 5459		0.855 4541	9.995 8154		059	
942	9.140 4156	543	9.144 6013	554	0.855 3987	9.995 8143	11	058	
943	9.140 4699	543	9.144 6567	554	0.855 3433	9.995 8133	10	057	
		544		553			11		
944	9.140 5243		9.144 7120		0.855 2880	9.995 8122		056	
945	9.140 5786	543	9.144 7674	554	0.855 2326	9.995 8112	10	055	
946	9.140 6329	543	9.144 8228	554	0.855 1772	9.995 8101	11	054	
		543		553			11		
947	9.140 6872		9.144 8781		0.855 1219	9.995 8090		053	
948	9.140 7415	543	9.144 9335	554	0.855 0665	9.995 8080	10	052	
949	9.140 7958	543	9.144 9888	553	0.855 0112	9.995 8069	11	051	
		543		554			10		
.950	9.140 8501		9.145 0442		0.854 9558	9.995 8059		**.050**	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	557	556	555
1	55.7	55.6	55.5
2	111.4	111.2	111.0
3	167.1	166.8	166.5
4	222.8	222.4	222.0
5	278.5	278.0	277.5
6	334.2	333.6	333.0
7	389.9	389.2	388.5
8	445.6	444.8	444.0
9	501.3	500.4	499.5

	554	553	547
1	55.4	55.3	54.7
2	110.8	110.6	109.4
3	166.2	165.9	164.1
4	221.6	221.2	218.8
5	277.0	276.5	273.5
6	332.4	331.8	328.2
7	387.8	387.1	382.9
8	443.2	442.4	437.6
9	498.6	497.7	492.3

	546	545
1	54.6	54.5
2	109.2	109.0
3	163.8	163.5
4	218.4	218.0
5	273.0	272.5
6	327.6	327.0
7	382.2	381.5
8	436.8	436.0
9	491.4	490.5

	544	543
1	54.4	54.3
2	108.8	108.6
3	163.2	162.9
4	217.6	217.2
5	272.0	271.5
6	326.4	325.8
7	380.8	380.1
8	435.2	434.4
9	489.6	488.7

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$82^\circ.100 - 82^\circ.050$

$7^\circ.950 - 8^\circ.000$

7°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.140 8501		9.145 0442		0.854 9558	9.995 8059		.050	
		542		553			11		
951	9.140 9043		9.145 0995		0.854 9005	9.995 8048		049	
952	9.140 9586	543	9.145 1548	553	0.854 8452	9.995 8038	10	048	
953	9.141 0129	543	9.145 2102	554	0.854 7898	9.995 8027	11	047	
		542		553			11		
954	9.141 0671		9.145 2655		0.854 7345	9.995 8016		046	
955	9.141 1214	543	9.145 3208	553	0.854 6792	9.995 8006	10	045	
956	9.141 1756	542	9.145 3761	553	0.854 6239	9.995 7995	11	044	
		542		553			10		
957	9.141 2298		9.145 4314		0.854 5686	9.995 7985		043	
958	9.141 2840	542	9.145 4867	553	0.854 5133	9.995 7974	11	042	
959	9.141 3383	543	9.145 5419	552	0.854 4581	9.995 7963	11	041	
		542		553			10		
.960	9.141 3925		9.145 5972		0.854 4028	9.995 7953		.040	
		542		553			11		
961	9.141 4467		9.145 6525		0.854 3475	9.995 7942		039	
962	9.141 5009	542	9.145 7077	552	0.854 2923	9.995 7932	10	038	
963	9.141 5551	542	9.145 7630	553	0.854 2370	9.995 7921	11	037	
		542		552			11		
964	9.141 6093		9.145 8182		0.854 1818	9.995 7910		036	
965	9.141 6634	541	9.145 8735	553	0.854 1265	9.995 7900	10	035	
966	9.141 7176	542	9.145 9287	552	0.854 0713	9.995 7889	11	034	
		542		552			10		
967	9.141 7718		9.145 9839		0.854 0161	9.995 7879		033	
968	9.141 8259	541	9.146 0391	552	0.853 9609	9.995 7868	11	032	
969	9.141 8801	542	9.146 0943	552	0.853 9057	9.995 7857	11	031	
		541		552			10		
.970	9.141 9342		9.146 1495		0.853 8505	9.995 7847		.030	
		542		552			11		
971	9.141 9884		9.146 2047		0.853 7953	9.995 7836		029	
972	9.142 0425	541	9.146 2599	552	0.853 7401	9.995 7826	10	028	
973	9.142 0966	541	9.146 3151	552	0.853 6849	9.995 7815	11	027	
		541		552			11		
974	9.142 1507		9.146 3703		0.853 6297	9.995 7804		026	
975	9.142 2048	541	9.146 4255	552	0.853 5745	9.995 7794	10	025	
976	9.142 2589	541	9.146 4806	551	0.853 5194	9.995 7783	11	024	
		541		552			11		
977	9.142 3130		9.146 5358		0.853 4642	9.995 7772		023	
978	9.142 3671	541	9.146 5909	551	0.853 4091	9.995 7762	10	022	
979	9.142 4212	541	9.146 6461	552	0.853 3539	9.995 7751	11	021	
		541		551			10		
.980	9.142 4753		9.146 7012		0.853 2988	9.995 7741		.020	
		540		551			11		
981	9.142 5293		9.146 7563		0.853 2437	9.995 7730		019	
982	9.142 5834	541	9.146 8115	552	0.853 1885	9.995 7719	11	018	
983	9.142 6374	540	9.146 8666	551	0.853 1334	9.995 7709	10	017	
		541		551			11		
984	9.142 6915		9.146 9217		0.853 0783	9.995 7698		016	
985	9.142 7455	540	9.146 9768	551	0.853 0232	9.995 7687	11	015	
986	9.142 7996	541	9.147 0319	551	0.852 9681	9.995 7677	10	014	
		540		551			11		
987	9.142 8536		9.147 0870		0.852 9130	9.995 7666		013	
988	9.142 9076	540	9.147 1421	551	0.852 8579	9.995 7655	11	012	
989	9.142 9616	540	9.147 1971	550	0.852 8029	9.995 7645	10	011	
		540		551			11		
.990	9.143 0156		9.147 2522		0.852 7478	9.995 7634		.010	
		540		551			10		
991	9.143 0696		9.147 3073		0.852 6927	9.995 7624		009	
992	9.143 1236	540	9.147 3623	550	0.852 6377	9.995 7613	11	008	
993	9.143 1776	540	9.147 4174	551	0.852 5826	9.995 7602	11	007	
		540		550			10		
994	9.143 2316		9.147 4724		0.852 5276	9.995 7592		006	
995	9.143 2856	540	9.147 5275	551	0.852 4725	9.995 7581	11	005	
996	9.143 3395	539	9.147 5825	550	0.852 4175	9.995 7570	11	004	
		540		550			10		
997	9.143 3935		9.147 6375		0.852 3625	9.995 7560		003	
998	9.143 4474	539	9.147 6925	550	0.852 3075	9.995 7549	11	002	
999	9.143 5014	540	9.147 7475	550	0.852 2525	9.995 7538	11	001	
		539		550			10		
*.000	9.143 5553		9.147 8025		0.852 1975	9.995 7528		.000	
	cos	d	cotg	d	tang	sin	d	82°	P.P.

	554	553	552
1	55.4	55.3	55.2
2	110.8	110.6	110.4
3	166.2	165.9	165.6
4	221.6	221.2	220.8
5	277.0	276.5	276.0
6	332.4	331.8	331.2
7	387.8	387.1	386.4
8	443.2	442.4	441.6
9	498.6	497.7	496.8

	551	550	543
1	55.1	55.0	54.3
2	110.2	110.0	108.6
3	165.3	165.0	162.9
4	220.4	220.0	217.2
5	275.5	275.0	271.5
6	330.6	330.0	325.8
7	385.7	385.0	380.1
8	440.8	440.0	434.4
9	495.9	495.0	488.7

	542	541	540
1	54.2	54.1	54.0
2	108.4	108.2	108.0
3	162.6	162.3	162.0
4	216.8	216.4	216.0
5	271.0	270.5	270.0
6	325.2	324.6	324.0
7	379.4	378.7	378.0
8	433.6	432.8	432.0
9	487.8	486.9	486.0

	539	11	10
1	53.9	1.1	1.0
2	107.8	2.2	2.0
3	161.7	3.3	3.0
4	215.6	4.4	4.0
5	269.5	5.5	5.0
6	323.4	6.6	6.0
7	377.3	7.7	7.0
8	431.2	8.8	8.0
9	485.1	9.9	9.0

$82^\circ.050 - 82^\circ.000$

$8°.000$ — $8°.050$

$8°$	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.143 5553		9.147 8025		0.852 1975	9.995 7528		***000**	
		539		550			11		
001	9.143 6092		9.147 8575		0.852 1425	9.995 7517		999	
002	9.143 6632	540	9.147 9125	550	0.852 0875	9.995 7506	11	998	
003	9.143 7171	539	9.147 9675	550	0.852 0325	9.995 7496	10	997	
		539		550			11		
004	9.143 7710		9.148 0225		0.851 9775	9.995 7485		996	
005	9.143 8249	539	9.148 0774	549	0.851 9226	9.995 7474	11	995	
006	9.143 8788	539	9.148 1324	550	0.851 8676	9.995 7464	10	994	
		539		550			11		
007	9.143 9327		9.148 1874		0.851 8126	9.995 7453		993	
008	9.143 9866	539	9.148 2423	549	0.851 7577	9.995 7442	11	992	
009	9.144 0404	538	9.148 2972	549	0.851 7028	9.995 7432	10	991	
		539		550			11		
.010	9.144 0943		9.148 3522		0.851 6478	9.995 7421		**.990**	
		539		549			11		
011	9.144 1482		9.148 4071		0.851 5929	9.995 7410		989	
012	9.144 2020	538	9.148 4620	549	0.851 5380	9.995 7400	10	988	
013	9.144 2559	539	9.148 5169	549	0.851 4831	9.995 7389	11	987	
		538		550			11		
014	9.144 3097		9.148 5719		0.851 4281	9.995 7378		986	
015	9.144 3635	538	9.148 6268	549	0.851 3732	9.995 7368	10	985	
016	9.144 4174	539	9.148 6817	549	0.851 3183	9.995 7357	11	984	
		538		548			11		
017	9.144 4712		9.148 7365		0.851 2635	9.995 7346		983	
018	9.144 5250	538	9.148 7914	549	0.851 2086	9.995 7336	10	982	
019	9.144 5788	538	9.148 8463	549	0.851 1537	9.995 7325	11	981	
		538		549			11		
.020	9.144 6326		9.148 9012		0.851 0988	9.995 7314		**.980**	
		538		548			10		
021	9.144 6864		9.148 9560		0.851 0440	9.995 7304		979	
022	9.144 7402	538	9.149 0109	549	0.850 9891	9.995 7293	11	978	
023	9.144 7940	538	9.149 0657	548	0.850 9343	9.995 7282	11	977	
		537		549			10		
024	9.144 8477		9.149 1206		0.850 8794	9.995 7272		976	
025	9.144 9015	538	9.149 1754	548	0.850 8246	9.995 7261	11	975	
026	9.144 9553	538	9.149 2302	548	0.850 7698	9.995 7250	11	974	
		537		549			10		
027	9.145 0090		9.149 2851		0.850 7149	9.995 7240		973	
028	9.145 0628	538	9.149 3399	548	0.850 6601	9.995 7229	11	972	
029	9.145 1165	537	9.149 3947	548	0.850 6053	9.995 7218	11	971	
		537		548			10		
.030	9.145 1702		9.149 4495		0.850 5505	9.995 7208		**.970**	
		538		548			11		
031	9.145 2240		9.149 5043		0.850 4957	9.995 7197		969	
032	9.145 2777	537	9.149 5591	548	0.850 4409	9.995 7186	11	968	
033	9.145 3314	537	9.149 6139	548	0.850 3861	9.995 7175	11	967	
		537		547			10		
034	9.145 3851		9.149 6686		0.850 3314	9.995 7165		966	
035	9.145 4388	537	9.149 7234	548	0.850 2766	9.995 7154	11	965	
036	9.145 4925	537	9.149 7782	548	0.850 2218	9.995 7143	11	964	
		537		547			10		
037	9.145 5462		9.149 8329		0.850 1671	9.995 7133		963	
038	9.145 5999	537	9.149 8877	548	0.850 1123	9.995 7122	11	962	
039	9.145 6535	536	9.149 9424	547	0.850 0576	9.995 7111	11	961	
		537		547			10		
.040	9.145 7072		9.149 9971		0.850 0029	9.995 7101		**.960**	
		537		548			11		
041	9.145 7609		9.150 0519		0.849 9481	9.995 7090		959	
042	9.145 8145	536	9.150 1066	547	0.849 8934	9.995 7079	11	958	
043	9.145 8682	537	9.150 1613	547	0.849 8387	9.995 7068	11	957	
		536		547			10		
044	9.145 9218		9.150 2160		0.849 7840	9.995 7058		956	
045	9.145 9754	536	9.150 2707	547	0.849 7293	9.995 7047	11	955	
046	9.146 0290	536	9.150 3254	547	0.849 6746	9.995 7036	11	954	
		537		547			10		
047	9.146 0827		9.150 3801		0.849 6199	9.995 7026		953	
048	9.146 1363	536	9.150 4348	547	0.849 5652	9.995 7015	11	952	
049	9.146 1899	536	9.150 4895	547	0.849 5105	9.995 7004	11	951	
		536		546			11		
.050	9.146 2435		9.150 5441		0.849 4559	9.995 6993		**.950**	
	cos	d	cotg	d	tang	sin	d	**81°**	P.P.

	550	549	548
1	55.0	54.9	54.8
2	110.0	109.8	109.6
3	165.0	164.7	164.4
4	220.0	219.6	219.2
5	275.0	274.5	274.0
6	330.0	329.4	328.8
7	385.0	384.3	383.6
8	440.0	439.2	438.4
9	495.0	494.1	493.2

	547	546	540
1	54.7	54.6	54.0
2	109.4	109.2	108.0
3	164.1	163.8	162.0
4	218.8	218.4	216.0
5	273.5	273.0	270.0
6	328.2	327.6	324.0
7	382.9	382.2	378.0
8	437.6	436.8	432.0
9	492.3	491.4	486.0

	539	538	537
1	53.9	53.8	53.7
2	107.8	107.6	107.4
3	161.7	161.4	161.1
4	215.6	215.2	214.8
5	269.5	269.0	268.5
6	323.4	322.8	322.2
7	377.3	376.6	375.9
8	431.2	430.4	429.6
9	485.1	484.2	483.3

	536	11	10
1	53.6	1.1	1.0
2	107.2	2.2	2.0
3	160.8	3.3	3.0
4	214.4	4.4	4.0
5	268.0	5.5	5.0
6	321.6	6.6	6.0
7	375.2	7.7	7.0
8	428.8	8.8	8.0
9	482.4	9.9	9.0

$82°.000$ — $81°.950$

$8^\circ.050 - 8^\circ.100$

8°	sin	d	tang	d	cotg	cos	d		P.P.		
.050	9.146 2435		9.150 5441		0.849 4559	9.995 6993		**.950**			
		536		547			10				
051	9.146 2971		9.150 5988		0.849 4012	9.995 6983		949			
052	9.146 3507	536	9.150 6535	547	0.849 3465	9.995 6972	11	948			
053	9.146 4042	535	9.150 7081	546	0.849 2919	9.995 6961	11	947			
		536		546			10				
054	9.146 4578		9.150 7627		0.849 2373	9.995 6951		946			
055	9.146 5114	536	9.150 8174	547	0.849 1826	9.995 6940	11	945	1	54.7	54.6	54.5
056	9.146 5649	535	9.150 8720	546	0.849 1280	9.995 6929	11	944	2	109.4	109.2	109.0
		536		546			11		3	164.1	163.8	163.5
057	9.146 6185		9.150 9266		0.849 0734	9.995 6918		943	4	218.8	218.4	218.0
058	9.146 6720	535	9.150 9813	547	0.849 0187	9.995 6908	10	942	5	273.5	273.0	272.5
059	9.146 7256	536	9.151 0359	546	0.848 9641	9.995 6897	11	941	6	328.2	327.6	327.0
		535		546			11		7	382.9	382.2	381.5
.060	9.146 7791		9.151 0905		0.848 9095	9.995 6886		**.940**	8	437.6	436.8	436.0
		535		546			11		9	492.3	491.4	490.5
061	9.146 8326		9.151 1451		0.848 8549	9.995 6875		939				
062	9.146 8861	535	9.151 1997	546	0.848 8003	9.995 6865	10	938				
063	9.146 9396	535	9.151 2542	545	0.848 7458	9.995 6854	11	937				
		535		546			11					
064	9.146 9931		9.151 3088		0.848 6912	9.995 6843		936				
065	9.147 0466	535	9.151 3634	546	0.848 6366	9.995 6832	11	935		544	543	536
066	9.147 1001	535	9.151 4180	546	0.848 5820	9.995 6822	10	934				
		535		545			11		1	54.4	54.3	53.6
067	9.147 1536		9.151 4725		0.848 5275	9.995 6811		933	2	108.8	108.6	107.2
068	9.147 2071	535	9.151 5271	546	0.848 4729	9.995 6800	11	932	3	163.2	162.9	160.8
069	9.147 2606	535	9.151 5816	545	0.848 4184	9.995 6789	11	931	4	217.6	217.2	214.4
		534		545			10		5	272.0	271.5	268.0
.070	9.147 3140		9.151 6361		0.848 3639	9.995 6779		**.930**	6	326.4	325.8	321.6
		535		546			11		7	380.8	380.1	375.2
071	9.147 3675		9.151 6907		0.848 3093	9.995 6768		929	8	435.2	434.4	428.8
072	9.147 4209	534	9.151 7452	545	0.848 2548	9.995 6757	11	928	9	489.6	488.7	482.4
073	9.147 4744	535	9.151 7997	545	0.848 2003	9.995 6747	10	927				
		534		545			11					
074	9.147 5278		9.151 8542		0.848 1458	9.995 6736		926				
075	9.147 5812	534	9.151 9087	545	0.848 0913	9.995 6725	11	925				
076	9.147 6347	535	9.151 9632	545	0.848 0368	9.995 6714	11	924				
		534		545			11					
077	9.147 6881		9.152 0177		0.847 9823	9.995 6703		923		535	534	533
078	9.147 7415	534	9.152 0722	545	0.847 9278	9.995 6693	10	922				
079	9.147 7949	534	9.152 1267	545	0.847 8733	9.995 6682	11	921	1	53.5	53.4	53.3
		534		545			11		2	107.0	106.8	106.6
.080	9.147 8483		9.152 1812		0.847 8188	9.995 6671		**.920**	3	160.5	160.2	159.9
		534		544			11		4	214.0	213.6	213.2
081	9.147 9017		9.152 2356		0.847 7644	9.995 6660		919	5	267.5	267.0	266.5
082	9.147 9550	533	9.152 2901	545	0.847 7099	9.995 6650	10	918	6	321.0	320.4	319.8
083	9.148 0084	534	9.152 3445	544	0.847 6555	9.995 6639	11	917	7	374.5	373.8	373.1
		534		545			11		8	428.0	427.2	426.4
084	9.148 0618		9.152 3990		0.847 6010	9.995 6628		916	9	481.5	480.6	479.7
085	9.148 1152	534	9.152 4534	544	0.847 5466	9.995 6617	11	915				
086	9.148 1685	533	9.152 5078	544	0.847 4922	9.995 6607	10	914				
		534		545			11					
087	9.148 2219		9.152 5623		0.847 4377	9.995 6596		913				
088	9.148 2752	533	9.152 6167	544	0.847 3833	9.995 6585	11	912				
089	9.148 3285	533	9.152 6711	544	0.847 3289	9.995 6574	11	911		532	11	10
		534		544			10					
.090	9.148 3819		9.152 7255		0.847 2745	9.995 6564		**.910**	1	53.2	1.1	1.0
		533		544			11		2	106.4	2.2	2.0
091	9.148 4352		9.152 7799		0.847 2201	9.995 6553		909	3	159.6	3.3	3.0
092	9.148 4885	533	9.152 8343	544	0.847 1657	9.995 6542	11	908	4	212.8	4.4	4.0
093	9.148 5418	533	9.152 8887	544	0.847 1113	9.995 6531	11	907	5	266.0	5.5	5.0
		533		544			11		6	319.2	6.6	6.0
094	9.148 5951		9.152 9431		0.847 0569	9.995 6520		906	7	372.4	7.7	7.0
095	9.148 6484	533	9.152 9974	543	0.847 0026	9.995 6510	10	905	8	425.6	8.8	8.0
096	9.148 7017	533	9.153 0518	544	0.846 9482	9.995 6499	11	904	9	478.8	9.9	9.0
		533		544			11					
097	9.148 7550		9.153 1062		0.846 8938	9.995 6488		903				
098	9.148 8083	533	9.153 1605	543	0.846 8395	9.995 6477	11	902				
099	9.148 8615	532	9.153 2149	544	0.846 7851	9.995 6467	10	901				
		533		543			11					
.100	9.148 9148		9.153 2692		0.846 7308	9.995 6456		**.900**				
	cos	d	cotg	d	tang	sin	d	81°	P.P.			

$81^\circ.950 - 81^\circ.900$

8°.100 — 8°.150

8°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.148 9148		9.153 2692		0.846 7308	9.995 6456		.900	
		532		544			11		
101	9.148 9680		9.153 3236		0.846 6764	9.995 6445		899	
102	9.149 0213	533	9.153 3779	543	0.846 6221	9.995 6434	11	898	
103	9.149 0745	532	9.153 4322	543	0.846 5678	9.995 6423	11	897	
		533		543			10		
104	9.149 1278		9.153 4865		0.846 5135	9.995 6413		896	
105	9.149 1810	532	9.153 5408	543	0.846 4592	9.995 6402	11	895	
106	9.149 2342	532	9.153 5951	543	0.846 4049	9.995 6391	11	894	
		532		543			11		
107	9.149 2874		9.153 6494		0.846 3506	9.995 6380		893	
108	9.149 3406	532	9.153 7037	543	0.846 2963	9.995 6369	11	892	
109	9.149 3939	533	9.153 7580	543	0.846 2420	9.995 6359	10	891	
		531		543			11		
.110	9.149 4470		9.153 8123		0.846 1877	9.995 6348		.890	
		532		542			11		
111	9.149 5002		9.153 8665		0.846 1335	9.995 6337		889	
112	9.149 5534	532	9.153 9208	543	0.846 0792	9.995 6326	11	888	
113	9.149 6066	532	9.153 9751	543	0.846 0249	9.995 6315	11	887	
		532		542			10		
114	9.149 6598		9.154 0293		0.845 9707	9.995 6305		886	
115	9.149 7129	531	9.154 0835	542	0.845 9165	9.995 6294	11	885	
116	9.149 7661	532	9.154 1378	543	0.845 8622	9.995 6283	11	884	
		531		542			11		
117	9.149 8192		9.154 1920		0.845 8080	9.995 6272		883	
118	9.149 8724	532	9.154 2462	542	0.845 7538	9.995 6261	11	882	
119	9.149 9255	531	9.154 3005	543	0.845 6995	9.995 6251	10	881	
		531		542			11		
.120	9.149 9786		9.154 3547		0.845 6453	9.995 6240		.880	
		532		542			11		
121	9.150 0318		9.154 4089		0.845 5911	9.995 6229		879	
122	9.150 0849	531	9.154 4631	542	0.845 5369	9.995 6218	11	878	
123	9.150 1380	531	9.154 5173	542	0.845 4827	9.995 6207	11	877	
		531		541			11		
124	9.150 1911		9.154 5714		0.845 4286	9.995 6196		876	
125	9.150 2442	531	9.154 6256	542	0.845 3744	9.995 6186	10	875	
126	9.150 2973	531	9.154 6798	542	0.845 3202	9.995 6175	11	874	
		531		542			11		
127	9.150 3504		9.154 7340		0.845 2660	9.995 6164		873	
128	9.150 4034	530	9.154 7881	541	0.845 2119	9.995 6153	11	872	
129	9.150 4565	531	9.154 8423	542	0.845 1577	9.995 6142	11	871	
		531		541			11		
.130	9.150 5096		9.154 8964		0.845 1036	9.995 6131		.870	
		530		542			10		
131	9.150 5626		9.154 9506		0.845 0494	9.995 6121		869	
132	9.150 6157	531	9.155 0047	541	0.844 9953	9.995 6110	11	868	
133	9.150 6687	530	9.155 0588	541	0.844 9412	9.995 6099	11	867	
		531		541			11		
134	9.150 7218		9.155 1129		0.844 8871	9.995 6088		866	
135	9.150 7748	530	9.155 1671	542	0.844 8329	9.995 6077	11	865	
136	9.150 8278	530	9.155 2212	541	0.844 7788	9.995 6066	11	864	
		530		541			10		
137	9.150 8808		9.155 2753		0.844 7247	9.995 6056		863	
138	9.150 9338	530	9.155 3294	541	0.844 6706	9.995 6045	11	862	
139	9.150 9868	530	9.155 3834	540	0.844 6166	9.995 6034	11	861	
		530		541			11		
.140	9.151 0398		9.155 4375		0.844 5625	9.995 6023		.860	
		530		541			11		
141	9.151 0928		9.155 4916		0.844 5084	9.995 6012		859	
142	9.151 1458	530	9.155 5457	541	0.844 4543	9.995 6001	11	858	
143	9.151 1988	530	9.155 5997	540	0.844 4003	9.995 5991	10	857	
		530		541			11		
144	9.151 2518		9.155 6538		0.844 3462	9.995 5980		856	
145	9.151 3047	529	9.155 7078	540	0.844 2922	9.995 5969	11	855	
146	9.151 3577	530	9.155 7619	541	0.844 2381	9.995 5958	11	854	
		529		540			11		
147	9.151 4106		9.155 8159		0.844 1841	9.995 5947		853	
148	9.151 4636	530	9.155 8699	540	0.844 1301	9.995 5936	11	852	
149	9.151 5165	529	9.155 9240	541	0.844 0760	9.995 5926	10	851	
		529		540			11		
.150	9.151 5694		9.155 9780		0.844 0220	9.995 5915		.850	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	544	543	542
1	54.4	54.3	54.2
2	108.8	108.6	108.4
3	163.2	162.9	162.6
4	217.6	217.2	216.8
5	272.0	271.5	271.0
6	326.4	325.8	325.2
7	380.8	380.1	379.4
8	435.2	434.4	433.6
9	489.6	488.7	487.8

	541	540	533
1	54.1	54.0	53.3
2	108.2	108.0	106.6
3	162.3	162.0	159.9
4	216.4	216.0	213.2
5	270.5	270.0	266.5
6	324.6	324.0	319.8
7	378.7	378.0	373.1
8	432.8	432.0	426.4
9	486.9	486.0	479.7

	532	531	530
1	53.2	53.1	53.0
2	106.4	106.2	106.0
3	159.6	159.3	159.0
4	212.8	212.4	212.0
5	266.0	265.5	265.0
6	319.2	318.6	318.0
7	372.4	371.7	371.0
8	425.6	424.8	424.0
9	478.8	477.9	477.0

	529	11	10
1	52.9	1.1	1.0
2	105.8	2.2	2.0
3	158.7	3.3	3.0
4	211.6	4.4	4.0
5	264.5	5.5	5.0
6	317.4	6.6	6.0
7	370.3	7.7	7.0
8	423.2	8.8	8.0
9	476.1	9.9	9.0

81°.900 — 81°.850

$8^\circ.150 - 8^\circ.200$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.151 5694		9.155 9780		0.844 0220	9.995 5915		**.850**	
		530		540			11		
151	9.151 6224		9.156 0320		0.843 9680	9.995 5904		849	
152	9.151 6753	529	9.156 0860	540	0.843 9140	9.995 5893	11	848	
153	9.151 7282	529	9.156 1400	540	0.843 8600	9.995 5882	11	847	
		529		540			11		
154	9.151 7811		9.156 1940		0.843 8060	9.995 5871		846	
155	9.151 8340	529	9.156 2480	540	0.843 7520	9.995 5860	11	845	
156	9.151 8869	529	9.156 3019	539	0.843 6981	9.995 5849	11	844	
		529		540			10		
157	9.151 9398		9.156 3559		0.843 6441	9.995 5839		843	
158	9.151 9927	529	9.156 4099	540	0.843 5901	9.995 5828	11	842	
159	9.152 0455	528	9.156 4638	539	0.843 5362	9.995 5817	11	841	
		529		540			11		
.160	9.152 0984		9.156 5178		0.843 4822	9.995 5806		**.840**	
		528		539			11		
161	9.152 1512		9.156 5717		0.843 4283	9.995 5795		839	
162	9.152 2041	529	9.156 6257	540	0.843 3743	9.995 5784	11	838	
163	9.152 2569	528	9.156 6796	539	0.843 3204	9.995 5773	11	837	
		529		539			10		
164	9.152 3098		9.156 7335		0.843 2665	9.995 5763		836	
165	9.152 3626	528	9.156 7875	540	0.843 2125	9.995 5752	11	835	
166	9.152 4154	528	9.156 8414	539	0.843 1586	9.995 5741	11	834	
		529		539			11		
167	9.152 4683		9.156 8953		0.843 1047	9.995 5730		833	
168	9.152 5211	528	9.156 9492	539	0.843 0508	9.995 5719	11	832	
169	9.152 5739	528	9.157 0031	539	0.842 9969	9.995 5708	11	831	
		528		539			11		
.170	9.152 6267		9.157 0570		0.842 9430	9.995 5697		**.830**	
		528		538			11		
171	9.152 6795		9.157 1108		0.842 8892	9.995 5686		829	
172	9.152 7323	528	9.157 1647	539	0.842 8353	9.995 5676	10	828	
173	9.152 7850	527	9.157 2186	539	0.842 7814	9.995 5665	11	827	
		528		538			11		
174	9.152 8378		9.157 2724		0.842 7276	9.995 5654		826	
175	9.152 8906	528	9.157 3263	539	0.842 6737	9.995 5643	11	825	
176	9.152 9433	527	9.157 3801	538	0.842 6199	9.995 5632	11	824	
		528		539			11		
177	9.152 9961		9.157 4340		0.842 5660	9.995 5621		823	
178	9.153 0488	527	9.157 4878	538	0.842 5122	9.995 5610	11	822	
179	9.153 1016	528	9.157 5417	539	0.842 4583	9.995 5599	11	821	
		527		538			11		
.180	9.153 1543		9.157 5955		0.842 4045	9.995 5588		**.820**	
		527		538			11		
181	9.153 2070		9.157 6493		0.842 3507	9.995 5577		819	
182	9.153 2598	528	9.157 7031	538	0.842 2969	9.995 5567	10	818	
183	9.153 3125	527	9.157 7569	538	0.842 2431	9.995 5556	11	817	
		527		538			11		
184	9.153 3652		9.157 8107		0.842 1893	9.995 5545		816	
185	9.153 4179	527	9.157 8645	538	0.842 1355	9.995 5534	11	815	
186	9.153 4706	527	9.157 9183	538	0.842 0817	9.995 5523	11	814	
		527		538			11		
187	9.153 5233		9.157 9721		0.842 0279	9.995 5512		813	
188	9.153 5760	527	9.158 0258	537	0.841 9742	9.995 5501	11	812	
189	9.153 6286	526	9.158 0796	538	0.841 9204	9.995 5490	11	811	
		527		538			11		
.190	9.153 6813		9.158 1334		0.841 8666	9.995 5479		**.810**	
		527		537			11		
191	9.153 7340		9.158 1871		0.841 8129	9.995 5468		809	
192	9.153 7866	526	9.158 2409	538	0.841 7591	9.995 5458	10	808	
193	9.153 8393	527	9.158 2946	537	0.841 7054	9.995 5447	11	807	
		526		537			11		
194	9.153 8919		9.158 3483		0.841 6517	9.995 5436		806	
195	9.153 9446	527	9.158 4021	538	0.841 5979	9.995 5425	11	805	
196	9.153 9972	526	9.158 4558	537	0.841 5442	9.995 5414	11	804	
		526		537			11		
197	9.154 0498		9.158 5095		0.841 4905	9.995 5403		803	
198	9.154 1024	526	9.158 5632	537	0.841 4368	9.995 5392	11	802	
199	9.154 1550	526	9.158 6169	537	0.841 3831	9.995 5381	11	801	
		526		537			11		
.200	9.154 2076		9.158 6706		0.841 3294	9.995 5370		**.800**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	540	539	538
1	54.0	53.9	53.8
2	108.0	107.8	107.6
3	162.0	161.7	161.4
4	216.0	215.6	215.2
5	270.0	269.5	269.0
6	324.0	323.4	322.8
7	378.0	377.3	376.6
8	432.0	431.2	430.4
9	486.0	485.1	484.2

	537	530	529
1	53.7	53.0	52.9
2	107.4	106.0	105.8
3	161.1	159.0	158.7
4	214.8	212.0	211.6
5	268.5	265.0	264.5
6	322.2	318.0	317.4
7	375.9	371.0	370.3
8	429.6	424.0	423.2
9	483.3	477.0	476.1

	528	527	526
1	52.8	52.7	52.6
2	105.6	105.4	105.2
3	158.4	158.1	157.8
4	211.2	210.8	210.4
5	264.0	263.5	263.0
6	316.8	316.2	315.6
7	369.6	368.9	368.2
8	422.4	421.6	420.8
9	475.2	474.3	473.4

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7.7	7.0
8	8.8	8.0
9	9.9	9.0

$81^\circ.850 - 81^\circ.800$

$8^\circ.200 - 8^\circ.250$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.154 2076		9.158 6706		0.841 3294	9.995 5370		**.800**	
		526		537			11		
201	9.154 2602		9.158 7243		0.841 2757	9.995 5359		799	
202	9.154 3128	526	9.158 7780	537	0.841 2220	9.995 5348	11	798	
203	9.154 3654	526	9.158 8317	537	0.841 1683	9.995 5337	11	797	
		526		536			10		
204	9.154 4180		9.158 8853		0.841 1147	9.995 5327		796	
205	9.154 4706	526	9.158 9390	537	0.841 0610	9.995 5316	11	795	
206	9.154 5231	525	9.158 9927	537	0.841 0073	9.995 5305	11	794	
		526		536			11		
207	9.154 5757		9.159 0463		0.840 9537	9.995 5294		793	
208	9.154 6282	525	9.159 1000	537	0.840 9000	9.995 5283	11	792	
209	9.154 6808	526	9.159 1536	536	0.840 8464	9.995 5272	11	791	
		525		536			11		
.210	9.154 7333		9.159 2072		0.840 7928	9.995 5261		**.790**	
		525		537			11		
211	9.154 7858		9.159 2609		0.840 7391	9.995 5250		789	
212	9.154 8384	526	9.159 3145	536	0.840 6855	9.995 5239	11	788	
213	9.154 8909	525	9.159 3681	536	0.840 6319	9.995 5228	11	787	
		525		536			11		
214	9.154 9434		9.159 4217		0.840 5783	9.995 5217		786	
215	9.154 9959	525	9.159 4753	536	0.840 5247	9.995 5206	11	785	
216	9.155 0484	525	9.159 5289	536	0.840 4711	9.995 5195	11	784	
		525		536			11		
217	9.155 1009		9.159 5825		0.840 4175	9.995 5184		783	
218	9.155 1534	525	9.159 6361	536	0.840 3639	9.995 5173	11	782	
219	9.155 2059	525	9.159 6896	535	0.840 3104	9.995 5162	11	781	
		524		536			11		
.220	9.155 2583		9.159 7432		0.840 2568	9.995 5151		**.780**	
		525		536			10		
221	9.155 3108		9.159 7968		0.840 2032	9.995 5141		779	
222	9.155 3633	525	9.159 8503	535	0.840 1497	9.995 5130	11	778	
223	9.155 4157	524	9.159 9039	536	0.840 0961	9.995 5119	11	777	
		525		535			11		
224	9.155 4682		9.159 9574		0.840 0426	9.995 5108		776	
225	9.155 5206	524	9.160 0110	536	0.839 9890	9.995 5097	11	775	
226	9.155 5731	525	9.160 0645	535	0.839 9355	9.995 5086	11	774	
		524		535			11		
227	9.155 6255		9.160 1180		0.839 8820	9.995 5075		773	
228	9.155 6779	524	9.160 1715	535	0.839 8285	9.995 5064	11	772	
229	9.155 7303	524	9.160 2250	535	0.839 7750	9.995 5053	11	771	
		524		535			11		
.230	9.155 7827		9.160 2785		0.839 7215	9.995 5042		**.770**	
		524		535			11		
231	9.155 8351		9.160 3320		0.839 6680	9.995 5031		769	
232	9.155 8875	524	9.160 3855	535	0.839 6145	9.995 5020	11	768	
233	9.155 9399	524	9.160 4390	535	0.839 5610	9.995 5009	11	767	
		524		535			11		
234	9.155 9923		9.160 4925		0.839 5075	9.995 4998		766	
235	9.156 0447	524	9.160 5460	535	0.839 4540	9.995 4987	11	765	
236	9.156 0971	524	9.160 5994	534	0.839 4006	9.995 4976	11	764	
		523		535			11		
237	9.156 1494		9.160 6529		0.839 3471	9.995 4965		763	
238	9.156 2018	524	9.160 7064	535	0.839 2936	9.995 4954	11	762	
239	9.156 2541	523	9.160 7598	534	0.839 2402	9.995 4943	11	761	
		524		535			11		
.240	9.156 3065		9.160 8133		0.839 1867	9.995 4932		**.760**	
		523		534			11		
241	9.156 3588		9.160 8667		0.839 1333	9.995 4921		759	
242	9.156 4111	523	9.160 9201	534	0.839 0799	9.995 4910	11	758	
243	9.156 4635	524	9.160 9735	534	0.839 0265	9.995 4899	11	757	
		523		535			11		
244	9.156 5158		9.161 0270		0.838 9730	9.995 4888		756	
245	9.156 5681	523	9.161 0804	534	0.838 9196	9.995 4877	11	755	
246	9.156 6204	523	9.161 1338	534	0.838 8662	9.995 4866	11	754	
		523		534			11		
247	9.156 6727		9.161 1872		0.838 8128	9.995 4855		753	
248	9.156 7250	523	9.161 2406	534	0.838 7594	9.995 4844	11	752	
249	9.156 7773	523	9.161 2940	534	0.838 7060	9.995 4833	11	751	
		523		533			11		
.250	9.156 8296		9.161 3473		0.838 6527	9.995 4822		**.750**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	537	536	535
1	53·7	53·6	53·5
2	107.4	107.2	107.0
3	161.1	160.8	160.5
4	214.8	214.4	214.0
5	268.5	268.0	267.5
6	322.2	321.6	321.0
7	375·9	375.2	374.5
8	429.6	428.8	428.0
9	483.3	482.4	481.5

	534	533	526
1	53·4	53·3	52.6
2	106.8	106.6	105.2
3	160.2	159.9	157.8
4	213.6	213.2	210.4
5	267.0	266.5	263.0
6	320.4	319.8	315.6
7	373.8	373.1	368.2
8	427.2	426.4	420.8
9	480.6	479.7	473·4

	525	524	523
1	52.5	52.4	52.3
2	105.0	104.8	104.6
3	157.5	157.2	156.9
4	210.0	209.6	209.2
5	262.5	262.0	261.5
6	315.0	314.4	313.8
7	367.5	366.8	366.1
8	420.0	419.2	418.4
9	472.5	471.6	470.7

	11	10
1	1.1	1.0
2	2.2	2.0
3	3.3	3.0
4	4.4	4.0
5	5.5	5.0
6	6.6	6.0
7	7·7	7.0
8	8.8	8.0
9	9.9	9.0

$81^\circ.800 - 81^\circ.750$

$8^\circ.250 - 8^\circ.300$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.156 8296		9.161 3473		0.838 6527	9.995 4822		**.750**	
		522		534			11		
251	9.156 8818		9.161 4007		0.838 5993	9.995 4811		749	
252	9.156 9341	523	9.161 4541	534	0.838 5459	9.995 4800	11	748	
253	9.156 9864	523	9.161 5074	533	0.838 4926	9.995 4789	11	747	
		522		534			11		
254	9.157 0386		9.161 5608		0.838 4392	9.995 4778		746	
255	9.157 0909	523	9.161 6141	533	0.838 3859	9.995 4767	11	745	
256	9.157 1431	522	9.161 6675	534	0.838 3325	9.995 4756	11	744	
		523		533			11		
257	9.157 1954		9.161 7208		0.838 2792	9.995 4745		743	
258	9.157 2476	522	9.161 7741	533	0.838 2259	9.995 4734	11	742	
259	9.157 2998	522	9.161 8275	534	0.838 1725	9.995 4723	11	741	
		522		533			11		
.260	9.157 3520		9.161 8808		0.838 1192	9.995 4712		**.740**	
		522		533			11		
261	9.157 4042		9.161 9341		0.838 0659	9.995 4701		739	
262	9.157 4564	522	9.161 9874	533	0.838 0126	9.995 4690	11	738	
263	9.157 5086	522	9.162 0407	533	0.837 9593	9.995 4679	11	737	
		522		533			11		
264	9.157 5608		9.162 0940		0.837 9060	9.995 4668		736	
265	9.157 6130	522	9.162 1473	533	0.837 8527	9.995 4657	11	735	
266	9.157 6652	522	9.162 2006	533	0.837 7994	9.995 4646	11	734	
		522		532			11		
267	9.157 7174		9.162 2538		0.837 7462	9.995 4635		733	
268	9.157 7695	521	9.162 3071	533	0.837 6929	9.995 4624	11	732	
269	9.157 8217	522	9.162 3604	533	0.837 6396	9.995 4613	11	731	
		521		532			11		
.270	9.157 8738		9.162 4136		0.837 5864	9.995 4602		**.730**	
		522		533			11		
271	9.157 9260		9.162 4669		0.837 5331	9.995 4591		729	
272	9.157 9781	521	9.162 5201	532	0.837 4799	9.995 4580	11	728	
273	9.158 0303	522	9.162 5733	532	0.837 4267	9.995 4569	11	727	
		521		533			11		
274	9.158 0824		9.162 6266		0.837 3734	9.995 4558		726	
275	9.158 1345	521	9.162 6798	532	0.837 3202	9.995 4547	11	725	
276	9.158 1866	521	9.162 7330	532	0.837 2670	9.995 4536	11	724	
		521		532			11		
277	9.158 2387		9.162 7862		0.837 2138	9.995 4525		723	
278	9.158 2908	521	9.162 8394	532	0.837 1606	9.995 4514	11	722	
279	9.158 3429	521	9.162 8926	532	0.837 1074	9.995 4503	11	721	
		521		532			11		
.280	9.158 3950		9.162 9458		0.837 0542	9.995 4492		**.720**	
		521		532			11		
281	9.158 4471		9.162 9990		0.837 0010	9.995 4481		719	
282	9.158 4992	521	9.163 0522	532	0.836 9478	9.995 4470	11	718	
283	9.158 5512	520	9.163 1053	531	0.836 8947	9.995 4459	11	717	
		521		532			11		
284	9.158 6033		9.163 1585		0.836 8415	9.995 4448		716	
285	9.158 6554	521	9.163 2117	532	0.836 7883	9.995 4437	11	715	
286	9.158 7074	520	9.163 2648	531	0.836 7352	9.995 4426	11	714	
		521		532			11		
287	9.158 7595		9.163 3180		0.836 6820	9.995 4415		713	
288	9.158 8115	520	9.163 3711	531	0.836 6289	9.995 4404	11	712	
289	9.158 8635	520	9.163 4242	531	0.836 5758	9.995 4393	11	711	
		520		532			11		
.290	9.158 9155		9.163 4774		0.836 5226	9.995 4382		**.710**	
		521		531			11		
291	9.158 9676		9.163 5305		0.836 4695	9.995 4371		709	
292	9.159 0196	520	9.163 5836	531	0.836 4164	9.995 4360	11	708	
293	9.159 0716	520	9.163 6367	531	0.836 3633	9.995 4349	11	707	
		520		531			12		
294	9.159 1236		9.163 6898		0.836 3102	9.995 4337		706	
295	9.159 1756	520	9.163 7429	531	0.836 2571	9.995 4326	11	705	
296	9.159 2276	520	9.163 7960	531	0.836 2040	9.995 4315	11	704	
		519		531			11		
297	9.159 2795		9.163 8491		0.836 1509	9.995 4304		703	
298	9.159 3315	520	9.163 9022	531	0.836 0978	9.995 4293	11	702	
299	9.159 3835	520	9.163 9553	531	0.836 0447	9.995 4282	11	701	
		519		530			11		
.300	9.159 4354		9.164 0083		0.835 9917	9.995 4271		**.700**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	534	533	532
1	53.4	53.3	53.2
2	106.8	106.6	106.4
3	160.2	159.9	159.6
4	213.6	213.2	212.8
5	267.0	266.5	266.0
6	320.4	319.8	319.2
7	373.8	373.1	372.4
8	427.2	426.4	425.6
9	480.6	479.7	478.8

	531	530	523
1	53.1	53.0	52.3
2	106.2	106.0	104.6
3	159.3	159.0	156.9
4	212.4	212.0	209.2
5	265.5	265.0	261.5
6	318.6	318.0	313.8
7	371.7	371.0	366.1
8	424.8	424.0	418.4
9	477.9	477.0	470.7

	522	521	520
1	52.2	52.1	52.0
2	104.4	104.2	104.0
3	156.6	156.3	156.0
4	208.8	208.4	208.0
5	261.0	260.5	260.0
6	313.2	312.6	312.0
7	365.4	364.7	364.0
8	417.6	416.8	416.0
9	469.8	468.9	468.0

	519	12	11
1	51.9	1.2	1.1
2	103.8	2.4	2.2
3	155.7	3.6	3.3
4	207.6	4.8	4.4
5	259.5	6.0	5.5
6	311.4	7.2	6.6
7	363.3	8.4	7.7
8	415.2	9.6	8.8
9	467.1	10.8	9.9

$81^\circ.750 - 81^\circ.700$

$8^\circ.300 - 8^\circ.350$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.159 4354		9.164 0083		0.835 9917	9.995 4271		**.700**	
		520		531			11		
301	9.159 4874		9.164 0614		0.835 9386	9.995 4260		699	
302	9.159 5393	519	9.164 1144	530	0.835 8856	9.995 4249	11	698	
303	9.159 5913	520	9.164 1675	531	0.835 8325	9.995 4238	11	697	
		519		530			11		531 530 529
304	9.159 6432		9.164 2205		0.835 7795	9.995 4227		696	
305	9.159 6952	520	9.164 2736	531	0.835 7264	9.995 4216	11	695	1 53.1 53.0 52.9
306	9.159 7471	519	9.164 3266	530	0.835 6734	9.995 4205	11	694	2 106.2 106.0 105.8
		519		530			11		3 159.3 159.0 158.7
307	9.159 7990		9.164 3796		0.835 6204	9.995 4194		693	4 212.4 212.0 211.6
308	9.159 8509	519	9.164 4326	530	0.835 5674	9.995 4183	11	692	5 265.5 265.0 264.5
309	9.159 9028	519	9.164 4857	531	0.835 5143	9.995 4172	11	691	6 318.6 318.0 317.4
		519		530			11		7 371.7 371.0 370.3
.310	9.159 9547		9.164 5387		0.835 4613	9.995 4161		**.690**	8 424.8 424.0 423.2
		519		530			12		9 477.9 477.0 476.1
311	9.160 0066		9.164 5917		0.835 4083	9.995 4149		689	
312	9.160 0585	519	9.164 6446	529	0.835 3554	9.995 4138	11	688	
313	9.160 1104	519	9.164 6976	530	0.835 3024	9.995 4127	11	687	
		518		530			11		
314	9.160 1622		9.164 7506		0.835 2494	9.995 4116		686	
315	9.160 2141	519	9.164 8036	530	0.835 1964	9.995 4105	11	685	528 527 520
316	9.160 2660	519	9.164 8566	530	0.835 1434	9.995 4094	11	684	
		518		529			11		1 52.8 52.7 52.0
317	9.160 3178		9.164 9095		0.835 0905	9.995 4083		683	2 105.6 105.4 104.0
318	9.160 3697	519	9.164 9625	530	0.835 0375	9.995 4072	11	682	3 158.4 158.1 156.0
319	9.160 4215	518	9.165 0154	529	0.834 9846	9.995 4061	11	681	4 211.2 210.8 208.0
		518		530			11		5 264.0 263.5 260.0
.320	9.160 4733		9.165 0684		0.834 9316	9.995 4050		**.680**	6 316.8 316.2 312.0
		519		529			11		7 369.6 368.9 364.0
321	9.160 5252		9.165 1213		0.834 8787	9.995 4039		679	8 422.4 421.6 416.0
322	9.160 5770	518	9.165 1742	529	0.834 8258	9.995 4028	11	678	9 475.2 474.3 468.0
323	9.160 6288	518	9.165 2272	530	0.834 7728	9.995 4016	12	677	
		518		529			11		
324	9.160 6806		9.165 2801		0.834 7199	9.995 4005		676	
325	9.160 7324	518	9.165 3330	529	0.834 6670	9.995 3994	11	675	519 518 517
326	9.160 7842	518	9.165 3859	529	0.834 6141	9.995 3983	11	674	
		518		529			11		
327	9.160 8360		9.165 4388		0.834 5612	9.995 3972		673	1 51.9 51.8 51.7
328	9.160 8878	518	9.165 4917	529	0.834 5083	9.995 3961	11	672	2 103.8 103.6 103.4
329	9.160 9396	518	9.165 5446	529	0.834 4554	9.995 3950	11	671	3 155.7 155.4 155.1
		517		529			11		4 207.6 207.2 206.8
.330	9.160 9913		9.165 5975		0.834 4025	9.995 3939		**.670**	5 259.5 259.0 258.5
		518		528			11		6 311.4 310.8 310.2
331	9.161 0431		9.165 6503		0.834 3497	9.995 3928		669	7 363.3 362.6 361.9
332	9.161 0949	518	9.165 7032	529	0.834 2968	9.995 3917	11	668	8 415.2 414.4 413.6
333	9.161 1466	517	9.165 7561	529	0.834 2439	9.995 3906	11	667	9 467.1 466.2 465.3
		518		528			12		
334	9.161 1984		9.165 8089		0.834 1911	9.995 3894		666	
335	9.161 2501	517	9.165 8618	529	0.834 1382	9.995 3883	11	665	516 12 11
336	9.161 3018	517	9.165 9146	528	0.834 0854	9.995 3872	11	664	
		518		529			11		
337	9.161 3536		9.165 9675		0.834 0325	9.995 3861		663	1 51.6 1.2 1.1
338	9.161 4053	517	9.166 0203	528	0.833 9797	9.995 3850	11	662	2 103.2 2.4 2.2
339	9.161 4570	517	9.166 0731	528	0.833 9269	9.995 3839	11	661	3 154.8 3.6 3.3
		517		528			11		4 206.4 4.8 4.4
.340	9.161 5087		9.166 1259		0.833 8741	9.995 3828		**.660**	5 258.0 6.0 5.5
		517		528			11		6 309.6 7.2 6.6
341	9.161 5604		9.166 1787		0.833 8213	9.995 3817		659	7 361.2 8.4 7.7
342	9.161 6121	517	9.166 2315	528	0.833 7685	9.995 3806	11	658	8 412.8 9.6 8.8
343	9.161 6638	517	9.166 2844	529	0.833 7156	9.995 3794	12	657	9 464.4 10.8 9.9
		517		527			11		
344	9.161 7155		9.166 3371		0.833 6629	9.995 3783		656	
345	9.161 7672	517	9.166 3899	528	0.833 6101	9.995 3772	11	655	
346	9.161 8188	516	9.166 4427	528	0.833 5573	9.995 3761	11	654	
		517		528			11		
347	9.161 8705		9.166 4955		0.833 5045	9.995 3750		653	
348	9.161 9221	516	9.166 5483	528	0.833 4517	9.995 3739	11	652	
349	9.161 9738	517	9.166 6010	527	0.833 3990	9.995 3728	11	651	
		516		528			11		
.350	9.162 0254		9.166 6538		0.833 3462	9.995 3717		**.650**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

$81^\circ.700 - 81^\circ.650$

$8^\circ.350 - 8^\circ.400$

8°	sin	d	tang	d	cotg	cos	d	
.350	9.162 0254		9.166 6538		0.833 3462	9.995 3717		**.650**
		517		527			12	
351	9.162 0771		9.166 7065		0.833 2935	9.995 3705		649
352	9.162 1287	516	9.166 7593	528	0.833 2407	9.995 3694	11	648
353	9.162 1803	516	9.166 8120	527	0.833 1880	9.995 3683	11	647
		517		528			11	
354	9.162 2320		9.166 8648		0.833 1352	9.995 3672		646
355	9.162 2836	516	9.166 9175	527	0.833 0825	9.995 3661	11	645
356	9.162 3352	516	9.166 9702	527	0.833 0298	9.995 3650	11	644
		516		527			11	
357	9.162 3868		9.167 0229		0.832 9771	9.995 3639		643
358	9.162 4384	516	9.167 0756	527	0.832 9244	9.995 3628	11	642
359	9.162 4900	516	9.167 1283	527	0.832 8717	9.995 3616	12	641
		516		527			11	
.360	9.162 5416		9.167 1810		0.832 8190	9.995 3605		**.640**
		515		527			11	
361	9.162 5931		9.167 2337		0.832 7663	9.995 3594		639
362	9.162 6447	516	9.167 2864	527	0.832 7136	9.995 3583	11	638
363	9.162 6963	516	9.167 3391	527	0.832 6609	9.995 3572	11	637
		515		527			11	
364	9.162 7478		9.167 3918		0.832 6082	9.995 3561		636
365	9.162 7994	516	9.167 4444	526	0.832 5556	9.995 3550	11	635
366	9.162 8509	515	9.167 4971	527	0.832 5029	9.995 3538	12	634
		516		526			11	
367	9.162 9025		9.167 5497		0.832 4503	9.995 3527		633
368	9.162 9540	515	9.167 6024	527	0.832 3976	9.995 3516	11	632
369	9.163 0055	515	9.167 6550	526	0.832 3450	9.995 3505	11	631
		515		527			11	
.370	9.163 0570		9.167 7077		0.832 2923	9.995 3494		**.630**
		516		526			11	
371	9.163 1086		9.167 7603		0.832 2397	9.995 3483		629
372	9.163 1601	515	9.167 8129	526	0.832 1871	9.995 3472	11	628
373	9.163 2116	515	9.167 8655	526	0.832 1345	9.995 3460	12	627
		515		526			11	
374	9.163 2631		9.167 9181		0.832 0819	9.995 3449		626
375	9.163 3146	515	9.167 9708	527	0.832 0292	9.995 3438	11	625
376	9.163 3660	514	9.168 0233	525	0.831 9767	9.995 3427	11	624
		515		526			11	
377	9.163 4175		9.168 0759		0.831 9241	9.995 3416		623
378	9.163 4690	515	9.168 1285	526	0.831 8715	9.995 3405	11	622
379	9.163 5204	514	9.168 1811	526	0.831 8189	9.995 3393	12	621
		515		526			11	
.380	9.163 5719		9.168 2337		0.831 7663	9.995 3382		**.620**
		515		526			11	
381	9.163 6234		9.168 2863		0.831 7137	9.995 3371		619
382	9.163 6748	514	9.168 3388	525	0.831 6612	9.995 3360	11	618
383	9.163 7262	514	9.168 3914	526	0.831 6086	9.995 3349	11	617
		515		525			11	
384	9.163 7777		9.168 4439		0.831 5561	9.995 3338		616
385	9.163 8291	514	9.168 4965	526	0.831 5035	9.995 3326	12	615
386	9.163 8805	514	9.168 5490	525	0.831 4510	9.995 3315	11	614
		514		525			11	
387	9.163 9319		9.168 6015		0.831 3985	9.995 3304		613
388	9.163 9833	514	9.168 6541	526	0.831 3459	9.995 3293	11	612
389	9.164 0348	515	9.168 7066	525	0.831 2934	9.995 3282	11	611
		513		525			12	
.390	9.164 0861		9.168 7591		0.831 2409	9.995 3270		**.610**
		514		525			11	
391	9.164 1375		9.168 8116		0.831 1884	9.995 3259		609
392	9.164 1889	514	9.168 8641	525	0.831 1359	9.995 3248	11	608
393	9.164 2403	514	9.168 9166	525	0.831 0834	9.995 3237	11	607
		514		525			11	
394	9.164 2917		9.168 9691		0.831 0309	9.995 3226		606
395	9.164 3430	513	9.169 0216	525	0.830 9784	9.995 3215	11	605
396	9.164 3944	514	9.169 0741	525	0.830 9259	9.995 3203	12	604
		513		524			11	
397	9.164 4457		9.169 1265		0.830 8735	9.995 3192		603
398	9.164 4971	514	9.169 1790	525	0.830 8210	9.995 3181	11	602
399	9.164 5484	513	9.169 2314	524	0.830 7686	9.995 3170	11	601
		514		525			11	
.400	9.164 5998		9.169 2839		0.830 7161	9.995 3159		**.600**
	cos	d	cotg	d	tang	sin	d	81°

P.P.

	528	527	526
1	52.8	52.7	52.6
2	105.6	105.4	105.2
3	158.4	158.1	157.8
4	211.2	210.8	210.4
5	264.0	263.5	263.0
6	316.8	316.2	315.6
7	369.6	368.9	368.2
8	422.4	421.6	420.8
9	475.2	474.3	473.4

	525	524	517
1	52.5	52.4	51.7
2	105.0	104.8	103.4
3	157.5	157.2	155.1
4	210.0	209.6	206.8
5	262.5	262.0	258.5
6	315.0	314.4	310.2
7	367.5	366.8	361.9
8	420.0	419.2	413.6
9	472.5	471.6	465.3

	516	515	514
1	51.6	51.5	51.4
2	103.2	103.0	102.8
3	154.8	154.5	154.2
4	206.4	206.0	205.6
5	258.0	257.5	257.0
6	309.6	309.0	308.4
7	361.2	360.5	359.8
8	412.8	412.0	411.2
9	464.4	463.5	462.6

	513	12	11
1	51.3	1.2	1.1
2	102.6	2.4	2.2
3	153.9	3.6	3.3
4	205.2	4.8	4.4
5	256.5	6.0	5.5
6	307.8	7.2	6.6
7	359.1	8.4	7.7
8	410.4	9.6	8.8
9	461.7	10.8	9.9

$81^\circ.650 - 81^\circ.600$

$8^\circ.400 - 8^\circ.450$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.164 5998		9.169 2839		0.830 7161	9.995 3159		**.600**	
		513		524			12		
401	9.164 6511		9.169 3363		0.830 6637	9.995 3147		599	
402	9.164 7024	513	9.169 3888	525	0.830 6112	9.995 3136	11	598	
403	9.164 7537	513	9.169 4412	524	0.830 5588	9.995 3125	11	597	
		513		525			11		
404	9.164 8050		9.169 4937		0.830 5063	9.995 3114		596	
405	9.164 8563	513	9.169 5461	524	0.830 4539	9.995 3103	11	595	
406	9.164 9076	513	9.169 5985	524	0.830 4015	9.995 3091	12	594	
		513		524			11		
407	9.164 9589		9.169 6509		0.830 3491	9.995 3080		593	
408	9.165 0102	513	9.169 7033	524	0.830 2967	9.995 3069	11	592	
409	9.165 0615	513	9.169 7557	524	0.830 2443	9.995 3058	11	591	
		513		524			11		
.410	9.165 1128		9.169 8081		0.830 1919	9.995 3047		**.590**	
		512		524			12		
411	9.165 1640		9.169 8605		0.830 1395	9.995 3035		589	
412	9.165 2153	513	9.169 9129	524	0.830 0871	9.995 3024	11	588	
413	9.165 2665	512	9.169 9652	523	0.830 0348	9.995 3013	11	587	
		513		524			11		
414	9.165 3178		9.170 0176		0.829 9824	9.995 3002		586	
415	9.165 3690	512	9.170 0700	524	0.829 9300	9.995 2991	11	585	
416	9.165 4203	513	9.170 1223	523	0.829 8777	9.995 2979	12	584	
		512		524			11		
417	9.165 4715		9.170 1747		0.829 8253	9.995 2968		583	
418	9.165 5227	512	9.170 2270	523	0.829 7730	9.995 2957	11	582	
419	9.165 5739	512	9.170 2794	524	0.829 7206	9.995 2946	11	581	
		512		523			11		
.420	9.165 6251		9.170 3317		0.829 6683	9.995 2935		**.580**	
		512		523			12		
421	9.165 6763		9.170 3840		0.829 6160	9.995 2923		579	
422	9.165 7275	512	9.170 4363	523	0.829 5637	9.995 2912	11	578	
423	9.165 7787	512	9.170 4887	524	0.829 5113	9.995 2901	11	577	
		512		523			11		
424	9.165 8299		9.170 5410		0.829 4590	9.995 2890		576	
425	9.165 8811	512	9.170 5933	523	0.829 4067	9.995 2878	12	575	
426	9.165 9323	512	9.170 6456	523	0.829 3544	9.995 2867	11	574	
		511		522			11		
427	9.165 9834		9.170 6978		0.829 3022	9.995 2856		573	
428	9.166 0346	512	9.170 7501	523	0.829 2499	9.995 2845	11	572	
429	9.166 0858	512	9.170 8024	523	0.829 1976	9.995 2833	12	571	
		511		523			11		
.430	9.166 1369		9.170 8547		0.829 1453	9.995 2822		**.570**	
		511		522			11		
431	9.166 1880		9.170 9069		0.829 0931	9.995 2811		569	
432	9.166 2392	512	9.170 9592	523	0.829 0408	9.995 2800	11	568	
433	9.166 2903	511	9.171 0115	523	0.828 9885	9.995 2789	11	567	
		511		522			12		
434	9.166 3414		9.171 0637		0.828 9363	9.995 2777		566	
435	9.166 3926	512	9.171 1159	522	0.828 8841	9.995 2766	11	565	
436	9.166 4437	511	9.171 1682	523	0.828 8318	9.995 2755	11	564	
		511		522			11		
437	9.166 4948		9.171 2204		0.828 7796	9.995 2744		563	
438	9.166 5459	511	9.171 2726	522	0.828 7274	9.995 2732	12	562	
439	9.166 5970	511	9.171 3249	523	0.828 6751	9.995 2721	11	561	
		511		522			11		
.440	9.166 6481		9.171 3771		0.828 6229	9.995 2710		**.560**	
		510		522			11		
441	9.166 6991		9.171 4293		0.828 5707	9.995 2699		559	
442	9.166 7502	511	9.171 4815	522	0.828 5185	9.995 2687	12	558	
443	9.166 8013	511	9.171 5337	522	0.828 4663	9.995 2676	11	557	
		510		522			11		
444	9.166 8523		9.171 5859		0.828 4141	9.995 2665		556	
445	9.166 9034	511	9.171 6380	521	0.828 3620	9.995 2654	11	555	
446	9.166 9544	510	9.171 6902	522	0.828 3098	9.995 2642	12	554	
		511		522			11		
447	9.167 0055		9.171 7424		0.828 2576	9.995 2631		553	
448	9.167 0565	510	9.171 7945	521	0.828 2055	9.995 2620	11	552	
449	9.167 1076	511	9.171 8467	522	0.828 1533	9.995 2609	11	551	
		510		522			12		
.450	9.167 1586		9.171 8989		0.828 1011	9.995 2597		**.550**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	525	524	523
1	52.5	52.4	52.3
2	105.0	104.8	104.6
3	157.5	157.2	156.9
4	210.0	209.6	209.2
5	262.5	262.0	261.5
6	315.0	314.4	313.8
7	367.5	366.8	366.1
8	420.0	419.2	418.4
9	472.5	471.6	470.7

	522	521	513
1	52.2	52.1	51.3
2	104.4	104.2	102.6
3	156.6	156.3	153.9
4	208.8	208.4	205.2
5	261.0	260.5	256.5
6	313.2	312.6	307.8
7	365.4	364.7	359.1
8	417.6	416.8	410.4
9	469.8	468.9	461.7

	512	511	510
1	51.2	51.1	51.0
2	102.4	102.2	102.0
3	153.6	153.3	153.0
4	204.8	204.4	204.0
5	256.0	255.5	255.0
6	307.2	306.6	306.0
7	358.4	357.7	357.0
8	409.6	408.8	408.0
9	460.8	459.9	459.0

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.600 - 81^\circ.550$

$8^\circ.450 - 8^\circ.500$

8°	sin	d	tang	d	cotg	cos	d	
.450	9.167 1586		9.171 8989		0.828 1011	9.995 2597		**.550**
		510		521			11	
451	9.167 2096		9.171 9510		0.828 0490	9.995 2586		549
452	9.167 2606	510	9.172 0031	521	0.827 9969	9.995 2575	11	548
453	9.167 3116	510	9.172 0553	522	0.827 9447	9.995 2564	11	547
		510		521			12	
454	9.167 3626		9.172 1074		0.827 8926	9.995 2552		546
455	9.167 4136	510	9.172 1595	521	0.827 8405	9.995 2541	11	545
456	9.167 4646	510	9.172 2116	521	0.827 7884	9.995 2530	11	544
		510		521			12	
457	9.167 5156		9.172 2637		0.827 7363	9.995 2518		543
458	9.167 5666	510	9.172 3159	522	0.827 6841	9.995 2507	11	542
459	9.167 6175	509	9.172 3680	521	0.827 6320	9.995 2496	11	541
		510		520			11	
.460	9.167 6685		9.172 4200		0.827 5800	9.995 2485		**.540**
		510		521			12	
461	9.167 7195		9.172 4721		0.827 5279	9.995 2473		539
462	9.167 7704	509	9.172 5242	521	0.827 4758	9.995 2462	11	538
463	9.167 8214	510	9.172 5763	521	0.827 4237	9.995 2451	11	537
		509		520			11	
464	9.167 8723		9.172 6283		0.827 3717	9.995 2440		536
465	9.167 9232	509	9.172 6804	521	0.827 3196	9.995 2428	12	535
466	9.167 9742	510	9.172 7325	521	0.827 2675	9.995 2417	11	534
		509		520			11	
467	9.168 0251		9.172 7845		0.827 2155	9.995 2406		533
468	9.168 0760	509	9.172 8366	521	0.827 1634	9.995 2394	12	532
469	9.168 1269	509	9.172 8886	520	0.827 1114	9.995 2383	11	531
		509		520			11	
.470	9.168 1778		9.172 9406		0.827 0594	9.995 2372		**.530**
		509		521			11	
471	9.168 2287		9.172 9927		0.827 0073	9.995 2361		529
472	9.168 2796	509	9.173 0447	520	0.826 9553	9.995 2349	12	528
473	9.168 3305	509	9.173 0967	520	0.826 9033	9.995 2338	11	527
		509		520			11	
474	9.168 3814		9.173 1487		0.826 8513	9.995 2327		526
475	9.168 4322	508	9.173 2007	520	0.826 7993	9.995 2315	12	525
476	9.168 4831	509	9.173 2527	520	0.826 7473	9.995 2304	11	524
		509		520			11	
477	9.168 5340		9.173 3047		0.826 6953	9.995 2293		523
478	9.168 5848	508	9.173 3567	520	0.826 6433	9.995 2281	12	522
479	9.168 6357	509	9.173 4087	520	0.826 5913	9.995 2270	11	521
		508		519			11	
.480	9.168 6865		9.173 4606		0.826 5394	9.995 2259		**.520**
		508		520			11	
481	9.168 7373		9.173 5126		0.826 4874	9.995 2248		519
482	9.168 7882	509	9.173 5646	520	0.826 4354	9.995 2236	12	518
483	9.168 8390	508	9.173 6165	519	0.826 3835	9.995 2225	11	517
		508		520			11	
484	9.168 8898		9.173 6685		0.826 3315	9.995 2214		516
485	9.168 9406	508	9.173 7204	519	0.826 2796	9.995 2202	12	515
486	9.168 9914	508	9.173 7723	519	0.826 2277	9.995 2191	11	514
		508		520			11	
487	9.169 0422		9.173 8243		0.826 1757	9.995 2180		513
488	9.169 0930	508	9.173 8762	519	0.826 1238	9.995 2168	12	512
489	9.169 1438	508	9.173 9281	519	0.826 0719	9.995 2157	11	511
		508		519			11	
.490	9.169 1946		9.173 9800		0.826 0200	9.995 2146		**.510**
		508		519			12	
491	9.169 2454		9.174 0319		0.825 9681	9.995 2134		509
492	9.169 2961	507	9.174 0838	519	0.825 9162	9.995 2123	11	508
493	9.169 3469	508	9.174 1357	519	0.825 8643	9.995 2112	11	507
		508		519			11	
494	9.169 3977		9.174 1876		0.825 8124	9.995 2101		506
495	9.169 4484	507	9.174 2395	519	0.825 7605	9.995 2089	12	505
496	9.169 4992	508	9.174 2914	519	0.825 7086	9.995 2078	11	504
		507		518			11	
497	9.169 5499		9.174 3432		0.825 6568	9.995 2067		503
498	9.169 6006	507	9.174 3951	519	0.825 6049	9.995 2055	12	502
499	9.169 6514	508	9.174 4470	519	0.825 5530	9.995 2044	11	501
		507		518			11	
.500	9.169 7021		9.174 4988		0.825 5012	9.995 2033		**.500**
	cos	d	cotg	d	tang	sin	d	81°

P.P.

	522	521	520
1	52.2	52.1	52.0
2	104.4	104.2	104.0
3	156.6	156.3	156.0
4	208.8	208.4	208.0
5	261.0	260.5	260.0
6	313.2	312.6	312.0
7	365.4	364.7	364.0
8	417.6	416.8	416.0
9	469.8	468.9	468.0

	519	518	510
1	51.9	51.8	51.0
2	103.8	103.6	102.0
3	155.7	155.4	153.0
4	207.6	207.2	204.0
5	259.5	259.0	255.0
6	311.4	310.8	306.0
7	363.3	362.6	357.0
8	415.2	414.4	408.0
9	467.1	466.2	459.0

	509	508	507
1	50.9	50.8	50.7
2	101.8	101.6	101.4
3	152.7	152.4	152.1
4	203.6	203.2	202.8
5	254.5	254.0	253.5
6	305.4	304.8	304.2
7	356.3	355.6	354.9
8	407.2	406.4	405.6
9	458.1	457.2	456.3

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.550 - 81^\circ.500$

$8^\circ.500 - 8^\circ.550$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.169 7021		9.174 4988		0.825 5012	9.995 2033		**.500**	
		507		519			12		
501	9.169 7528		9.174 5507		0.825 4493	9.995 2021		499	
502	9.169 8035	507	9.174 6025	518	0.825 3975	9.995 2010	11	498	
503	9.169 8542	507	9.174 6544	519	0.825 3456	9.995 1999	11	497	
		507		518			12		
504	9.169 9049		9.174 7062		0.825 2938	9.995 1987		496	
505	9.169 9556	507	9.174 7580	518	0.825 2420	9.995 1976	11	495	
506	9.170 0063	507	9.174 8098	518	0.825 1902	9.995 1965	11	494	
		507		518			12		
507	9.170 0570		9.174 8616		0.825 1384	9.995 1953		493	
508	9.170 1076	506	9.174 9134	518	0.825 0866	9.995 1942	11	492	
509	9.170 1583	507	9.174 9652	518	0.825 0348	9.995 1931	11	491	
		507		518			12		
.510	9.170 2090		9.175 0170		0.824 9830	9.995 1919		**.490**	
		506		518			11		
511	9.170 2596		9.175 0688		0.824 9312	9.995 1908		489	
512	9.170 3103	507	9.175 1206	518	0.824 8794	9.995 1897	11	488	
513	9.170 3609	506	9.175 1724	518	0.824 8276	9.995 1885	12	487	
		506		518			11		
514	9.170 4115		9.175 2242		0.824 7758	9.995 1874		486	
515	9.170 4622	507	9.175 2759	517	0.824 7241	9.995 1863	11	485	
516	9.170 5128	506	9.175 3277	518	0.824 6723	9.995 1851	12	484	
		506		517			11		
517	9.170 5634		9.175 3794		0.824 6206	9.995 1840		483	
518	9.170 6140	506	9.175 4312	518	0.824 5688	9.995 1828	12	482	
519	9.170 6646	506	9.175 4829	517	0.824 5171	9.995 1817	11	481	
		506		518			11		
.520	9.170 7152		9.175 5347		0.824 4653	9.995 1806		**.480**	
		506		517			12		
521	9.170 7658		9.175 5864		0.824 4136	9.995 1794		479	
522	9.170 8164	506	9.175 6381	517	0.824 3619	9.995 1783	11	478	
523	9.170 8670	506	9.175 6898	517	0.824 3102	9.995 1772	11	477	
		506		517			12		
524	9.170 9176		9.175 7415		0.824 2585	9.995 1760		476	
525	9.170 9682	506	9.175 7933	518	0.824 2067	9.995 1749	11	475	
526	9.171 0187	505	9.175 8450	517	0.824 1550	9.995 1738	11	474	
		506		517			12		
527	9.171 0693		9.175 8967		0.824 1033	9.995 1726		473	
528	9.171 1198	505	9.175 9483	516	0.824 0517	9.995 1715	11	472	
529	9.171 1704	506	9.176 0000	517	0.824 0000	9.995 1703	12	471	
		505		517			11		
.530	9.171 2209		9.176 0517		0.823 9483	9.995 1692		**.470**	
		505		517			11		
531	9.171 2714		9.176 1034		0.823 8966	9.995 1681		469	
532	9.171 3220	506	9.176 1550	516	0.823 8450	9.995 1669	12	468	
533	9.171 3725	505	9.176 2067	517	0.823 7933	9.995 1658	11	467	
		505		516			11		
534	9.171 4230		9.176 2583		0.823 7417	9.995 1647		466	
535	9.171 4735	505	9.176 3100	517	0.823 6900	9.995 1635	12	465	
536	9.171 5240	505	9.176 3616	516	0.823 6384	9.995 1624	11	464	
		505		517			11		
537	9.171 5745		9.176 4133		0.823 5867	9.995 1613		463	
538	9.171 6250	505	9.176 4649	516	0.823 5351	9.995 1601	12	462	
539	9.171 6755	505	9.176 5165	516	0.823 4835	9.995 1590	11	461	
		505		516			12		
.540	9.171 7260		9.176 5681		0.823 4319	9.995 1578		**.460**	
		505		517			11		
541	9.171 7765		9.176 6198		0.823 3802	9.995 1567		459	
542	9.171 8269	504	9.176 6714	516	0.823 3286	9.995 1556	11	458	
543	9.171 8774	505	9.176 7230	516	0.823 2770	9.995 1544	12	457	
		504		516			11		
544	9.171 9278		9.176 7746		0.823 2254	9.995 1533		456	
545	9.171 9783	505	9.176 8261	515	0.823 1739	9.995 1521	12	455	
546	9.172 0287	504	9.176 8777	516	0.823 1223	9.995 1510	11	454	
		505		516			11		
547	9.172 0792		9.176 9293		0.823 0707	9.995 1499		453	
548	9.172 1296	504	9.176 9809	516	0.823 0191	9.995 1487	12	452	
549	9.172 1800	504	9.177 0324	515	0.822 9676	9.995 1476	11	451	
		505		516			12		
.550	9.172 2305		9.177 0840		0.822 9160	9.995 1464		**.450**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	519	518	517
1	51.9	51.8	51.7
2	103.8	103.6	103.4
3	155.7	155.4	155.1
4	207.6	207.2	206.8
5	259.5	259.0	258.5
6	311.4	310.8	310.2
7	363.3	362.6	361.9
8	415.2	414.4	413.6
9	467.1	466.2	465.3

	516	515	507
1	51.6	51.5	50.7
2	103.2	103.0	101.4
3	154.8	154.5	152.1
4	206.4	206.0	202.8
5	258.0	257.5	253.5
6	309.6	309.0	304.2
7	361.2	360.5	354.9
8	412.8	412.0	405.6
9	464.4	463.5	456.3

	506	505	504
1	50.6	50.5	50.4
2	101.2	101.0	100.8
3	151.8	151.5	151.2
4	202.4	202.0	201.6
5	253.0	252.5	252.0
6	303.6	303.0	302.4
7	354.2	353.5	352.8
8	404.8	404.0	403.2
9	455.4	454.5	453.6

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.500 - 81^\circ.450$

$8^\circ.550 - 8^\circ.600$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.172 2305		9.177 0840		0.822 9160	9.995 1464		**.450**	
		504		516			11		
551	9.172 2809		9.177 1356		0.822 8644	9.995 1453		449	
552	9.172 3313	504	9.177 1871	515	0.822 8129	9.995 1442	11	448	
553	9.172 3817	504	9.177 2386	515	0.822 7614	9.995 1430	12	447	
		504		516			11		
554	9.172 4321		9.177 2902		0.822 7098	9.995 1419		446	
555	9.172 4825	504	9.177 3417	515	0.822 6583	9.995 1407	12	445	
556	9.172 5328	503	9.177 3932	515	0.822 6068	9.995 1396	11	444	
		504		516			11		
557	9.172 5832		9.177 4448		0.822 5552	9.995 1385		443	
558	9.172 6336	504	9.177 4963	515	0.822 5037	9.995 1373	12	442	
559	9.172 6840	504	9.177 5478	515	0.822 4522	9.995 1362	11	441	
		503		515			12		
.560	9.172 7343		9.177 5993		0.822 4007	9.995 1350		**.440**	
		504		515			11		
561	9.172 7847		9.177 6508		0.822 3492	9.995 1339		439	
562	9.172 8350	503	9.177 7023	515	0.822 2977	9.995 1328	11	438	
563	9.172 8854	504	9.177 7537	514	0.822 2463	9.995 1316	12	437	
		503		515			11		
564	9.172 9357		9.177 8052		0.822 1948	9.995 1305		436	
565	9.172 9860	503	9.177 8567	515	0.822 1433	9.995 1293	12	435	
566	9.173 0364	504	9.177 9082	515	0.822 0918	9.995 1282	11	434	
		503		514			11		
567	9.173 0867		9.177 9596		0.822 0404	9.995 1271		433	
568	9.173 1370	503	9.178 0111	515	0.821 9889	9.995 1259	12	432	
569	9.173 1873	503	9.178 0625	514	0.821 9375	9.995 1248	11	431	
		503		515			12		
.570	9.173 2376		9.178 1140		0.821 8860	9.995 1236		**.430**	
		503		514			11		
571	9.173 2879		9.178 1654		0.821 8346	9.995 1225		429	
572	9.173 3382	503	9.178 2168	514	0.821 7832	9.995 1213	12	428	
573	9.173 3885	503	9.178 2683	515	0.821 7317	9.995 1202	11	427	
		502		514			11		
574	9.173 4387		9.178 3197		0.821 6803	9.995 1191		426	
575	9.173 4890	503	9.178 3711	514	0.821 6289	9.995 1179	12	425	
576	9.173 5393	503	9.178 4225	514	0.821 5775	9.995 1168	11	424	
		502		514			12		
577	9.173 5895		9.178 4739		0.821 5261	9.995 1156		423	
578	9.173 6398	503	9.178 5253	514	0.821 4747	9.995 1145	11	422	
579	9.173 6900	502	9.178 5767	514	0.821 4233	9.995 1133	12	421	
		503		514			11		
.580	9.173 7403		9.178 6281		0.821 3719	9.995 1122		**.420**	
		502		514			11		
581	9.173 7905		9.178 6795		0.821 3205	9.995 1111		419	
582	9.173 8407	502	9.178 7308	513	0.821 2692	9.995 1099	12	418	
583	9.173 8910	503	9.178 7822	514	0.821 2178	9.995 1088	11	417	
		502		514			12		
584	9.173 9412		9.178 8336		0.821 1664	9.995 1076		416	
585	9.173 9914	502	9.178 8849	513	0.821 1151	9.995 1065	11	415	
586	9.174 0416	502	9.178 9363	514	0.821 0637	9.995 1053	12	414	
		502		513			11		
587	9.174 0918		9.178 9876		0.821 0124	9.995 1042		413	
588	9.174 1420	502	9.179 0389	513	0.820 9611	9.995 1030	12	412	
589	9.174 1922	502	9.179 0903	514	0.820 9097	9.995 1019	11	411	
		502		513			11		
.590	9.174 2424		9.179 1416		0.820 8584	9.995 1008		**.410**	
		501		513			12		
591	9.174 2925		9.179 1929		0.820 8071	9.995 0996		409	
592	9.174 3427	502	9.179 2442	513	0.820 7558	9.995 0985	11	408	
593	9.174 3929	502	9.179 2956	514	0.820 7044	9.995 0973	12	407	
		501		513			11		
594	9.174 4430		9.179 3469		0.820 6531	9.995 0962		406	
595	9.174 4932	502	9.179 3982	513	0.820 6018	9.995 0950	12	405	
596	9.174 5433	501	9.179 4494	512	0.820 5506	9.995 0939	11	404	
		502		513			12		
597	9.174 5935		9.179 5007		0.820 4993	9.995 0927		403	
598	9.174 6436	501	9.179 5520	513	0.820 4480	9.995 0916	11	402	
599	9.174 6937	501	9.179 6033	513	0.820 3967	9.995 0904	12	401	
		502		513			11		
.600	9.174 7439		9.179 6546		0.820 3454	9.995 0893		**.400**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	516	515	514
1	51.6	51.5	51.4
2	103.2	103.0	102.8
3	154.8	154.5	154.2
4	206.4	206.0	205.6
5	258.0	257.5	257.0
6	309.6	309.0	308.4
7	361.2	360.5	359.8
8	412.8	412.0	411.2
9	464.4	463.5	462.6

	513	512	504
1	51.3	51.2	50.4
2	102.6	102.4	100.8
3	153.9	153.6	151.2
4	205.2	204.8	201.6
5	256.5	256.0	252.0
6	307.8	307.2	302.4
7	359.1	358.4	352.8
8	410.4	409.6	403.2
9	461.7	460.8	453.6

	503	502	501
1	50.3	50.2	50.1
2	100.6	100.4	100.2
3	150.9	150.6	150.3
4	201.2	200.8	200.4
5	251.5	251.0	250.5
6	301.8	301.2	300.6
7	352.1	351.4	350.7
8	402.4	401.6	400.8
9	452.7	451.8	450.9

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.450 - 81^\circ.400$

$8^\circ.600 - 8^\circ.650$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.174 7439		9.179 6546		0.820 3454	9.995 0893		**.400**	
		501		512			11		
601	9.174 7940		9.179 7058		0.820 2942	9.995 0882		399	
602	9.174 8441	501	9.179 7571	513	0.820 2429	9.995 0870	12	398	
603	9.174 8942	501	9.179 8083	512	0.820 1917	9.995 0859	11	397	
		501		513			12		
604	9.174 9443		9.179 8596		0.820 1404	9.995 0847		396	
605	9.174 9944	501	9.179 9108	512	0.820 0892	9.995 0836	11	395	
606	9.175 0445	501	9.179 9620	512	0.820 0380	9.995 0824	12	394	
		500		513			11		
607	9.175 0945		9.180 0133		0.819 9867	9.995 0813		393	
608	9.175 1446	501	9.180 0645	512	0.819 9355	9.995 0801	12	392	
609	9.175 1947	501	9.180 1157	512	0.819 8843	9.995 0790	11	391	
		501		512			12		
.610	9.175 2448		9.180 1669		0.819 8331	9.995 0778		**.390**	
		500		512			11		
611	9.175 2948		9.180 2181		0.819 7819	9.995 0767		389	
612	9.175 3449	501	9.180 2693	512	0.819 7307	9.995 0755	12	388	
613	9.175 3949	500	9.180 3205	512	0.819 6795	9.995 0744	11	387	
		500		512			12		
614	9.175 4449		9.180 3717		0.819 6283	9.995 0732		386	
615	9.175 4950	501	9.180 4229	512	0.819 5771	9.995 0721	11	385	
616	9.175 5450	500	9.180 4741	512	0.819 5259	9.995 0709	12	384	
		500		511			11		
617	9.175 5950		9.180 5252		0.819 4748	9.995 0698		383	
618	9.175 6450	500	9.180 5764	512	0.819 4236	9.995 0686	12	382	
619	9.175 6951	501	9.180 6276	512	0.819 3724	9.995 0675	11	381	
		500		511			12		
.620	9.175 7451		9.180 6787		0.819 3213	9.995 0663		**.380**	
		500		512			11		
621	9.175 7951		9.180 7299		0.819 2701	9.995 0652		379	
622	9.175 8451	500	9.180 7810	511	0.819 2190	9.995 0640	12	378	
623	9.175 8950	499	9.180 8321	511	0.819 1679	9.995 0629	11	377	
		500		512			12		
624	9.175 9450		9.180 8833		0.819 1167	9.995 0617		376	
625	9.175 9950	500	9.180 9344	511	0.819 0656	9.995 0606	11	375	
626	9.176 0450	500	9.180 9855	511	0.819 0145	9.995 0594	12	374	
		499		511			11		
627	9.176 0949		9.181 0366		0.818 9634	9.995 0583		373	
628	9.176 1449	500	9.181 0877	511	0.818 9123	9.995 0571	12	372	
629	9.176 1948	499	9.181 1388	511	0.818 8612	9.995 0560	11	371	
		500		511			12		
.630	9.176 2448		9.181 1899		0.818 8101	9.995 0548		**.370**	
		499		511			11		
631	9.176 2947		9.181 2410		0.818 7590	9.995 0537		369	
632	9.176 3447	500	9.181 2921	511	0.818 7079	9.995 0525	12	368	
633	9.176 3946	499	9.181 3432	511	0.818 6568	9.995 0514	11	367	
		499		511			12		
634	9.176 4445		9.181 3943		0.818 6057	9.995 0502		366	
635	9.176 4944	499	9.181 4453	510	0.818 5547	9.995 0491	11	365	
636	9.176 5443	499	9.181 4964	511	0.818 5036	9.995 0479	12	364	
		499		510			11		
637	9.176 5942		9.181 5474		0.818 4526	9.995 0468		363	
638	9.176 6441	499	9.181 5985	511	0.818 4015	9.995 0456	12	362	
639	9.176 6940	499	9.181 6495	510	0.818 3505	9.995 0445	11	361	
		499		511			12		
.640	9.176 7439		9.181 7006		0.818 2994	9.995 0433		**.360**	
		499		510			11		
641	9.176 7938		9.181 7516		0.818 2484	9.995 0422		359	
642	9.176 8437	499	9.181 8026	510	0.818 1974	9.995 0410	12	358	
643	9.176 8935	498	9.181 8537	511	0.818 1463	9.995 0399	11	357	
		499		510			12		
644	9.176 9434		9.181 9047		0.818 0953	9.995 0387		356	
645	9.176 9933	499	9.181 9557	510	0.818 0443	9.995 0376	11	355	
646	9.177 0431	498	9.182 0067	510	0.817 9933	9.995 0364	12	354	
		499		510			11		
647	9.177 0930		9.182 0577		0.817 9423	9.995 0353		353	
648	9.177 1428	498	9.182 1087	510	0.817 8913	9.995 0341	12	352	
649	9.177 1926	498	9.182 1597	510	0.817 8403	9.995 0330	11	351	
		499		509			12		
.650	9.177 2425		9.182 2106		0.817 7894	9.995 0318		**.350**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	513	512	511
1	51.3	51.2	51.1
2	102.6	102.4	102.2
3	153.9	153.6	153.3
4	205.2	204.8	204.4
5	256.5	256.0	255.5
6	307.8	307.2	306.6
7	359.1	358.4	357.7
8	410.4	409.6	408.8
9	461.7	460.8	459.9

	510	509	501
1	51.0	50.9	50.1
2	102.0	101.8	100.2
3	153.0	152.7	150.3
4	204.0	203.6	200.4
5	255.0	254.5	250.5
6	306.0	305.4	300.6
7	357.0	356.3	350.7
8	408.0	407.2	400.8
9	459.0	458.1	450.9

	500	499	498
1	50.0	49.9	49.8
2	100.0	99.8	99.6
3	150.0	149.7	149.4
4	200.0	199.6	199.2
5	250.0	249.5	249.0
6	300.0	299.4	298.8
7	350.0	349.3	348.6
8	400.0	399.2	398.4
9	450.0	449.1	448.2

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.400 - 81^\circ.350$

8°.650 — 8°.700

8°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.177 2425		9.182 2106		0.817 7894	9.995 0318		**.350**	
		498		510			11		
651	9.177 2923		9.182 2616		0.817 7384	9.995 0307		349	
652	9.177 3421	498	9.182 3126	510	0.817 6874	9.995 0295	12	348	
653	9.177 3919	498	9.182 3636	510	0.817 6364	9.995 0284	11	347	
		498		509			12		
654	9.177 4417		9.182 4145		0.817 5855	9.995 0272		346	
655	9.177 4915	498	9.182 4655	510	0.817 5345	9.995 0260	12	345	
656	9.177 5413	498	9.182 5164	509	0.817 4836	9.995 0249	11	344	
		498		510			12		
657	9.177 5911		9.182 5674		0.817 4326	9.995 0237		343	
658	9.177 6409	498	9.182 6183	509	0.817 3817	9.995 0226	11	342	
659	9.177 6907	498	9.182 6692	509	0.817 3308	9.995 0214	12	341	
		497		509			11		
.660	9.177 7404		9.182 7201		0.817 2799	9.995 0203		**.340**	
		498		510			12		
661	9.177 7902		9.182 7711		0.817 2289	9.995 0191		339	
662	9.177 8399	497	9.182 8220	509	0.817 1780	9.995 0180	11	338	
663	9.177 8897	498	9.182 8729	509	0.817 1271	9.995 0168	12	337	
		497		509			11		
664	9.177 9394		9.182 9238		0.817 0762	9.995 0157		336	
665	9.177 9892	498	9.182 9747	509	0.817 0253	9.995 0145	12	335	
666	9.178 0389	497	9.183 0256	509	0.816 9744	9.995 0133	12	334	
		498		509			11		
667	9.178 0887		9.183 0765		0.816 9235	9.995 0122		333	
668	9.178 1384	497	9.183 1273	508	0.816 8727	9.995 0110	12	332	
669	9.178 1881	497	9.183 1782	509	0.816 8218	9.995 0099	11	331	
		497		509			12		
.670	9.178 2378		9.183 2291		0.816 7709	9.995 0087		**.330**	
		497		508			11		
671	9.178 2875		9.183 2799		0.816 7201	9.995 0076		329	
672	9.178 3372	497	9.183 3308	509	0.816 6692	9.995 0064	12	328	
673	9.178 3869	497	9.183 3816	508	0.816 6184	9.995 0053	11	327	
		497		509			12		
674	9.178 4366		9.183 4325		0.816 5675	9.995 0041		326	
675	9.178 4863	497	9.183 4833	508	0.816 5167	9.995 0029	12	325	
676	9.178 5360	497	9.183 5342	509	0.816 4658	9.995 0018	11	324	
		496		508			12		
677	9.178 5856		9.183 5850		0.816 4150	9.995 0006		323	
678	9.178 6353	497	9.183 6358	508	0.816 3642	9.994 9995	11	322	
679	9.178 6849	496	9.183 6866	508	0.816 3134	9.994 9983	12	321	
		497		508			11		
.680	9.178 7346		9.183 7374		0.816 2626	9.994 9972		**.320**	
		496		508			12		
681	9.178 7842		9.183 7882		0.816 2118	9.994 9960		319	
682	9.178 8339	497	9.183 8390	508	0.816 1610	9.994 9948	12	318	
683	9.178 8835	496	9.183 8898	508	0.816 1102	9.994 9937	11	317	
		497		508			12		
684	9.178 9332		9.183 9406		0.816 0594	9.994 9925		316	
685	9.178 9828	496	9.183 9914	508	0.816 0086	9.994 9914	11	315	
686	9.179 0324	496	9.184 0422	508	0.815 9578	9.994 9902	12	314	
		496		508			11		
687	9.179 0820		9.184 0930		0.815 9070	9.994 9891		313	
688	9.179 1316	496	9.184 1437	507	0.815 8563	9.994 9879	12	312	
689	9.179 1812	496	9.184 1945	508	0.815 8055	9.994 9867	12	311	
		496		507			11		
.690	9.179 2308		9.184 2452		0.815 7548	9.994 9856		**.310**	
		496		508			12		
691	9.179 2804		9.184 2960		0.815 7040	9.994 9844		309	
692	9.179 3300	496	9.184 3467	507	0.815 6533	9.994 9833	11	308	
693	9.179 3796	496	9.184 3975	508	0.815 6025	9.994 9821	12	307	
		495		507			12		
694	9.179 4291		9.184 4482		0.815 5518	9.994 9809		306	
695	9.179 4787	496	9.184 4989	507	0.815 5011	9.994 9798	11	305	
696	9.179 5283	496	9.184 5496	507	0.815 4504	9.994 9786	12	304	
		495		508			11		
697	9.179 5778		9.184 6004		0.815 3996	9.994 9775		303	
698	9.179 6274	496	9.184 6511	507	0.815 3489	9.994 9763	12	302	
699	9.179 6769	495	9.184 7018	507	0.815 2982	9.994 9751	12	301	
		496		507			11		
.700	9.179 7265		9.184 7525		0.815 2475	9.994 9740		**.300**	
	cos	d	cotg	d	tang	sin	d	**81°**	P.P.

	510	509	508
1	51.0	50.9	50.8
2	102.0	101.8	101.6
3	153.0	152.7	152.4
4	204.0	203.6	203.2
5	255.0	254.5	254.0
6	306.0	305.4	304.8
7	357.0	356.3	355.6
8	408.0	407.2	406.4
9	459.0	458.1	457.2

	507	498	497
1	50.7	49.8	49.7
2	101.4	99.6	99.4
3	152.1	149.4	149.1
4	202.8	199.2	198.8
5	253.5	249.0	248.5
6	304.2	298.8	298.2
7	354.9	348.6	347.9
8	405.6	398.4	397.6
9	456.3	448.2	447.3

	496	495
1	49.6	49.5
2	99.2	99.0
3	148.8	148.5
4	198.4	198.0
5	248.0	247.5
6	297.6	297.0
7	347.2	346.5
8	396.8	396.0
9	446.4	445.5

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

81°.350 — 81°.300

$8^\circ.700 - 8^\circ.750$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.179 7265		9.184 7525		0.815 2475	9.994 9740		**.300**	
		495		507			12		
701	9.179 7760		9.184 8032		0.815 1968	9.994 9728		299	
702	9.179 8255	495	9.184 8538	506	0.815 1462	9.994 9717	11	298	
703	9.179 8750	495	9.184 9045	507	0.815 0955	9.994 9705	12	297	
		495		507			12		
704	9.179 9245		9.184 9552		0.815 0448	9.994 9693		296	
705	9.179 9741	496	9.185 0059	507	0.814 9941	9.994 9682	11	295	
706	9.180 0236	495	9.185 0565	506	0.814 9435	9.994 9670	12	294	
		495		507			11		
707	9.180 0731		9.185 1072		0.814 8928	9.994 9659		293	
708	9.180 1225	494	9.185 1578	506	0.814 8422	9.994 9647	12	292	
709	9.180 1720	495	9.185 2085	507	0.814 7915	9.994 9635	12	291	
		495		506			11		
.710	9.180 2215		9.185 2591		0.814 7409	9.994 9624		**.290**	
		495		507			12		
711	9.180 2710		9.185 3098		0.814 6902	9.994 9612		289	
712	9.180 3205	495	9.185 3604	506	0.814 6396	9.994 9601	11	288	
713	9.180 3699	494	9.185 4110	506	0.814 5890	9.994 9589	12	287	
		495		506			12		
714	9.180 4194		9.185 4616		0.814 5384	9.994 9577		286	
715	9.180 4688	494	9.185 5122	506	0.814 4878	9.994 9566	11	285	
716	9.180 5183	495	9.185 5629	507	0.814 4371	9.994 9554	12	284	
		494		506			11		
717	9.180 5677		9.185 6135		0.814 3865	9.994 9543		283	
718	9.180 6171	494	9.185 6641	506	0.814 3359	9.994 9531	12	282	
719	9.180 6666	495	9.185 7146	505	0.814 2854	9.994 9519	12	281	
		494		506			11		
.720	9.180 7160		9.185 7652		0.814 2348	9.994 9508		**.280**	
		494		506			12		
721	9.180 7654		9.185 8158		0.814 1842	9.994 9496		279	
722	9.180 8148	494	9.185 8664	506	0.814 1336	9.994 9484	12	278	
723	9.180 8642	494	9.185 9169	505	0.814 0831	9.994 9473	11	277	
		494		506			12		
724	9.180 9136		9.185 9675		0.814 0325	9.994 9461		276	
725	9.180 9630	494	9.186 0181	506	0.813 9819	9.994 9449	12	275	
726	9.181 0124	494	9.186 0686	505	0.813 9314	9.994 9438	11	274	
		494		506			12		
727	9.181 0618		9.186 1192		0.813 8808	9.994 9426		273	
728	9.181 1112	494	9.186 1697	505	0.813 8303	9.994 9415	11	272	
729	9.181 1605	493	9.186 2202	505	0.813 7798	9.994 9403	12	271	
		494		506			12		
.730	9.181 2099		9.186 2708		0.813 7292	9.994 9391		**.270**	
		494		505			11		
731	9.181 2593		9.186 3213		0.813 6787	9.994 9380		269	
732	9.181 3086	493	9.186 3718	505	0.813 6282	9.994 9368	12	268	
733	9.181 3580	494	9.186 4223	505	0.813 5777	9.994 9356	12	267	
		493		505			11		
734	9.181 4073		9.186 4728		0.813 5272	9.994 9345		266	
735	9.181 4566	493	9.186 5233	505	0.813 4767	9.994 9333	12	265	
736	9.181 5060	494	9.186 5738	505	0.813 4262	9.994 9321	12	264	
		493		505			11		
737	9.181 5553		9.186 6243		0.813 3757	9.994 9310		263	
738	9.181 6046	493	9.186 6748	505	0.813 3252	9.994 9298	12	262	
739	9.181 6539	493	9.186 7253	505	0.813 2747	9.994 9286	12	261	
		493		504			11		
.740	9.181 7032		9.186 7757		0.813 2243	9.994 9275		**.260**	
		493		505			12		
741	9.181 7525		9.186 8262		0.813 1738	9.994 9263		259	
742	9.181 8018	493	9.186 8767	505	0.813 1233	9.994 9252	11	258	
743	9.181 8511	493	9.186 9271	504	0.813 0729	9.994 9240	12	257	
		493		505			12		
744	9.181 9004		9.186 9776		0.813 0224	9.994 9228		256	
745	9.181 9497	493	9.187 0280	504	0.812 9720	9.994 9217	11	255	
746	9.181 9989	492	9.187 0785	505	0.812 9215	9.994 9205	12	254	
		493		504			12		
747	9.182 0482		9.187 1289		0.812 8711	9.994 9193		253	
748	9.182 0975	493	9.187 1793	504	0.812 8207	9.994 9182	11	252	
749	9.182 1467	492	9.187 2297	504	0.812 7703	9.994 9170	12	251	
		493		505			12		
.750	9.182 1960		9.187 2802		0.812 7198	9.994 9158		**.250**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	507	506	505
1	50.7	50.6	50.5
2	101.4	101.2	101.0
3	152.1	151.8	151.5
4	202.8	202.4	202.0
5	253.5	253.0	252.5
6	304.2	303.6	303.0
7	354.9	354.2	353.5
8	405.6	404.8	404.0
9	456.3	455.4	454.5

	504	496	495
1	50.4	49.6	49.5
2	100.8	99.2	99.0
3	151.2	148.8	148.5
4	201.6	198.4	198.0
5	252.0	248.0	247.5
6	302.4	297.6	297.0
7	352.8	347.2	346.5
8	403.2	396.8	396.0
9	453.6	446.4	445.5

	494	493	492
1	49.4	49.3	49.2
2	98.8	98.6	98.4
3	148.2	147.9	147.6
4	197.6	197.2	196.8
5	247.0	246.5	246.0
6	296.4	295.8	295.2
7	345.8	345.1	344.4
8	395.2	394.4	393.6
9	444.6	443.7	442.8

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.300 - 81^\circ.250$

$8^\circ.750 - 8^\circ.800$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.182 1960		9.187 2802		0.812 7198	9.994 9158		**.250**	
		492		504			11		
751	9.182 2452		9.187 3306		0.812 6694	9.994 9147		249	
752	9.182 2945	493	9.187 3810	504	0.812 6190	9.994 9135	12	248	
753	9.182 3437	492	9.187 4314	504	0.812 5686	9.994 9123	12	247	
		492		504			11		
754	9.182 3929		9.187 4818		0.812 5182	9.994 9112		246	
755	9.182 4421	492	9.187 5322	504	0.812 4678	9.994 9100	12	245	
756	9.182 4914	493	9.187 5825	503	0.812 4175	9.994 9088	12	244	
		492		504			11		
757	9.182 5406		9.187 6329		0.812 3671	9.994 9077		243	
758	9.182 5898	492	9.187 6833	504	0.812 3167	9.994 9065	12	242	
759	9.182 6390	492	9.187 7337	504	0.812 2663	9.994 9053	12	241	
		492		503			11		
.760	9.182 6882		9.187 7840		0.812 2160	9.994 9042		**.240**	
		492		504			12		
761	9.182 7374		9.187 8344		0.812 1656	9.994 9030		239	
762	9.182 7865	491	9.187 8847	503	0.812 1153	9.994 9018	12	238	
763	9.182 8357	492	9.187 9351	504	0.812 0649	9.994 9006	12	237	
		492		503			11		
764	9.182 8849		9.187 9854		0.812 0146	9.994 8995		236	
765	9.182 9340	491	9.188 0357	503	0.811 9643	9.994 8983	12	235	
766	9.182 9832	492	9.188 0861	504	0.811 9139	9.994 8971	12	234	
		492		503			11		
767	9.183 0324		9.188 1364		0.811 8636	9.994 8960		233	
768	9.183 0815	491	9.188 1867	503	0.811 8133	9.994 8948	12	232	
769	9.183 1307	492	9.188 2370	503	0.811 7630	9.994 8936	12	231	
		491		503			11		
.770	9.183 1798		9.188 2873		0.811 7127	9.994 8925		**.230**	
		491		503			12		
771	9.183 2289		9.188 3376		0.811 6624	9.994 8913		229	
772	9.183 2780	491	9.188 3879	503	0.811 6121	9.994 8901	12	228	
773	9.183 3272	492	9.188 4382	503	0.811 5618	9.994 8890	11	227	
		491		503			12		
774	9.183 3763		9.188 4885		0.811 5115	9.994 8878		226	
775	9.183 4254	491	9.188 5388	503	0.811 4612	9.994 8866	12	225	
776	9.183 4745	491	9.188 5890	502	0.811 4110	9.994 8854	12	224	
		491		503			11		
777	9.183 5236		9.188 6393		0.811 3607	9.994 8843		223	
778	9.183 5727	491	9.188 6896	503	0.811 3104	9.994 8831	12	222	
779	9.183 6218	491	9.188 7398	502	0.811 2602	9.994 8819	12	221	
		490		503			11		
.780	9.183 6708		9.188 7901		0.811 2099	9.994 8808		**.220**	
		491		502			12		
781	9.183 7199		9.188 8403		0.811 1597	9.994 8796		219	
782	9.183 7690	491	9.188 8906	503	0.811 1094	9.994 8784	12	218	
783	9.183 8180	490	9.188 9408	502	0.811 0592	9.994 8773	11	217	
		491		502			12		
784	9.183 8671		9.188 9910		0.811 0090	9.994 8761		216	
785	9.183 9161	490	9.189 0412	502	0.810 9588	9.994 8749	12	215	
786	9.183 9652	491	9.189 0915	503	0.810 9085	9.994 8737	12	214	
		490		502			11		
787	9.184 0142		9.189 1417		0.810 8583	9.994 8726		213	
788	9.184 0633	491	9.189 1919	502	0.810 8081	9.994 8714	12	212	
789	9.184 1123	490	9.189 2421	502	0.810 7579	9.994 8702	12	211	
		490		502			12		
.790	9.184 1613		9.189 2923		0.810 7077	9.994 8690		**.210**	
		490		502			11		
791	9.184 2103		9.189 3425		0.810 6575	9.994 8679		209	
792	9.184 2593	490	9.189 3926	501	0.810 6074	9.994 8667	12	208	
793	9.184 3083	490	9.189 4428	502	0.810 5572	9.994 8655	12	207	
		490		502			11		
794	9.184 3573		9.189 4930		0.810 5070	9.994 8644		206	
795	9.184 4063	490	9.189 5432	502	0.810 4568	9.994 8632	12	205	
796	9.184 4553	490	9.189 5933	501	0.810 4067	9.994 8620	12	204	
		490		502			12		
797	9.184 5043		9.189 6435		0.810 3565	9.994 8608		203	
798	9.184 5533	490	9.189 6936	501	0.810 3064	9.994 8597	11	202	
799	9.184 6023	490	9.189 7438	502	0.810 2562	9.994 8585	12	201	
		489		501			12		
.800	9.184 6512		9.189 7939		0.810 2061	9.994 8573		**.200**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	504	503	502
1	50.4	50.3	50.2
2	100.8	100.6	100.4
3	151.2	150.9	150.6
4	201.6	201.2	200.8
5	252.0	251.5	251.0
6	302.4	301.8	301.2
7	352.8	352.1	351.4
8	403.2	402.4	401.6
9	453.6	452.7	451.8

	501	493	492
1	50.1	49.3	49.2
2	100.2	98.6	98.4
3	150.3	147.9	147.6
4	200.4	197.2	196.8
5	250.5	246.5	246.0
6	300.6	295.8	295.2
7	350.7	345.1	344.4
8	400.8	394.4	393.6
9	450.9	443.7	442.8

	491	490	489
1	49.1	49.0	48.9
2	98.2	98.0	97.8
3	147.3	147.0	146.7
4	196.4	196.0	195.6
5	245.5	245.0	244.5
6	294.6	294.0	293.4
7	343.7	343.0	342.3
8	392.8	392.0	391.2
9	441.9	441.0	440.1

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.250 - 81^\circ.200$

8°.800 — 8°.850

8°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.184 6512		9.189 7939		0.810 2061	9.994 8573		.200	
		490		501			12		
801	9.184 7002		9.189 8440		0.810 1560	9.994 8561		199	
		489		502			11		
802	9.184 7491		9.189 8942		0.810 1058	9.994 8550		198	
		490		501			12		
803	9.184 7981		9.189 9443		0.810 0557	9.994 8538		197	
		489		501			12		
804	9.184 8470		9.189 9944		0.810 0056	9.994 8526		196	
		490		501			11		
805	9.184 8960		9.190 0445		0.809 9555	9.994 8515		195	
		489		501			12		
806	9.184 9449		9.190 0946		0.809 9054	9.994 8503		194	
		489		501			12		
807	9.184 9938		9.190 1447		0.809 8553	9.994 8491		193	
		489		501			12		
808	9.185 0427		9.190 1948		0.809 8052	9.994 8479		192	
		490		501			11		
809	9.185 0917		9.190 2449		0.809 7551	9.994 8468		191	
		489		501			12		
.810	9.185 1406		9.190 2950		0.809 7050	9.994 8456		.190	
		489		501			12		
811	9.185 1895		9.190 3451		0.809 6549	9.994 8444		189	
		489		500			12		
812	9.185 2384		9.190 3951		0.809 6049	9.994 8432		188	
		489		501			11		
813	9.185 2873		9.190 4452		0.809 5548	9.994 8421		187	
		489		501			12		
814	9.185 3362		9.190 4953		0.809 5047	9.994 8409		186	
		488		500			12		
815	9.185 3850		9.190 5453		0.809 4547	9.994 8397		185	
		489		501			12		
816	9.185 4339		9.190 5954		0.809 4046	9.994 8385		184	
		489		500			11		
817	9.185 4828		9.190 6454		0.809 3546	9.994 8374		183	
		488		501			12		
818	9.185 5316		9.190 6955		0.809 3045	9.994 8362		182	
		489		500			12		
819	9.185 5805		9.190 7455		0.809 2545	9.994 8350		181	
		489		500			12		
.820	9.185 6294		9.190 7955		0.809 2045	9.994 8338		.180	
		488		501			11		
821	9.185 6782		9.190 8456		0.809 1544	9.994 8327		179	
		488		500			12		
822	9.185 7270		9.190 8956		0.809 1044	9.994 8315		178	
		489		500			12		
823	9.185 7759		9.190 9456		0.809 0544	9.994 8303		177	
		488		500			12		
824	9.185 8247		9.190 9956		0.809 0044	9.994 8291		176	
		488		500			12		
825	9.185 8735		9.191 0456		0.808 9544	9.994 8279		175	
		489		500			11		
826	9.185 9224		9.191 0956		0.808 9044	9.994 8268		174	
		488		500			12		
827	9.185 9712		9.191 1456		0.808 8544	9.994 8256		173	
		488		500			12		
828	9.186 0200		9.191 1956		0.808 8044	9.994 8244		172	
		488		499			12		
829	9.186 0688		9.191 2455		0.808 7545	9.994 8232		171	
		488		500			11		
.830	9.186 1176		9.191 2955		0.808 7045	9.994 8221		.170	
		488		500			12		
831	9.186 1664		9.191 3455		0.808 6545	9.994 8209		169	
		488		499			12		
832	9.186 2152		9.191 3954		0.808 6046	9.994 8197		168	
		487		500			12		
833	9.186 2639		9.191 4454		0.808 5546	9.994 8185		167	
		488		500			12		
834	9.186 3127		9.191 4954		0.808 5046	9.994 8173		166	
		488		499			11		
835	9.186 3615		9.191 5453		0.808 4547	9.994 8162		165	
		487		499			12		
836	9.186 4102		9.191 5952		0.808 4048	9.994 8150		164	
		488		500			12		
837	9.186 4590		9.191 6452		0.808 3548	9.994 8138		163	
		487		499			12		
838	9.186 5077		9.191 6951		0.808 3049	9.994 8126		162	
		488		499			11		
839	9.186 5565		9.191 7450		0.808 2550	9.994 8115		161	
		487		500			12		
.840	9.186 6052		9.191 7950		0.808 2050	9.994 8103		.160	
		488		499			12		
841	9.186 6540		9.191 8449		0.808 1551	9.994 8091		159	
		487		499			12		
842	9.186 7027		9.191 8948		0.808 1052	9.994 8079		158	
		487		499			12		
843	9.186 7514		9.191 9447		0.808 0553	9.994 8067		157	
		487		499			11		
844	9.186 8001		9.191 9946		0.808 0054	9.994 8056		156	
		488		499			12		
845	9.186 8489		9.192 0445		0.807 9555	9.994 8044		155	
		487		499			12		
846	9.186 8976		9.192 0944		0.807 9056	9.994 8032		154	
		487		498			12		
847	9.186 9463		9.192 1442		0.807 8558	9.994 8020		153	
		487		499			12		
848	9.186 9950		9.192 1941		0.807 8059	9.994 8008		152	
		486		499			11		
849	9.187 0436		9.192 2440		0.807 7560	9.994 7997		151	
		487		499			12		
.850	9.187 0923		9.192 2939		0.807 7061	9.994 7985		.150	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	502	501	500
1	50.2	50.1	50.0
2	100.4	100.2	100.0
3	150.6	150.3	150.0
4	200.8	200.4	200.0
5	251.0	250.5	250.0
6	301.2	300.6	300.0
7	351.4	350.7	350.0
8	401.6	400.8	400.0
9	451.8	450.9	450.0

	499	498	490
1	49.9	49.8	49.0
2	99.8	99.6	98.0
3	149.7	149.4	147.0
4	199.6	199.2	196.0
5	249.5	249.0	245.0
6	299.4	298.8	294.0
7	349.3	348.6	343.0
8	399.2	398.4	392.0
9	449.1	448.2	441.0

	489	488	487
1	48.9	48.8	48.7
2	97.8	97.6	97.4
3	146.7	146.4	146.1
4	195.6	195.2	194.8
5	244.5	244.0	243.5
6	293.4	292.8	292.2
7	342.3	341.6	340.9
8	391.2	390.4	389.6
9	440.1	439.2	438.3

	486	12	11
1	48.6	1.2	1.1
2	97.2	2.4	2.2
3	145.8	3.6	3.3
4	194.4	4.8	4.4
5	243.0	6.0	5.5
6	291.6	7.2	6.6
7	340.2	8.4	7.7
8	388.8	9.6	8.8
9	437.4	10.8	9.9

81°.200 — 81°.150

$8^\circ.850 - 8^\circ.900$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.187 0923		9.192 2939		0.807 7061	9.994 7985		**.150**	
		487		498			12		
851	9.187 1410		9.192 3437		0.807 6563	9.994 7973		149	
		487		499			12		
852	9.187 1897		9.192 3936		0.807 6064	9.994 7961		148	
		487		498			12		
853	9.187 2384		9.192 4434		0.807 5566	9.994 7949		147	
		486		499			11		
854	9.187 2870		9.192 4933		0.807 5067	9.994 7938		146	
		487		498			12		
855	9.187 3357		9.192 5431		0.807 4569	9.994 7926		145	
		486		498			12		
856	9.187 3843		9.192 5929		0.807 4071	9.994 7914		144	
		487		499			12		
857	9.187 4330		9.192 6428		0.807 3572	9.994 7902		143	
		486		498			12		
858	9.187 4816		9.192 6926		0.807 3074	9.994 7890		142	
		486		498			11		
859	9.187 5302		9.192 7424		0.807 2576	9.994 7879		141	
		487		498			12		
.860	9.187 5789		9.192 7922		0.807 2078	9.994 7867		**.140**	
		486		498			12		
861	9.187 6275		9.192 8420		0.807 1580	9.994 7855		139	
		486		498			12		
862	9.187 6761		9.192 8918		0.807 1082	9.994 7843		138	
		486		498			12		
863	9.187 7247		9.192 9416		0.807 0584	9.994 7831		137	
		486		498			12		
864	9.187 7733		9.192 9914		0.807 0086	9.994 7819		136	
		486		498			11		
865	9.187 8219		9.193 0412		0.806 9588	9.994 7808		135	
		486		497			12		
866	9.187 8705		9.193 0909		0.806 9091	9.994 7796		134	
		486		498			12		
867	9.187 9191		9.193 1407		0.806 8593	9.994 7784		133	
		486		498			12		
868	9.187 9677		9.193 1905		0.806 8095	9.994 7772		132	
		486		498			12		
869	9.188 0163		9.193 2403		0.806 7597	9.994 7760		131	
		486		497			11		
.870	9.188 0649		9.193 2900		0.806 7100	9.994 7749		**.130**	
		485		498			12		
871	9.188 1134		9.193 3398		0.806 6602	9.994 7737		129	
		486		497			12		
872	9.188 1620		9.193 3895		0.806 6105	9.994 7725		128	
		485		497			12		
873	9.188 2105		9.193 4392		0.806 5608	9.994 7713		127	
		486		498			12		
874	9.188 2591		9.193 4890		0.806 5110	9.994 7701		126	
		485		497			12		
875	9.188 3076		9.193 5387		0.806 4613	9.994 7689		125	
		486		497			11		
876	9.188 3562		9.193 5884		0.806 4116	9.994 7678		124	
		485		497			12		
877	9.188 4047		9.193 6381		0.806 3619	9.994 7666		123	
		485		498			12		
878	9.188 4532		9.193 6879		0.806 3121	9.994 7654		122	
		486		497			12		
879	9.188 5018		9.193 7376		0.806 2624	9.994 7642		121	
		485		497			12		
.880	9.188 5503		9.193 7873		0.806 2127	9.994 7630		**.120**	
		485		497			12		
881	9.188 5988		9.193 8370		0.806 1630	9.994 7618		119	
		485		497			12		
882	9.188 6473		9.193 8867		0.806 1133	9.994 7606		118	
		485		496			11		
883	9.188 6958		9.193 9363		0.806 0637	9.994 7595		117	
		485		497			12		
884	9.188 7443		9.193 9860		0.806 0140	9.994 7583		116	
		485		497			12		
885	9.188 7928		9.194 0357		0.805 9643	9.994 7571		115	
		485		497			12		
886	9.188 8413		9.194 0854		0.805 9146	9.994 7559		114	
		485		496			12		
887	9.188 8898		9.194 1350		0.805 8650	9.994 7547		113	
		484		497			12		
888	9.188 9382		9.194 1847		0.805 8153	9.994 7535		112	
		485		496			11		
889	9.188 9867		9.194 2343		0.805 7657	9.994 7524		111	
		485		497			12		
.890	9.189 0352		9.194 2840		0.805 7160	9.994 7512		**.110**	
		484		496			12		
891	9.189 0836		9.194 3336		0.805 6664	9.994 7500		109	
		485		497			12		
892	9.189 1321		9.194 3833		0.805 6167	9.994 7488		108	
		484		496			12		
893	9.189 1805		9.194 4329		0.805 5671	9.994 7476		107	
		484		496			12		
894	9.189 2289		9.194 4825		0.805 5175	9.994 7464		106	
		485		496			12		
895	9.189 2774		9.194 5321		0.805 4679	9.994 7452		105	
		484		497			12		
896	9.189 3258		9.194 5818		0.805 4182	9.994 7440		104	
		484		496			11		
897	9.189 3742		9.194 6314		0.805 3686	9.994 7429		103	
		485		496			12		
898	9.189 4227		9.194 6810		0.805 3190	9.994 7417		102	
		484		496			12		
899	9.189 4711		9.194 7306		0.805 2694	9.994 7405		101	
		484		496			12		
.900	9.189 5195		9.194 7802		0.805 2198	9.994 7393		**.100**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	499	498
1	49.9	49.8
2	99.8	99.6
3	149.7	149.4
4	199.6	199.2
5	249.5	249.0
6	299.4	298.8
7	349.3	348.6
8	399.2	398.4
9	449.1	448.2

	497	496
1	49.7	49.6
2	99.4	99.2
3	149.1	148.8
4	198.8	198.4
5	248.5	248.0
6	298.2	297.6
7	347.9	347.2
8	397.6	396.8
9	447.3	446.4

	487	486
1	48.7	48.6
2	97.4	97.2
3	146.1	145.8
4	194.8	194.4
5	243.5	243.0
6	292.2	291.6
7	340.9	340.2
8	389.6	388.8
9	438.3	437.4

	485	484
1	48.5	48.4
2	97.0	96.8
3	145.5	145.2
4	194.0	193.6
5	242.5	242.0
6	291.0	290.4
7	339.5	338.8
8	388.0	387.2
9	436.5	435.6

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.150 - 81^\circ.100$

$8^\circ.900 - 8^\circ.950$

8°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.189 5195		9.194 7802		0.805 2198	9.994 7393		**.100**	
		484		496			12		
901	9.189 5679		9.194 8298		0.805 1702	9.994 7381		099	
902	9.189 6163	484	9.194 8793	495	0.805 1207	9.994 7369	12	098	
903	9.189 6647	484	9.194 9289	496	0.805 0711	9.994 7357	12	097	
		483		496			11		
904	9.189 7130		9.194 9785		0.805 0215	9.994 7346		096	
905	9.189 7614	484	9.195 0281	496	0.804 9719	9.994 7334	12	095	
906	9.189 8098	484	9.195 0776	495	0.804 9224	9.994 7322	12	094	
		484		496			12		
907	9.189 8582		9.195 1272		0.804 8728	9.994 7310		093	
908	9.189 9065	483	9.195 1767	495	0.804 8233	9.994 7298	12	092	
909	9.189 9549	484	9.195 2263	496	0.804 7737	9.994 7286	12	091	
		483		495			12		
.910	9.190 0032		9.195 2758		0.804 7242	9.994 7274		**.090**	
		484		495			12		
911	9.190 0516		9.195 3253		0.804 6747	9.994 7262		089	
912	9.190 0999	483	9.195 3749	496	0.804 6251	9.994 7250	12	088	
913	9.190 1483	484	9.195 4244	495	0.804 5756	9.994 7239	11	087	
		483		495			12		
914	9.190 1966		9.195 4739		0.804 5261	9.994 7227		086	
915	9.190 2449	483	9.195 5234	495	0.804 4766	9.994 7215	12	085	
916	9.190 2932	483	9.195 5729	495	0.804 4271	9.994 7203	12	084	
		483		495			12		
917	9.190 3415		9.195 6224		0.804 3776	9.994 7191		083	
918	9.190 3898	483	9.195 6719	495	0.804 3281	9.994 7179	12	082	
919	9.190 4382	484	9.195 7214	495	0.804 2786	9.994 7167	12	081	
		482		495			12		
.920	9.190 4864		9.195 7709		0.804 2291	9.994 7155		**.080**	
		483		495			12		
921	9.190 5347		9.195 8204		0.804 1796	9.994 7143		079	
922	9.190 5830	483	9.195 8699	495	0.804 1301	9.994 7132	11	078	
923	9.190 6313	483	9.195 9193	494	0.804 0807	9.994 7120	12	077	
		483		495			12		
924	9.190 6796		9.195 9688		0.804 0312	9.994 7108		076	
925	9.190 7278	482	9.196 0183	495	0.803 9817	9.994 7096	12	075	
926	9.190 7761	483	9.196 0677	494	0.803 9323	9.994 7084	12	074	
		483		495			12		
927	9.190 8244		9.196 1172		0.803 8828	9.994 7072		073	
928	9.190 8726	482	9.196 1666	494	0.803 8334	9.994 7060	12	072	
929	9.190 9209	483	9.196 2160	494	0.803 7840	9.994 7048	12	071	
		482		495			12		
.930	9.190 9691		9.196 2655		0.803 7345	9.994 7036		**.070**	
		482		494			12		
931	9.191 0173		9.196 3149		0.803 6851	9.994 7024		069	
932	9.191 0656	483	9.196 3643	494	0.803 6357	9.994 7012	12	068	
933	9.191 1138	482	9.196 4137	494	0.803 5863	9.994 7001	11	067	
		482		495			12		
934	9.191 1620		9.196 4632		0.803 5368	9.994 6989		066	
935	9.191 2102	482	9.196 5126	494	0.803 4874	9.994 6977	12	065	
936	9.191 2584	482	9.196 5620	494	0.803 4380	9.994 6965	12	064	
		482		494			12		
937	9.191 3066		9.196 6114		0.803 3886	9.994 6953		063	
938	9.191 3548	482	9.196 6607	493	0.803 3393	9.994 6941	12	062	
939	9.191 4030	482	9.196 7101	494	0.803 2899	9.994 6929	12	061	
		482		494			12		
.940	9.191 4512		9.196 7595		0.803 2405	9.994 6917		**.060**	
		482		494			12		
941	9.191 4994		9.196 8089		0.803 1911	9.994 6905		059	
942	9.191 5476	482	9.196 8583	494	0.803 1417	9.994 6893	12	058	
943	9.191 5958	482	9.196 9076	493	0.803 0924	9.994 6881	12	057	
		481		494			12		
944	9.191 6439		9.196 9570		0.803 0430	9.994 6869		056	
945	9.191 6921	482	9.197 0063	493	0.802 9937	9.994 6858	11	055	
946	9.191 7402	481	9.197 0557	494	0.802 9443	9.994 6846	12	054	
		482		493			12		
947	9.191 7884		9.197 1050		0.802 8950	9.994 6834		053	
948	9.191 8365	481	9.197 1543	493	0.802 8457	9.994 6822	12	052	
949	9.191 8847	482	9.197 2037	494	0.802 7963	9.994 6810	12	051	
		481		493			12		
.950	9.191 9328		9.197 2530		0.802 7470	9.994 6798		**.050**	
	cos	d	cotg	d	tang	sin	d	81°	P.P.

	496	495
1	49.6	49.5
2	99.2	99.0
3	148.8	148.5
4	198.4	198.0
5	248.0	247.5
6	297.6	297.0
7	347.2	346.5
8	396.8	396.0
9	446.4	445.5

	494	493
1	49.4	49.3
2	98.8	98.6
3	148.2	147.9
4	197.6	197.2
5	247.0	246.5
6	296.4	295.8
7	345.8	345.1
8	395.2	394.4
9	444.6	443.7

	484	483
1	48.4	48.3
2	96.8	96.6
3	145.2	144.9
4	193.6	193.2
5	242.0	241.5
6	290.4	289.8
7	338.8	338.1
8	387.2	386.4
9	435.6	434.7

	482	481
1	48.2	48.1
2	96.4	96.2
3	144.6	144.3
4	192.8	192.4
5	241.0	240.5
6	289.2	288.6
7	337.4	336.7
8	385.6	384.8
9	433.8	432.9

	12	11
1	1.2	1.1
2	2.4	2.2
3	3.6	3.3
4	4.8	4.4
5	6.0	5.5
6	7.2	6.6
7	8.4	7.7
8	9.6	8.8
9	10.8	9.9

$81^\circ.100 - 81^\circ.050$

$8^\circ.950 - 9^\circ.000$

8°	sin	d	tang	d	cotg	cos	d		P.P.		
.950	9.191 9328	481	9.197 2530	493	0.802 7470	9.994 6798	12	**.050**			
951	9.191 9809	481	9.197 3023	493	0.802 6977	9.994 6786	12	049			
952	9.192 0290	482	9.197 3516	493	0.802 6484	9.994 6774	12	048			
953	9.192 0772	481	9.197 4009	494	0.802 5991	9.994 6762	12	047			
954	9.192 1253	481	9.197 4503	493	0.802 5497	9.994 6750	12	046		494	493	492
955	9.192 1734	481	9.197 4996	492	0.802 5004	9.994 6738	12	045	1	49.4	49.3	49.2
956	9.192 2215	481	9.197 5488	493	0.802 4512	9.994 6726	12	044	2	98.8	98.6	98.4
957	9.192 2696	480	9.197 5981	493	0.802 4019	9.994 6714	12	043	3	148.2	147.9	147.6
958	9.192 3176	481	9.197 6474	493	0.802 3526	9.994 6702	12	042	4	197.6	197.2	196.8
959	9.192 3657	481	9.197 6967	493	0.802 3033	9.994 6690	12	041	5	247.0	246.5	246.0
.960	9.192 4138	481	9.197 7460	492	0.802 2540	9.994 6678	12	**.040**	6	296.4	295.8	295.2
961	9.192 4619	480	9.197 7952	493	0.802 2048	9.994 6666	12	039	7	345.8	345.1	344.4
962	9.192 5099	481	9.197 8445	493	0.802 1555	9.994 6654	11	038	8	395.2	394.4	393.6
963	9.192 5580	481	9.197 8938	492	0.802 1062	9.994 6643	12	037	9	444.6	443.7	442.8
964	9.192 6061	480	9.197 9430	492	0.802 0570	9.994 6631	12	036				
965	9.192 6541	481	9.197 9922	493	0.802 0078	9.994 6619	12	035				
966	9.192 7022	480	9.198 0415	492	0.801 9585	9.994 6607	12	034		491	490	482
967	9.192 7502	480	9.198 0907	493	0.801 9093	9.994 6595	12	033	1	49.1	49.0	48.2
968	9.192 7982	481	9.198 1400	492	0.801 8600	9.994 6583	12	032	2	98.2	98.0	96.4
969	9.192 8463	480	9.198 1892	492	0.801 8108	9.994 6571	12	031	3	147.3	147.0	144.6
.970	9.192 8943	480	9.198 2384	492	0.801 7616	9.994 6559	12	**.030**	4	196.4	196.0	192.8
971	9.192 9423	480	9.198 2876	492	0.801 7124	9.994 6547	12	029	5	245.5	245.0	241.0
972	9.192 9903	480	9.198 3368	492	0.801 6632	9.994 6535	12	028	6	294.6	294.0	289.2
973	9.193 0383	480	9.198 3860	492	0.801 6140	9.994 6523	12	027	7	343.7	343.0	337.4
974	9.193 0863	480	9.198 4352	492	0.801 5648	9.994 6511	12	026	8	392.8	392.0	385.6
975	9.193 1343	480	9.198 4844	492	0.801 5156	9.994 6499	12	025	9	441.9	441.0	433.8
976	9.193 1823	480	9.198 5336	492	0.801 4664	9.994 6487	12	024				
977	9.193 2303	480	9.198 5828	492	0.801 4172	9.994 6475	12	023				
978	9.193 2783	480	9.198 6320	492	0.801 3680	9.994 6463	12	022		481	480	479
979	9.193 3262	479	9.198 6811	491	0.801 3189	9.994 6451	12	021	1	48.1	48.0	47.9
.980	9.193 3742	480	9.198 7303	492	0.801 2697	9.994 6439	12	**.020**	2	96.2	96.0	95.8
981	9.193 4222	480	9.198 7795	492	0.801 2205	9.994 6427	12	019	3	144.3	144.0	143.7
982	9.193 4701	479	9.198 8286	491	0.801 1714	9.994 6415	12	018	4	192.4	192.0	191.6
983	9.193 5181	480	9.198 8778	492	0.801 1222	9.994 6403	12	017	5	240.5	240.0	239.5
984	9.193 5660	479	9.198 9269	491	0.801 0731	9.994 6391	12	016	6	288.6	288.0	287.4
985	9.193 6140	480	9.198 9761	492	0.801 0239	9.994 6379	12	015	7	336.7	336.0	335.3
986	9.193 6619	479	9.199 0252	491	0.800 9748	9.994 6367	12	014	8	384.8	384.0	383.2
987	9.193 7098	479	9.199 0743	491	0.800 9257	9.994 6355	12	013	9	432.9	432.0	431.1
988	9.193 7578	480	9.199 1234	491	0.800 8766	9.994 6343	12	012				
989	9.193 8057	479	9.199 1726	492	0.800 8274	9.994 6331	12	011				
.990	9.193 8536	479	9.199 2217	491	0.800 7783	9.994 6319	12	**.010**		478	12	11
991	9.193 9015	479	9.199 2708	491	0.800 7292	9.994 6307	12	009	1	47.8	1.2	1.1
992	9.193 9494	479	9.199 3199	491	0.800 6801	9.994 6295	12	008	2	95.6	2.4	2.2
993	9.193 9973	479	9.199 3690	491	0.800 6310	9.994 6283	12	007	3	143.4	3.6	3.3
994	9.194 0452	479	9.199 4181	491	0.800 5819	9.994 6271	12	006	4	191.2	4.8	4.4
995	9.194 0931	479	9.199 4672	490	0.800 5328	9.994 6259	12	005	5	239.0	6.0	5.5
996	9.194 1410	478	9.199 5162	491	0.800 4838	9.994 6247	12	004	6	286.8	7.2	6.6
997	9.194 1888	479	9.199 5653	491	0.800 4347	9.994 6235	12	003	7	334.6	8.4	7.7
998	9.194 2367	479	9.199 6144	491	0.800 3856	9.994 6223	12	002	8	382.4	9.6	8.8
999	9.194 2846	478	9.199 6635	490	0.800 3365	9.994 6211	12	001	9	430.2	10.8	9.9
***000**	9.194 3324		9.199 7125		0.800 2875	9.994 6199		**.000**				
	cos	d	cotg	d	tang	sin	d	81°	P.P.		

$81^\circ.050 - 81^\circ.000$

$9^\circ.000 - 9^\circ.050$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.194 3324		9.199 7125		0.800 2875	9.994 6199		***000**	
		479		491			12		
001	9.194 3803		9.199 7616		0.800 2384	9.994 6187		999	
002	9.194 4281	478	9.199 8106	490	0.800 1894	9.994 6175	12	998	
003	9.194 4760	479	9.199 8597	491	0.800 1403	9.994 6163	12	997	
		478		490			12		
004	9.194 5238		9.199 9087		0.800 0913	9.994 6151		996	
005	9.194 5717	479	9.199 9577	490	0.800 0423	9.994 6139	12	995	
006	9.194 6195	478	9.200 0068	491	0.799 9932	9.994 6127	12	994	
		478		490			12		
007	9.194 6673		9.200 0558		0.799 9442	9.994 6115		993	
008	9.194 7151	478	9.200 1048	490	0.799 8952	9.994 6103	12	992	
009	9.194 7629	478	9.200 1538	490	0.799 8462	9.994 6091	12	991	
		478		490			12		
.010	9.194 8107		9.200 2028		0.799 7972	9.994 6079		***990**	
		478		490			12		
011	9.194 8585		9.200 2518		0.799 7482	9.994 6067		989	
012	9.194 9063	478	9.200 3008	490	0.799 6992	9.994 6055	12	988	
013	9.194 9541	478	9.200 3498	490	0.799 6502	9.994 6043	12	987	
		478		490			12		
014	9.195 0019		9.200 3988		0.799 6012	9.994 6031		986	
015	9.195 0497	478	9.200 4478	490	0.799 5522	9.994 6019	12	985	
016	9.195 0975	478	9.200 4968	490	0.799 5032	9.994 6007	12	984	
		477		489			12		
017	9.195 1452		9.200 5457		0.799 4543	9.994 5995		983	
018	9.195 1930	478	9.200 5947	490	0.799 4053	9.994 5983	12	982	
019	9.195 2408	478	9.200 6437	490	0.799 3563	9.994 5971	12	981	
		477		489			12		
.020	9.195 2885		9.200 6926		0.799 3074	9.994 5959		***980**	
		478		490			12		
021	9.195 3363		9.200 7416		0.799 2584	9.994 5947		979	
022	9.195 3840	477	9.200 7905	489	0.799 2095	9.994 5935	12	978	
023	9.195 4317	477	9.200 8395	490	0.799 1605	9.994 5923	12	977	
		478		489			12		
024	9.195 4795		9.200 8884		0.799 1116	9.994 5911		976	
025	9.195 5272	477	9.200 9373	489	0.799 0627	9.994 5899	12	975	
026	9.195 5749	477	9.200 9862	489	0.799 0138	9.994 5887	12	974	
		477		490			12		
027	9.195 6226		9.201 0352		0.798 9648	9.994 5875		973	
028	9.195 6703	477	9.201 0841	489	0.798 9159	9.994 5863	12	972	
029	9.195 7180	477	9.201 1330	489	0.798 8670	9.994 5851	12	971	
		477		489			12		
.030	9.195 7657		9.201 1819		0.798 8181	9.994 5839		***970**	
		477		489			13		
031	9.195 8134		9.201 2308		0.798 7692	9.994 5826		969	
032	9.195 8611	477	9.201 2797	489	0.798 7203	9.994 5814	12	968	
033	9.195 9088	477	9.201 3286	489	0.798 6714	9.994 5802	12	967	
		477		488			12		
034	9.195 9565		9.201 3774		0.798 6226	9.994 5790		966	
035	9.196 0041	476	9.201 4263	489	0.798 5737	9.994 5778	12	965	
036	9.196 0518	477	9.201 4752	489	0.798 5248	9.994 5766	12	964	
		477		489			12		
037	9.196 0995		9.201 5241		0.798 4759	9.994 5754		963	
038	9.196 1471	476	9.201 5729	488	0.798 4271	9.994 5742	12	962	
039	9.196 1948	477	9.201 6218	489	0.798 3782	9.994 5730	12	961	
		476		488			12		
.040	9.196 2424		9.201 6706		0.798 3294	9.994 5718		***960**	
		477		489			12		
041	9.196 2901		9.201 7195		0.798 2805	9.994 5706		959	
042	9.196 3377	476	9.201 7683	488	0.798 2317	9.994 5694	12	958	
043	9.196 3853	476	9.201 8171	488	0.798 1829	9.994 5682	12	957	
		477		489			12		
044	9.196 4330		9.201 8660		0.798 1340	9.994 5670		956	
045	9.196 4806	476	9.201 9148	488	0.798 0852	9.994 5658	12	955	
046	9.196 5282	476	9.201 9636	488	0.798 0364	9.994 5646	12	954	
		476		488			12		
047	9.196 5758		9.202 0124		0.797 9876	9.994 5634		953	
048	9.196 6234	476	9.202 0612	488	0.797 9388	9.994 5621	13	952	
049	9.196 6710	476	9.202 1100	488	0.797 8900	9.994 5609	12	951	
		476		488			12		
.050	9.196 7186		9.202 1588		0.797 8412	9.994 5597		***950**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	491	490
1	49.1	49.0
2	98.2	98.0
3	147.3	147.0
4	196.4	196.0
5	245.5	245.0
6	294.6	294.0
7	343.7	343.0
8	392.8	392.0
9	441.9	441.0

	489	488
1	48.9	48.8
2	97.8	97.6
3	146.7	146.4
4	195.6	195.2
5	244.5	244.0
6	293.4	292.8
7	342.3	341.6
8	391.2	390.4
9	440.1	439.2

	479	478
1	47.9	47.8
2	95.8	95.6
3	143.7	143.4
4	191.6	191.2
5	239.5	239.0
6	287.4	286.8
7	335.3	334.6
8	383.2	382.4
9	431.1	430.2

	477	476
1	47.7	47.6
2	95.4	95.2
3	143.1	142.8
4	190.8	190.4
5	238.5	238.0
6	286.2	285.6
7	333.9	333.2
8	381.6	380.8
9	429.3	428.4

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$81^\circ.000 - 80^\circ.950$

$9^\circ.050 - 9^\circ.100$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.196 7186		9.202 1588		0.797 8412	9.994 5597		**.950**	
		476		488			12		
051	9.196 7662		9.202 2076		0.797 7924	9.994 5585		949	
052	9.196 8137	475	9.202 2564	488	0.797 7436	9.994 5573	12	948	
053	9.196 8613	476	9.202 3052	488	0.797 6948	9.994 5561	12	947	
		476		488			12		
054	9.196 9089		9.202 3540		0.797 6460	9.994 5549		946	
055	9.196 9565	476	9.202 4028	488	0.797 5972	9.994 5537	12	945	
056	9.197 0040	475	9.202 4515	487	0.797 5485	9.994 5525	12	944	
		476		488			12		
057	9.197 0516		9.202 5003		0.797 4997	9.994 5513		943	
058	9.197 0991	475	9.202 5490	487	0.797 4510	9.994 5501	12	942	
059	9.197 1467	476	9.202 5978	488	0.797 4022	9.994 5489	12	941	
		475		487			12		
.060	9.197 1942		9.202 6465		0.797 3535	9.994 5477		**.940**	
		475		488			13		
061	9.197 2417		9.202 6953		0.797 3047	9.994 5464		939	
062	9.197 2893	476	9.202 7440	487	0.797 2560	9.994 5452	12	938	
063	9.197 3368	475	9.202 7928	488	0.797 2072	9.994 5440	12	937	
		475		487			12		
064	9.197 3843		9.202 8415		0.797 1585	9.994 5428		936	
065	9.197 4318	475	9.202 8902	487	0.797 1098	9.994 5416	12	935	
066	9.197 4793	475	9.202 9389	487	0.797 0611	9.994 5404	12	934	
		475		487			12		
067	9.197 5268		9.202 9876		0.797 0124	9.994 5392		933	
068	9.197 5743	475	9.203 0363	487	0.796 9637	9.994 5380	12	932	
069	9.197 6218	475	9.203 0850	487	0.796 9150	9.994 5368	12	931	
		475		487			12		
.070	9.197 6693		9.203 1337		0.796 8663	9.994 5356		**.930**	
		475		487			13		
071	9.197 7168		9.203 1824		0.796 8176	9.994 5343		929	
072	9.197 7642	474	9.203 2311	487	0.796 7689	9.994 5331	12	928	
073	9.197 8117	475	9.203 2798	487	0.796 7202	9.994 5319	12	927	
		475		487			12		
074	9.197 8592		9.203 3285		0.796 6715	9.994 5307		926	
075	9.197 9066	474	9.203 3771	486	0.796 6229	9.994 5295	12	925	
076	9.197 9541	475	9.203 4258	487	0.796 5742	9.994 5283	12	924	
		474		486			12		
077	9.198 0015		9.203 4744		0.796 5256	9.994 5271		923	
078	9.198 0490	475	9.203 5231	487	0.796 4769	9.994 5259	12	922	
079	9.198 0964	474	9.203 5717	486	0.796 4283	9.994 5247	12	921	
		474		487			12		
.080	9.198 1438		9.203 6204		0.796 3796	9.994 5235		**.920**	
		475		486			13		
081	9.198 1913		9.203 6690		0.796 3310	9.994 5222		919	
082	9.198 2387	474	9.203 7177	487	0.796 2823	9.994 5210	12	918	
083	9.198 2861	474	9.203 7663	486	0.796 2337	9.994 5198	12	917	
		474		486			12		
084	9.198 3335		9.203 8149		0.796 1851	9.994 5186		916	
085	9.198 3809	474	9.203 8635	486	0.796 1365	9.994 5174	12	915	
086	9.198 4283	474	9.203 9121	486	0.796 0879	9.994 5162	12	914	
		474		486			12		
087	9.198 4757		9.203 9607		0.796 0393	9.994 5150		913	
088	9.198 5231	474	9.204 0093	486	0.795 9907	9.994 5138	12	912	
089	9.198 5705	474	9.204 0579	486	0.795 9421	9.994 5125	13	911	
		474		486			12		
.090	9.198 6179		9.204 1065		0.795 8935	9.994 5113		**.910**	
		473		486			12		
091	9.198 6652		9.204 1551		0.795 8449	9.994 5101		909	
092	9.198 7126	474	9.204 2037	486	0.795 7963	9.994 5089	12	908	
093	9.198 7600	474	9.204 2523	486	0.795 7477	9.994 5077	12	907	
		473		485			12		
094	9.198 8073		9.204 3008		0.795 6992	9.994 5065		906	
095	9.198 8547	474	9.204 3494	486	0.795 6506	9.994 5053	12	905	
096	9.198 9020	473	9.204 3980	486	0.795 6020	9.994 5041	12	904	
		474		485			13		
097	9.198 9494		9.204 4465		0.795 5535	9.994 5028		903	
098	9.198 9967	473	9.204 4951	486	0.795 5049	9.994 5016	12	902	
099	9.199 0440	473	9.204 5436	485	0.795 4564	9.994 5004	12	901	
		473		486			12		
.100	9.199 0913		9.204 5922		0.795 4078	9.994 4992		**.900**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	488	487
1	48.8	48.7
2	97.6	97.4
3	146.4	146.1
4	195.2	194.8
5	244.0	243.5
6	292.8	292.2
7	341.6	340.9
8	390.4	389.6
9	439.2	438.3

	486	485
1	48.6	48.5
2	97.2	97.0
3	145.8	145.5
4	194.4	194.0
5	243.0	242.5
6	291.6	291.0
7	340.2	339.5
8	388.8	388.0
9	437.4	436.5

	476	475
1	47.6	47.5
2	95.2	95.0
3	142.8	142.5
4	190.4	190.0
5	238.0	237.5
6	285.6	285.0
7	333.2	332.5
8	380.8	380.0
9	428.4	427.5

	474	473
1	47.4	47.3
2	94.8	94.6
3	142.2	141.9
4	189.6	189.2
5	237.0	236.5
6	284.4	283.8
7	331.8	331.1
8	379.2	378.4
9	426.6	425.7

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.950 - 80^\circ.900$

$9^\circ.100 - 9^\circ.150$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.199 0913		9.204 5922		0.795 4078	9.994 4992		**.900**	
		474		485			12		
101	9.199 1387		9.204 6407		0.795 3593	9.994 4980		899	
102	9.199 1860	473	9.204 6892	485	0.795 3108	9.994 4968	12	898	
103	9.199 2333	473	9.204 7377	485	0.795 2623	9.994 4956	12	897	
		473		486			13		
104	9.199 2806		9.204 7863		0.795 2137	9.994 4943		896	
105	9.199 3279	473	9.204 8348	485	0.795 1652	9.994 4931	12	895	
106	9.199 3752	473	9.204 8833	485	0.795 1167	9.994 4919	12	894	
		473		485			12		
107	9.199 4225		9.204 9318		0.795 0682	9.994 4907		893	
108	9.199 4698	473	9.204 9803	485	0.795 0197	9.994 4895	12	892	
109	9.199 5170	472	9.205 0288	485	0.794 9712	9.994 4883	12	891	
		473		485			13		
.110	9.199 5643		9.205 0773		0.794 9227	9.994 4870		**.890**	
		473		484			12		
111	9.199 6116		9.205 1257		0.794 8743	9.994 4858		889	
112	9.199 6588	472	9.205 1742	485	0.794 8258	9.994 4846	12	888	
113	9.199 7061	473	9.205 2227	485	0.794 7773	9.994 4834	12	887	
		472		485			12		
114	9.199 7533		9.205 2712		0.794 7288	9.994 4822		886	
115	9.199 8006	473	9.205 3196	484	0.794 6804	9.994 4810	12	885	
116	9.199 8478	472	9.205 3681	485	0.794 6319	9.994 4798	12	884	
		473		484			13		
117	9.199 8951		9.205 4165		0.794 5835	9.994 4785		883	
118	9.199 9423	472	9.205 4650	485	0.794 5350	9.994 4773	12	882	
119	9.199 9895	472	9.205 5134	484	0.794 4866	9.994 4761	12	881	
		472		485			12		
.120	9.200 0367		9.205 5619		0.794 4381	9.994 4749		**.880**	
		473		484			12		
121	9.200 0840		9.205 6103		0.794 3897	9.994 4737		879	
122	9.200 1312	472	9.205 6587	484	0.794 3413	9.994 4725	12	878	
123	9.200 1784	472	9.205 7071	484	0.794 2929	9.994 4712	13	877	
		472		485			12		
124	9.200 2256		9.205 7556		0.794 2444	9.994 4700		876	
125	9.200 2728	472	9.205 8040	484	0.794 1960	9.994 4688	12	875	
126	9.200 3200	472	9.205 8524	484	0.794 1476	9.994 4676	12	874	
		471		484			12		
127	9.200 3671		9.205 9008		0.794 0992	9.994 4664		873	
128	9.200 4143	472	9.205 9492	484	0.794 0508	9.994 4651	13	872	
129	9.200 4615	472	9.205 9976	484	0.794 0024	9.994 4639	12	871	
		472		483			12		
.130	9.200 5087		9.206 0459		0.793 9541	9.994 4627		**.870**	
		471		484			12		
131	9.200 5558		9.206 0943		0.793 9057	9.994 4615		869	
132	9.200 6030	472	9.206 1427	484	0.793 8573	9.994 4603	12	868	
133	9.200 6501	471	9.206 1911	484	0.793 8089	9.994 4591	12	867	
		472		483			13		
134	9.200 6973		9.206 2394		0.793 7606	9.994 4578		866	
135	9.200 7444	471	9.206 2878	484	0.793 7122	9.994 4566	12	865	
136	9.200 7915	471	9.206 3361	483	0.793 6639	9.994 4554	12	864	
		472		484			12		
137	9.200 8387		9.206 3845		0.793 6155	9.994 4542		863	
138	9.200 8858	471	9.206 4328	483	0.793 5672	9.994 4530	12	862	
139	9.200 9329	471	9.206 4812	484	0.793 5188	9.994 4517	13	861	
		471		483			12		
.140	9.200 9800		9.206 5295		0.793 4705	9.994 4505		**.860**	
		471		483			12		
141	9.201 0271		9.206 5778		0.793 4222	9.994 4493		859	
142	9.201 0743	472	9.206 6262	484	0.793 3738	9.994 4481	12	858	
143	9.201 1214	471	9.206 6745	483	0.793 3255	9.994 4469	12	857	
		470		483			13		
144	9.201 1684		9.206 7228		0.793 2772	9.994 4456		856	
145	9.201 2155	471	9.206 7711	483	0.793 2289	9.994 4444	12	855	
146	9.201 2626	471	9.206 8194	483	0.793 1806	9.994 4432	12	854	
		471		483			12		
147	9.201 3097		9.206 8677		0.793 1323	9.994 4420		853	
148	9.201 3568	471	9.206 9160	483	0.793 0840	9.994 4408	12	852	
149	9.201 4038	470	9.206 9643	483	0.793 0357	9.994 4395	13	851	
		471		483			12		
.150	9.201 4509		9.207 0126		0.792 9874	9.994 4383		**.850**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	486	485	484
1	48.6	48.5	48.4
2	97.2	97.0	96.8
3	145.8	145.5	145.2
4	194.4	194.0	193.6
5	243.0	242.5	242.0
6	291.6	291.0	290.4
7	340.2	339.5	338.8
8	388.8	388.0	387.2
9	437.4	436.5	435.6

	483	474	473
1	48.3	47.4	47.3
2	96.6	94.8	94.6
3	144.9	142.2	141.9
4	193.2	189.6	189.2
5	241.5	237.0	236.5
6	289.8	284.4	283.8
7	338.1	331.8	331.1
8	386.4	379.2	378.4
9	434.7	426.6	425.7

	472	471	470
1	47.2	47.1	47.0
2	94.4	94.2	94.0
3	141.6	141.3	141.0
4	188.8	188.4	188.0
5	236.0	235.5	235.0
6	283.2	282.6	282.0
7	330.4	329.7	329.0
8	377.6	376.8	376.0
9	424.8	423.9	423.0

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.900 - 80^\circ.850$

$9^\circ.150 - 9^\circ.200$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.201 4509		9.207 0126		0.792 9874	9.994 4383		.850	
		471		483			12		
151	9.201 4980		9.207 0609		0.792 9391	9.994 4371		849	
152	9.201 5450	470	9.207 1091	482	0.792 8909	9.994 4359	12	848	
153	9.201 5921	471	9.207 1574	483	0.792 8426	9.994 4347	12	847	
		470		483			13		
154	9.201 6391		9.207 2057		0.792 7943	9.994 4334		846	
155	9.201 6861	470	9.207 2539	482	0.792 7461	9.994 4322	12	845	
156	9.201 7332	471	9.207 3022	483	0.792 6978	9.994 4310	12	844	
		470		482			12		
157	9.201 7802		9.207 3504		0.792 6496	9.994 4298		843	
158	9.201 8272	470	9.207 3987	483	0.792 6013	9.994 4285	13	842	
159	9.201 8742	470	9.207 4469	482	0.792 5531	9.994 4273	12	841	
		470		482			12		
.160	9.201 9212		9.207 4951		0.792 5049	9.994 4261		.840	
		470		483			12		
161	9.201 9682		9.207 5434		0.792 4566	9.994 4249		839	
162	9.202 0152	470	9.207 5916	482	0.792 4084	9.994 4237	12	838	
163	9.202 0622	470	9.207 6398	482	0.792 3602	9.994 4224	13	837	
		470		482			12		
164	9.202 1092		9.207 6880		0.792 3120	9.994 4212		836	
165	9.202 1562	470	9.207 7362	482	0.792 2638	9.994 4200	12	835	
166	9.202 2032	470	9.207 7844	482	0.792 2156	9.994 4188	12	834	
		470		482			13		
167	9.202 2502		9.207 8326		0.792 1674	9.994 4175		833	
168	9.202 2971	469	9.207 8808	482	0.792 1192	9.994 4163	12	832	
169	9.202 3441	470	9.207 9290	482	0.792 0710	9.994 4151	12	831	
		469		482			12		
.170	9.202 3910		9.207 9772		0.792 0228	9.994 4139		.830	
		470		481			12		
171	9.202 4380		9.208 0253		0.791 9747	9.994 4127		829	
172	9.202 4849	469	9.208 0735	482	0.791 9265	9.994 4114	13	828	
173	9.202 5319	470	9.208 1217	482	0.791 8783	9.994 4102	12	827	
		469		481			12		
174	9.202 5788		9.208 1698		0.791 8302	9.994 4090		826	
175	9.202 6258	470	9.208 2180	482	0.791 7820	9.994 4078	12	825	
176	9.202 6727	469	9.208 2662	482	0.791 7338	9.994 4065	13	824	
		469		481			12		
177	9.202 7196		9.208 3143		0.791 6857	9.994 4053		823	
178	9.202 7665	469	9.208 3624	481	0.791 6376	9.994 4041	12	822	
179	9.202 8134	469	9.208 4106	482	0.791 5894	9.994 4029	12	821	
		469		481			13		
.180	9.202 8603		9.208 4587		0.791 5413	9.994 4016		.820	
		469		481			12		
181	9.202 9072		9.208 5068		0.791 4932	9.994 4004		819	
182	9.202 9541	469	9.208 5550	482	0.791 4450	9.994 3992	12	818	
183	9.203 0010	469	9.208 6031	481	0.791 3969	9.994 3980	12	817	
		469		481			13		
184	9.203 0479		9.208 6512		0.791 3488	9.994 3967		816	
185	9.203 0948	469	9.208 6993	481	0.791 3007	9.994 3955	12	815	
186	9.203 1417	469	9.208 7474	481	0.791 2526	9.994 3943	12	814	
		468		481			12		
187	9.203 1885		9.208 7955		0.791 2045	9.994 3931		813	
188	9.203 2354	469	9.208 8436	481	0.791 1564	9.994 3918	13	812	
189	9.203 2823	469	9.208 8917	481	0.791 1083	9.994 3906	12	811	
		468		480			12		
.190	9.203 3291		9.208 9397		0.791 0603	9.994 3894		.810	
		469		481			12		
191	9.203 3760		9.208 9878		0.791 0122	9.994 3882		809	
192	9.203 4228	468	9.209 0359	481	0.790 9641	9.994 3869	13	808	
193	9.203 4696	468	9.209 0839	480	0.790 9161	9.994 3857	12	807	
		469		481			12		
194	9.203 5165		9.209 1320		0.790 8680	9.994 3845		806	
195	9.203 5633	468	9.209 1801	481	0.790 8199	9.994 3832	13	805	
196	9.203 6101	468	9.209 2281	480	0.790 7719	9.994 3820	12	804	
		468		481			12		
197	9.203 6569		9.209 2762		0.790 7238	9.994 3808		803	
198	9.203 7038	469	9.209 3242	480	0.790 6758	9.994 3796	12	802	
199	9.203 7506	468	9.209 3722	480	0.790 6278	9.994 3783	13	801	
		468		481			12		
.200	9.203 7974		9.209 4203		0.790 5797	9.994 3771		.800	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	483	482
1	48.3	48.2
2	96.6	96.4
3	144.9	144.6
4	193.2	192.8
5	241.5	241.0
6	289.8	289.2
7	338.1	337.4
8	386.4	385.6
9	434.7	433.8

	481	480
1	48.1	48.0
2	96.2	96.0
3	144.3	144.0
4	192.4	192.0
5	240.5	240.0
6	288.6	288.0
7	336.7	336.0
8	384.8	384.0
9	432.9	432.0

	471	470
1	47.1	47.0
2	94.2	94.0
3	141.3	141.0
4	188.4	188.0
5	235.5	235.0
6	282.6	282.0
7	329.7	329.0
8	376.8	376.0
9	423.9	423.0

	469	468
1	46.9	46.8
2	93.8	93.6
3	140.7	140.4
4	187.6	187.2
5	234.5	234.0
6	281.4	280.8
7	328.3	327.6
8	375.2	374.4
9	422.1	421.2

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.850 - 80^\circ.800$

$9^\circ.200 - 9^\circ.250$

9°	sin	d	tang	d	cotg	cos	d	
.200	9.203 7974		9.209 4203		0.790 5797	9.994 3771		**.800**
		468		480			12	
201	9.203 8442	468	9.209 4683	480	0.790 5317	9.994 3759	12	799
202	9.203 8910	467	9.209 5163	480	0.790 4837	9.994 3747	13	798
203	9.203 9377	468	9.209 5643	480	0.790 4357	9.994 3734	12	797
204	9.203 9845	468	9.209 6123	480	0.790 3877	9.994 3722	12	796
205	9.204 0313	468	9.209 6603	480	0.790 3397	9.994 3710	13	795
206	9.204 0781	467	9.209 7083	480	0.790 2917	9.994 3697	12	794
207	9.204 1248	468	9.209 7563	480	0.790 2437	9.994 3685	12	793
208	9.204 1716	468	9.209 8043	480	0.790 1957	9.994 3673	12	792
209	9.204 2184	467	9.209 8523	480	0.790 1477	9.994 3661	13	791
.210	9.204 2651	467	9.209 9003	480	0.790 0997	9.994 3648	12	**.790**
211	9.204 3118	468	9.209 9483	479	0.790 0517	9.994 3636	12	789
212	9.204 3586	467	9.209 9962	480	0.790 0038	9.994 3624	13	788
213	9.204 4053	468	9.210 0442	479	0.789 9558	9.994 3611	12	787
214	9.204 4521	467	9.210 0921	480	0.789 9079	9.994 3599	12	786
215	9.204 4988	467	9.210 1401	479	0.789 8599	9.994 3587	13	785
216	9.204 5455	467	9.210 1880	480	0.789 8120	9.994 3574	12	784
217	9.204 5922	467	9.210 2360	479	0.789 7640	9.994 3562	12	783
218	9.204 6389	467	9.210 2839	480	0.789 7161	9.994 3550	12	782
219	9.204 6856	467	9.210 3319	479	0.789 6681	9.994 3538	13	781
.220	9.204 7323	467	9.210 3798	479	0.789 6202	9.994 3525	12	**.780**
221	9.204 7790	467	9.210 4277	479	0.789 5723	9.994 3513	12	779
222	9.204 8257	467	9.210 4756	480	0.789 5244	9.994 3501	13	778
223	9.204 8724	467	9.210 5236	479	0.789 4764	9.994 3488	12	777
224	9.204 9191	466	9.210 5715	479	0.789 4285	9.994 3476	12	776
225	9.204 9657	467	9.210 6194	479	0.789 3806	9.994 3464	13	775
226	9.205 0124	467	9.210 6673	479	0.789 3327	9.994 3451	12	774
227	9.205 0591	466	9.210 7152	478	0.789 2848	9.994 3439	12	773
228	9.205 1057	467	9.210 7630	479	0.789 2370	9.994 3427	13	772
229	9.205 1524	466	9.210 8109	479	0.789 1891	9.994 3414	12	771
.230	9.205 1990	467	9.210 8588	479	0.789 1412	9.994 3402	12	**.770**
231	9.205 2457	466	9.210 9067	479	0.789 0933	9.994 3390	12	769
232	9.205 2923	466	9.210 9546	478	0.789 0454	9.994 3378	13	768
233	9.205 3389	467	9.211 0024	479	0.788 9976	9.994 3365	12	767
234	9.205 3856	466	9.211 0503	478	0.788 9497	9.994 3353	12	766
235	9.205 4322	466	9.211 0981	479	0.788 9019	9.994 3341	13	765
236	9.205 4788	466	9.211 1460	478	0.788 8540	9.994 3328	12	764
237	9.205 5254	466	9.211 1938	479	0.788 8062	9.994 3316	12	763
238	9.205 5720	466	9.211 2417	478	0.788 7583	9.994 3304	13	762
239	9.205 6186	466	9.211 2895	478	0.788 7105	9.994 3291	12	761
.240	9.205 6652	466	9.211 3373	479	0.788 6627	9.994 3279	12	**.760**
241	9.205 7118	466	9.211 3852	478	0.788 6148	9.994 3267	13	759
242	9.205 7584	466	9.211 4330	478	0.788 5670	9.994 3254	12	758
243	9.205 8050	466	9.211 4808	478	0.788 5192	9.994 3242	12	757
244	9.205 8516	465	9.211 5286	478	0.788 4714	9.994 3230	13	756
245	9.205 8981	466	9.211 5764	478	0.788 4236	9.994 3217	12	755
246	9.205 9447	465	9.211 6242	478	0.788 3758	9.994 3205	12	754
247	9.205 9912	466	9.211 6720	478	0.788 3280	9.994 3193	13	753
248	9.206 0378	466	9.211 7198	478	0.788 2802	9.994 3180	12	752
249	9.206 0844	465	9.211 7676	477	0.788 2324	9.994 3168	12	751
.250	9.206 1309		9.211 8153		0.788 1847	9.994 3156		**.750**
	cos	d	cotg	d	tang	sin	d	80°

P.P.

	480	479
1	48.0	47.9
2	96.0	95.8
3	144.0	143.7
4	192.0	191.6
5	240.0	239.5
6	288.0	287.4
7	336.0	335.3
8	384.0	383.2
9	432.0	431.1

	478	477
1	47.8	47.7
2	95.6	95.4
3	143.4	143.1
4	191.2	190.8
5	239.0	238.5
6	286.8	286.2
7	334.6	333.9
8	382.4	381.6
9	430.2	429.3

	468	467
1	46.8	46.7
2	93.6	93.4
3	140.4	140.1
4	187.2	186.8
5	234.0	233.5
6	280.8	280.2
7	327.6	326.9
8	374.4	373.6
9	421.2	420.3

	466	465
1	46.6	46.5
2	93.2	93.0
3	139.8	139.5
4	186.4	186.0
5	233.0	232.5
6	279.6	279.0
7	326.2	325.5
8	372.8	372.0
9	419.4	418.5

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.800 - 80^\circ.750$

$9^\circ.250 - 9^\circ.300$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.206 1309		9.211 8153		0.788 1847	9.994 3156		**.750**	
		465		478			13		
251	9.206 1774		9.211 8631		0.788 1369	9.994 3143		749	
252	9.206 2240	466	9.211 9109	478	0.788 0891	9.994 3131	12	748	
253	9.206 2705	465	9.211 9586	477	0.788 0414	9.994 3118	13	747	
		465		478			12		
254	9.206 3170		9.212 0064		0.787 9936	9.994 3106		746	
255	9.206 3635	465	9.212 0542	478	0.787 9458	9.994 3094	12	745	
256	9.206 4101	466	9.212 1019	477	0.787 8981	9.994 3081	13	744	
		465		478			12		
257	9.206 4566		9.212 1497		0.787 8503	9.994 3069		743	
258	9.206 5031	465	9.212 1974	477	0.787 8026	9.994 3057	12	742	
259	9.206 5496	465	9.212 2451	477	0.787 7549	9.994 3044	13	741	
		465		478			12		
.260	9.206 5961		9.212 2929		0.787 7071	9.994 3032		**.740**	
		464		477			12		
261	9.206 6425		9.212 3406		0.787 6594	9.994 3020		739	
262	9.206 6890	465	9.212 3883	477	0.787 6117	9.994 3007	13	738	
263	9.206 7355	465	9.212 4360	477	0.787 5640	9.994 2995	12	737	
		465		477			12		
264	9.206 7820		9.212 4837		0.787 5163	9.994 2983		736	
265	9.206 8285	465	9.212 5314	477	0.787 4686	9.994 2970	13	735	
266	9.206 8749	464	9.212 5791	477	0.787 4209	9.994 2958	12	734	
		465		477			13		
267	9.206 9214		9.212 6268		0.787 3732	9.994 2945		733	
268	9.206 9678	464	9.212 6745	477	0.787 3255	9.994 2933	12	732	
269	9.207 0143	465	9.212 7222	477	0.787 2778	9.994 2921	12	731	
		464		477			13		
.270	9.207 0607		9.212 7699		0.787 2301	9.994 2908		**.730**	
		465		477			12		
271	9.207 1072		9.212 8176		0.787 1824	9.994 2896		729	
272	9.207 1536	464	9.212 8652	476	0.787 1348	9.994 2884	12	728	
273	9.207 2000	464	9.212 9129	477	0.787 0871	9.994 2871	13	727	
		464		476			12		
274	9.207 2464		9.212 9605		0.787 0395	9.994 2859		726	
275	9.207 2929	465	9.213 0082	477	0.786 9918	9.994 2846	13	725	
276	9.207 3393	464	9.213 0559	477	0.786 9441	9.994 2834	12	724	
		464		476			12		
277	9.207 3857		9.213 1035		0.786 8965	9.994 2822		723	
278	9.207 4321	464	9.213 1511	476	0.786 8489	9.994 2809	13	722	
279	9.207 4785	464	9.213 1988	477	0.786 8012	9.994 2797	12	721	
		464		476			12		
.280	9.207 5249		9.213 2464		0.786 7536	9.994 2785		**.720**	
		463		476			13		
281	9.207 5712		9.213 2940		0.786 7060	9.994 2772		719	
282	9.207 6176	464	9.213 3416	476	0.786 6584	9.994 2760	12	718	
283	9.207 6640	464	9.213 3893	477	0.786 6107	9.994 2747	13	717	
		464		476			12		
284	9.207 7104		9.213 4369		0.786 5631	9.994 2735		716	
285	9.207 7567	463	9.213 4845	476	0.786 5155	9.994 2723	12	715	
286	9.207 8031	464	9.213 5321	476	0.786 4679	9.994 2710	13	714	
		464		476			12		
287	9.207 8495		9.213 5797		0.786 4203	9.994 2698		713	
288	9.207 8958	463	9.213 6273	476	0.786 3727	9.994 2685	13	712	
289	9.207 9422	464	9.213 6748	475	0.786 3252	9.994 2673	12	711	
		463		476			12		
.290	9.207 9885		9.213 7224		0.786 2776	9.994 2661		**.710**	
		463		476			13		
291	9.208 0348		9.213 7700		0.786 2300	9.994 2648		709	
292	9.208 0812	464	9.213 8176	476	0.786 1824	9.994 2636	12	708	
293	9.208 1275	463	9.213 8651	475	0.786 1349	9.994 2623	13	707	
		463		476			12		
294	9.208 1738		9.213 9127		0.786 0873	9.994 2611		706	
295	9.208 2201	463	9.213 9603	476	0.786 0397	9.994 2599	12	705	
296	9.208 2664	463	9.214 0078	475	0.785 9922	9.994 2586	13	704	
		463		476			12		
297	9.208 3127		9.214 0554		0.785 9446	9.994 2574		703	
298	9.208 3590	463	9.214 1029	475	0.785 8971	9.994 2561	13	702	
299	9.208 4053	463	9.214 1504	475	0.785 8496	9.994 2549	12	701	
		463		476			12		
.300	9.208 4516		9.214 1980		0.785 8020	9.994 2537		**.700**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	478	477
1	47.8	47.7
2	95.6	95.4
3	143.4	143.1
4	191.2	190.8
5	239.0	238.5
6	286.8	286.2
7	334.6	333.9
8	382.4	381.6
9	430.2	429.3

	476	475
1	47.6	47.5
2	95.2	95.0
3	142.8	142.5
4	190.4	190.0
5	238.0	237.5
6	285.6	285.0
7	333.2	332.5
8	380.8	380.0
9	428.4	427.5

	466	465
1	46.6	46.5
2	93.2	93.0
3	139.8	139.5
4	186.4	186.0
5	233.0	232.5
6	279.6	279.0
7	326.2	325.5
8	372.8	372.0
9	419.4	418.5

	464	463
1	46.4	46.3
2	92.8	92.6
3	139.2	138.9
4	185.6	185.2
5	232.0	231.5
6	278.4	277.8
7	324.8	324.1
8	371.2	370.4
9	417.6	416.7

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.750 - 80^\circ.700$

9°.300 — 9°.350

9°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.208 4516		9.214 1980		0.785 8020	9.994 2537		.700	
		463		475			13		
301	9.208 4979		9.214 2455		0.785 7545	9.994 2524		699	
302	9.208 5442	463	9.214 2930	475	0.785 7070	9.994 2512	12	698	
303	9.208 5905	463	9.214 3405	475	0.785 6595	9.994 2499	13	697	
		462		475			12		
304	9.208 6367		9.214 3880		0.785 6120	9.994 2487		696	
305	9.208 6830	463	9.214 4355	475	0.785 5645	9.994 2475	12	695	
306	9.208 7293	463	9.214 4830	475	0.785 5170	9.994 2462	13	694	
		462		475			12		
307	9.208 7755		9.214 5305		0.785 4695	9.994 2450		693	
308	9.208 8218	463	9.214 5780	475	0.785 4220	9.994 2437	13	692	
309	9.208 8680	462	9.214 6255	475	0.785 3745	9.994 2425	12	691	
		462		475			13		
.310	9.208 9142		9.214 6730		0.785 3270	9.994 2412		.690	
		463		475			12		
311	9.208 9605		9.214 7205		0.785 2795	9.994 2400		689	
312	9.209 0067	462	9.214 7680	475	0.785 2320	9.994 2388	12	688	
313	9.209 0529	462	9.214 8154	474	0.785 1846	9.994 2375	13	687	
		463		475			12		
314	9.209 0992		9.214 8629		0.785 1371	9.994 2363		686	
315	9.209 1454	462	9.214 9103	474	0.785 0897	9.994 2350	13	685	
316	9.209 1916	462	9.214 9578	475	0.785 0422	9.994 2338	12	684	
		462		474			13		
317	9.209 2378		9.215 0052		0.784 9948	9.994 2325		683	
318	9.209 2840	462	9.215 0527	475	0.784 9473	9.994 2313	12	682	
319	9.209 3302	462	9.215 1001	474	0.784 8999	9.994 2301	12	681	
		462		475			13		
.320	9.209 3764		9.215 1476		0.784 8524	9.994 2288		.680	
		461		474			12		
321	9.209 4225		9.215 1950		0.784 8050	9.994 2276		679	
322	9.209 4687	462	9.215 2424	474	0.784 7576	9.994 2263	13	678	
323	9.209 5149	462	9.215 2898	474	0.784 7102	9.994 2251	12	677	
		462		474			13		
324	9.209 5611		9.215 3372		0.784 6628	9.994 2238		676	
325	9.209 6072	461	9.215 3846	474	0.784 6154	9.994 2226	12	675	
326	9.209 6534	462	9.215 4320	474	0.784 5680	9.994 2213	13	674	
		461		474			12		
327	9.209 6995		9.215 4794		0.784 5206	9.994 2201		673	
328	9.209 7457	462	9.215 5268	474	0.784 4732	9.994 2189	12	672	
329	9.209 7918	461	9.215 5742	474	0.784 4258	9.994 2176	13	671	
		462		474			12		
.330	9.209 8380		9.215 6216		0.784 3784	9.994 2164		.670	
		461		474			13		
331	9.209 8841		9.215 6690		0.784 3310	9.994 2151		669	
332	9.209 9302	461	9.215 7164	474	0.784 2836	9.994 2139	12	668	
333	9.209 9764	462	9.215 7637	473	0.784 2363	9.994 2126	13	667	
		461		474			12		
334	9.210 0225		9.215 8111		0.784 1889	9.994 2114		666	
335	9.210 0686	461	9.215 8585	474	0.784 1415	9.994 2101	13	665	
336	9.210 1147	461	9.215 9058	473	0.784 0942	9.994 2089	12	664	
		461		474			13		
337	9.210 1608		9.215 9532		0.784 0468	9.994 2076		663	
338	9.210 2069	461	9.216 0005	473	0.783 9995	9.994 2064	12	662	
339	9.210 2530	461	9.216 0478	473	0.783 9522	9.994 2051	13	661	
		461		474			12		
.340	9.210 2991		9.216 0952		0.783 9048	9.994 2039		.660	
		461		473			12		
341	9.210 3452		9.216 1425		0.783 8575	9.994 2027		659	
342	9.210 3912	460	9.216 1898	473	0.783 8102	9.994 2014	13	658	
343	9.210 4373	461	9.216 2372	474	0.783 7628	9.994 2002	12	657	
		461		473			13		
344	9.210 4834		9.216 2845		0.783 7155	9.994 1989		656	
345	9.210 5295	461	9.216 3318	473	0.783 6682	9.994 1977	12	655	
346	9.210 5755	460	9.216 3791	473	0.783 6209	9.994 1964	13	654	
		461		473			12		
347	9.210 6216		9.216 4264		0.783 5736	9.994 1952		653	
348	9.210 6676	460	9.216 4737	473	0.783 5263	9.994 1939	13	652	
349	9.210 7137	461	9.216 5210	473	0.783 4790	9.994 1927	12	651	
		460		473			13		
.350	9.210 7597		9.216 5683		0.783 4317	9.994 1914		.650	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	475	474
1	47.5	47.4
2	95.0	94.8
3	142.5	142.2
4	190.0	189.6
5	237.5	237.0
6	285.0	284.4
7	332.5	331.8
8	380.0	379.2
9	427.5	426.6

	473	463
1	47.3	46.3
2	94.6	92.6
3	141.9	138.9
4	189.2	185.2
5	236.5	231.5
6	283.8	277.8
7	331.1	324.1
8	378.4	370.4
9	425.7	416.7

	462	461
1	46.2	46.1
2	92.4	92.2
3	138.6	138.3
4	184.8	184.4
5	231.0	230.5
6	277.2	276.6
7	323.4	322.7
8	369.6	368.8
9	415.8	414.9

	460	13
1	46.0	1.3
2	92.0	2.6
3	138.0	3.9
4	184.0	5.2
5	230.0	6.5
6	276.0	7.8
7	322.0	9.1
8	368.0	10.4
9	414.0	11.7

	12
1	1.2
2	2.4
3	3.6
4	4.8
5	6.0
6	7.2
7	8.4
8	9.6
9	10.8

80°.700 — 80°.650

$9^\circ.350 - 9^\circ.400$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.210 7597		9.216 5683		0.783 4317	9.994 1914		**.650**	
		460		472			12		
351	9.210 8057		9.216 6155		0.783 3845	9.994 1902		649	
352	9.210 8518	461	9.216 6628	473	0.783 3372	9.994 1889	13	648	
353	9.210 8978	460	9.216 7101	473	0.783 2899	9.994 1877	12	647	
		460		473			13		
354	9.210 9438		9.216 7574		0.783 2426	9.994 1864		646	
355	9.210 9898	460	9.216 8046	472	0.783 1954	9.994 1852	12	645	
356	9.211 0358	460	9.216 8519	473	0.783 1481	9.994 1839	13	644	
		460		472			12		
357	9.211 0818		9.216 8991		0.783 1009	9.994 1827		643	
358	9.211 1278	460	9.216 9464	473	0.783 0536	9.994 1814	13	642	
359	9.211 1738	460	9.216 9936	472	0.783 0064	9.994 1802	12	641	
		460		473			13		
.360	9.211 2198		9.217 0409		0.782 9591	9.994 1789		**.640**	
		460		472			12		
361	9.211 2658		9.217 0881		0.782 9119	9.994 1777		639	
362	9.211 3118	460	9.217 1353	472	0.782 8647	9.994 1764	13	638	
363	9.211 3577	459	9.217 1825	472	0.782 8175	9.994 1752	12	637	
		460		473			13		
364	9.211 4037		9.217 2298		0.782 7702	9.994 1739		636	
365	9.211 4497	460	9.217 2770	472	0.782 7230	9.994 1727	12	635	
366	9.211 4956	459	9.217 3242	472	0.782 6758	9.994 1714	13	634	
		460		472			12		
367	9.211 5416		9.217 3714		0.782 6286	9.994 1702		633	
368	9.211 5875	459	9.217 4186	472	0.782 5814	9.994 1689	13	632	
369	9.211 6335	460	9.217 4658	472	0.782 5342	9.994 1677	12	631	
		459		472			13		
.370	9.211 6794		9.217 5130		0.782 4870	9.994 1664		**.630**	
		459		471			12		
371	9.211 7253		9.217 5601		0.782 4399	9.994 1652		629	
372	9.211 7713	460	9.217 6073	472	0.782 3927	9.994 1639	13	628	
373	9.211 8172	459	9.217 6545	472	0.782 3455	9.994 1627	12	627	
		459		472			13		
374	9.211 8631		9.217 7017		0.782 2983	9.994 1614		626	
375	9.211 9090	459	9.217 7488	471	0.782 2512	9.994 1602	12	625	
376	9.211 9549	459	9.217 7960	472	0.782 2040	9.994 1589	13	624	
		459		471			12		
377	9.212 0008		9.217 8431		0.782 1569	9.994 1577		623	
378	9.212 0467	459	9.217 8903	472	0.782 1097	9.994 1564	13	622	
379	9.212 0926	459	9.217 9374	471	0.782 0626	9.994 1552	12	621	
		459		472			13		
.380	9.212 1385		9.217 9846		0.782 0154	9.994 1539		**.620**	
		459		471			12		
381	9.212 1844		9.218 0317		0.781 9683	9.994 1527		619	
382	9.212 2303	459	9.218 0788	471	0.781 9212	9.994 1514	13	618	
383	9.212 2761	458	9.218 1260	472	0.781 8740	9.994 1502	12	617	
		459		471			13		
384	9.212 3220		9.218 1731		0.781 8269	9.994 1489		616	
385	9.212 3679	459	9.218 2202	471	0.781 7798	9.994 1477	12	615	
386	9.212 4137	458	9.218 2673	471	0.781 7327	9.994 1464	13	614	
		459		471			12		
387	9.212 4596		9.218 3144		0.781 6856	9.994 1452		613	
388	9.212 5054	458	9.218 3615	471	0.781 6385	9.994 1439	13	612	
389	9.212 5513	459	9.218 4086	471	0.781 5914	9.994 1427	12	611	
		458		471			13		
.390	9.212 5971		9.218 4557		0.781 5443	9.994 1414		**.610**	
		458		471			13		
391	9.212 6429		9.218 5028		0.781 4972	9.994 1401		609	
392	9.212 6888	459	9.218 5499	471	0.781 4501	9.994 1389	12	608	
393	9.212 7346	458	9.218 5970	471	0.781 4030	9.994 1376	13	607	
		458		470			12		
394	9.212 7804		9.218 6440		0.781 3560	9.994 1364		606	
395	9.212 8262	458	9.218 6911	471	0.781 3089	9.994 1351	13	605	
396	9.212 8720	458	9.218 7382	471	0.781 2618	9.994 1339	12	604	
		458		470			13		
397	9.212 9178		9.218 7852		0.781 2148	9.994 1326		603	
398	9.212 9636	458	9.218 8323	471	0.781 1677	9.994 1314	12	602	
399	9.213 0094	458	9.218 8793	470	0.781 1207	9.994 1301	13	601	
		458		471			12		
.400	9.213 0552		9.218 9264		0.781 0736	9.994 1289		**.600**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	473	472
1	47.3	47.2
2	94.6	94.4
3	141.9	141.6
4	189.2	188.8
5	236.5	236.0
6	283.8	283.2
7	331.1	330.4
8	378.4	377.6
9	425.7	424.8

	471	470
1	47.1	47.0
2	94.2	94.0
3	141.3	141.0
4	188.4	188.0
5	235.5	235.0
6	282.6	282.0
7	329.7	329.0
8	376.8	376.0
9	423.9	423.0

	461	460
1	46.1	46.0
2	92.2	92.0
3	138.3	138.0
4	184.4	184.0
5	230.5	230.0
6	276.6	276.0
7	322.7	322.0
8	368.8	368.0
9	414.9	414.0

	459	458
1	45.9	45.8
2	91.8	91.6
3	137.7	137.4
4	183.6	183.2
5	229.5	229.0
6	275.4	274.8
7	321.3	320.6
8	367.2	366.4
9	413.1	412.2

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.650 - 80^\circ.600$

9°.400 — 9°.450

9°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.213 0552		9.218 9264		0.781 0736	9.994 1289		.600	
		458		470			13		
401	9.213 1010		9.218 9734		0.781 0266	9.994 1276		599	
402	9.213 1468	458	9.219 0204	470	0.780 9796	9.994 1263	13	598	
403	9.213 1926	458	9.219 0675	471	0.780 9325	9.994 1251	12	597	
		457		470			13		
404	9.213 2383		9.219 1145		0.780 8855	9.994 1238		596	
405	9.213 2841	458	9.219 1615	470	0.780 8385	9.994 1226	12	595	
406	9.213 3299	458	9.219 2085	470	0.780 7915	9.994 1213	13	594	
		457		470			12		
407	9.213 3756		9.219 2555		0.780 7445	9.994 1201		593	
408	9.213 4214	458	9.219 3025	470	0.780 6975	9.994 1188	13	592	
409	9.213 4671	457	9.219 3495	470	0.780 6505	9.994 1176	12	591	
		457		470			13		
.410	9.213 5128		9.219 3965		0.780 6035	9.994 1163		.590	
		458		470			13		
411	9.213 5586		9.219 4435		0.780 5565	9.994 1150		589	
412	9.213 6043	457	9.219 4905	470	0.780 5095	9.994 1138	12	588	
413	9.213 6500	457	9.219 5375	470	0.780 4625	9.994 1125	13	587	
		457		470			12		
414	9.213 6957		9.219 5845		0.780 4155	9.994 1113		586	
415	9.213 7415	458	9.219 6314	469	0.780 3686	9.994 1100	13	585	
416	9.213 7872	457	9.219 6784	470	0.780 3216	9.994 1088	12	584	
		457		470			13		
417	9.213 8329		9.219 7254		0.780 2746	9.994 1075		583	
418	9.213 8786	457	9.219 7723	469	0.780 2277	9.994 1062	13	582	
419	9.213 9243	457	9.219 8193	470	0.780 1807	9.994 1050	12	581	
		457		469			13		
.420	9.213 9700		9.219 8662		0.780 1338	9.994 1037		.580	
		456		470			12		
421	9.214 0156		9.219 9132		0.780 0868	9.994 1025		579	
422	9.214 0613	457	9.219 9601	469	0.780 0399	9.994 1012	13	578	
423	9.214 1070	457	9.220 0070	469	0.779 9930	9.994 1000	12	577	
		457		470			13		
424	9.214 1527		9.220 0540		0.779 9460	9.994 0987		576	
425	9.214 1983	456	9.220 1009	469	0.779 8991	9.994 0974	13	575	
426	9.214 2440	457	9.220 1478	469	0.779 8522	9.994 0962	12	574	
		457		469			13		
427	9.214 2897		9.220 1947		0.779 8053	9.994 0949		573	
428	9.214 3353	456	9.220 2416	469	0.779 7584	9.994 0937	12	572	
429	9.214 3809	456	9.220 2885	469	0.779 7115	9.994 0924	13	571	
		457		469			12		
.430	9.214 4266		9.220 3354		0.779 6646	9.994 0912		.570	
		456		469			13		
431	9.214 4722		9.220 3823		0.779 6177	9.994 0899		569	
432	9.214 5179	457	9.220 4292	469	0.779 5708	9.994 0886	13	568	
433	9.214 5635	456	9.220 4761	469	0.779 5239	9.994 0874	12	567	
		456		469			13		
434	9.214 6091		9.220 5230		0.779 4770	9.994 0861		566	
435	9.214 6547	456	9.220 5699	469	0.779 4301	9.994 0849	12	565	
436	9.214 7003	456	9.220 6167	468	0.779 3833	9.994 0836	13	564	
		456		469			13		
437	9.214 7459		9.220 6636		0.779 3364	9.994 0823		563	
438	9.214 7915	456	9.220 7105	469	0.779 2895	9.994 0811	12	562	
439	9.214 8371	456	9.220 7573	468	0.779 2427	9.994 0798	13	561	
		456		469			12		
.440	9.214 8827		9.220 8042		0.779 1958	9.994 0786		.560	
		456		468			13		
441	9.214 9283		9.220 8510		0.779 1490	9.994 0773		559	
442	9.214 9739	456	9.220 8979	469	0.779 1021	9.994 0760	13	558	
443	9.215 0195	456	9.220 9447	468	0.779 0553	9.994 0748	12	557	
		455		468			13		
444	9.215 0650		9.220 9915		0.779 0085	9.994 0735		556	
445	9.215 1106	456	9.221 0384	469	0.778 9616	9.994 0723	12	555	
446	9.215 1562	456	9.221 0852	468	0.778 9148	9.994 0710	13	554	
		455		468			13		
447	9.215 2017		9.221 1320		0.778 8680	9.994 0697		553	
448	9.215 2473	456	9.221 1788	468	0.778 8212	9.994 0685	12	552	
449	9.215 2928	455	9.221 2256	468	0.778 7744	9.994 0672	13	551	
		456		468			13		
.450	9.215 3384		9.221 2724		0.778 7276	9.994 0659		.550	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	471	470
1	47.1	47.0
2	94.2	94.0
3	141.3	141.0
4	188.4	188.0
5	235.5	235.0
6	282.6	282.0
7	329.7	329.0
8	376.8	376.0
9	423.9	423.0

	469	468
1	46.9	46.8
2	93.8	93.6
3	140.7	140.4
4	187.6	187.2
5	234.5	234.0
6	281.4	280.8
7	328.3	327.6
8	375.2	374.4
9	422.1	421.2

	458	457
1	45.8	45.7
2	91.6	91.4
3	137.4	137.1
4	183.2	182.8
5	229.0	228.5
6	274.8	274.2
7	320.6	319.9
8	366.4	365.6
9	412.2	411.3

	456	455
1	45.6	45.5
2	91.2	91.0
3	136.8	136.5
4	182.4	182.0
5	228.0	227.5
6	273.6	273.0
7	319.2	318.5
8	364.8	364.0
9	410.4	409.5

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

80°.600 — 80°.550

$9^\circ.450 - 9^\circ.500$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.215 3384		9.221 2724		0.778 7276	9.994 0659		.550	
		455		468			12		
451	9.215 3839		9.221 3192		0.778 6808	9.994 0647		549	
452	9.215 4294	455	9.221 3660	468	0.778 6340	9.994 0634	13	548	
453	9.215 4750	456	9.221 4128	468	0.778 5872	9.994 0622	12	547	
		455		468			13		
454	9.215 5205		9.221 4596		0.778 5404	9.994 0609		546	
455	9.215 5660	455	9.221 5064	468	0.778 4936	9.994 0596	13	545	
456	9.215 6115	455	9.221 5531	467	0.778 4469	9.994 0584	12	544	
		455		468			13		
457	9.215 6570		9.221 5999		0.778 4001	9.994 0571		543	
458	9.215 7025	455	9.221 6467	468	0.778 3533	9.994 0558	13	542	
459	9.215 7480	455	9.221 6934	467	0.778 3066	9.994 0546	12	541	
		455		468			13		
.460	9.215 7935		9.221 7402		0.778 2598	9.994 0533		.540	
		455		467			12		
461	9.215 8390		9.221 7869		0.778 2131	9.994 0521		539	
462	9.215 8845	455	9.221 8337	468	0.778 1663	9.994 0508	13	538	
463	9.215 9300	455	9.221 8804	467	0.778 1196	9.994 0495	13	537	
		454		468			12		
464	9.215 9754		9.221 9272		0.778 0728	9.994 0483		536	
465	9.216 0209	455	9.221 9739	467	0.778 0261	9.994 0470	13	535	
466	9.216 0664	455	9.222 0206	467	0.777 9794	9.994 0457	13	534	
		454		467			12		
467	9.216 1118		9.222 0673		0.777 9327	9.994 0445		533	
468	9.216 1573	455	9.222 1141	468	0.777 8859	9.994 0432	13	532	
469	9.216 2027	454	9.222 1608	467	0.777 8392	9.994 0419	13	531	
		455		467			12		
.470	9.216 2482		9.222 2075		0.777 7925	9.994 0407		.530	
		454		467			13		
471	9.216 2936		9.222 2542		0.777 7458	9.994 0394		529	
472	9.216 3390	454	9.222 3009	467	0.777 6991	9.994 0382	12	528	
473	9.216 3845	455	9.222 3476	467	0.777 6524	9.994 0369	13	527	
		454		467			13		
474	9.216 4299		9.222 3943		0.777 6057	9.994 0356		526	
475	9.216 4753	454	9.222 4410	467	0.777 5590	9.994 0344	12	525	
476	9.216 5207	454	9.222 4876	466	0.777 5124	9.994 0331	13	524	
		454		467			13		
477	9.216 5661		9.222 5343		0.777 4657	9.994 0318		523	
478	9.216 6116	455	9.222 5810	467	0.777 4190	9.994 0306	12	522	
479	9.216 6570	454	9.222 6277	467	0.777 3723	9.994 0293	13	521	
		453		466			13		
.480	9.216 7023		9.222 6743		0.777 3257	9.994 0280		.520	
		454		467			12		
481	9.216 7477		9.222 7210		0.777 2790	9.994 0268		519	
482	9.216 7931	454	9.222 7676	466	0.777 2324	9.994 0255	13	518	
483	9.216 8385	454	9.222 8143	467	0.777 1857	9.994 0242	13	517	
		454		466			12		
484	9.216 8839		9.222 8609		0.777 1391	9.994 0230		516	
485	9.216 9292	453	9.222 9075	466	0.777 0925	9.994 0217	13	515	
486	9.216 9746	454	9.222 9542	467	0.777 0458	9.994 0204	13	514	
		454		466			12		
487	9.217 0200		9.223 0008		0.776 9992	9.994 0192		513	
488	9.217 0653	453	9.223 0474	466	0.776 9526	9.994 0179	13	512	
489	9.217 1107	454	9.223 0940	466	0.776 9060	9.994 0166	13	511	
		453		467			12		
.490	9.217 1560		9.223 1407		0.776 8593	9.994 0154		.510	
		454		466			13		
491	9.217 2014		9.223 1873		0.776 8127	9.994 0141		509	
492	9.217 2467	453	9.223 2339	466	0.776 7661	9.994 0128	13	508	
493	9.217 2920	453	9.223 2805	466	0.776 7195	9.994 0116	12	507	
		454		466			13		
494	9.217 3374		9.223 3271		0.776 6729	9.994 0103		506	
495	9.217 3827	453	9.223 3737	466	0.776 6263	9.994 0090	13	505	
496	9.217 4280	453	9.223 4202	465	0.776 5798	9.994 0078	12	504	
		453		466			13		
497	9.217 4733		9.223 4668		0.776 5332	9.994 0065		503	
498	9.217 5186	453	9.223 5134	466	0.776 4866	9.994 0052	13	502	
499	9.217 5639	453	9.223 5600	466	0.776 4400	9.994 0040	12	501	
		453		465			13		
.500	9.217 6092		9.223 6065		0.776 3935	9.994 0027		.500	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	468	467
1	46.8	46.7
2	93.6	93.4
3	140.4	140.1
4	187.2	186.8
5	234.0	233.5
6	280.8	280.2
7	327.6	326.9
8	374.4	373.6
9	421.2	420.3

	466	465
1	46.6	46.5
2	93.2	93.0
3	139.8	139.5
4	186.4	186.0
5	233.0	232.5
6	279.6	279.0
7	326.2	325.5
8	372.8	372.0
9	419.4	418.5

	456	455
1	45.6	45.5
2	91.2	91.0
3	136.8	136.5
4	182.4	182.0
5	228.0	227.5
6	273.6	273.0
7	319.2	318.5
8	364.8	364.0
9	410.4	409.5

	454	453
1	45.4	45.3
2	90.8	90.6
3	136.2	135.9
4	181.6	181.2
5	227.0	226.5
6	272.4	271.8
7	317.8	317.1
8	363.2	362.4
9	408.6	407.7

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.550 - 80^\circ.500$

$9^\circ.500 - 9^\circ.550$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.217 6092		9.223 6065		0.776 3935	9.994 0027		**.500**	
		453		466			13		
501	9.217 6545		9.223 6531		0.776 3469	9.994 0014		499	
502	9.217 6998	453	9.223 6997	466	0.776 3003	9.994 0002	12	498	
503	9.217 7451	453	9.223 7462	465	0.776 2538	9.993 9989	13	497	
		453		466			13		
504	9.217 7904		9.223 7928		0.776 2072	9.993 9976		496	
505	9.217 8356	452	9.223 8393	465	0.776 1607	9.993 9963	13	495	
506	9.217 8809	453	9.223 8858	465	0.776 1142	9.993 9951	12	494	
		453		466			13		
507	9.217 9262		9.223 9324		0.776 0676	9.993 9938		493	
508	9.217 9714	452	9.223 9789	465	0.776 0211	9.993 9925	13	492	
509	9.218 0167	453	9.224 0254	465	0.775 9746	9.993 9913	12	491	
		452		465			13		
.510	9.218 0619		9.224 0719		0.775 9281	9.993 9900		**.490**	
		453		466			13		
511	9.218 1072		9.224 1185		0.775 8815	9.993 9887		489	
512	9.218 1524	452	9.224 1650	465	0.775 8350	9.993 9875	12	488	
513	9.218 1977	453	9.224 2115	465	0.775 7885	9.993 9862	13	487	
		452		465			13		
514	9.218 2429		9.224 2580		0.775 7420	9.993 9849		486	
515	9.218 2881	452	9.224 3045	465	0.775 6955	9.993 9837	12	485	
516	9.218 3333	452	9.224 3510	465	0.775 6490	9.993 9824	13	484	
		453		464			13		
517	9.218 3786		9.224 3974		0.775 6026	9.993 9811		483	
518	9.218 4238	452	9.224 4439	465	0.775 5561	9.993 9798	13	482	
519	9.218 4690	452	9.224 4904	465	0.775 5096	9.993 9786	12	481	
		452		465			13		
.520	9.218 5142		9.224 5369		0.775 4631	9.993 9773		**.480**	
		452		464			13		
521	9.218 5594		9.224 5833		0.775 4167	9.993 9760		479	
522	9.218 6046	452	9.224 6298	465	0.775 3702	9.993 9748	12	478	
523	9.218 6497	451	9.224 6763	465	0.775 3237	9.993 9735	13	477	
		452		464			13		
524	9.218 6949		9.224 7227		0.775 2773	9.993 9722		476	
525	9.218 7401	452	9.224 7692	465	0.775 2308	9.993 9709	13	475	
526	9.218 7853	452	9.224 8156	464	0.775 1844	9.993 9697	12	474	
		451		464			13		
527	9.218 8304		9.224 8620		0.775 1380	9.993 9684		473	
528	9.218 8756	452	9.224 9085	465	0.775 0915	9.993 9671	13	472	
529	9.218 9208	452	9.224 9549	464	0.775 0451	9.993 9659	12	471	
		451		464			13		
.530	9.218 9659		9.225 0013		0.774 9987	9.993 9646		**.470**	
		452		465			13		
531	9.219 0111		9.225 0478		0.774 9522	9.993 9633		469	
532	9.219 0562	451	9.225 0942	464	0.774 9058	9.993 9620	13	468	
533	9.219 1013	451	9.225 1406	464	0.774 8594	9.993 9608	12	467	
		452		464			13		
534	9.219 1465		9.225 1870		0.774 8130	9.993 9595		466	
535	9.219 1916	451	9.225 2334	464	0.774 7666	9.993 9582	13	465	
536	9.219 2367	451	9.225 2798	464	0.774 7202	9.993 9569	13	464	
		451		464			12		
537	9.219 2818		9.225 3262		0.774 6738	9.993 9557		463	
538	9.219 3270	452	9.225 3726	464	0.774 6274	9.993 9544	13	462	
539	9.219 3721	451	9.225 4189	463	0.774 5811	9.993 9531	13	461	
		451		464			13		
.540	9.219 4172		9.225 4653		0.774 5347	9.993 9518		**.460**	
		451		464			12		
541	9.219 4623		9.225 5117		0.774 4883	9.993 9506		459	
542	9.219 5074	451	9.225 5581	464	0.774 4419	9.993 9493	13	458	
543	9.219 5525	451	9.225 6044	463	0.774 3956	9.993 9480	13	457	
		450		464			12		
544	9.219 5975		9.225 6508		0.774 3492	9.993 9468		456	
545	9.219 6426	451	9.225 6971	463	0.774 3029	9.993 9455	13	455	
546	9.219 6877	451	9.225 7435	464	0.774 2565	9.993 9442	13	454	
		451		463			13		
547	9.219 7328		9.225 7898		0.774 2102	9.993 9429		453	
548	9.219 7778	450	9.225 8362	464	0.774 1638	9.993 9417	12	452	
549	9.219 8229	451	9.225 8825	463	0.774 1175	9.993 9404	13	451	
		451		464			13		
.550	9.219 8680		9.225 9289		0.774 0711	9.993 9391		**.450**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	466	465
1	46.6	46.5
2	93.2	93.0
3	139.8	139.5
4	186.4	186.0
5	233.0	232.5
6	279.6	279.0
7	326.2	325.5
8	372.8	372.0
9	419.4	418.5

	464	463
1	46.4	46.3
2	92.8	92.6
3	139.2	138.9
4	185.6	185.2
5	232.0	231.5
6	278.4	277.8
7	324.8	324.1
8	371.2	370.4
9	417.6	416.7

	453	452
1	45.3	45.2
2	90.6	90.4
3	135.9	135.6
4	181.2	180.8
5	226.5	226.0
6	271.8	271.2
7	317.1	316.4
8	362.4	361.6
9	407.7	406.8

	451	450
1	45.1	45.0
2	90.2	90.0
3	135.3	135.0
4	180.4	180.0
5	225.5	225.0
6	270.6	270.0
7	315.7	315.0
8	360.8	360.0
9	405.9	405.0

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.500 - 80^\circ.450$

$9^\circ.550 - 9^\circ.600$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.219 8680		9.225 9289		0.774 0711	9.993 9391		**.450**	
		450		463			13		
551	9.219 9130		9.225 9752		0.774 0248	9.993 9378		449	
552	9.219 9581	451	9.226 0215	463	0.773 9785	9.993 9366	12	448	
553	9.220 0031	450	9.226 0678	463	0.773 9322	9.993 9353	13	447	
		450		463			13		
554	9.220 0481		9.226 1141		0.773 8859	9.993 9340		446	
555	9.220 0932	451	9.226 1604	463	0.773 8396	9.993 9327	13	445	
556	9.220 1382	450	9.226 2067	463	0.773 7933	9.993 9314	13	444	
		450		463			12		
557	9.220 1832		9.226 2530		0.773 7470	9.993 9302		443	
558	9.220 2282	450	9.226 2993	463	0.773 7007	9.993 9289	13	442	
559	9.220 2732	450	9.226 3456	463	0.773 6544	9.993 9276	13	441	
		451		463			13		
.560	9.220 3183		9.226 3919		0.773 6081	9.993 9263		**.440**	
		450		463			12		
561	9.220 3633		9.226 4382		0.773 5618	9.993 9251		439	
562	9.220 4083	450	9.226 4845	463	0.773 5155	9.993 9238	13	438	
563	9.220 4533	450	9.226 5307	462	0.773 4693	9.993 9225	13	437	
		449		463			13		
564	9.220 4982		9.226 5770		0.773 4230	9.993 9212		436	
565	9.220 5432	450	9.226 6233	463	0.773 3767	9.993 9200	12	435	
566	9.220 5882	450	9.226 6695	462	0.773 3305	9.993 9187	13	434	
		450		463			13		
567	9.220 6332		9.226 7158		0.773 2842	9.993 9174		433	
568	9.220 6781	449	9.226 7620	462	0.773 2380	9.993 9161	13	432	
569	9.220 7231	450	9.226 8083	463	0.773 1917	9.993 9148	13	431	
		450		462			12		
.570	9.220 7681		9.226 8545		0.773 1455	9.993 9136		**.430**	
		449		462			13		
571	9.220 8130		9.226 9007		0.773 0993	9.993 9123		429	
572	9.220 8580	450	9.226 9470	463	0.773 0530	9.993 9110	13	428	
573	9.220 9029	449	9.226 9932	462	0.773 0068	9.993 9097	13	427	
		450		462			12		
574	9.220 9479		9.227 0394		0.772 9606	9.993 9085		426	
575	9.220 9928	449	9.227 0856	462	0.772 9144	9.993 9072	13	425	
576	9.221 0377	449	9.227 1318	462	0.772 8682	9.993 9059	13	424	
		450		462			13		
577	9.221 0827		9.227 1780		0.772 8220	9.993 9046		423	
578	9.221 1276	449	9.227 2242	462	0.772 7758	9.993 9033	13	422	
579	9.221 1725	449	9.227 2704	462	0.772 7296	9.993 9021	12	421	
		449		462			13		
.580	9.221 2174		9.227 3166		0.772 6834	9.993 9008		**.420**	
		449		462			13		
581	9.221 2623		9.227 3628		0.772 6372	9.993 8995		419	
582	9.221 3072	449	9.227 4090	462	0.772 5910	9.993 8982	13	418	
583	9.221 3521	449	9.227 4552	462	0.772 5448	9.993 8969	13	417	
		449		462			12		
584	9.221 3970		9.227 5014		0.772 4986	9.993 8957		416	
585	9.221 4419	449	9.227 5475	461	0.772 4525	9.993 8944	13	415	
586	9.221 4868	449	9.227 5937	462	0.772 4063	9.993 8931	13	414	
		449		461			13		
587	9.221 5317		9.227 6398		0.772 3602	9.993 8918		413	
588	9.221 5765	448	9.227 6860	462	0.772 3140	9.993 8905	13	412	
589	9.221 6214	449	9.227 7321	461	0.772 2679	9.993 8893	12	411	
		449		462			13		
.590	9.221 6663		9.227 7783		0.772 2217	9.993 8880		**.410**	
		448		461			13		
591	9.221 7111		9.227 8244		0.772 1756	9.993 8867		409	
592	9.221 7560	449	9.227 8706	462	0.772 1294	9.993 8854	13	408	
593	9.221 8008	448	9.227 9167	461	0.772 0833	9.993 8841	13	407	
		449		461			12		
594	9.221 8457		9.227 9628		0.772 0372	9.993 8829		406	
595	9.221 8905	448	9.228 0090	462	0.771 9910	9.993 8816	13	405	
596	9.221 9354	449	9.228 0551	461	0.771 9449	9.993 8803	13	404	
		448		461			13		
597	9.221 9802		9.228 1012		0.771 8988	9.993 8790		403	
598	9.222 0250	448	9.228 1473	461	0.771 8527	9.993 8777	13	402	
599	9.222 0698	448	9.228 1934	461	0.771 8066	9.993 8765	12	401	
		449		461			13		
.600	9.222 1147		9.228 2395		0.771 7605	9.993 8752		**.400**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	463	462
1	46.3	46.2
2	92.6	92.4
3	138.9	138.6
4	185.2	184.8
5	231.5	231.0
6	277.8	277.2
7	324.1	323.4
8	370.4	369.6
9	416.7	415.8

	461	451
1	46.1	45.1
2	92.2	90.2
3	138.3	135.3
4	184.4	180.4
5	230.5	225.5
6	276.6	270.6
7	322.7	315.7
8	368.8	360.8
9	414.9	405.9

	450	449
1	45.0	44.9
2	90.0	89.8
3	135.0	134.7
4	180.0	179.6
5	225.0	224.5
6	270.0	269.4
7	315.0	314.3
8	360.0	359.2
9	405.0	404.1

	448
1	44.8
2	89.6
3	134.4
4	179.2
5	224.0
6	268.8
7	313.6
8	358.4
9	403.2

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.450 - 80^\circ.400$

9°.600 — 9°.650

9°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.222 1147		9.228 2395		0.771 7605	9.993 8752		.400	
		448		461			13		
601	9.222 1595		9.228 2856		0.771 7144	9.993 8739		399	
602	9.222 2043	448	9.228 3317	461	0.771 6683	9.993 8726	13	398	
603	9.222 2491	448	9.228 3778	461	0.771 6222	9.993 8713	13	397	
		448		460			13		
604	9.222 2939		9.228 4238		0.771 5762	9.993 8700		396	
605	9.222 3387	448	9.228 4699	461	0.771 5301	9.993 8688	12	395	
606	9.222 3835	448	9.228 5160	461	0.771 4840	9.993 8675	13	394	
		448		461			13		
607	9.222 4283		9.228 5621		0.771 4379	9.993 8662		393	
608	9.222 4730	447	9.228 6081	460	0.771 3919	9.993 8649	13	392	
609	9.222 5178	448	9.228 6542	461	0.771 3458	9.993 8636	13	391	
		448		460			13		
.610	9.222 5626		9.228 7002		0.771 2998	9.993 8623		.390	
		447		461			12		
611	9.222 6073		9.228 7463		0.771 2537	9.993 8611		389	
612	9.222 6521	448	9.228 7923	460	0.771 2077	9.993 8598	13	388	
613	9.222 6969	448	9.228 8384	461	0.771 1616	9.993 8585	13	387	
		447		460			13		
614	9.222 7416		9.228 8844		0.771 1156	9.993 8572		386	
615	9.222 7864	448	9.228 9304	460	0.771 0696	9.993 8559	13	385	
616	9.222 8311	447	9.228 9765	461	0.771 0235	9.993 8546	13	384	
		447		460			12		
617	9.222 8758		9.229 0225		0.770 9775	9.993 8534		383	
618	9.222 9206	448	9.229 0685	460	0.770 9315	9.993 8521	13	382	
619	9.222 9653	447	9.229 1145	460	0.770 8855	9.993 8508	13	381	
		447		460			13		
.620	9.223 0100		9.229 1605		0.770 8395	9.993 8495		.380	
		447		460			13		
621	9.223 0547		9.229 2065		0.770 7935	9.993 8482		379	
622	9.223 0994	447	9.229 2525	460	0.770 7475	9.993 8469	13	378	
623	9.223 1442	448	9.229 2985	460	0.770 7015	9.993 8456	13	377	
		447		460			12		
624	9.223 1889		9.229 3445		0.770 6555	9.993 8444		376	
625	9.223 2336	447	9.229 3905	460	0.770 6095	9.993 8431	13	375	
626	9.223 2782	446	9.229 4365	460	0.770 5635	9.993 8418	13	374	
		447		459			13		
627	9.223 3229		9.229 4824		0.770 5176	9.993 8405		373	
628	9.223 3676	447	9.229 5284	460	0.770 4716	9.993 8392	13	372	
629	9.223 4123	447	9.229 5744	460	0.770 4256	9.993 8379	13	371	
		447		459			13		
.630	9.223 4570		9.229 6203		0.770 3797	9.993 8366		.370	
		446		460			12		
631	9.223 5016		9.229 6663		0.770 3337	9.993 8354		369	
632	9.223 5463	447	9.229 7122	459	0.770 2878	9.993 8341	13	368	
633	9.223 5910	447	9.229 7582	460	0.770 2418	9.993 8328	13	367	
		446		459			13		
634	9.223 6356		9.229 8041		0.770 1959	9.993 8315		366	
635	9.223 6803	447	9.229 8501	460	0.770 1499	9.993 8302	13	365	
636	9.223 7249	446	9.229 8960	459	0.770 1040	9.993 8289	13	364	
		447		459			13		
637	9.223 7696		9.229 9419		0.770 0581	9.993 8276		363	
638	9.223 8142	446	9.229 9879	460	0.770 0121	9.993 8264	12	362	
639	9.223 8588	446	9.230 0338	459	0.769 9662	9.993 8251	13	361	
		447		459			13		
.640	9.223 9035		9.230 0797		0.769 9203	9.993 8238		.360	
		446		459			13		
641	9.223 9481		9.230 1256		0.769 8744	9.993 8225		359	
642	9.223 9927	446	9.230 1715	459	0.769 8285	9.993 8212	13	358	
643	9.224 0373	446	9.230 2174	459	0.769 7826	9.993 8199	13	357	
		446		459			13		
644	9.224 0819		9.230 2633		0.769 7367	9.993 8186		356	
645	9.224 1265	446	9.230 3092	459	0.769 6908	9.993 8173	13	355	
646	9.224 1711	446	9.230 3551	459	0.769 6449	9.993 8161	12	354	
		446		459			13		
647	9.224 2157		9.230 4010		0.769 5990	9.993 8148		353	
648	9.224 2603	446	9.230 4468	458	0.769 5532	9.993 8135	13	352	
649	9.224 3049	446	9.230 4927	459	0.769 5073	9.993 8122	13	351	
		446		459			13		
.650	9.224 3495		9.230 5386		0.769 4614	9.993 8109		.350	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	461	460
1	46.1	46.0
2	92.2	92.0
3	138.3	138.0
4	184.4	184.0
5	230.5	230.0
6	276.6	276.0
7	322.7	322.0
8	368.8	368.0
9	414.9	414.0

	459	458
1	45.9	45.8
2	91.8	91.6
3	137.7	137.4
4	183.6	183.2
5	229.5	229.0
6	275.4	274.8
7	321.3	320.6
8	367.2	366.4
9	413.1	412.2

	448	447
1	44.8	44.7
2	89.6	89.4
3	134.4	134.1
4	179.2	178.8
5	224.0	223.5
6	268.8	268.2
7	313.6	312.9
8	358.4	357.6
9	403.2	402.3

	446
1	44.6
2	89.2
3	133.8
4	178.4
5	223.0
6	267.6
7	312.2
8	356.8
9	401.4

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

80°.400 — 80°.350

$9^\circ.650 - 9^\circ.700$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.224 3495		9.230 5386		0.769 4614	9.993 8109		**.350**	
		446		459			13		
651	9.224 3941		9.230 5845		0.769 4155	9.993 8096		349	
652	9.224 4386	445	9.230 6303	458	0.769 3697	9.993 8083	13	348	
653	9.224 4832	446	9.230 6762	459	0.769 3238	9.993 8070	13	347	
		446		458			13		
654	9.224 5278		9.230 7220		0.769 2780	9.993 8057		346	
655	9.224 5723	445	9.230 7679	459	0.769 2321	9.993 8045	12	345	
656	9.224 6169	446	9.230 8137	458	0.769 1863	9.993 8032	13	344	
		445		458			13		
657	9.224 6614		9.230 8595		0.769 1405	9.993 8019		343	
658	9.224 7060	446	9.230 9054	459	0.769 0946	9.993 8006	13	342	
659	9.224 7505	445	9.230 9512	458	0.769 0488	9.993 7993	13	341	
		445		458			13		
.660	9.224 7950		9.230 9970		0.769 0030	9.993 7980		**.340**	
		446		458			13		
661	9.224 8396		9.231 0428		0.768 9572	9.993 7967		339	
662	9.224 8841	445	9.231 0887	459	0.768 9113	9.993 7954	13	338	
663	9.224 9286	445	9.231 1345	458	0.768 8655	9.993 7941	13	337	
		445		458			13		
664	9.224 9731		9.231 1803		0.768 8197	9.993 7928		336	
665	9.225 0176	445	9.231 2261	458	0.768 7739	9.993 7915	13	335	
666	9.225 0621	445	9.231 2719	458	0.768 7281	9.993 7903	12	334	
		445		458			13		
667	9.225 1066		9.231 3177		0.768 6823	9.993 7890		333	
668	9.225 1511	445	9.231 3635	458	0.768 6365	9.993 7877	13	332	
669	9.225 1956	445	9.231 4092	457	0.768 5908	9.993 7864	13	331	
		445		458			13		
.670	9.225 2401		9.231 4550		0.768 5450	9.993 7851		**.330**	
		445		458			13		
671	9.225 2846		9.231 5008		0.768 4992	9.993 7838		329	
672	9.225 3291	445	9.231 5466	458	0.768 4534	9.993 7825	13	328	
673	9.225 3735	444	9.231 5923	457	0.768 4077	9.993 7812	13	327	
		445		458			13		
674	9.225 4180		9.231 6381		0.768 3619	9.993 7799		326	
675	9.225 4625	445	9.231 6838	457	0.768 3162	9.993 7786	13	325	
676	9.225 5069	444	9.231 7296	458	0.768 2704	9.993 7773	13	324	
		445		457			13		
677	9.225 5514		9.231 7753		0.768 2247	9.993 7760		323	
678	9.225 5958	444	9.231 8211	458	0.768 1789	9.993 7748	12	322	
679	9.225 6403	445	9.231 8668	457	0.768 1332	9.993 7735	13	321	
		444		457			13		
.680	9.225 6847		9.231 9125		0.768 0875	9.993 7722		**.320**	
		445		458			13		
681	9.225 7292		9.231 9583		0.768 0417	9.993 7709		319	
682	9.225 7736	444	9.232 0040	457	0.767 9960	9.993 7696	13	318	
683	9.225 8180	444	9.232 0497	457	0.767 9503	9.993 7683	13	317	
		444		457			13		
684	9.225 8624		9.232 0954		0.767 9046	9.993 7670		316	
685	9.225 9068	444	9.232 1411	457	0.767 8589	9.993 7657	13	315	
686	9.225 9513	445	9.232 1868	457	0.767 8132	9.993 7644	13	314	
		444		457			13		
687	9.225 9957		9.232 2325		0.767 7675	9.993 7631		313	
688	9.226 0401	444	9.232 2782	457	0.767 7218	9.993 7618	13	312	
689	9.226 0845	444	9.232 3239	457	0.767 6761	9.993 7605	13	311	
		444		457			13		
.690	9.226 1289		9.232 3696		0.767 6304	9.993 7592		**.310**	
		443		457			13		
691	9.226 1732		9.232 4153		0.767 5847	9.993 7579		309	
692	9.226 2176	444	9.232 4610	457	0.767 5390	9.993 7566	13	308	
693	9.226 2620	444	9.232 5067	457	0.767 4933	9.993 7554	12	307	
		444		456			13		
694	9.226 3064		9.232 5523		0.767 4477	9.993 7541		306	
695	9.226 3508	444	9.232 5980	457	0.767 4020	9.993 7528	13	305	
696	9.226 3951	443	9.232 6437	457	0.767 3563	9.993 7515	13	304	
		444		456			13		
697	9.226 4395		9.232 6893		0.767 3107	9.993 7502		303	
698	9.226 4838	443	9.232 7350	457	0.767 2650	9.993 7489	13	302	
699	9.226 5282	444	9.232 7806	456	0.767 2194	9.993 7476	13	301	
		443		456			13		
.700	9.226 5725		9.232 8262		0.767 1738	9.993 7463		**.300**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	459	458
1	45.9	45.8
2	91.8	91.6
3	137.7	137.4
4	183.6	183.2
5	229.5	229.0
6	275.4	274.8
7	321.3	320.6
8	367.2	366.4
9	413.1	412.2

	457	456
1	45.7	45.6
2	91.4	91.2
3	137.1	136.8
4	182.8	182.4
5	228.5	228.0
6	274.2	273.6
7	319.9	319.2
8	365.6	364.8
9	411.3	410.4

	446	445
1	44.6	44.5
2	89.2	89.0
3	133.8	133.5
4	178.4	178.0
5	223.0	222.5
6	267.6	267.0
7	312.2	311.5
8	356.8	356.0
9	401.4	400.5

	444	443
1	44.4	44.3
2	88.8	88.6
3	133.2	132.9
4	177.6	177.2
5	222.0	221.5
6	266.4	265.8
7	310.8	310.1
8	355.2	354.4
9	399.6	398.7

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

$80^\circ.350 - 80^\circ.300$

$9^\circ.700 - 9^\circ.750$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.226 5725		9.232 8262		0.767 1738	9.993 7463		**.300**	
		444		457			13		
701	9.226 6169		9.232 8719		0.767 1281	9.993 7450		299	
702	9.226 6612	443	9.232 9175	456	0.767 0825	9.993 7437	13	298	
703	9.226 7055	443	9.232 9631	456	0.767 0369	9.993 7424	13	297	
		444		457			13		
704	9.226 7499		9.233 0088		0.766 9912	9.993 7411		296	
705	9.226 7942	443	9.233 0544	456	0.766 9456	9.993 7398	13	295	
706	9.226 8385	443	9.233 1000	456	0.766 9000	9.993 7385	13	294	
		443		456			13		
707	9.226 8828		9.233 1456		0.766 8544	9.993 7372		293	
708	9.226 9271	443	9.233 1912	456	0.766 8088	9.993 7359	13	292	
709	9.226 9714	443	9.233 2368	456	0.766 7632	9.993 7346	13	291	
		443		456			13		
.710	9.227 0157		9.233 2824		0.766 7176	9.993 7333		**.290**	
		443		456			13		
711	9.227 0600		9.233 3280		0.766 6720	9.993 7320		289	
712	9.227 1043	443	9.233 3736	456	0.766 6264	9.993 7307	13	288	
713	9.227 1486	443	9.233 4192	456	0.766 5808	9.993 7294	13	287	
		443		456			13		
714	9.227 1929		9.233 4648		0.766 5352	9.993 7281		286	
715	9.227 2372	443	9.233 5103	455	0.766 4897	9.993 7268	13	285	
716	9.227 2814	442	9.233 5559	456	0.766 4441	9.993 7255	13	284	
		443		456			13		
717	9.227 3257		9.233 6015		0.766 3985	9.993 7242		283	
718	9.227 3700	443	9.233 6470	455	0.766 3530	9.993 7229	13	282	
719	9.227 4142	442	9.233 6926	456	0.766 3074	9.993 7216	13	281	
		443		455			13		
.720	9.227 4585		9.233 7381		0.766 2619	9.993 7203		**.280**	
		442		456			13		
721	9.227 5027		9.233 7837		0.766 2163	9.993 7190		279	
722	9.227 5470	443	9.233 8292	455	0.766 1708	9.993 7177	13	278	
723	9.227 5912	442	9.233 8748	456	0.766 1252	9.993 7164	13	277	
		442		455			12		
724	9.227 6354		9.233 9203		0.766 0797	9.993 7152		276	
725	9.227 6797	443	9.233 9658	455	0.766 0342	9.993 7139	13	275	
726	9.227 7239	442	9.234 0114	456	0.765 9886	9.993 7126	13	274	
		442		455			13		
727	9.227 7681		9.234 0569		0.765 9431	9.993 7113		273	
728	9.227 8123	442	9.234 1024	455	0.765 8976	9.993 7100	13	272	
729	9.227 8566	443	9.234 1479	455	0.765 8521	9.993 7087	13	271	
		442		455			13		
.730	9.227 9008		9.234 1934		0.765 8066	9.993 7074		**.270**	
		442		455			13		
731	9.227 9450		9.234 2389		0.765 7611	9.993 7061		269	
732	9.227 9892	442	9.234 2844	455	0.765 7156	9.993 7048	13	268	
733	9.228 0334	442	9.234 3299	455	0.765 6701	9.993 7035	13	267	
		441		455			13		
734	9.228 0775		9.234 3754		0.765 6246	9.993 7022		266	
735	9.228 1217	442	9.234 4209	455	0.765 5791	9.993 7009	13	265	
736	9.228 1659	442	9.234 4664	455	0.765 5336	9.993 6996	13	264	
		442		454			13		
737	9.228 2101		9.234 5118		0.765 4882	9.993 6983		263	
738	9.228 2542	441	9.234 5573	455	0.765 4427	9.993 6970	13	262	
739	9.228 2984	442	9.234 6028	455	0.765 3972	9.993 6957	13	261	
		442		454			13		
.740	9.228 3426		9.234 6482		0.765 3518	9.993 6944		**.260**	
		441		455			14		
741	9.228 3867		9.234 6937		0.765 3063	9.993 6930		259	
742	9.228 4309	442	9.234 7391	454	0.765 2609	9.993 6917	13	258	
743	9.228 4750	441	9.234 7846	455	0.765 2154	9.993 6904	13	257	
		442		454			13		
744	9.228 5192		9.234 8300		0.765 1700	9.993 6891		256	
745	9.228 5633	441	9.234 8755	455	0.765 1245	9.993 6878	13	255	
746	9.228 6074	441	9.234 9209	454	0.765 0791	9.993 6865	13	254	
		442		454			13		
747	9.228 6516		9.234 9663		0.765 0337	9.993 6852		253	
748	9.228 6957	441	9.235 0118	455	0.764 9882	9.993 6839	13	252	
749	9.228 7398	441	9.235 0572	454	0.764 9428	9.993 6826	13	251	
		441		454			13		
.750	9.228 7839		9.235 1026		0.764 8974	9.993 6813		**.250**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	457	456
1	45.7	45.6
2	91.4	91.2
3	137.1	136.8
4	182.8	182.4
5	228.5	228.0
6	274.2	273.6
7	319.9	319.2
8	365.6	364.8
9	411.3	410.4

	455	454
1	45.5	45.4
2	91.0	90.8
3	136.5	136.2
4	182.0	181.6
5	227.5	227.0
6	273.0	272.4
7	318.5	317.8
8	364.0	363.2
9	409.5	408.6

	444	443
1	44.4	44.3
2	88.8	88.6
3	133.2	132.9
4	177.6	177.2
5	222.0	221.5
6	266.4	265.8
7	310.8	310.1
8	355.2	354.4
9	399.6	398.7

	442	441
1	44.2	44.1
2	88.4	88.2
3	132.6	132.3
4	176.8	176.4
5	221.0	220.5
6	265.2	264.6
7	309.4	308.7
8	353.6	352.8
9	397.8	396.9

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

	12
1	1.2
2	2.4
3	3.6
4	4.8
5	6.0
6	7.2
7	8.4
8	9.6
9	10.8

$80^\circ.300 - 80^\circ.250$

9°.750 — 9°.800

9°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.228 7839		9.235 1026		0.764 8974	9.993 6813		**.250**	
		441		454			13		
751	9.228 8280		9.235 1480		0.764 8520	9.993 6800		249	
		441		454			13		
752	9.228 8721		9.235 1934		0.764 8066	9.993 6787		248	
		441		454			13		
753	9.228 9162		9.235 2388		0.764 7612	9.993 6774		247	
		441		454			13		
754	9.228 9603		9.235 2842		0.764 7158	9.993 6761		246	
		441		454			13		
755	9.229 0044		9.235 3296		0.764 6704	9.993 6748		245	
		441		454			13		
756	9.229 0485		9.235 3750		0.764 6250	9.993 6735		244	
		441		454			13		
757	9.229 0926		9.235 4204		0.764 5796	9.993 6722		243	
		441		454			13		
758	9.229 1367		9.235 4658		0.764 5342	9.993 6709		242	
		441		453			13		
759	9.229 1808		9.235 5111		0.764 4889	9.993 6696		241	
		440		454			13		
.760	9.229 2248		9.235 5565		0.764 4435	9.993 6683		**.240**	
		441		454			13		
761	9.229 2689		9.235 6019		0.764 3981	9.993 6670		239	
		440		454			13		
762	9.229 3129		9.235 6473		0.764 3527	9.993 6657		238	
		441		453			13		
763	9.229 3570		9.235 6926		0.764 3074	9.993 6644		237	
		440		454			13		
764	9.229 4010		9.235 7380		0.764 2620	9.993 6631		236	
		441		453			13		
765	9.229 4451		9.235 7833		0.764 2167	9.993 6618		235	
		440		454			13		
766	9.229 4891		9.235 8287		0.764 1713	9.993 6605		234	
		441		453			13		
767	9.229 5332		9.235 8740		0.764 1260	9.993 6592		233	
		440		453			13		
768	9.229 5772		9.235 9193		0.764 0807	9.993 6579		232	
		440		454			13		
769	9.229 6212		9.235 9647		0.764 0353	9.993 6566		231	
		441		453			13		
.770	9.229 6653		9.236 0100		0.763 9900	9.993 6553		**.230**	
		440		453			13		
771	9.229 7093		9.236 0553		0.763 9447	9.993 6540		229	
		440		453			14		
772	9.229 7533		9.236 1006		0.763 8994	9.993 6526		228	
		440		454			13		
773	9.229 7973		9.236 1460		0.763 8540	9.993 6513		227	
		440		453			13		
774	9.229 8413		9.236 1913		0.763 8087	9.993 6500		226	
		440		453			13		
775	9.229 8853		9.236 2366		0.763 7634	9.993 6487		225	
		440		453			13		
776	9.229 9293		9.236 2819		0.763 7181	9.993 6474		224	
		440		453			13		
777	9.229 9733		9.236 3272		0.763 6728	9.993 6461		223	
		440		453			13		
778	9.230 0173		9.236 3725		0.763 6275	9.993 6448		222	
		439		452			13		
779	9.230 0612		9.236 4177		0.763 5823	9.993 6435		221	
		440		453			13		
.780	9.230 1052		9.236 4630		0.763 5370	9.993 6422		**.220**	
		440		453			13		
781	9.230 1492		9.236 5083		0.763 4917	9.993 6409		219	
		440		453			13		
782	9.230 1932		9.236 5536		0.763 4464	9.993 6396		218	
		439		452			13		
783	9.230 2371		9.236 5988		0.763 4012	9.993 6383		217	
		440		453			13		
784	9.230 2811		9.236 6441		0.763 3559	9.993 6370		216	
		439		453			13		
785	9.230 3250		9.236 6894		0.763 3106	9.993 6357		215	
		440		452			13		
786	9.230 3690		9.236 7346		0.763 2654	9.993 6344		214	
		439		453			14		
787	9.230 4129		9.236 7799		0.763 2201	9.993 6330		213	
		440		452			13		
788	9.230 4569		9.236 8251		0.763 1749	9.993 6317		212	
		439		453			13		
789	9.230 5008		9.236 8704		0.763 1296	9.993 6304		211	
		439		452			13		
.790	9.230 5447		9.236 9156		0.763 0844	9.993 6291		**.210**	
		440		452			13		
791	9.230 5887		9.236 9608		0.763 0392	9.993 6278		209	
		439		453			13		
792	9.230 6326		9.237 0061		0.762 9939	9.993 6265		208	
		439		452			13		
793	9.230 6765		9.237 0513		0.762 9487	9.993 6252		207	
		439		452			13		
794	9.230 7204		9.237 0965		0.762 9035	9.993 6239		206	
		439		452			13		
795	9.230 7643		9.237 1417		0.762 8583	9.993 6226		205	
		439		453			13		
796	9.230 8082		9.237 1870		0.762 8130	9.993 6213		204	
		439		452			13		
797	9.230 8521		9.237 2322		0.762 7678	9.993 6200		203	
		439		452			13		
798	9.230 8960		9.237 2774		0.762 7226	9.993 6187		202	
		439		452			14		
799	9.230 9399		9.237 3226		0.762 6774	9.993 6173		201	
		439		452			13		
.800	9.230 9838		9.237 3678		0.762 6322	9.993 6160		**.200**	
	cos	d	cotg	d	tang	sin	d	**80°**	P.P.

	454	453
1	45.4	45.3
2	90.8	90.6
3	136.2	135.9
4	181.6	181.2
5	227.0	226.5
6	272.4	271.8
7	317.8	317.1
8	363.2	362.4
9	408.6	407.7

	452	441
1	45.2	44.1
2	90.4	88.2
3	135.6	132.3
4	180.8	176.4
5	226.0	220.5
6	271.2	264.6
7	316.4	308.7
8	361.6	352.8
9	406.8	396.9

	440	439
1	44.0	43.9
2	88.0	87.8
3	132.0	131.7
4	176.0	175.6
5	220.0	219.5
6	264.0	263.4
7	308.0	307.3
8	352.0	351.2
9	396.0	395.1

	14
1	1.4
2	2.8
3	4.2
4	5.6
5	7.0
6	8.4
7	9.8
8	11.2
9	12.6

	13
1	1.3
2	2.6
3	3.9
4	5.2
5	6.5
6	7.8
7	9.1
8	10.4
9	11.7

80°.250 — 80°.200

9°.800 — 9°.850

9°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.230 9838		9.237 3678		0.762 6322	9.993 6160		**.200**	
		439		451			13		
801	9.231 0277		9.237 4129		0.762 5871	9.993 6147		199	
802	9.231 0716	439	9.237 4581	452	0.762 5419	9.993 6134	13	198	
803	9.231 1154	438	9.237 5033	452	0.762 4967	9.993 6121	13	197	
		439		452			13		
804	9.231 1593		9.237 5485		0.762 4515	9.993 6108		196	
805	9.231 2032	439	9.237 5937	452	0.762 4063	9.993 6095	13	195	
806	9.231 2470	438	9.237 6388	451	0.762 3612	9.993 6082	13	194	
		439		452			13		
807	9.231 2909		9.237 6840		0.762 3160	9.993 6069		193	
808	9.231 3347	438	9.237 7291	451	0.762 2709	9.993 6056	13	192	
809	9.231 3786	439	9.237 7743	452	0.762 2257	9.993 6043	13	191	
		438		452			14		
.810	9.231 4224		9.237 8195		0.762 1805	9.993 6029		**.190**	
		438		451			13		
811	9.231 4662		9.237 8646		0.762 1354	9.993 6016		189	
812	9.231 5101	439	9.237 9097	451	0.762 0903	9.993 6003	13	188	
813	9.231 5539	438	9.237 9549	452	0.762 0451	9.993 5990	13	187	
		438		451			13		
814	9.231 5977		9.238 0000		0.762 0000	9.993 5977		186	
815	9.231 6415	438	9.238 0451	451	0.761 9549	9.993 5964	13	185	
816	9.231 6853	438	9.238 0903	452	0.761 9097	9.993 5951	13	184	
		438		451			13		
817	9.231 7291		9.238 1354		0.761 8646	9.993 5938		183	
818	9.231 7729	438	9.238 1805	451	0.761 8195	9.993 5925	13	182	
819	9.231 8167	438	9.238 2256	451	0.761 7744	9.993 5911	14	181	
		438		451			13		
.820	9.231 8605		9.238 2707		0.761 7293	9.993 5898		**.180**	
		438		451			13		
821	9.231 9043		9.238 3158		0.761 6842	9.993 5885		179	
822	9.231 9481	438	9.238 3609	451	0.761 6391	9.993 5872	13	178	
823	9.231 9919	438	9.238 4060	451	0.761 5940	9.993 5859	13	177	
		438		451			13		
824	9.232 0357		9.238 4511		0.761 5489	9.993 5846		176	
825	9.232 0794	437	9.238 4962	451	0.761 5038	9.993 5833	13	175	
826	9.232 1232	438	9.238 5413	451	0.761 4587	9.993 5820	13	174	
		438		450			14		
827	9.232 1670		9.238 5863		0.761 4137	9.993 5806		173	
828	9.232 2107	437	9.238 6314	451	0.761 3686	9.993 5793	13	172	
829	9.232 2545	438	9.238 6765	451	0.761 3235	9.993 5780	13	171	
		437		450			13		
.830	9.232 2982		9.238 7215		0.761 2785	9.993 5767		**.170**	
		438		451			13		
831	9.232 3420		9.238 7666		0.761 2334	9.993 5754		169	
832	9.232 3857	437	9.238 8116	450	0.761 1884	9.993 5741	13	168	
833	9.232 4294	437	9.238 8567	451	0.761 1433	9.993 5728	13	167	
		438		450			14		
834	9.232 4732		9.238 9017		0.761 0983	9.993 5714		166	
835	9.232 5169	437	9.238 9468	451	0.761 0532	9.993 5701	13	165	
836	9.232 5606	437	9.238 9918	450	0.761 0082	9.993 5688	13	164	
		437		450			13		
837	9.232 6043		9.239 0368		0.760 9632	9.993 5675		163	
838	9.232 6481	438	9.239 0819	451	0.760 9181	9.993 5662	13	162	
839	9.232 6918	437	9.239 1269	450	0.760 8731	9.993 5649	13	161	
		437		450			13		
.840	9.232 7355		9.239 1719		0.760 8281	9.993 5636		**.160**	
		437		450			14		
841	9.232 7792		9.239 2169		0.760 7831	9.993 5622		159	
842	9.232 8229	437	9.239 2619	450	0.760 7381	9.993 5609	13	158	
843	9.232 8665	436	9.239 3069	450	0.760 6931	9.993 5596	13	157	
		437		450			13		
844	9.232 9102		9.239 3519		0.760 6481	9.993 5583		156	
845	9.232 9539	437	9.239 3969	450	0.760 6031	9.993 5570	13	155	
846	9.232 9976	437	9.239 4419	450	0.760 5581	9.993 5557	13	154	
		437		450			13		
847	9.233 0413		9.239 4869		0.760 5131	9.993 5544		153	
848	9.233 0849	436	9.239 5319	450	0.760 4681	9.993 5530	14	152	
849	9.233 1286	437	9.239 5769	450	0.760 4231	9.993 5517	13	151	
		436		449			13		
.850	9.233 1722		9.239 6218		0.760 3782	9.993 5504		**.150**	
	cos	d	cotg	d	tang	sin	d	**80°**	P.P.

	452	451
1	45.2	45.1
2	90.4	90.2
3	135.6	135.3
4	180.8	180.4
5	226.0	225.5
6	271.2	270.6
7	316.4	315.7
8	361.6	360.8
9	406.8	405.9

	450	449
1	45.0	44.9
2	90.0	89.8
3	135.0	134.7
4	180.0	179.6
5	225.0	224.5
6	270.0	269.4
7	315.0	314.3
8	360.0	359.2
9	405.0	404.1

	439	438
1	43.9	43.8
2	87.8	87.6
3	131.7	131.4
4	175.6	175.2
5	219.5	219.0
6	263.4	262.8
7	307.3	306.6
8	351.2	350.4
9	395.1	394.2

	437	436
1	43.7	43.6
2	87.4	87.2
3	131.1	130.8
4	174.8	174.4
5	218.5	218.0
6	262.2	261.6
7	305.9	305.2
8	349.6	348.8
9	393.3	392.4

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

80°.200 — 80°.150

$9^\circ.850 - 9^\circ.900$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.233 1722		9.239 6218		0.760 3782	9.993 5504		.150	
		437		450			13		
851	9.233 2159		9.239 6668		0.760 3332	9.993 5491		149	
852	9.233 2595	436	9.239 7118	450	0.760 2882	9.993 5478	13	148	
853	9.233 3032	437	9.239 7567	449	0.760 2433	9.993 5465	13	147	
		436		450			14		
854	9.233 3468		9.239 8017		0.760 1983	9.993 5451		146	
855	9.233 3905	437	9.239 8466	449	0.760 1534	9.993 5438	13	145	
856	9.233 4341	436	9.239 8916	450	0.760 1084	9.993 5425	13	144	
		436		449			13		
857	9.233 4777		9.239 9365		0.760 0635	9.993 5412		143	
858	9.233 5213	436	9.239 9815	450	0.760 0185	9.993 5399	13	142	
859	9.233 5650	437	9.240 0264	449	0.759 9736	9.993 5386	13	141	
		436		449			14		
.860	9.233 6086		9.240 0713		0.759 9287	9.993 5372		.140	
		436		450			13		
861	9.233 6522		9.240 1163		0.759 8837	9.993 5359		139	
862	9.233 6958	436	9.240 1612	449	0.759 8388	9.993 5346	13	138	
863	9.233 7394	436	9.240 2061	449	0.759 7939	9.993 5333	13	137	
		436		449			13		
864	9.233 7830		9.240 2510		0.759 7490	9.993 5320		136	
865	9.233 8266	436	9.240 2959	449	0.759 7041	9.993 5306	14	135	
866	9.233 8702	436	9.240 3408	449	0.759 6592	9.993 5293	13	134	
		435		449			13		
867	9.233 9137		9.240 3857		0.759 6143	9.993 5280		133	
868	9.233 9573	436	9.240 4306	449	0.759 5694	9.993 5267	13	132	
869	9.234 0009	436	9.240 4755	449	0.759 5245	9.993 5254	13	131	
		436		449			13		
.870	9.234 0445		9.240 5204		0.759 4796	9.993 5241		.130	
		435		449			14		
871	9.234 0880		9.240 5653		0.759 4347	9.993 5227		129	
872	9.234 1316	436	9.240 6102	449	0.759 3898	9.993 5214	13	128	
873	9.234 1751	435	9.240 6550	448	0.759 3450	9.993 5201	13	127	
		436		449			13		
874	9.234 2187		9.240 6999		0.759 3001	9.993 5188		126	
875	9.234 2622	435	9.240 7448	449	0.759 2552	9.993 5175	13	125	
876	9.234 3058	436	9.240 7896	448	0.759 2104	9.993 5161	14	124	
		435		449			13		
877	9.234 3493		9.240 8345		0.759 1655	9.993 5148		123	
878	9.234 3928	435	9.240 8793	448	0.759 1207	9.993 5135	13	122	
879	9.234 4364	436	9.240 9242	449	0.759 0758	9.993 5122	13	121	
		435		448			13		
.880	9.234 4799		9.240 9690		0.759 0310	9.993 5109		.120	
		435		449			14		
881	9.234 5234		9.241 0139		0.758 9861	9.993 5095		119	
882	9.234 5669	435	9.241 0587	448	0.758 9413	9.993 5082	13	118	
883	9.234 6104	435	9.241 1035	448	0.758 8965	9.993 5069	13	117	
		435		448			13		
884	9.234 6539		9.241 1483		0.758 8517	9.993 5056		116	
885	9.234 6974	435	9.241 1932	449	0.758 8068	9.993 5043	13	115	
886	9.234 7409	435	9.241 2380	448	0.758 7620	9.993 5029	14	114	
		435		448			13		
887	9.234 7844		9.241 2828		0.758 7172	9.993 5016		113	
888	9.234 8279	435	9.241 3276	448	0.758 6724	9.993 5003	13	112	
889	9.234 8714	435	9.241 3724	448	0.758 6276	9.993 4990	13	111	
		435		448			13		
.890	9.234 9149		9.241 4172		0.758 5828	9.993 4977		.110	
		434		448			14		
891	9.234 9583		9.241 4620		0.758 5380	9.993 4963		109	
892	9.235 0018	435	9.241 5068	448	0.758 4932	9.993 4950	13	108	
893	9.235 0453	435	9.241 5516	448	0.758 4484	9.993 4937	13	107	
		434		448			13		
894	9.235 0887		9.241 5964		0.758 4036	9.993 4924		106	
895	9.235 1322	435	9.241 6411	447	0.758 3589	9.993 4910	14	105	
896	9.235 1756	434	9.241 6859	448	0.758 3141	9.993 4897	13	104	
		435		448			13		
897	9.235 2191		9.241 7307		0.758 2693	9.993 4884		103	
898	9.235 2625	434	9.241 7754	447	0.758 2246	9.993 4871	13	102	
899	9.235 3060	435	9.241 8202	448	0.758 1798	9.993 4858	13	101	
		434		448			14		
.900	9.235 3494		9.241 8650		0.758 1350	9.993 4844		.100	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	450	449
1	45.0	44.9
2	90.0	89.8
3	135.0	134.7
4	180.0	179.6
5	225.0	224.5
6	270.0	269.4
7	315.0	314.3
8	360.0	359.2
9	405.0	404.1

	448	447
1	44.8	44.7
2	89.6	89.4
3	134.4	134.1
4	179.2	178.8
5	224.0	223.5
6	268.8	268.2
7	313.6	312.9
8	358.4	357.6
9	403.2	402.3

	437	436
1	43.7	43.6
2	87.4	87.2
3	131.1	130.8
4	174.8	174.4
5	218.5	218.0
6	262.2	261.6
7	305.9	305.2
8	349.6	348.8
9	393.3	392.4

	435	434
1	43.5	43.4
2	87.0	86.8
3	130.5	130.2
4	174.0	173.6
5	217.5	217.0
6	261.0	260.4
7	304.5	303.8
8	348.0	347.2
9	391.5	390.6

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$80^\circ.150 - 80^\circ.100$

$9^\circ.900 - 9^\circ.950$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.235 3494		9.241 8650		0.758 1350	9.993 4844		**.100**	
		434		447			13		
901	9.235 3928		9.241 9097		0.758 0903	9.993 4831		099	
902	9.235 4362	434	9.241 9545	448	0.758 0455	9.993 4818	13	098	
903	9.235 4797	435	9.241 9992	447	0.758 0008	9.993 4805	13	097	
		434		447			13		
904	9.235 5231		9.242 0439		0.757 9561	9.993 4791	14	096	
905	9.235 5665	434	9.242 0887	448	0.757 9113	9.993 4778	13	095	
906	9.235 6099	434	9.242 1334	447	0.757 8666	9.993 4765	13	094	
		434		447			13		
907	9.235 6533		9.242 1781		0.757 8219	9.993 4752		093	
908	9.235 6967	434	9.242 2228	447	0.757 7772	9.993 4738	14	092	
909	9.235 7401	434	9.242 2676	448	0.757 7324	9.993 4725	13	091	
		434		447			13		
.910	9.235 7835		9.242 3123		0.757 6877	9.993 4712		**.090**	
		434		447			13		
911	9.235 8269		9.242 3570		0.757 6430	9.993 4699		089	
912	9.235 8702	433	9.242 4017	447	0.757 5983	9.993 4685	14	088	
913	9.235 9136	434	9.242 4464	447	0.757 5536	9.993 4672	13	087	
		434		447			13		
914	9.235 9570		9.242 4911		0.757 5089	9.993 4659		086	
915	9.236 0003	433	9.242 5358	447	0.757 4642	9.993 4646	13	085	
916	9.236 0437	434	9.242 5805	447	0.757 4195	9.993 4632	14	084	
		434		446			13		
917	9.236 0871		9.242 6251		0.757 3749	9.993 4619		083	
918	9.236 1304	433	9.242 6698	447	0.757 3302	9.993 4606	13	082	
919	9.236 1738	434	9.242 7145	447	0.757 2855	9.993 4593	13	081	
		433		447			14		
.920	9.236 2171		9.242 7592		0.757 2408	9.993 4579		**.080**	
		433		446			13		
921	9.236 2604		9.242 8038		0.757 1962	9.993 4566		079	
922	9.236 3038	434	9.242 8485	447	0.757 1515	9.993 4553	13	078	
923	9.236 3471	433	9.242 8931	446	0.757 1069	9.993 4540	13	077	
		433		447			14		
924	9.236 3904		9.242 9378		0.757 0622	9.993 4526		076	
925	9.236 4338	434	9.242 9824	446	0.757 0176	9.993 4513	13	075	
926	9.236 4771	433	9.243 0271	447	0.756 9729	9.993 4500	13	074	
		433		446			13		
927	9.236 5204		9.243 0717		0.756 9283	9.993 4487		073	
928	9.236 5637	433	9.243 1164	447	0.756 8836	9.993 4473	14	072	
929	9.236 6070	433	9.243 1610	446	0.756 8390	9.993 4460	13	071	
		433		446			13		
.930	9.236 6503		9.243 2056		0.756 7944	9.993 4447		**.070**	
		433		446			13		
931	9.236 6936		9.243 2502		0.756 7498	9.993 4434		069	
932	9.236 7369	433	9.243 2949	447	0.756 7051	9.993 4420	14	068	
933	9.236 7802	433	9.243 3395	446	0.756 6605	9.993 4407	13	067	
		433		446			13		
934	9.236 8235		9.243 3841		0.756 6159	9.993 4394		066	
935	9.236 8667	432	9.243 4287	446	0.756 5713	9.993 4380	14	065	
936	9.236 9100	433	9.243 4733	446	0.756 5267	9.993 4367	13	064	
		433		446			13		
937	9.236 9533		9.243 5179		0.756 4821	9.993 4354		063	
938	9.236 9965	432	9.243 5625	446	0.756 4375	9.993 4341	13	062	
939	9.237 0398	433	9.243 6071	446	0.756 3929	9.993 4327	14	061	
		432		445			13		
.940	9.237 0830		9.243 6516		0.756 3484	9.993 4314		**.060**	
		433		446			13		
941	9.237 1263		9.243 6962		0.756 3038	9.993 4301		059	
942	9.237 1695	432	9.243 7408	446	0.756 2592	9.993 4287	14	058	
943	9.237 2128	433	9.243 7854	446	0.756 2146	9.993 4274	13	057	
		432		445			13		
944	9.237 2560		9.243 8299		0.756 1701	9.993 4261		056	
945	9.237 2993	433	9.243 8745	446	0.756 1255	9.993 4248	13	055	
946	9.237 3425	432	9.243 9190	445	0.756 0810	9.993 4234	14	054	
		432		446			13		
947	9.237 3857		9.243 9636		0.756 0364	9.993 4221		053	
948	9.237 4289	432	9.244 0081	445	0.755 9919	9.993 4208	13	052	
949	9.237 4721	432	9.244 0527	446	0.755 9473	9.993 4194	14	051	
		432		445			13		
.950	9.237 5153		9.244 0972		0.755 9028	9.993 4181		**.050**	
	cos	d	cotg	d	tang	sin	d	80°	P.P.

	448	447
1	44.8	44.7
2	89.6	89.4
3	134.4	134.1
4	179.2	178.8
5	224.0	223.5
6	268.8	268.2
7	313.6	312.9
8	358.4	357.6
9	403.2	402.3

	446	445
1	44.6	44.5
2	89.2	89.0
3	133.8	133.5
4	178.4	178.0
5	223.0	222.5
6	267.6	267.0
7	312.2	311.5
8	356.8	356.0
9	401.4	400.5

	435	434
1	43.5	43.4
2	87.0	86.8
3	130.5	130.2
4	174.0	173.6
5	217.5	217.0
6	261.0	260.4
7	304.5	303.8
8	348.0	347.2
9	391.5	390.6

	433	432
1	43.3	43.2
2	86.6	86.4
3	129.9	129.6
4	173.2	172.8
5	216.5	216.0
6	259.8	259.2
7	303.1	302.4
8	346.4	345.6
9	389.7	388.8

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$80^\circ.100 - 80^\circ.050$

$9^\circ.950 - 10^\circ.000$

9°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.237 5153		9.244 0972		0.755 9028	9.993 4181		**.050**	
		433		446			13		
951	9.237 5586		9.244 1418		0.755 8582	9.993 4168		049	
952	9.237 6018	432	9.244 1863	445	0.755 8137	9.993 4155	13	048	
953	9.237 6450	432	9.244 2308	445	0.755 7692	9.993 4141	14	047	
		431		446			13		
954	9.237 6881		9.244 2754		0.755 7246	9.993 4128		046	
955	9.237 7313	432	9.244 3199	445	0.755 6801	9.993 4115	13	045	
956	9.237 7745	432	9.244 3644	445	0.755 6356	9.993 4101	14	044	
		432		445			13		
957	9.237 8177		9.244 4089		0.755 5911	9.993 4088		043	
958	9.237 8609	432	9.244 4534	445	0.755 5466	9.993 4075	13	042	
959	9.237 9040	431	9.244 4979	445	0.755 5021	9.993 4061	14	041	
		432		445			13		
.960	9.237 9472		9.244 5424		0.755 4576	9.993 4048		**.040**	
		432		445			13		
961	9.237 9904		9.244 5869		0.755 4131	9.993 4035		039	
962	9.238 0335	431	9.244 6314	445	0.755 3686	9.993 4021	14	038	
963	9.238 0767	432	9.244 6759	445	0.755 3241	9.993 4008	13	037	
		431		444			13		
964	9.238 1198		9.244 7203		0.755 2797	9.993 3995		036	
965	9.238 1630	432	9.244 7648	445	0.755 2352	9.993 3982	13	035	
966	9.238 2061	431	9.244 8093	445	0.755 1907	9.993 3968	14	034	
		431		445			13		
967	9.238 2492		9.244 8538		0.755 1462	9.993 3955		033	
968	9.238 2924	432	9.244 8982	444	0.755 1018	9.993 3942	13	032	
969	9.238 3355	431	9.244 9427	445	0.755 0573	9.993 3928	14	031	
		431		444			13		
.970	9.238 3786		9.244 9871		0.755 0129	9.993 3915		**.030**	
		431		445			13		
971	9.238 4217		9.245 0316		0.754 9684	9.993 3902		029	
972	9.238 4649	432	9.245 0760	444	0.754 9240	9.993 3888	14	028	
973	9.238 5080	431	9.245 1205	445	0.754 8795	9.993 3875	13	027	
		431		444			13		
974	9.238 5511		9.245 1649		0.754 8351	9.993 3862		026	
975	9.238 5942	431	9.245 2093	444	0.754 7907	9.993 3848	14	025	
976	9.238 6373	431	9.245 2538	445	0.754 7462	9.993 3835	13	024	
		431		444			13		
977	9.238 6804		9.245 2982		0.754 7018	9.993 3822		023	
978	9.238 7234	430	9.245 3426	444	0.754 6574	9.993 3808	14	022	
979	9.238 7665	431	9.245 3870	444	0.754 6130	9.993 3795	13	021	
		431		444			13		
.980	9.238 8096		9.245 4314		0.754 5686	9.993 3782		**.020**	
		431		444			14		
981	9.238 8527		9.245 4758		0.754 5242	9.993 3768		019	
982	9.238 8957	430	9.245 5202	444	0.754 4798	9.993 3755	13	018	
983	9.238 9388	431	9.245 5646	444	0.754 4354	9.993 3742	13	017	
		431		444			14		
984	9.238 9819		9.245 6090		0.754 3910	9.993 3728		016	
985	9.239 0249	430	9.245 6534	444	0.754 3466	9.993 3715	13	015	
986	9.239 0680	431	9.245 6978	444	0.754 3022	9.993 3702	13	014	
		430		444			14		
987	9.239 1110		9.245 7422		0.754 2578	9.993 3688		013	
988	9.239 1541	431	9.245 7866	444	0.754 2134	9.993 3675	13	012	
989	9.239 1971	430	9.245 8309	443	0.754 1691	9.993 3662	13	011	
		430		444			14		
.990	9.239 2401		9.245 8753		0.754 1247	9.993 3648		**.010**	
		431		444			13		
991	9.239 2832		9.245 9197		0.754 0803	9.993 3635		009	
992	9.239 3262	430	9.245 9640	443	0.754 0360	9.993 3621	14	008	
993	9.239 3692	430	9.246 0084	444	0.753 9916	9.993 3608	13	007	
		430		443			13		
994	9.239 4122		9.246 0527		0.753 9473	9.993 3595		006	
995	9.239 4552	430	9.246 0971	444	0.753 9029	9.993 3581	14	005	
996	9.239 4982	430	9.246 1414	443	0.753 8586	9.993 3568	13	004	
		430		444			13		
997	9.239 5412		9.246 1858		0.753 8142	9.993 3555		003	
998	9.239 5842	430	9.246 2301	443	0.753 7699	9.993 3541	14	002	
999	9.239 6272	430	9.246 2744	443	0.753 7256	9.993 3528	13	001	
		430		444			13		
***000**	9.239 6702		9.246 3188		0.753 6812	9.993 3515		**.000**	
	cos	d	cotg	d	tang	sin	d	**80°**	P.P.

	446	445
1	44.6	44.5
2	89.2	89.0
3	133.8	133.5
4	178.4	178.0
5	223.0	222.5
6	267.6	267.0
7	312.2	311.5
8	356.8	356.0
9	401.4	400.5

	444	443
1	44.4	44.3
2	88.8	88.6
3	133.2	132.9
4	177.6	177.2
5	222.0	221.5
6	266.4	265.8
7	310.8	310.1
8	355.2	354.4
9	399.6	398.7

	433	432
1	43.3	43.2
2	86.6	86.4
3	129.9	129.6
4	173.2	172.8
5	216.5	216.0
6	259.8	259.2
7	303.1	302.4
8	346.4	345.6
9	389.7	388.8

	431	430
1	43.1	43.0
2	86.2	86.0
3	129.3	129.0
4	172.4	172.0
5	215.5	215.0
6	258.6	258.0
7	301.7	301.0
8	344.8	344.0
9	387.9	387.0

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$80^\circ.050 - 80^\circ.000$

$10^\circ.000$ — $10^\circ.050$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.239 6702		9.246 3188		0.753 6812	9.993 3515		*000	
		430		443			14		
001	9.239 7132		9.246 3631		0.753 6369	9.993 3501		999	
002	9.239 7562	430	9.246 4074	443	0.753 5926	9.993 3488	13	998	
003	9.239 7992	430	9.246 4517	443	0.753 5483	9.993 3474	14	997	
		429		443			13		
004	9.239 8421		9.246 4960		0.753 5040	9.993 3461		996	
005	9.239 8851	430	9.246 5403	443	0.753 4597	9.993 3448	13	995	
006	9.239 9281	430	9.246 5846	443	0.753 4154	9.993 3434	14	994	
		429		443			13		
007	9.239 9710		9.246 6289		0.753 3711	9.993 3421		993	
008	9.240 0140	430	9.246 6732	443	0.753 3268	9.993 3408	13	992	
009	9.240 0569	429	9.246 7175	443	0.753 2825	9.993 3394	14	991	
		430		443			13		
.010	9.240 0999		9.246 7618		0.753 2382	9.993 3381		.990	
		429		443			14		
011	9.240 1428		9.246 8061		0.753 1939	9.993 3367		989	
012	9.240 1858	430	9.246 8504	443	0.753 1496	9.993 3354	13	988	
013	9.240 2287	429	9.246 8946	442	0.753 1054	9.993 3341	13	987	
		429		443			14		
014	9.240 2716		9.246 9389		0.753 0611	9.993 3327		986	
015	9.240 3146	430	9.246 9832	443	0.753 0168	9.993 3314	13	985	
016	9.240 3575	429	9.247 0274	442	0.752 9726	9.993 3301	13	984	
		429		443			14		
017	9.240 4004		9.247 0717		0.752 9283	9.993 3287		983	
018	9.240 4433	429	9.247 1159	442	0.752 8841	9.993 3274	13	982	
019	9.240 4862	429	9.247 1602	443	0.752 8398	9.993 3260	14	981	
		429		442			13		
.020	9.240 5291		9.247 2044		0.752 7956	9.993 3247		.980	
		429		442			13		
021	9.240 5720		9.247 2486		0.752 7514	9.993 3234		979	
022	9.240 6149	429	9.247 2929	443	0.752 7071	9.993 3220	14	978	
023	9.240 6578	429	9.247 3371	442	0.752 6629	9.993 3207	13	977	
		429		442			14		
024	9.240 7007		9.247 3813		0.752 6187	9.993 3193		976	
025	9.240 7436	429	9.247 4255	442	0.752 5745	9.993 3180	13	975	
026	9.240 7864	428	9.247 4698	443	0.752 5302	9.993 3167	13	974	
		429		442			14		
027	9.240 8293		9.247 5140		0.752 4860	9.993 3153		973	
028	9.240 8722	429	9.247 5582	442	0.752 4418	9.993 3140	13	972	
029	9.240 9150	428	9.247 6024	442	0.752 3976	9.993 3126	14	971	
		429		442			13		
.030	9.240 9579		9.247 6466		0.752 3534	9.993 3113		.970	
		428		442			13		
031	9.241 0007		9.247 6908		0.752 3092	9.993 3100		969	
032	9.241 0436	429	9.247 7350	442	0.752 2650	9.993 3086	14	968	
033	9.241 0864	428	9.247 7792	442	0.752 2208	9.993 3073	13	967	
		429		441			14		
034	9.241 1293		9.247 8233		0.752 1767	9.993 3059		966	
035	9.241 1721	428	9.247 8675	442	0.752 1325	9.993 3046	13	965	
036	9.241 2149	428	9.247 9117	442	0.752 0883	9.993 3033	13	964	
		429		442			14		
037	9.241 2578		9.247 9559		0.752 0441	9.993 3019		963	
038	9.241 3006	428	9.248 0000	441	0.752 0000	9.993 3006	13	962	
039	9.241 3434	428	9.248 0442	442	0.751 9558	9.993 2992	14	961	
		428		441			13		
.040	9.241 3862		9.248 0883		0.751 9117	9.993 2979		.960	
		428		442			14		
041	9.241 4290		9.248 1325		0.751 8675	9.993 2965		959	
042	9.241 4718	428	9.248 1766	441	0.751 8234	9.993 2952	13	958	
043	9.241 5147	429	9.248 2208	442	0.751 7792	9.993 2939	13	957	
		427		441			14		
044	9.241 5574		9.248 2649		0.751 7351	9.993 2925		956	
045	9.241 6002	428	9.248 3091	442	0.751 6909	9.993 2912	13	955	
046	9.241 6430	428	9.248 3532	441	0.751 6468	9.993 2898	14	954	
		428		441			13		
047	9.241 6858		9.248 3973		0.751 6027	9.993 2885		953	
048	9.241 7286	428	9.248 4414	441	0.751 5586	9.993 2871	14	952	
049	9.241 7714	428	9.248 4856	442	0.751 5144	9.993 2858	13	951	
		427		441			13		
.050	9.241 8141		9.248 5297		0.751 4703	9.993 2845		.950	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	443	442
1	44.3	44.2
2	88.6	88.4
3	132.9	132.6
4	177.2	176.8
5	221.5	221.0
6	265.8	265.2
7	310.1	309.4
8	354.4	353.6
9	398.7	397.8

	441	430
1	44.1	43.0
2	88.2	86.0
3	132.3	129.0
4	176.4	172.0
5	220.5	215.0
6	264.6	258.0
7	308.7	301.0
8	352.8	344.0
9	396.9	387.0

	429	428
1	42.9	42.8
2	85.8	85.6
3	128.7	128.4
4	171.6	171.2
5	214.5	214.0
6	257.4	256.8
7	300.3	299.6
8	343.2	342.4
9	386.1	385.2

	427
1	42.7
2	85.4
3	128.1
4	170.8
5	213.5
6	256.2
7	298.9
8	341.6
9	384.3

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$80^\circ.000$ — $79^\circ.950$

$10^\circ.050 - 10^\circ.100$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.241 8141		9.248 5297		0.751 4703	9.993 2845		**.950**	
		428		441			14		
051	9.241 8569		9.248 5738		0.751 4262	9.993 2831		949	
052	9.241 8997	428	9.248 6179	441	0.751 3821	9.993 2818	13	948	
053	9.241 9424	427	9.248 6620	441	0.751 3380	9.993 2804	14	947	
		428		441			13		
054	9.241 9852		9.248 7061		0.751 2939	9.993 2791		946	
055	9.242 0279	427	9.248 7502	441	0.751 2498	9.993 2777	14	945	
056	9.242 0707	428	9.248 7943	441	0.751 2057	9.993 2764	13	944	
		427		441			13		
057	9.242 1134		9.248 8384		0.751 1616	9.993 2751		943	
058	9.242 1562	428	9.248 8824	440	0.751 1176	9.993 2737	14	942	
059	9.242 1989	427	9.248 9265	441	0.751 0735	9.993 2724	13	941	
		427		441			14		
.060	9.242 2416		9.248 9706		0.751 0294	9.993 2710		**.940**	
		427		441			13		
061	9.242 2843		9.249 0147		0.750 9853	9.993 2697		939	
062	9.242 3271	428	9.249 0587	440	0.750 9413	9.993 2683	14	938	
063	9.242 3698	427	9.249 1028	441	0.750 8972	9.993 2670	13	937	
		427		440			14		
064	9.242 4125		9.249 1468		0.750 8532	9.993 2656		936	
065	9.242 4552	427	9.249 1909	441	0.750 8091	9.993 2643	13	935	
066	9.242 4979	427	9.249 2349	440	0.750 7651	9.993 2630	13	934	
		427		441			14		
067	9.242 5406		9.249 2790		0.750 7210	9.993 2616		933	
068	9.242 5833	427	9.249 3230	440	0.750 6770	9.993 2603	13	932	
069	9.242 6260	427	9.249 3671	441	0.750 6329	9.993 2589	14	931	
		427		440			13		
.070	9.242 6687		9.249 4111		0.750 5889	9.993 2576		**.930**	
		426		440			14		
071	9.242 7113		9.249 4551		0.750 5449	9.993 2562		929	
072	9.242 7540	427	9.249 4991	440	0.750 5009	9.993 2549	13	928	
073	9.242 7967	427	9.249 5432	441	0.750 4568	9.993 2535	14	927	
		427		440			13		
074	9.242 8394		9.249 5872		0.750 4128	9.993 2522		926	
075	9.242 8820	426	9.249 6312	440	0.750 3688	9.993 2508	14	925	
076	9.242 9247	427	9.249 6752	440	0.750 3248	9.993 2495	13	924	
		426		440			14		
077	9.242 9673		9.249 7192		0.750 2808	9.993 2481		923	
078	9.243 0100	427	9.249 7632	440	0.750 2368	9.993 2468	13	922	
079	9.243 0526	426	9.249 8072	440	0.750 1928	9.993 2454	14	921	
		427		440			13		
.080	9.243 0953		9.249 8512		0.750 1488	9.993 2441		**.920**	
		426		440			13		
081	9.243 1379		9.249 8952		0.750 1048	9.993 2428		919	
082	9.243 1805	426	9.249 9391	439	0.750 0609	9.993 2414	14	918	
083	9.243 2232	427	9.249 9831	440	0.750 0169	9.993 2401	13	917	
		426		440			14		
084	9.243 2658		9.250 0271		0.749 9729	9.993 2387		916	
085	9.243 3084	426	9.250 0711	440	0.749 9289	9.993 2374	13	915	
086	9.243 3510	426	9.250 1150	439	0.749 8850	9.993 2360	14	914	
		426		440			13		
087	9.243 3936		9.250 1590		0.749 8410	9.993 2347		913	
088	9.243 4362	426	9.250 2029	439	0.749 7971	9.993 2333	14	912	
089	9.243 4788	426	9.250 2469	440	0.749 7531	9.993 2320	13	911	
		426		439			14		
.090	9.243 5214		9.250 2908		0.749 7092	9.993 2306		**.910**	
		426		440			13		
091	9.243 5640		9.250 3348		0.749 6652	9.993 2293		909	
092	9.243 6066	426	9.250 3787	439	0.749 6213	9.993 2279	14	908	
093	9.243 6492	426	9.250 4226	439	0.749 5774	9.993 2266	13	907	
		426		440			14		
094	9.243 6918		9.250 4666		0.749 5334	9.993 2252		906	
095	9.243 7344	426	9.250 5105	439	0.749 4895	9.993 2239	13	905	
096	9.243 7769	425	9.250 5544	439	0.749 4456	9.993 2225	14	904	
		426		439			13		
097	9.243 8195		9.250 5983		0.749 4017	9.993 2212		903	
098	9.243 8621	426	9.250 6423	440	0.749 3577	9.993 2198	14	902	
099	9.243 9046	425	9.250 6862	439	0.749 3138	9.993 2185	13	901	
		426		439			14		
.100	9.243 9472		9.250 7301		0.749 2699	9.993 2171		**.900**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

$79^\circ.950 - 79^\circ.900$

	441	440
1	44.1	44.0
2	88.2	88.0
3	132.3	132.0
4	176.4	176.0
5	220.5	220.0
6	264.6	264.0
7	308.7	308.0
8	352.8	352.0
9	396.9	396.0

	439	428
1	43.9	42.8
2	87.8	85.6
3	131.7	128.4
4	175.6	171.2
5	219.5	214.0
6	263.4	256.8
7	307.3	299.6
8	351.2	342.4
9	395.1	385.2

	427	426
1	42.7	42.6
2	85.4	85.2
3	128.1	127.8
4	170.8	170.4
5	213.5	213.0
6	256.2	255.6
7	298.9	298.2
8	341.6	340.8
9	384.3	383.4

	425
1	42.5
2	85.0
3	127.5
4	170.0
5	212.5
6	255.0
7	297.5
8	340.0
9	382.5

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$10^\circ.100$ — $10^\circ.150$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.243 9472		9.250 7301		0.749 2699	9.993 2171		**.900**	
		425		439			13		
101	9.243 9897		9.250 7740		0.749 2260	9.993 2158		899	
102	9.244 0323	426	9.250 8179	439	0.749 1821	9.993 2144	14	898	
103	9.244 0748	425	9.250 8618	439	0.749 1382	9.993 2131	13	897	
		426		439			14		
104	9.244 1174		9.250 9057		0.749 0943	9.993 2117		896	
105	9.244 1599	425	9.250 9495	438	0.749 0505	9.993 2104	13	895	
106	9.244 2024	425	9.250 9934	439	0.749 0066	9.993 2090	14	894	
		426		439			13		
107	9.244 2450		9.251 0373		0.748 9627	9.993 2077		893	
108	9.244 2875	425	9.251 0812	439	0.748 9188	9.993 2063	14	892	
109	9.244 3300	425	9.251 1250	438	0.748 8750	9.993 2050	13	891	
		425		439			14		
.110	9.244 3725		9.251 1689		0.748 8311	9.993 2036		**.890**	
		425		439			13		
111	9.244 4150		9.251 2128		0.748 7872	9.993 2023		889	
112	9.244 4575	425	9.251 2566	438	0.748 7434	9.993 2009	14	888	
113	9.244 5000	425	9.251 3005	439	0.748 6995	9.993 1996	13	887	
		425		438			14		
114	9.244 5425		9.251 3443		0.748 6557	9.993 1982		886	
115	9.244 5850	425	9.251 3882	439	0.748 6118	9.993 1969	13	885	
116	9.244 6275	425	9.251 4320	438	0.748 5680	9.993 1955	14	884	
		425		438			13		
117	9.244 6700		9.251 4758		0.748 5242	9.993 1942		883	
118	9.244 7125	425	9.251 5197	439	0.748 4803	9.993 1928	14	882	
119	9.244 7549	424	9.251 5635	438	0.748 4365	9.993 1914	14	881	
		425		438			13		
.120	9.244 7974		9.251 6073		0.748 3927	9.993 1901		**.880**	
		425		438			14		
121	9.244 8399		9.251 6511		0.748 3489	9.993 1887		879	
122	9.244 8823	424	9.251 6949	438	0.748 3051	9.993 1874	13	878	
123	9.244 9248	425	9.251 7387	438	0.748 2613	9.993 1860	14	877	
		424		439			13		
124	9.244 9672		9.251 7826		0.748 2174	9.993 1847		876	
125	9.245 0097	425	9.251 8264	438	0.748 1736	9.993 1833	14	875	
126	9.245 0521	424	9.251 8702	438	0.748 1298	9.993 1820	13	874	
		425		437			14		
127	9.245 0946		9.251 9139		0.748 0861	9.993 1806		873	
128	9.245 1370	424	9.251 9577	438	0.748 0423	9.993 1793	13	872	
129	9.245 1794	424	9.252 0015	438	0.747 9985	9.993 1779	14	871	
		425		438			13		
.130	9.245 2219		9.252 0453		0.747 9547	9.993 1766		**.870**	
		424		438			14		
131	9.245 2643		9.252 0891		0.747 9109	9.993 1752		869	
132	9.245 3067	424	9.252 1328	437	0.747 8672	9.993 1738	14	868	
133	9.245 3491	424	9.252 1766	438	0.747 8234	9.993 1725	13	867	
		424		438			14		
134	9.245 3915		9.252 2204		0.747 7796	9.993 1711		866	
135	9.245 4339	424	9.252 2641	437	0.747 7359	9.993 1698	13	865	
136	9.245 4763	424	9.252 3079	438	0.747 6921	9.993 1684	14	864	
		424		437			13		
137	9.245 5187		9.252 3516		0.747 6484	9.993 1671		863	
138	9.245 5611	424	9.252 3954	438	0.747 6046	9.993 1657	14	862	
139	9.245 6035	424	9.252 4391	437	0.747 5609	9.993 1644	13	861	
		424		438			14		
.140	9.245 6459		9.252 4829		0.747 5171	9.993 1630		**.860**	
		424		437			13		
141	9.245 6883		9.252 5266		0.747 4734	9.993 1617		859	
142	9.245 7306	423	9.252 5703	437	0.747 4297	9.993 1603	14	858	
143	9.245 7730	424	9.252 6141	438	0.747 3859	9.993 1589	14	857	
		424		437			13		
144	9.245 8154		9.252 6578		0.747 3422	9.993 1576		856	
145	9.245 8577	423	9.252 7015	437	0.747 2985	9.993 1562	14	855	
146	9.245 9001	424	9.252 7452	437	0.747 2548	9.993 1549	13	854	
		424		437			14		
147	9.245 9425		9.252 7889		0.747 2111	9.993 1535		853	
148	9.245 9848	423	9.252 8326	437	0.747 1674	9.993 1522	13	852	
149	9.246 0272	424	9.252 8763	437	0.747 1237	9.993 1508	14	851	
		423		437			14		
.150	9.246 0695		9.252 9200		0.747 0800	9.993 1494		**.850**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	439	438
1	43.9	43.8
2	87.8	87.6
3	131.7	131.4
4	175.6	175.2
5	219.5	219.0
6	263.4	262.8
7	307.3	306.6
8	351.2	350.4
9	395.1	394.2

	437	426
1	43.7	42.6
2	87.4	85.2
3	131.1	127.8
4	174.8	170.4
5	218.5	213.0
6	262.2	255.6
7	305.9	298.2
8	349.6	340.8
9	393.3	383.4

	425	424
1	42.5	42.4
2	85.0	84.8
3	127.5	127.2
4	170.0	169.6
5	212.5	212.0
6	255.0	254.4
7	297.5	296.8
8	340.0	339.2
9	382.5	381.6

	423
1	42.3
2	84.6
3	126.9
4	169.2
5	211.5
6	253.8
7	296.1
8	338.4
9	380.7

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$79^\circ.900$ — $79^\circ.850$

$10^\circ.150 - 10^\circ.200$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.246 0695		9.252 9200		0.747 0800	9.993 1494		**.850**	
		423		437			13		
151	9.246 1118		9.252 9637		0.747 0363	9.993 1481		849	
152	9.246 1542	424	9.253 0074	437	0.746 9926	9.993 1467	14	848	
153	9.246 1965	423	9.253 0511	437	0.746 9489	9.993 1454	13	847	
		423		437			14		
154	9.246 2388		9.253 0948		0.746 9052	9.993 1440		846	
155	9.246 2811	423	9.253 1385	437	0.746 8615	9.993 1427	13	845	
156	9.246 3234	423	9.253 1822	437	0.746 8178	9.993 1413	14	844	
		424		436			14		
157	9.246 3658		9.253 2258		0.746 7742	9.993 1399		843	
158	9.246 4081	423	9.253 2695	437	0.746 7305	9.993 1386	13	842	
159	9.246 4504	423	9.253 3131	436	0.746 6869	9.993 1372	14	841	
		423		437			13		
.160	9.246 4927		9.253 3568		0.746 6432	9.993 1359		**.840**	
		423		437			14		
161	9.246 5350		9.253 4005		0.746 5995	9.993 1345		839	
162	9.246 5773	423	9.253 4441	436	0.746 5559	9.993 1331	14	838	
163	9.246 6195	422	9.253 4877	436	0.746 5123	9.993 1318	13	837	
		423		437			14		
164	9.246 6618		9.253 5314		0.746 4686	9.993 1304		836	
165	9.246 7041	423	9.253 5750	436	0.746 4250	9.993 1291	13	835	
166	9.246 7464	423	9.253 6187	437	0.746 3813	9.993 1277	14	834	
		422		436			13		
167	9.246 7886		9.253 6623		0.746 3377	9.993 1264		833	
168	9.246 8309	423	9.253 7059	436	0.746 2941	9.993 1250	14	832	
169	9.246 8732	423	9.253 7495	436	0.746 2505	9.993 1236	14	831	
		422		436			13		
.170	9.246 9154		9.253 7931		0.746 2069	9.993 1223		**.830**	
		423		437			14		
171	9.246 9577		9.253 8368		0.746 1632	9.993 1209		829	
172	9.246 9999	422	9.253 8804	436	0.746 1196	9.993 1196	13	828	
173	9.247 0422	423	9.253 9240	436	0.746 0760	9.993 1182	14	827	
		422		436			14		
174	9.247 0844		9.253 9676		0.746 0324	9.993 1168		826	
175	9.247 1266	422	9.254 0112	436	0.745 9888	9.993 1155	13	825	
176	9.247 1689	423	9.254 0548	436	0.745 9452	9.993 1141	14	824	
		422		435			13		
177	9.247 2111		9.254 0983		0.745 9017	9.993 1128		823	
178	9.247 2533	422	9.254 1419	436	0.745 8581	9.993 1114	14	822	
179	9.247 2955	422	9.254 1855	436	0.745 8145	9.993 1100	14	821	
		423		436			13		
.180	9.247 3378		9.254 2291		0.745 7709	9.993 1087		**.820**	
		422		436			14		
181	9.247 3800		9.254 2727		0.745 7273	9.993 1073		819	
182	9.247 4222	422	9.254 3162	435	0.745 6838	9.993 1059	14	818	
183	9.247 4644	422	9.254 3598	436	0.745 6402	9.993 1046	13	817	
		422		435			14		
184	9.247 5066		9.254 4033		0.745 5967	9.993 1032		816	
185	9.247 5488	422	9.254 4469	436	0.745 5531	9.993 1019	13	815	
186	9.247 5909	421	9.254 4904	435	0.745 5096	9.993 1005	14	814	
		422		436			14		
187	9.247 6331		9.254 5340		0.745 4660	9.993 0991		813	
188	9.247 6753	422	9.254 5775	435	0.745 4225	9.993 0978	13	812	
189	9.247 7175	422	9.254 6211	436	0.745 3789	9.993 0964	14	811	
		422		435			13		
.190	9.247 7597		9.254 6646		0.745 3354	9.993 0951		**.810**	
		421		435			14		
191	9.247 8018		9.254 7081		0.745 2919	9.993 0937		809	
192	9.247 8440	422	9.254 7517	436	0.745 2483	9.993 0923	14	808	
193	9.247 8861	421	9.254 7952	435	0.745 2048	9.993 0910	13	807	
		422		435			14		
194	9.247 9283		9.254 8387		0.745 1613	9.993 0896		806	
195	9.247 9705	422	9.254 8822	435	0.745 1178	9.993 0882	14	805	
196	9.248 0126	421	9.254 9257	435	0.745 0743	9.993 0869	13	804	
		421		435			14		
197	9.248 0547		9.254 9692		0.745 0308	9.993 0855		803	
198	9.248 0969	422	9.255 0127	435	0.744 9873	9.993 0842	13	802	
199	9.248 1390	421	9.255 0562	435	0.744 9438	9.993 0828	14	801	
		421		435			14		
.200	9.248 1811		9.255 0997		0.744 9003	9.993 0814		**.800**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	437	436
1	43.7	43.6
2	87.4	87.2
3	131.1	130.8
4	174.8	174.4
5	218.5	218.0
6	262.2	261.6
7	305.9	305.2
8	349.6	348.8
9	393.3	392.4

	435	424
1	43.5	42.4
2	87.0	84.8
3	130.5	127.2
4	174.0	169.6
5	217.5	212.0
6	261.0	254.4
7	304.5	296.8
8	348.0	339.2
9	391.5	381.6

	423	422
1	42.3	42.2
2	84.6	84.4
3	126.9	126.6
4	169.2	168.8
5	211.5	211.0
6	253.8	253.2
7	296.1	295.4
8	338.4	337.6
9	380.7	379.8

	421
1	42.1
2	84.2
3	126.3
4	168.4
5	210.5
6	252.6
7	294.7
8	336.8
9	378.9

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$79^\circ.850 - 79^\circ.800$

$10^\circ.200$ — $10^\circ.250$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.248 1811		9.255 0997		0.744 9003	9.993 0814		**.800**	
		422		435			13		
201	9.248 2233	421	9.255 1432	435	0.744 8568	9.993 0801	14	799	
202	9.248 2654	421	9.255 1867	435	0.744 8133	9.993 0787	14	798	
203	9.248 3075	421	9.255 2302	434	0.744 7698	9.993 0773	13	797	
204	9.248 3496	421	9.255 2736	435	0.744 7264	9.993 0760	14	796	
205	9.248 3917	421	9.255 3171	435	0.744 6829	9.993 0746	14	795	
206	9.248 4338	421	9.255 3606	435	0.744 6394	9.993 0732	13	794	
207	9.248 4759	421	9.255 4041	434	0.744 5959	9.993 0719	14	793	
208	9.248 5180	421	9.255 4475	435	0.744 5525	9.993 0705	14	792	
209	9.248 5601	421	9.255 4910	434	0.744 5090	9.993 0691	13	791	
.210	9.248 6022	421	9.255 5344	435	0.744 4656	9.993 0678	14	**.790**	
211	9.248 6443	421	9.255 5779	434	0.744 4221	9.993 0664	14	789	
212	9.248 6864	420	9.255 6213	435	0.744 3787	9.993 0650	13	788	
213	9.248 7284	421	9.255 6648	434	0.744 3352	9.993 0637	14	787	
214	9.248 7705	421	9.255 7082	434	0.744 2918	9.993 0623	14	786	
215	9.248 8126	420	9.255 7516	434	0.744 2484	9.993 0609	13	785	
216	9.248 8546	421	9.255 7950	435	0.744 2050	9.993 0596	14	784	
217	9.248 8967	420	9.255 8385	434	0.744 1615	9.993 0582	13	783	
218	9.248 9387	421	9.255 8819	434	0.744 1181	9.993 0569	14	782	
219	9.248 9808	420	9.255 9253	434	0.744 0747	9.993 0555	14	781	
.220	9.249 0228	421	9.255 9687	434	0.744 0313	9.993 0541	13	**.780**	
221	9.249 0649	420	9.256 0121	434	0.743 9879	9.993 0528	14	779	
222	9.249 1069	420	9.256 0555	434	0.743 9445	9.993 0514	14	778	
223	9.249 1489	421	9.256 0989	434	0.743 9011	9.993 0500	13	777	
224	9.249 1910	420	9.256 1423	434	0.743 8577	9.993 0487	14	776	
225	9.249 2330	420	9.256 1857	434	0.743 8143	9.993 0473	14	775	
226	9.249 2750	420	9.256 2291	434	0.743 7709	9.993 0459	14	774	
227	9.249 3170	420	9.256 2725	434	0.743 7275	9.993 0445	14	773	
228	9.249 3590	420	9.256 3159	434	0.743 6841	9.993 0432	13	772	
229	9.249 4011	421	9.256 3592	433	0.743 6408	9.993 0418	14	771	
.230	9.249 4431	420	9.256 4026	434	0.743 5974	9.993 0404	14	**.770**	
231	9.249 4851	420	9.256 4460	434	0.743 5540	9.993 0391	13	769	
232	9.249 5271	420	9.256 4893	433	0.743 5107	9.993 0377	14	768	
233	9.249 5690	419	9.256 5327	434	0.743 4673	9.993 0363	14	767	
234	9.249 6110	420	9.256 5761	434	0.743 4239	9.993 0350	13	766	
235	9.249 6530	420	9.256 6194	433	0.743 3806	9.993 0336	14	765	
236	9.249 6950	420	9.256 6628	434	0.743 3372	9.993 0322	14	764	
237	9.249 7370	420	9.256 7061	433	0.743 2939	9.993 0309	13	763	
238	9.249 7789	419	9.256 7494	433	0.743 2506	9.993 0295	14	762	
239	9.249 8209	420	9.256 7928	434	0.743 2072	9.993 0281	14	761	
.240	9.249 8629	420	9.256 8361	433	0.743 1639	9.993 0268	13	**.760**	
241	9.249 9048	419	9.256 8794	433	0.743 1206	9.993 0254	14	759	
242	9.249 9468	420	9.256 9227	433	0.743 0773	9.993 0240	14	758	
243	9.249 9887	419	9.256 9661	434	0.743 0339	9.993 0227	13	757	
244	9.250 0307	420	9.257 0094	433	0.742 9906	9.993 0213	14	756	
245	9.250 0726	419	9.257 0527	433	0.742 9473	9.993 0199	14	755	
246	9.250 1145	419	9.257 0960	433	0.742 9040	9.993 0185	14	754	
247	9.250 1565	420	9.257 1393	433	0.742 8607	9.993 0172	13	753	
248	9.250 1984	419	9.257 1826	433	0.742 8174	9.993 0158	14	752	
249	9.250 2403	419	9.257 2259	433	0.742 7741	9.993 0144	14	751	
.250	9.250 2822	419	9.257 2692	433	0.742 7308	9.993 0131	13	**.750**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	435	434
1	43.5	43.4
2	87.0	86.8
3	130.5	130.2
4	174.0	173.6
5	217.5	217.0
6	261.0	260.4
7	304.5	303.8
8	348.0	347.2
9	391.5	390.6

	433	422
1	43.3	42.2
2	86.6	84.4
3	129.9	126.6
4	173.2	168.8
5	216.5	211.0
6	259.8	253.2
7	303.1	295.4
8	346.4	337.6
9	389.7	379.8

	421	420
1	42.1	42.0
2	84.2	84.0
3	126.3	126.0
4	168.4	168.0
5	210.5	210.0
6	252.6	252.0
7	294.7	294.0
8	336.8	336.0
9	378.9	378.0

	419
1	41.9
2	83.8
3	125.7
4	167.6
5	209.5
6	251.4
7	293.3
8	335.2
9	377.1

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$79^\circ.800$ — $79^\circ.750$

$10^\circ.250 - 10^\circ.300$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.250 2822		9.257 2692		0.742 7308	9.993 0131		**.750**	
		420		433			14		
251	9.250 3242		9.257 3125		0.742 6875	9.993 0117		749	
252	9.250 3661	419	9.257 3557	432	0.742 6443	9.993 0103	14	748	
253	9.250 4080	419	9.257 3990	433	0.742 6010	9.993 0089	14	747	
		419		433			13		
254	9.250 4499		9.257 4423		0.742 5577	9.993 0076		746	
255	9.250 4918	419	9.257 4856	433	0.742 5144	9.993 0062	14	745	
256	9.250 5337	419	9.257 5288	432	0.742 4712	9.993 0048	14	744	
		419		433			13		
257	9.250 5756		9.257 5721		0.742 4279	9.993 0035		743	
258	9.250 6174	418	9.257 6154	433	0.742 3846	9.993 0021	14	742	
259	9.250 6593	419	9.257 6586	432	0.742 3414	9.993 0007	14	741	
		419		433			14		
.260	9.250 7012		9.257 7019		0.742 2981	9.992 9993		**.740**	
		419		432			13		
261	9.250 7431		9.257 7451		0.742 2549	9.992 9980		739	
262	9.250 7849	418	9.257 7883	432	0.742 2117	9.992 9966	14	738	
263	9.250 8268	419	9.257 8316	433	0.742 1684	9.992 9952	14	737	
		419		432			13		
264	9.250 8687		9.257 8748		0.742 1252	9.992 9939		736	
265	9.250 9105	418	9.257 9180	432	0.742 0820	9.992 9925	14	735	
266	9.250 9524	419	9.257 9613	433	0.742 0387	9.992 9911	14	734	
		418		432			14		
267	9.250 9942		9.258 0045		0.741 9955	9.992 9897		733	
268	9.251 0361	419	9.258 0477	432	0.741 9523	9.992 9884	13	732	
269	9.251 0779	418	9.258 0909	432	0.741 9091	9.992 9870	14	731	
		418		432			14		
.270	9.251 1197		9.258 1341		0.741 8659	9.992 9856		**.730**	
		419		432			14		
271	9.251 1616		9.258 1773		0.741 8227	9.992 9842		729	
272	9.251 2034	418	9.258 2205	432	0.741 7795	9.992 9829	13	728	
273	9.251 2452	418	9.258 2637	432	0.741 7363	9.992 9815	14	727	
		419		432			14		
274	9.251 2871		9.258 3069		0.741 6931	9.992 9801		726	
275	9.251 3289	418	9.258 3501	432	0.741 6499	9.992 9788	13	725	
276	9.251 3707	418	9.258 3933	432	0.741 6067	9.992 9774	14	724	
		418		432			14		
277	9.251 4125		9.258 4365		0.741 5635	9.992 9760		723	
278	9.251 4543	418	9.258 4797	432	0.741 5203	9.992 9746	14	722	
279	9.251 4961	418	9.258 5228	431	0.741 4772	9.992 9733	13	721	
		418		432			14		
.280	9.251 5379		9.258 5660		0.741 4340	9.992 9719		**.720**	
		418		432			14		
281	9.251 5797		9.258 6092		0.741 3908	9.992 9705		719	
282	9.251 6215	418	9.258 6523	431	0.741 3477	9.992 9691	14	718	
283	9.251 6632	417	9.258 6955	432	0.741 3045	9.992 9678	13	717	
		418		431			14		
284	9.251 7050		9.258 7386		0.741 2614	9.992 9664		716	
285	9.251 7468	418	9.258 7818	432	0.741 2182	9.992 9650	14	715	
286	9.251 7886	418	9.258 8249	431	0.741 1751	9.992 9636	14	714	
		417		432			13		
287	9.251 8303		9.258 8681		0.741 1319	9.992 9623		713	
288	9.251 8721	418	9.258 9112	431	0.741 0888	9.992 9609	14	712	
289	9.251 9138	417	9.258 9543	431	0.741 0457	9.992 9595	14	711	
		418		432			14		
.290	9.251 9556		9.258 9975		0.741 0025	9.992 9581		**.710**	
		417		431			14		
291	9.251 9973		9.259 0406		0.740 9594	9.992 9567		709	
292	9.252 0391	418	9.259 0837	431	0.740 9163	9.992 9554	13	708	
293	9.252 0808	417	9.259 1268	431	0.740 8732	9.992 9540	14	707	
		418		431			14		
294	9.252 1226		9.259 1699		0.740 8301	9.992 9526		706	
295	9.252 1643	417	9.259 2131	432	0.740 7869	9.992 9512	14	705	
296	9.252 2060	417	9.259 2562	431	0.740 7438	9.992 9499	13	704	
		417		431			14		
297	9.252 2477		9.259 2993		0.740 7007	9.992 9485		703	
298	9.252 2895	418	9.259 3424	431	0.740 6576	9.992 9471	14	702	
299	9.252 3312	417	9.259 3854	430	0.740 6146	9.992 9457	14	701	
		417		431			13		
.300	9.252 3729		9.259 4285		0.740 5715	9.992 9444		**.700**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	433	432
1	43.3	43.2
2	86.6	86.4
3	129.9	129.6
4	173.2	172.8
5	216.5	216.0
6	259.8	259.2
7	303.1	302.4
8	346.4	345.6
9	389.7	388.8

	431	430
1	43.1	43.0
2	86.2	86.0
3	129.3	129.0
4	172.4	172.0
5	215.5	215.0
6	258.6	258.0
7	301.7	301.0
8	344.8	344.0
9	387.9	387.0

	420	419
1	42.0	41.9
2	84.0	83.8
3	126.0	125.7
4	168.0	167.6
5	210.0	209.5
6	252.0	251.4
7	294.0	293.3
8	336.0	335.2
9	378.0	377.1

	418	417
1	41.8	41.7
2	83.6	83.4
3	125.4	125.1
4	167.2	166.8
5	209.0	208.5
6	250.8	250.2
7	292.6	291.9
8	334.4	333.6
9	376.2	375.3

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$79^\circ.750 - 79^\circ.700$

$10^\circ.300 - 10^\circ.350$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.252 3729		9.259 4285		0.740 5715	9.992 9444		**.700**	
		417		431			14		
301	9.252 4146		9.259 4716		0.740 5284	9.992 9430		699	
302	9.252 4563	417	9.259 5147	431	0.740 4853	9.992 9416	14	698	
303	9.252 4980	417	9.259 5578	431	0.740 4422	9.992 9402	14	697	
		417		431			14		
304	9.252 5397		9.259 6009		0.740 3991	9.992 9388		696	
305	9.252 5814	417	9.259 6439	430	0.740 3561	9.992 9375	13	695	
306	9.252 6231	417	9.259 6870	431	0.740 3130	9.992 9361	14	694	
		417		430			14		
307	9.252 6648		9.259 7300		0.740 2700	9.992 9347		693	
308	9.252 7064	416	9.259 7731	431	0.740 2269	9.992 9333	14	692	
309	9.252 7481	417	9.259 8162	431	0.740 1838	9.992 9320	13	691	
		417		430			14		
.310	9.252 7898		9.259 8592		0.740 1408	9.992 9306		**.690**	
		416		431			14		
311	9.252 8314		9.259 9023		0.740 0977	9.992 9292		689	
312	9.252 8731	417	9.259 9453	430	0.740 0547	9.992 9278	14	688	
313	9.252 9148	417	9.259 9883	430	0.740 0117	9.992 9264	14	687	
		416		431			13		
314	9.252 9564		9.260 0314		0.739 9686	9.992 9251		686	
315	9.252 9981	417	9.260 0744	430	0.739 9256	9.992 9237	14	685	
316	9.253 0397	416	9.260 1174	430	0.739 8826	9.992 9223	14	684	
		417		430			14		
317	9.253 0814		9.260 1604		0.739 8396	9.992 9209		683	
318	9.253 1230	416	9.260 2035	431	0.739 7965	9.992 9195	14	682	
319	9.253 1646	416	9.260 2465	430	0.739 7535	9.992 9182	13	681	
		417		430			14		
.320	9.253 2063		9.260 2895		0.739 7105	9.992 9168		**.680**	
		416		430			14		
321	9.253 2479		9.260 3325		0.739 6675	9.992 9154		679	
322	9.253 2895	416	9.260 3755	430	0.739 6245	9.992 9140	14	678	
323	9.253 3311	416	9.260 4185	430	0.739 5815	9.992 9126	14	677	
		416		430			13		
324	9.253 3727		9.260 4615		0.739 5385	9.992 9113		676	
325	9.253 4143	416	9.260 5045	430	0.739 4955	9.992 9099	14	675	
326	9.253 4559	416	9.260 5474	429	0.739 4526	9.992 9085	14	674	
		416		430			14		
327	9.253 4975		9.260 5904		0.739 4096	9.992 9071		673	
328	9.253 5391	416	9.260 6334	430	0.739 3666	9.992 9057	14	672	
329	9.253 5807	416	9.260 6764	430	0.739 3236	9.992 9044	13	671	
		416		429			14		
.330	9.253 6223		9.260 7193		0.739 2807	9.992 9030		**.670**	
		416		430			14		
331	9.253 6639		9.260 7623		0.739 2377	9.992 9016		669	
332	9.253 7055	416	9.260 8053	430	0.739 1947	9.992 9002	14	668	
333	9.253 7471	416	9.260 8482	429	0.739 1518	9.992 8988	14	667	
		415		430			14		
334	9.253 7886		9.260 8912		0.739 1088	9.992 8974		666	
335	9.253 8302	416	9.260 9341	429	0.739 0659	9.992 8961	13	665	
336	9.253 8718	416	9.260 9771	430	0.739 0229	9.992 8947	14	664	
		415		429			14		
337	9.253 9133		9.261 0200		0.738 9800	9.992 8933		663	
338	9.253 9549	416	9.261 0630	430	0.738 9370	9.992 8919	14	662	
339	9.253 9964	415	9.261 1059	429	0.738 8941	9.992 8905	14	661	
		416		429			14		
.340	9.254 0380		9.261 1488		0.738 8512	9.992 8891		**.660**	
		415		429			13		
341	9.254 0795		9.261 1917		0.738 8083	9.992 8878		659	
342	9.254 1210	415	9.261 2347	430	0.738 7653	9.992 8864	14	658	
343	9.254 1626	416	9.261 2776	429	0.738 7224	9.992 8850	14	657	
		415		429			14		
344	9.254 2041		9.261 3205		0.738 6795	9.992 8836		656	
345	9.254 2456	415	9.261 3634	429	0.738 6366	9.992 8822	14	655	
346	9.254 2872	416	9.261 4063	429	0.738 5937	9.992 8808	14	654	
		415		429			13		
347	9.254 3287		9.261 4492		0.738 5508	9.992 8795		653	
348	9.254 3702	415	9.261 4921	429	0.738 5079	9.992 8781	14	652	
349	9.254 4117	415	9.261 5350	429	0.738 4650	9.992 8767	14	651	
		415		429			14		
.350	9.254 4532		9.261 5779		0.738 4221	9.992 8753		**.650**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	431	430
1	43.1	43.0
2	86.2	86.0
3	129.3	129.0
4	172.4	172.0
5	215.5	215.0
6	258.6	258.0
7	301.7	301.0
8	344.8	344.0
9	387.9	387.0

	429	417
1	42.9	41.7
2	85.8	83.4
3	128.7	125.1
4	171.6	166.8
5	214.5	208.5
6	257.4	250.2
7	300.3	291.9
8	343.2	333.6
9	386.1	375.3

	416	415
1	41.6	41.5
2	83.2	83.0
3	124.8	124.5
4	166.4	166.0
5	208.0	207.5
6	249.6	249.0
7	291.2	290.5
8	332.8	332.0
9	374.4	373.5

	14
1	1.4
2	2.8
3	4.2
4	5.6
5	7.0
6	8.4
7	9.8
8	11.2
9	12.6

	13
1	1.3
2	2.6
3	3.9
4	5.2
5	6.5
6	7.8
7	9.1
8	10.4
9	11.7

$79^\circ.700 - 79^\circ.650$

$10^\circ.350 - 10^\circ.400$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.254 4532		9.261 5779		0.738 4221	9.992 8753		**.650**	
		415		429			14		
351	9.254 4947		9.261 6208		0.738 3792	9.992 8739		649	
352	9.254 5362	415	9.261 6637	429	0.738 3363	9.992 8725	14	648	
353	9.254 5777	415	9.261 7065	428	0.738 2935	9.992 8712	13	647	
		415		429			14		
354	9.254 6192		9.261 7494		0.738 2506	9.992 8698		646	
355	9.254 6607	415	9.261 7923	429	0.738 2077	9.992 8684	14	645	
356	9.254 7022	415	9.261 8351	428	0.738 1649	9.992 8670	14	644	
		414		429			14		
357	9.254 7436		9.261 8780		0.738 1220	9.992 8656		643	
358	9.254 7851	415	9.261 9209	429	0.738 0791	9.992 8642	14	642	
359	9.254 8266	415	9.261 9637	428	0.738 0363	9.992 8628	14	641	
		414		429			13		
.360	9.254 8680		9.262 0066		0.737 9934	9.992 8615		**.640**	
		415		428			14		
361	9.254 9095		9.262 0494		0.737 9506	9.992 8601		639	
362	9.254 9510	415	9.262 0923	429	0.737 9077	9.992 8587	14	638	
363	9.254 9924	414	9.262 1351	428	0.737 8649	9.992 8573	14	637	
		415		428			14		
364	9.255 0339		9.262 1779		0.737 8221	9.992 8559		636	
365	9.255 0753	414	9.262 2208	429	0.737 7792	9.992 8545	14	635	
366	9.255 1167	414	9.262 2636	428	0.737 7364	9.992 8531	14	634	
		415		428			13		
367	9.255 1582		9.262 3064		0.737 6936	9.992 8518		633	
368	9.255 1996	414	9.262 3492	428	0.737 6508	9.992 8504	14	632	
369	9.255 2410	414	9.262 3920	428	0.737 6080	9.992 8490	14	631	
		415		429			14		
.370	9.255 2825		9.262 4349		0.737 5651	9.992 8476		**.630**	
		414		428			14		
371	9.255 3239		9.262 4777		0.737 5223	9.992 8462		629	
372	9.255 3653	414	9.262 5205	428	0.737 4795	9.992 8448	14	628	
373	9.255 4067	414	9.262 5633	428	0.737 4367	9.992 8434	14	627	
		414		428			14		
374	9.255 4481		9.262 6061		0.737 3939	9.992 8420		626	
375	9.255 4895	414	9.262 6489	428	0.737 3511	9.992 8407	13	625	
376	9.255 5309	414	9.262 6916	427	0.737 3084	9.992 8393	14	624	
		414		428			14		
377	9.255 5723		9.262 7344		0.737 2656	9.992 8379		623	
378	9.255 6137	414	9.262 7772	428	0.737 2228	9.992 8365	14	622	
379	9.255 6551	414	9.262 8200	428	0.737 1800	9.992 8351	14	621	
		414		427			14		
.380	9.255 6965		9.262 8627		0.737 1373	9.992 8337		**.620**	
		413		428			14		
381	9.255 7378		9.262 9055		0.737 0945	9.992 8323		619	
382	9.255 7792	414	9.262 9483	428	0.737 0517	9.992 8309	14	618	
383	9.255 8206	414	9.262 9910	427	0.737 0090	9.992 8296	13	617	
		414		428			14		
384	9.255 8620		9.263 0338		0.736 9662	9.992 8282		616	
385	9.255 9033	413	9.263 0765	427	0.736 9235	9.992 8268	14	615	
386	9.255 9447	414	9.263 1193	428	0.736 8807	9.992 8254	14	614	
		413		427			14		
387	9.255 9860		9.263 1620		0.736 8380	9.992 8240		613	
388	9.256 0274	414	9.263 2048	428	0.736 7952	9.992 8226	14	612	
389	9.256 0687	413	9.263 2475	427	0.736 7525	9.992 8212	14	611	
		414		427			14		
.390	9.256 1101		9.263 2902		0.736 7098	9.992 8198		**.610**	
		413		428			14		
391	9.256 1514		9.263 3330		0.736 6670	9.992 8184		609	
392	9.256 1927	413	9.263 3757	427	0.736 6243	9.992 8170	14	608	
393	9.256 2341	414	9.263 4184	427	0.736 5816	9.992 8157	13	607	
		413		427			14		
394	9.256 2754		9.263 4611		0.736 5389	9.992 8143		606	
395	9.256 3167	413	9.263 5038	427	0.736 4962	9.992 8129	14	605	
396	9.256 3580	413	9.263 5466	428	0.736 4534	9.992 8115	14	604	
		414		427			14		
397	9.256 3994		9.263 5893		0.736 4107	9.992 8101		603	
398	9.256 4407	413	9.263 6320	427	0.736 3680	9.992 8087	14	602	
399	9.256 4820	413	9.263 6747	427	0.736 3253	9.992 8073	14	601	
		413		426			14		
.400	9.256 5233		9.263 7173		0.736 2827	9.992 8059		**.600**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	429	428
1	42.9	42.8
2	85.8	85.6
3	128.7	128.4
4	171.6	171.2
5	214.5	214.0
6	257.4	256.8
7	300.3	299.6
8	343.2	342.4
9	386.1	385.2

	427	426
1	42.7	42.6
2	85.4	85.2
3	128.1	127.8
4	170.8	170.4
5	213.5	213.0
6	256.2	255.6
7	298.9	298.2
8	341.6	340.8
9	384.3	383.4

	415	414
1	41.5	41.4
2	83.0	82.8
3	124.5	124.2
4	166.0	165.6
5	207.5	207.0
6	249.0	248.4
7	290.5	289.8
8	332.0	331.2
9	373.5	372.6

	413
1	41.3
2	82.6
3	123.9
4	165.2
5	206.5
6	247.8
7	289.1
8	330.4
9	371.7

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$79^\circ.650 - 79^\circ.600$

$10^\circ.400 - 10^\circ.450$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.256 5233		9.263 7173		0.736 2827	9.992 8059		**.600**	
		413		427			14		
401	9.256 5646		9.263 7600		0.736 2400	9.992 8045		599	
402	9.256 6059	413	9.263 8027	427	0.736 1973	9.992 8031	14	598	
403	9.256 6471	412	9.263 8454	427	0.736 1546	9.992 8017	14	597	
		413		427			13		
404	9.256 6884		9.263 8881		0.736 1119	9.992 8004		596	
405	9.256 7297	413	9.263 9307	426	0.736 0693	9.992 7990	14	595	
406	9.256 7710	413	9.263 9734	427	0.736 0266	9.992 7976	14	594	
		413		427			14		
407	9.256 8123		9.264 0161		0.735 9839	9.992 7962		593	
408	9.256 8535	412	9.264 0587	426	0.735 9413	9.992 7948	14	592	
409	9.256 8948	413	9.264 1014	427	0.735 8986	9.992 7934	14	591	
		413		427			14		
.410	9.256 9361		9.264 1441		0.735 8559	9.992 7920		**.590**	
		412		426			14		
411	9.256 9773		9.264 1867		0.735 8133	9.992 7906		589	
412	9.257 0186	413	9.264 2294	427	0.735 7706	9.992 7892	14	588	
413	9.257 0598	412	9.264 2720	426	0.735 7280	9.992 7878	14	587	
		413		426			14		
414	9.257 1011		9.264 3146		0.735 6854	9.992 7864		586	
415	9.257 1423	412	9.264 3573	427	0.735 6427	9.992 7850	14	585	
416	9.257 1835	412	9.264 3999	426	0.735 6001	9.992 7836	14	584	
		413		426			13		
417	9.257 2248		9.264 4425		0.735 5575	9.992 7823		583	
418	9.257 2660	412	9.264 4851	426	0.735 5149	9.992 7809	14	582	
419	9.257 3072	412	9.264 5278	427	0.735 4722	9.992 7795	14	581	
		412		426			14		
.420	9.257 3484		9.264 5704		0.735 4296	9.992 7781		**.580**	
		413		426			14		
421	9.257 3897		9.264 6130		0.735 3870	9.992 7767		579	
422	9.257 4309	412	9.264 6556	426	0.735 3444	9.992 7753	14	578	
423	9.257 4721	412	9.264 6982	426	0.735 3018	9.992 7739	14	577	
		412		426			14		
424	9.257 5133		9.264 7408		0.735 2592	9.992 7725		576	
425	9.257 5545	412	9.264 7834	426	0.735 2166	9.992 7711	14	575	
426	9.257 5957	412	9.264 8260	426	0.735 1740	9.992 7697	14	574	
		412		426			14		
427	9.257 6369		9.264 8686		0.735 1314	9.992 7683		573	
428	9.257 6781	412	9.264 9111	425	0.735 0889	9.992 7669	14	572	
429	9.257 7192	411	9.264 9537	426	0.735 0463	9.992 7655	14	571	
		412		426			14		
.430	9.257 7604		9.264 9963		0.735 0037	9.992 7641		**.570**	
		412		426			14		
431	9.257 8016		9.265 0389		0.734 9611	9.992 7627		569	
432	9.257 8428	412	9.265 0814	425	0.734 9186	9.992 7613	14	568	
433	9.257 8839	411	9.265 1240	426	0.734 8760	9.992 7599	14	567	
		412		426			14		
434	9.257 9251		9.265 1666		0.734 8334	9.992 7585		566	
435	9.257 9663	412	9.265 2091	425	0.734 7909	9.992 7571	14	565	
436	9.258 0074	411	9.265 2517	426	0.734 7483	9.992 7558	13	564	
		412		425			14		
437	9.258 0486		9.265 2942		0.734 7058	9.992 7544		563	
438	9.258 0897	411	9.265 3368	426	0.734 6632	9.992 7530	14	562	
439	9.258 1309	412	9.265 3793	425	0.734 6207	9.992 7516	14	561	
		411		425			14		
.440	9.258 1720		9.265 4218		0.734 5782	9.992 7502		**.560**	
		411		426			14		
441	9.258 2131		9.265 4644		0.734 5356	9.992 7488		559	
442	9.258 2543	412	9.265 5069	425	0.734 4931	9.992 7474	14	558	
443	9.258 2954	411	9.265 5494	425	0.734 4506	9.992 7460	14	557	
		411		425			14		
444	9.258 3365		9.265 5919		0.734 4081	9.992 7446		556	
445	9.258 3776	411	9.265 6345	426	0.734 3655	9.992 7432	14	555	
446	9.258 4188	412	9.265 6770	425	0.734 3230	9.992 7418	14	554	
		411		425			14		
447	9.258 4599		9.265 7195		0.734 2805	9.992 7404		553	
448	9.258 5010	411	9.265 7620	425	0.734 2380	9.992 7390	14	552	
449	9.258 5421	411	9.265 8045	425	0.734 1955	9.992 7376	14	551	
		411		425			14		
.450	9.258 5832		9.265 8470		0.734 1530	9.992 7362		**.550**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	427	426
1	42.7	42.6
2	85.4	85.2
3	128.1	127.8
4	170.8	170.4
5	213.5	213.0
6	256.2	255.6
7	298.9	298.2
8	341.6	340.8
9	384.3	383.4

	425	413
1	42.5	41.3
2	85.0	82.6
3	127.5	123.9
4	170.0	165.2
5	212.5	206.5
6	255.0	247.8
7	297.5	289.1
8	340.0	330.4
9	382.5	371.7

	412	411
1	41.2	41.1
2	82.4	82.2
3	123.6	123.3
4	164.8	164.4
5	206.0	205.5
6	247.2	246.6
7	288.4	287.7
8	329.6	328.8
9	370.8	369.9

	14	13
1	1.4	1.3
2	2.8	2.6
3	4.2	3.9
4	5.6	5.2
5	7.0	6.5
6	8.4	7.8
7	9.8	9.1
8	11.2	10.4
9	12.6	11.7

$79^\circ.600 - 79^\circ.550$

$10^\circ.450 - 10^\circ.500$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.258 5832		9.265 8470		0.734 1530	9.992 7362		**.550**	
		411		425			14		
451	9.258 6243		9.265 8895		0.734 1105	9.992 7348		549	
452	9.258 6654	411	9.265 9320	425	0.734 0680	9.992 7334	14	548	
453	9.258 7065	411	9.265 9745	425	0.734 0255	9.992 7320	14	547	
		410		424			14		
454	9.258 7475		9.266 0169		0.733 9831	9.992 7306		546	
455	9.258 7886	411	9.266 0594	425	0.733 9406	9.992 7292	14	545	
456	9.258 8297	411	9.266 1019	425	0.733 8981	9.992 7278	14	544	
		411		425			14		
457	9.258 8708		9.266 1444		0.733 8556	9.992 7264		543	
458	9.258 9118	410	9.266 1868	424	0.733 8132	9.992 7250	14	542	
459	9.258 9529	411	9.266 2293	425	0.733 7707	9.992 7236	14	541	
		411		424			14		
.460	9.258 9940		9.266 2717		0.733 7283	9.992 7222		**.540**	
		410		425			14		
461	9.259 0350		9.266 3142		0.733 6858	9.992 7208		539	
462	9.259 0761	411	9.266 3567	425	0.733 6433	9.992 7194	14	538	
463	9.259 1171	410	9.266 3991	424	0.733 6009	9.992 7180	14	537	
		411		424			14		
464	9.259 1582		9.266 4415		0.733 5585	9.992 7166		536	
465	9.259 1992	410	9.266 4840	425	0.733 5160	9.992 7152	14	535	
466	9.259 2402	410	9.266 5264	424	0.733 4736	9.992 7138	14	534	
		411		425			14		
467	9.259 2813		9.266 5689		0.733 4311	9.992 7124		533	
468	9.259 3223	410	9.266 6113	424	0.733 3887	9.992 7110	14	532	
469	9.259 3633	410	9.266 6537	424	0.733 3463	9.992 7096	14	531	
		410		424			14		
.470	9.259 4043		9.266 6961		0.733 3039	9.992 7082		**.530**	
		410		424			14		
471	9.259 4453		9.266 7385		0.733 2615	9.992 7068		529	
472	9.259 4864	411	9.266 7809	424	0.733 2191	9.992 7054	14	528	
473	9.259 5274	410	9.266 8234	425	0.733 1766	9.992 7040	14	527	
		410		424			14		
474	9.259 5684		9.266 8658		0.733 1342	9.992 7026		526	
475	9.259 6094	410	9.266 9082	424	0.733 0918	9.992 7012	14	525	
476	9.259 6504	410	9.266 9506	424	0.733 0494	9.992 6998	14	524	
		410		424			14		
477	9.259 6914		9.266 9930		0.733 0070	9.992 6984		523	
478	9.259 7323	409	9.267 0353	423	0.732 9647	9.992 6970	14	522	
479	9.259 7733	410	9.267 0777	424	0.732 9223	9.992 6956	14	521	
		410		424			14		
.480	9.259 8143		9.267 1201		0.732 8799	9.992 6942		**.520**	
		410		424			14		
481	9.259 8553		9.267 1625		0.732 8375	9.992 6928		519	
482	9.259 8962	409	9.267 2049	424	0.732 7951	9.992 6914	14	518	
483	9.259 9372	410	9.267 2472	423	0.732 7528	9.992 6900	14	517	
		410		424			14		
484	9.259 9782		9.267 2896		0.732 7104	9.992 6886		516	
485	9.260 0191	409	9.267 3320	424	0.732 6680	9.992 6872	14	515	
486	9.260 0601	410	9.267 3743	423	0.732 6257	9.992 6858	14	514	
		409		424			14		
487	9.260 1010		9.267 4167		0.732 5833	9.992 6844		513	
488	9.260 1420	410	9.267 4590	423	0.732 5410	9.992 6830	14	512	
489	9.260 1829	409	9.267 5014	424	0.732 4986	9.992 6816	14	511	
		410		423			14		
.490	9.260 2239		9.267 5437		0.732 4563	9.992 6802		**.510**	
		409		423			14		
491	9.260 2648		9.267 5860		0.732 4140	9.992 6788		509	
492	9.260 3057	409	9.267 6284	424	0.732 3716	9.992 6774	14	508	
493	9.260 3467	410	9.267 6707	423	0.732 3293	9.992 6760	14	507	
		409		423			15		
494	9.260 3876		9.267 7130		0.732 2870	9.992 6745		506	
495	9.260 4285	409	9.267 7554	424	0.732 2446	9.992 6731	14	505	
496	9.260 4694	409	9.267 7977	423	0.732 2023	9.992 6717	14	504	
		409		423			14		
497	9.260 5103		9.267 8400		0.732 1600	9.992 6703		503	
498	9.260 5512	409	9.267 8823	423	0.732 1177	9.992 6689	14	502	
499	9.260 5921	409	9.267 9246	423	0.732 0754	9.992 6675	14	501	
		409		423			14		
.500	9.260 6330		9.267 9669		0.732 0331	9.992 6661		**.500**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	425	424
1	42.5	42.4
2	85.0	84.8
3	127.5	127.2
4	170.0	169.6
5	212.5	212.0
6	255.0	254.4
7	297.5	296.8
8	340.0	339.2
9	382.5	381.6

	423	411
1	42.3	41.1
2	84.6	82.2
3	126.9	123.3
4	169.2	164.4
5	211.5	205.5
6	253.8	246.6
7	296.1	287.7
8	338.4	328.8
9	380.7	369.9

	410	409
1	41.0	40.9
2	82.0	81.8
3	123.0	122.7
4	164.0	163.6
5	205.0	204.5
6	246.0	245.4
7	287.0	286.3
8	328.0	327.2
9	369.0	368.1

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.550 - 79^\circ.500$

$10^\circ.500 - 10^\circ.550$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.260 6330		9.267 9669		0.732 0331	9.992 6661		**.500**	
		409		423			14		
501	9.260 6739		9.268 0092		0.731 9908	9.992 6647		499	
502	9.260 7148	409	9.268 0515	423	0.731 9485	9.992 6633	14	498	
503	9.260 7557	409	9.268 0938	423	0.731 9062	9.992 6619	14	497	
		409		423			14		
504	9.260 7966		9.268 1361		0.731 8639	9.992 6605		496	
505	9.260 8375	409	9.268 1784	423	0.731 8216	9.992 6591	14	495	
506	9.260 8784	409	9.268 2207	423	0.731 7793	9.992 6577	14	494	
		408		422			14		
507	9.260 9192		9.268 2629		0.731 7371	9.992 6563		493	
508	9.260 9601	409	9.268 3052	423	0.731 6948	9.992 6549	14	492	
509	9.261 0010	409	9.268 3475	423	0.731 6525	9.992 6535	14	491	
		408		423			14		
.510	9.261 0418		9.268 3898		0.731 6102	9.992 6521		**.490**	
		409		422			14		
511	9.261 0827		9.268 4320		0.731 5680	9.992 6507		489	
512	9.261 1235	408	9.268 4743	423	0.731 5257	9.992 6493	14	488	
513	9.261 1644	409	9.268 5165	422	0.731 4835	9.992 6478	15	487	
		408		423			14		
514	9.261 2052		9.268 5588		0.731 4412	9.992 6464		486	
515	9.261 2461	409	9.268 6010	422	0.731 3990	9.992 6450	14	485	
516	9.261 2869	408	9.268 6433	423	0.731 3567	9.992 6436	14	484	
		408		422			14		
517	9.261 3277		9.268 6855		0.731 3145	9.992 6422		483	
518	9.261 3686	409	9.268 7277	422	0.731 2723	9.992 6408	14	482	
519	9.261 4094	408	9.268 7700	423	0.731 2300	9.992 6394	14	481	
		408		422			14		
.520	9.261 4502		9.268 8122		0.731 1878	9.992 6380		**.480**	
		408		422			14		
521	9.261 4910		9.268 8544		0.731 1456	9.992 6366		479	
522	9.261 5318	408	9.268 8966	422	0.731 1034	9.992 6352	14	478	
523	9.261 5726	408	9.268 9389	423	0.731 0611	9.992 6338	14	477	
		408		422			14		
524	9.261 6134		9.268 9811		0.731 0189	9.992 6324		476	
525	9.261 6542	408	9.269 0233	422	0.730 9767	9.992 6310	14	475	
526	9.261 6950	408	9.269 0655	422	0.730 9345	9.992 6296	14	474	
		408		422			15		
527	9.261 7358		9.269 1077		0.730 8923	9.992 6281		473	
528	9.261 7766	408	9.269 1499	422	0.730 8501	9.992 6267	14	472	
529	9.261 8174	408	9.269 1921	422	0.730 8079	9.992 6253	14	471	
		408		422			14		
.530	9.261 8582		9.269 2343		0.730 7657	9.992 6239		**.470**	
		407		421			14		
531	9.261 8989		9.269 2764		0.730 7236	9.992 6225		469	
532	9.261 9397	408	9.269 3186	422	0.730 6814	9.992 6211	14	468	
533	9.261 9805	408	9.269 3608	422	0.730 6392	9.992 6197	14	467	
		408		422			14		
534	9.262 0213		9.269 4030		0.730 5970	9.992 6183		466	
535	9.262 0620	407	9.269 4451	421	0.730 5549	9.992 6169	14	465	
536	9.262 1028	408	9.269 4873	422	0.730 5127	9.992 6155	14	464	
		407		422			15		
537	9.262 1435		9.269 5295		0.730 4705	9.992 6140		463	
538	9.262 1843	408	9.269 5716	421	0.730 4284	9.992 6126	14	462	
539	9.262 2250	407	9.269 6138	422	0.730 3862	9.992 6112	14	461	
		408		421			14		
.540	9.262 2658		9.269 6559		0.730 3441	9.992 6098		**.460**	
		407		422			14		
541	9.262 3065		9.269 6981		0.730 3019	9.992 6084		459	
542	9.262 3472	407	9.269 7402	421	0.730 2598	9.992 6070	14	458	
543	9.262 3880	408	9.269 7824	422	0.730 2176	9.992 6056	14	457	
		407		421			14		
544	9.262 4287		9.269 8245		0.730 1755	9.992 6042		456	
545	9.262 4694	407	9.269 8666	421	0.730 1334	9.992 6028	14	455	
546	9.262 5101	407	9.269 9088	422	0.730 0912	9.992 6014	14	454	
		407		421			15		
547	9.262 5508		9.269 9509		0.730 0491	9.992 5999		453	
548	9.262 5915	407	9.269 9930	421	0.730 0070	9.992 5985	14	452	
549	9.262 6322	407	9.270 0351	421	0.729 9649	9.992 5971	14	451	
		407		421			14		
.550	9.262 6729		9.270 0772		0.729 9228	9.992 5957		**.450**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	423	422
1	42.3	42.2
2	84.6	84.4
3	126.9	126.6
4	169.2	168.8
5	211.5	211.0
6	253.8	253.2
7	296.1	295.4
8	338.4	337.6
9	380.7	379.8

	421	409
1	42.1	40.9
2	84.2	81.8
3	126.3	122.7
4	168.4	163.6
5	210.5	204.5
6	252.6	245.4
7	294.7	286.3
8	336.8	327.2
9	378.9	368.1

	408	407
1	40.8	40.7
2	81.6	81.4
3	122.4	122.1
4	163.2	162.8
5	204.0	203.5
6	244.8	244.2
7	285.6	284.9
8	326.4	325.6
9	367.2	366.3

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.500 - 79^\circ.450$

$10^\circ.550 - 10^\circ.600$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.262 6729		9.270 0772		0.729 9228	9.992 5957		**.450**	
		407		421			14		
551	9.262 7136		9.270 1193		0.729 8807	9.992 5943		449	
		407		421			14		
552	9.262 7543		9.270 1614		0.729 8386	9.992 5929		448	
		407		422			14		
553	9.262 7950		9.270 2036		0.729 7964	9.992 5915		447	
		407		420			14		
554	9.262 8357		9.270 2456		0.729 7544	9.992 5901		446	
		407		421			15		
555	9.262 8764		9.270 2877		0.729 7123	9.992 5886		445	
		407		421			14		
556	9.262 9171		9.270 3298		0.729 6702	9.992 5872		444	
		406		421			14		
557	9.262 9577		9.270 3719		0.729 6281	9.992 5858		443	
		407		421			14		
558	9.262 9984		9.270 4140		0.729 5860	9.992 5844		442	
		407		421			14		
559	9.263 0391		9.270 4561		0.729 5439	9.992 5830		441	
		406		421			14		
.560	9.263 0797		9.270 4982		0.729 5018	9.992 5816		**.440**	
		407		420			14		
561	9.263 1204		9.270 5402		0.729 4598	9.992 5802		439	
		406		421			14		
562	9.263 1610		9.270 5823		0.729 4177	9.992 5788		438	
		407		421			15		
563	9.263 2017		9.270 6244		0.729 3756	9.992 5773		437	
		406		420			14		
564	9.263 2423		9.270 6664		0.729 3336	9.992 5759		436	
		407		421			14		
565	9.263 2830		9.270 7085		0.729 2915	9.992 5745		435	
		406		420			14		
566	9.263 3236		9.270 7505		0.729 2495	9.992 5731		434	
		407		421			14		
567	9.263 3643		9.270 7926		0.729 2074	9.992 5717		433	
		406		420			14		
568	9.263 4049		9.270 8346		0.729 1654	9.992 5703		432	
		406		421			14		
569	9.263 4455		9.270 8767		0.729 1233	9.992 5689		431	
		406		420			15		
.570	9.263 4861		9.270 9187		0.729 0813	9.992 5674		**.430**	
		407		420			14		
571	9.263 5268		9.270 9607		0.729 0393	9.992 5660		429	
		406		421			14		
572	9.263 5674		9.271 0028		0.728 9972	9.992 5646		428	
		406		420			14		
573	9.263 6080		9.271 0448		0.728 9552	9.992 5632		427	
		406		420			14		
574	9.263 6486		9.271 0868		0.728 9132	9.992 5618		426	
		406		420			14		
575	9.263 6892		9.271 1288		0.728 8712	9.992 5604		425	
		406		420			14		
576	9.263 7298		9.271 1708		0.728 8292	9.992 5590		424	
		406		420			15		
577	9.263 7704		9.271 2128		0.728 7872	9.992 5575		423	
		406		420			14		
578	9.263 8110		9.271 2548		0.728 7452	9.992 5561		422	
		406		420			14		
579	9.263 8516		9.271 2968		0.728 7032	9.992 5547		421	
		405		420			14		
.580	9.263 8921		9.271 3388		0.728 6612	9.992 5533		**.420**	
		406		420			14		
581	9.263 9327		9.271 3808		0.728 6192	9.992 5519		419	
		406		420			14		
582	9.263 9733		9.271 4228		0.728 5772	9.992 5505		418	
		406		420			15		
583	9.264 0139		9.271 4648		0.728 5352	9.992 5490		417	
		405		420			14		
584	9.264 0544		9.271 5068		0.728 4932	9.992 5476		416	
		406		420			14		
585	9.264 0950		9.271 5488		0.728 4512	9.992 5462		415	
		406		420			14		
586	9.264 1356		9.271 5908		0.728 4092	9.992 5448		414	
		405		419			14		
587	9.264 1761		9.271 6327		0.728 3673	9.992 5434		413	
		406		420			14		
588	9.264 2167		9.271 6747		0.728 3253	9.992 5420		412	
		405		420			15		
589	9.264 2572		9.271 7167		0.728 2833	9.992 5405		411	
		406		419			14		
.590	9.264 2978		9.271 7586		0.728 2414	9.992 5391		**.410**	
		405		420			14		
591	9.264 3383		9.271 8006		0.728 1994	9.992 5377		409	
		405		419			14		
592	9.264 3788		9.271 8425		0.728 1575	9.992 5363		408	
		406		420			14		
593	9.264 4194		9.271 8845		0.728 1155	9.992 5349		407	
		405		419			14		
594	9.264 4599		9.271 9264		0.728 0736	9.992 5335		406	
		405		420			15		
595	9.264 5004		9.271 9684		0.728 0316	9.992 5320		405	
		405		419			14		
596	9.264 5409		9.272 0103		0.727 9897	9.992 5306		404	
		406		419			14		
597	9.264 5815		9.272 0522		0.727 9478	9.992 5292		403	
		405		420			14		
598	9.264 6220		9.272 0942		0.727 9058	9.992 5278		402	
		405		419			14		
599	9.264 6625		9.272 1361		0.727 8639	9.992 5264		401	
		405		419			14		
.600	9.264 7030		9.272 1780		0.727 8220	9.992 5250		**.400**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	422	421
1	42.2	42.1
2	84.4	84.2
3	126.6	126.3
4	168.8	168.4
5	211.0	210.5
6	253.2	252.6
7	295.4	294.7
8	337.6	336.8
9	379.8	378.9

	420	419
1	42.0	41.9
2	84.0	83.8
3	126.0	125.7
4	168.0	167.6
5	210.0	209.5
6	252.0	251.4
7	294.0	293.3
8	336.0	335.2
9	378.0	377.1

	407	406
1	40.7	40.6
2	81.4	81.2
3	122.1	121.8
4	162.8	162.4
5	203.5	203.0
6	244.2	243.6
7	284.9	284.2
8	325.6	324.8
9	366.3	365.4

	405
1	40.5
2	81.0
3	121.5
4	162.0
5	202.5
6	243.0
7	283.5
8	324.0
9	364.5

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.450 - 79^\circ.400$

$10^\circ.600 - 10^\circ.650$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.264 7030		9.272 1780		0.727 8220	9.992 5250		**.400**	
		405		419			15		
601	9.264 7435		9.272 2199		0.727 7801	9.992 5235		399	
602	9.264 7840	405	9.272 2619	420	0.727 7381	9.992 5221	14	398	
603	9.264 8245	405	9.272 3038	419	0.727 6962	9.992 5207	14	397	
		405		419			14		
604	9.264 8650		9.272 3457		0.727 6543	9.992 5193		396	
605	9.264 9054	404	9.272 3876	419	0.727 6124	9.992 5179	14	395	
606	9.264 9459	405	9.272 4295	419	0.727 5705	9.992 5164	15	394	
		405		419			14		
607	9.264 9864		9.272 4714		0.727 5286	9.992 5150		393	
608	9.265 0269	405	9.272 5133	419	0.727 4867	9.992 5136	14	392	
609	9.265 0673	404	9.272 5552	419	0.727 4448	9.992 5122	14	391	
		405		419			14		
.610	9.265 1078		9.272 5971		0.727 4029	9.992 5108		**.390**	
		405		418			15		
611	9.265 1483		9.272 6389		0.727 3611	9.992 5093		389	
612	9.265 1887	404	9.272 6808	419	0.727 3192	9.992 5079	14	388	
613	9.265 2292	405	9.272 7227	419	0.727 2773	9.992 5065	14	387	
		404		419			14		
614	9.265 2696		9.272 7646		0.727 2354	9.992 5051		386	
615	9.265 3101	405	9.272 8064	418	0.727 1936	9.992 5037	14	385	
616	9.265 3505	404	9.272 8483	419	0.727 1517	9.992 5022	15	384	
		405		418			14		
617	9.265 3910		9.272 8901		0.727 1099	9.992 5008		383	
618	9.265 4314	404	9.272 9320	419	0.727 0680	9.992 4994	14	382	
619	9.265 4718	404	9.272 9738	418	0.727 0262	9.992 4980	14	381	
		405		419			14		
.620	9.265 5123		9.273 0157		0.726 9843	9.992 4966		**.380**	
		404		418			15		
621	9.265 5527		9.273 0575		0.726 9425	9.992 4951		379	
622	9.265 5931	404	9.273 0994	419	0.726 9006	9.992 4937	14	378	
623	9.265 6335	404	9.273 1412	418	0.726 8588	9.992 4923	14	377	
		404		419			14		
624	9.265 6739		9.273 1831		0.726 8169	9.992 4909		376	
625	9.265 7143	404	9.273 2249	418	0.726 7751	9.992 4894	15	375	
626	9.265 7547	404	9.273 2667	418	0.726 7333	9.992 4880	14	374	
		404		418			14		
627	9.265 7951		9.273 3085		0.726 6915	9.992 4866		373	
628	9.265 8355	404	9.273 3503	418	0.726 6497	9.992 4852	14	372	
629	9.265 8759	404	9.273 3922	419	0.726 6078	9.992 4838	14	371	
		404		418			15		
.630	9.265 9163		9.273 4340		0.726 5660	9.992 4823		**.370**	
		404		418			14		
631	9.265 9567		9.273 4758		0.726 5242	9.992 4809		369	
632	9.265 9971	404	9.273 5176	418	0.726 4824	9.992 4795	14	368	
633	9.266 0374	403	9.273 5594	418	0.726 4406	9.992 4781	14	367	
		404		418			15		
634	9.266 0778		9.273 6012		0.726 3988	9.992 4766		366	
635	9.266 1182	404	9.273 6430	418	0.726 3570	9.992 4752	14	365	
636	9.266 1585	403	9.273 6848	418	0.726 3152	9.992 4738	14	364	
		404		417			14		
637	9.266 1989		9.273 7265		0.726 2735	9.992 4724		363	
638	9.266 2393	404	9.273 7683	418	0.726 2317	9.992 4710	14	362	
639	9.266 2796	403	9.273 8101	418	0.726 1899	9.992 4695	15	361	
		404		418			14		
.640	9.266 3200		9.273 8519		0.726 1481	9.992 4681		**.360**	
		403		417			14		
641	9.266 3603		9.273 8936		0.726 1064	9.992 4667		359	
642	9.266 4007	404	9.273 9354	418	0.726 0646	9.992 4653	14	358	
643	9.266 4410	403	9.273 9772	418	0.726 0228	9.992 4638	15	357	
		403		417			14		
644	9.266 4813		9.274 0189		0.725 9811	9.992 4624		356	
645	9.266 5217	404	9.274 0607	418	0.725 9393	9.992 4610	14	355	
646	9.266 5620	403	9.274 1024	417	0.725 8976	9.992 4596	14	354	
		403		418			15		
647	9.266 6023		9.274 1442		0.725 8558	9.992 4581		353	
648	9.266 6426	403	9.274 1859	417	0.725 8141	9.992 4567	14	352	
649	9.266 6829	403	9.274 2277	418	0.725 7723	9.992 4553	14	351	
		403		417			14		
.650	9.266 7232		9.274 2694		0.725 7306	9.992 4539		**.350**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	420	419
1	42.0	41.9
2	84.0	83.8
3	126.0	125.7
4	168.0	167.6
5	210.0	209.5
6	252.0	251.4
7	294.0	293.3
8	336.0	335.2
9	378.0	377.1

	418	417
1	41.8	41.7
2	83.6	83.4
3	125.4	125.1
4	167.2	166.8
5	209.0	208.5
6	250.8	250.2
7	292.6	291.9
8	334.4	333.6
9	376.2	375.3

	405	404
1	40.5	40.4
2	81.0	80.8
3	121.5	121.2
4	162.0	161.6
5	202.5	202.0
6	243.0	242.4
7	283.5	282.8
8	324.0	323.2
9	364.5	363.6

	403
1	40.3
2	80.6
3	120.9
4	161.2
5	201.5
6	241.8
7	282.1
8	322.4
9	362.7

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.400 - 79^\circ.350$

$10^\circ.650 - 10^\circ.700$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.266 7232		9.274 2694		0.725 7306	9.992 4539		**.350**	
		403		417			15		
651	9.266 7635		9.274 3111		0.725 6889	9.992 4524		349	
652	9.266 8039	404	9.274 3528	417	0.725 6472	9.992 4510	14	348	
653	9.266 8441	402	9.274 3946	418	0.725 6054	9.992 4496	14	347	
		403		417			14		
654	9.266 8844		9.274 4363		0.725 5637	9.992 4482		346	
655	9.266 9247	403	9.274 4780	417	0.725 5220	9.992 4467	15	345	
656	9.266 9650	403	9.274 5197	417	0.725 4803	9.992 4453	14	344	
		403		417			14		
657	9.267 0053		9.274 5614		0.725 4386	9.992 4439		343	
658	9.267 0456	403	9.274 6031	417	0.725 3969	9.992 4424	15	342	
659	9.267 0859	403	9.274 6448	417	0.725 3552	9.992 4410	14	341	
		402		417			14		
.660	9.267 1261		9.274 6865		0.725 3135	9.992 4396		**.340**	
		403		417			14		
661	9.267 1664		9.274 7282		0.725 2718	9.992 4382		339	
662	9.267 2067	403	9.274 7699	417	0.725 2301	9.992 4367	15	338	
663	9.267 2469	402	9.274 8116	417	0.725 1884	9.992 4353	14	337	
		403		417			14		
664	9.267 2872		9.274 8533		0.725 1467	9.992 4339		336	
665	9.267 3274	402	9.274 8950	417	0.725 1050	9.992 4325	14	335	
666	9.267 3677	403	9.274 9366	416	0.725 0634	9.992 4310	15	334	
		402		417			14		
667	9.267 4079		9.274 9783		0.725 0217	9.992 4296		333	
668	9.267 4482	403	9.275 0200	417	0.724 9800	9.992 4282	14	332	
669	9.267 4884	402	9.275 0616	416	0.724 9384	9.992 4267	15	331	
		402		417			14		
.670	9.267 5286		9.275 1033		0.724 8967	9.992 4253		**.330**	
		403		417			14		
671	9.267 5689		9.275 1450		0.724 8550	9.992 4239		329	
672	9.267 6091	402	9.275 1866	416	0.724 8134	9.992 4225	14	328	
673	9.267 6493	402	9.275 2283	417	0.724 7717	9.992 4210	15	327	
		402		416			14		
674	9.267 6895		9.275 2699		0.724 7301	9.992 4196		326	
675	9.267 7297	402	9.275 3116	417	0.724 6884	9.992 4182	14	325	
676	9.267 7699	402	9.275 3532	416	0.724 6468	9.992 4167	15	324	
		403		416			14		
677	9.267 8102		9.275 3948		0.724 6052	9.992 4153		323	
678	9.267 8504	402	9.275 4365	417	0.724 5635	9.992 4139	14	322	
679	9.267 8906	402	9.275 4781	416	0.724 5219	9.992 4125	14	321	
		401		416			15		
.680	9.267 9307		9.275 5197		0.724 4803	9.992 4110		**.320**	
		402		416			14		
681	9.267 9709		9.275 5613		0.724 4387	9.992 4096		319	
682	9.268 0111	402	9.275 6029	416	0.724 3971	9.992 4082	14	318	
683	9.268 0513	402	9.275 6446	417	0.724 3554	9.992 4067	15	317	
		402		416			14		
684	9.268 0915		9.275 6862		0.724 3138	9.992 4053		316	
685	9.268 1317	402	9.275 7278	416	0.724 2722	9.992 4039	14	315	
686	9.268 1718	401	9.275 7694	416	0.724 2306	9.992 4025	14	314	
		402		416			15		
687	9.268 2120		9.275 8110		0.724 1890	9.992 4010		313	
688	9.268 2522	402	9.275 8526	416	0.724 1474	9.992 3996	14	312	
689	9.268 2923	401	9.275 8942	416	0.724 1058	9.992 3982	14	311	
		402		415			15		
.690	9.268 3325		9.275 9357		0.724 0643	9.992 3967		**.310**	
		401		416			14		
691	9.268 3726		9.275 9773		0.724 0227	9.992 3953		309	
692	9.268 4128	402	9.276 0189	416	0.723 9811	9.992 3939	14	308	
693	9.268 4529	401	9.276 0605	416	0.723 9395	9.992 3924	15	307	
		402		416			14		
694	9.268 4931		9.276 1021		0.723 8979	9.992 3910		306	
695	9.268 5332	401	9.276 1436	415	0.723 8564	9.992 3896	14	305	
696	9.268 5733	401	9.276 1852	416	0.723 8148	9.992 3881	15	304	
		402		415			14		
697	9.268 6135		9.276 2267		0.723 7733	9.992 3867		303	
698	9.268 6536	401	9.276 2683	416	0.723 7317	9.992 3853	14	302	
699	9.268 6937	401	9.276 3099	416	0.723 6901	9.992 3838	15	301	
		401		415			14		
.700	9.268 7338		9.276 3514		0.723 6486	9.992 3824		**.300**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	418	417
1	41.8	41.7
2	83.6	83.4
3	125.4	125.1
4	167.2	166.8
5	209.0	208.5
6	250.8	250.2
7	292.6	291.9
8	334.4	333.6
9	376.2	375.3

	416	415
1	41.6	41.5
2	83.2	83.0
3	124.8	124.5
4	166.4	166.0
5	208.0	207.5
6	249.6	249.0
7	291.2	290.5
8	332.8	332.0
9	374.4	373.5

	404	403
1	40.4	40.3
2	80.8	80.6
3	121.2	120.9
4	161.6	161.2
5	202.0	201.5
6	242.4	241.8
7	282.8	282.1
8	323.2	322.4
9	363.6	362.7

	402	401
1	40.2	40.1
2	80.4	80.2
3	120.6	120.3
4	160.8	160.4
5	201.0	200.5
6	241.2	240.6
7	281.4	280.7
8	321.6	320.8
9	361.8	360.9

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.350 - 79^\circ.300$

$10^\circ.700 - 10^\circ.750$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.268 7338		9.276 3514		0.723 6486	9.992 3824		**.300**	
		401		416			14		
701	9.268 7739		9.276 3930		0.723 6070	9.992 3810		299	
702	9.268 8140	401	9.276 4345	415	0.723 5655	9.992 3796	14	298	
703	9.268 8541	401	9.276 4760	415	0.723 5240	9.992 3781	15	297	
		402		416			14		
704	9.268 8943		9.276 5176		0.723 4824	9.992 3767		296	
705	9.268 9343	400	9.276 5591	415	0.723 4409	9.992 3753	14	295	
706	9.268 9744	401	9.276 6006	415	0.723 3994	9.992 3738	15	294	
		401		415			14		
707	9.269 0145		9.276 6421		0.723 3579	9.992 3724		293	
708	9.269 0546	401	9.276 6837	416	0.723 3163	9.992 3710	14	292	
709	9.269 0947	401	9.276 7252	415	0.723 2748	9.992 3695	15	291	
		401		415			14		
.710	9.269 1348		9.276 7667		0.723 2333	9.992 3681		**.290**	
		401		415			14		
711	9.269 1749		9.276 8082		0.723 1918	9.992 3667		289	
712	9.269 2149	400	9.276 8497	415	0.723 1503	9.992 3652	15	288	
713	9.269 2550	401	9.276 8912	415	0.723 1088	9.992 3638	14	287	
		401		415			14		
714	9.269 2951		9.276 9327		0.723 0673	9.992 3624		286	
715	9.269 3351	400	9.276 9742	415	0.723 0258	9.992 3609	15	285	
716	9.269 3752	401	9.277 0157	415	0.722 9843	9.992 3595	14	284	
		400		415			15		
717	9.269 4152		9.277 0572		0.722 9428	9.992 3580		283	
718	9.269 4553	401	9.277 0987	415	0.722 9013	9.992 3566	14	282	
719	9.269 4953	400	9.277 1401	414	0.722 8599	9.992 3552	14	281	
		401		415			15		
.720	9.269 5354		9.277 1816		0.722 8184	9.992 3537		**.280**	
		400		415			14		
721	9.269 5754		9.277 2231		0.722 7769	9.992 3523		279	
722	9.269 6154	400	9.277 2646	415	0.722 7354	9.992 3509	14	278	
723	9.269 6555	401	9.277 3060	414	0.722 6940	9.992 3494	15	277	
		400		415			14		
724	9.269 6955		9.277 3475		0.722 6525	9.992 3480		276	
725	9.269 7355	400	9.277 3889	414	0.722 6111	9.992 3466	14	275	
726	9.269 7755	400	9.277 4304	415	0.722 5696	9.992 3451	15	274	
		400		414			14		
727	9.269 8155		9.277 4718		0.722 5282	9.992 3437		273	
728	9.269 8555	400	9.277 5133	415	0.722 4867	9.992 3423	14	272	
729	9.269 8956	401	9.277 5547	414	0.722 4453	9.992 3408	15	271	
		400		415			14		
.730	9.269 9356		9.277 5962		0.722 4038	9.992 3394		**.270**	
		400		414			14		
731	9.269 9756		9.277 6376		0.722 3624	9.992 3380		269	
732	9.270 0155	399	9.277 6790	414	0.722 3210	9.992 3365	15	268	
733	9.270 0555	400	9.277 7205	415	0.722 2795	9.992 3351	14	267	
		400		414			15		
734	9.270 0955		9.277 7619		0.722 2381	9.992 3336		266	
735	9.270 1355	400	9.277 8033	414	0.722 1967	9.992 3322	14	265	
736	9.270 1755	400	9.277 8447	414	0.722 1553	9.992 3308	14	264	
		400		414			15		
737	9.270 2155		9.277 8861		0.722 1139	9.992 3293		263	
738	9.270 2554	399	9.277 9275	414	0.722 0725	9.992 3279	14	262	
739	9.270 2954	400	9.277 9690	415	0.722 0310	9.992 3265	14	261	
		400		414			15		
.740	9.270 3354		9.278 0104		0.721 9896	9.992 3250		**.260**	
		399		414			14		
741	9.270 3753		9.278 0518		0.721 9482	9.992 3236		259	
742	9.270 4153	400	9.278 0931	413	0.721 9069	9.992 3221	15	258	
743	9.270 4552	399	9.278 1345	414	0.721 8655	9.992 3207	14	257	
		400		414			14		
744	9.270 4952		9.278 1759		0.721 8241	9.992 3193		256	
745	9.270 5351	399	9.278 2173	414	0.721 7827	9.992 3178	15	255	
746	9.270 5751	400	9.278 2587	414	0.721 7413	9.992 3164	14	254	
		399		414			15		
747	9.270 6150		9.278 3001		0.721 6999	9.992 3149		253	
748	9.270 6549	399	9.278 3414	413	0.721 6586	9.992 3135	14	252	
749	9.270 6949	400	9.278 3828	414	0.721 6172	9.992 3121	14	251	
		399		414			15		
.750	9.270 7348		9.278 4242		0.721 5758	9.992 3106		**.250**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	416	415
1	41.6	41.5
2	83.2	83.0
3	124.8	124.5
4	166.4	166.0
5	208.0	207.5
6	249.6	249.0
7	291.2	290.5
8	332.8	332.0
9	374.4	373.5

	414	413
1	41.4	41.3
2	82.8	82.6
3	124.2	123.9
4	165.6	165.2
5	207.0	206.5
6	248.4	247.8
7	289.8	289.1
8	331.2	330.4
9	372.6	371.7

	402	401
1	40.2	40.1
2	80.4	80.2
3	120.6	120.3
4	160.8	160.4
5	201.0	200.5
6	241.2	240.6
7	281.4	280.7
8	321.6	320.8
9	361.8	360.9

	400	399
1	40.0	39.9
2	80.0	79.8
3	120.0	119.7
4	160.0	159.6
5	200.0	199.5
6	240.0	239.4
7	280.0	279.3
8	320.0	319.2
9	360.0	359.1

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.300 - 79^\circ.250$

$10^\circ.750 - 10^\circ.800$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.270 7348		9.278 4242		0.721 5758	9.992 3106		**.250**	
		399		413			14		
751	9.270 7747		9.278 4655		0.721 5345	9.992 3092		249	
752	9.270 8146	399	9.278 5069	414	0.721 4931	9.992 3078	14	248	
753	9.270 8546	400	9.278 5482	413	0.721 4518	9.992 3063	15	247	
		399		414			14		
754	9.270 8945		9.278 5896		0.721 4104	9.992 3049		246	
755	9.270 9344	399	9.278 6309	413	0.721 3691	9.992 3034	15	245	
756	9.270 9743	399	9.278 6723	414	0.721 3277	9.992 3020	14	244	
		399		413			14		
757	9.271 0142		9.278 7136		0.721 2864	9.992 3006		243	
758	9.271 0541	399	9.278 7550	414	0.721 2450	9.992 2991	15	242	
759	9.271 0940	399	9.278 7963	413	0.721 2037	9.992 2977	14	241	
		399		413			15		
.760	9.271 1339		9.278 8376		0.721 1624	9.992 2962		**.240**	
		398		413			14		
761	9.271 1737		9.278 8789		0.721 1211	9.992 2948		239	
762	9.271 2136	399	9.278 9203	414	0.721 0797	9.992 2934	14	238	
763	9.271 2535	399	9.278 9616	413	0.721 0384	9.992 2919	15	237	
		399		413			14		
764	9.271 2934		9.279 0029		0.720 9971	9.992 2905		236	
765	9.271 3332	398	9.279 0442	413	0.720 9558	9.992 2890	15	235	
766	9.271 3731	399	9.279 0855	413	0.720 9145	9.992 2876	14	234	
		399		413			15		
767	9.271 4130		9.279 1268		0.720 8732	9.992 2861		233	
768	9.271 4528	398	9.279 1681	413	0.720 8319	9.992 2847	14	232	
769	9.271 4927	399	9.279 2094	413	0.720 7906	9.992 2833	14	231	
		398		413			15		
.770	9.271 5325		9.279 2507		0.720 7493	9.992 2818		**.230**	
		399		413			14		
771	9.271 5724		9.279 2920		0.720 7080	9.992 2804		229	
772	9.271 6122	398	9.279 3333	413	0.720 6667	9.992 2789	15	228	
773	9.271 6521	399	9.279 3746	413	0.720 6254	9.992 2775	14	227	
		398		412			14		
774	9.271 6919		9.279 4158		0.720 5842	9.992 2761		226	
775	9.271 7317	398	9.279 4571	413	0.720 5429	9.992 2746	15	225	
776	9.271 7716	399	9.279 4984	413	0.720 5016	9.992 2732	14	224	
		398		412			15		
777	9.271 8114		9.279 5396		0.720 4604	9.992 2717		223	
778	9.271 8512	398	9.279 5809	413	0.720 4191	9.992 2703	14	222	
779	9.271 8910	398	9.279 6222	413	0.720 3778	9.992 2688	15	221	
		398		412			14		
.780	9.271 9308		9.279 6634		0.720 3366	9.992 2674		**.220**	
		398		413			14		
781	9.271 9706		9.279 7047		0.720 2953	9.992 2660		219	
782	9.272 0104	398	9.279 7459	412	0.720 2541	9.992 2645	15	218	
783	9.272 0502	398	9.279 7872	413	0.720 2128	9.992 2631	14	217	
		398		412			15		
784	9.272 0900		9.279 8284		0.720 1716	9.992 2616		216	
785	9.272 1298	398	9.279 8697	413	0.720 1303	9.992 2602	14	215	
786	9.272 1696	398	9.279 9109	412	0.720 0891	9.992 2587	15	214	
		398		412			14		
787	9.272 2094		9.279 9521		0.720 0479	9.992 2573		213	
788	9.272 2492	398	9.279 9933	412	0.720 0067	9.992 2558	15	212	
789	9.272 2890	398	9.280 0346	413	0.719 9654	9.992 2544	14	211	
		397		412			14		
.790	9.272 3287		9.280 0758		0.719 9242	9.992 2530		**.210**	
		398		412			15		
791	9.272 3685		9.280 1170		0.719 8830	9.992 2515		209	
792	9.272 4083	398	9.280 1582	412	0.719 8418	9.992 2501	14	208	
793	9.272 4480	397	9.280 1994	412	0.719 8006	9.992 2486	15	207	
		398		412			14		
794	9.272 4878		9.280 2406		0.719 7594	9.992 2472		206	
795	9.272 5276	398	9.280 2818	412	0.719 7182	9.992 2457	15	205	
796	9.272 5673	397	9.280 3230	412	0.719 6770	9.992 2443	14	204	
		398		412			15		
797	9.272 6071		9.280 3642		0.719 6358	9.992 2428		203	
798	9.272 6468	397	9.280 4054	412	0.719 5946	9.992 2414	14	202	
799	9.272 6865	397	9.280 4466	412	0.719 5534	9.992 2400	14	201	
		398		412			15		
.800	9.272 7263		9.280 4878		0.719 5122	9.992 2385		**.200**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	414	413
1	41.4	41.3
2	82.8	82.6
3	124.2	123.9
4	165.6	165.2
5	207.0	206.5
6	248.4	247.8
7	289.8	289.1
8	331.2	330.4
9	372.6	371.7

	412	400
1	41.2	40.0
2	82.4	80.0
3	123.6	120.0
4	164.8	160.0
5	206.0	200.0
6	247.2	240.0
7	288.4	280.0
8	329.6	320.0
9	370.8	360.0

	399	398
1	39.9	39.8
2	79.8	79.6
3	119.7	119.4
4	159.6	159.2
5	199.5	199.0
6	239.4	238.8
7	279.3	278.6
8	319.2	318.4
9	359.1	358.2

	397
1	39.7
2	79.4
3	119.1
4	158.8
5	198.5
6	238.2
7	277.9
8	317.6
9	357.3

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.250 - 79^\circ.200$

$10^\circ.800 - 10^\circ.850$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.272 7263		9.280 4878		0.719 5122	9.992 2385		**.200**	
		397		412			14		
801	9.272 7660		9.280 5290		0.719 4710	9.992 2371		199	
802	9.272 8057	397	9.280 5701	411	0.719 4299	9.992 2356	15	198	
803	9.272 8455	398	9.280 6113	412	0.719 3887	9.992 2342	14	197	
		397		412			15		
804	9.272 8852		9.280 6525		0.719 3475	9.992 2327		196	
805	9.272 9249	397	9.280 6936	411	0.719 3064	9.992 2313	14	195	
806	9.272 9646	397	9.280 7348	412	0.719 2652	9.992 2298	15	194	
		397		412			14		
807	9.273 0043		9.280 7760		0.719 2240	9.992 2284		193	
808	9.273 0440	397	9.280 8171	411	0.719 1829	9.992 2269	15	192	
809	9.273 0837	397	9.280 8583	412	0.719 1417	9.992 2255	14	191	
		397		411			15		
.810	9.273 1234		9.280 8994		0.719 1006	9.992 2240		**.190**	
		397		411			14		
811	9.273 1631		9.280 9405		0.719 0595	9.992 2226		189	
812	9.273 2028	397	9.280 9817	412	0.719 0183	9.992 2211	15	188	
813	9.273 2425	397	9.281 0228	411	0.718 9772	9.992 2197	14	187	
		397		412			14		
814	9.273 2822		9.281 0640		0.718 9360	9.992 2183		186	
815	9.273 3219	397	9.281 1051	411	0.718 8949	9.992 2168	15	185	
816	9.273 3616	397	9.281 1462	411	0.718 8538	9.992 2154	14	184	
		396		411			15		
817	9.273 4012		9.281 1873		0.718 8127	9.992 2139		183	
818	9.273 4409	397	9.281 2284	411	0.718 7716	9.992 2125	14	182	
819	9.273 4806	397	9.281 2696	412	0.718 7304	9.992 2110	15	181	
		396		411			14		
.820	9.273 5202		9.281 3107		0.718 6893	9.992 2096		**.180**	
		397		411			15		
821	9.273 5599		9.281 3518		0.718 6482	9.992 2081		179	
822	9.273 5995	396	9.281 3929	411	0.718 6071	9.992 2067	14	178	
823	9.273 6392	397	9.281 4340	411	0.718 5660	9.992 2052	15	177	
		396		411			14		
824	9.273 6788		9.281 4751		0.718 5249	9.992 2038		176	
825	9.273 7185	397	9.281 5162	411	0.718 4838	9.992 2023	15	175	
826	9.273 7581	396	9.281 5573	411	0.718 4427	9.992 2009	14	174	
		397		410			15		
827	9.273 7978		9.281 5983		0.718 4017	9.992 1994		173	
828	9.273 8374	396	9.281 6394	411	0.718 3606	9.992 1980	14	172	
829	9.273 8770	396	9.281 6805	411	0.718 3195	9.992 1965	15	171	
		396		411			14		
.830	9.273 9166		9.281 7216		0.718 2784	9.992 1951		**.170**	
		397		410			15		
831	9.273 9563		9.281 7626		0.718 2374	9.992 1936		169	
832	9.273 9959	396	9.281 8037	411	0.718 1963	9.992 1922	14	168	
833	9.274 0355	396	9.281 8448	411	0.718 1552	9.992 1907	15	167	
		396		410			14		
834	9.274 0751		9.281 8858		0.718 1142	9.992 1893		166	
835	9.274 1147	396	9.281 9269	411	0.718 0731	9.992 1878	15	165	
836	9.274 1543	396	9.281 9679	410	0.718 0321	9.992 1864	14	164	
		396		411			15		
837	9.274 1939		9.282 0090		0.717 9910	9.992 1849		163	
838	9.274 2335	396	9.282 0500	410	0.717 9500	9.992 1835	14	162	
839	9.274 2731	396	9.282 0911	411	0.717 9089	9.992 1820	15	161	
		396		410			14		
.840	9.274 3127		9.282 1321		0.717 8679	9.992 1806		**.160**	
		396		411			15		
841	9.274 3523		9.282 1732		0.717 8268	9.992 1791		159	
842	9.274 3918	395	9.282 2142	410	0.717 7858	9.992 1777	14	158	
843	9.274 4314	396	9.282 2552	410	0.717 7448	9.992 1762	15	157	
		396		410			14		
844	9.274 4710		9.282 2962		0.717 7038	9.992 1748		156	
845	9.274 5106	396	9.282 3373	411	0.717 6627	9.992 1733	15	155	
846	9.274 5501	395	9.282 3783	410	0.717 6217	9.992 1718	15	154	
		396		410			14		
847	9.274 5897		9.282 4193		0.717 5807	9.992 1704		153	
848	9.274 6292	395	9.282 4603	410	0.717 5397	9.992 1689	15	152	
849	9.274 6688	396	9.282 5013	410	0.717 4987	9.992 1675	14	151	
		395		410			15		
.850	9.274 7083		9.282 5423		0.717 4577	9.992 1660		**.150**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	412	411
1	41.2	41.1
2	82.4	82.2
3	123.6	123.3
4	164.8	164.4
5	206.0	205.5
6	247.2	246.6
7	288.4	287.7
8	329.6	328.8
9	370.8	369.9

	410	398
1	41.0	39.8
2	82.0	79.6
3	123.0	119.4
4	164.0	159.2
5	205.0	199.0
6	246.0	238.8
7	287.0	278.6
8	328.0	318.4
9	369.0	358.2

	397	396
1	39.7	39.6
2	79.4	79.2
3	119.1	118.8
4	158.8	158.4
5	198.5	198.0
6	238.2	237.6
7	277.9	277.2
8	317.6	316.8
9	357.3	356.4

	395
1	39.5
2	79.0
3	118.5
4	158.0
5	197.5
6	237.0
7	276.5
8	316.0
9	355.5

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.200 - 79^\circ.150$

$10^\circ.850 - 10^\circ.900$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.274 7083		9.282 5423		0.717 4577	9.992 1660		**.150**	
		396		410			14		
851	9.274 7479		9.282 5833		0.717 4167	9.992 1646		149	
852	9.274 7874	395	9.282 6243	410	0.717 3757	9.992 1631	15	148	
853	9.274 8270	396	9.282 6653	410	0.717 3347	9.992 1617	14	147	
		395		410			15		
854	9.274 8665		9.282 7063		0.717 2937	9.992 1602		146	
855	9.274 9060	395	9.282 7473	410	0.717 2527	9.992 1588	14	145	
856	9.274 9456	396	9.282 7882	409	0.717 2118	9.992 1573	15	144	
		395		410			14		
857	9.274 9851		9.282 8292		0.717 1708	9.992 1559		143	
858	9.275 0246	395	9.282 8702	410	0.717 1298	9.992 1544	15	142	
859	9.275 0641	395	9.282 9112	410	0.717 0888	9.992 1530	14	141	
		395		409			15		
.860	9.275 1036		9.282 9521		0.717 0479	9.992 1515		**.140**	
		395		410			14		
861	9.275 1431		9.282 9931		0.717 0069	9.992 1501		139	
862	9.275 1826	395	9.283 0340	409	0.716 9660	9.992 1486	15	138	
863	9.275 2221	395	9.283 0750	410	0.716 9250	9.992 1471	15	137	
		395		410			14		
864	9.275 2616		9.283 1160		0.716 8840	9.992 1457		136	
865	9.275 3011	395	9.283 1569	409	0.716 8431	9.992 1442	15	135	
866	9.275 3406	395	9.283 1978	409	0.716 8022	9.992 1428	14	134	
		395		410			15		
867	9.275 3801		9.283 2388		0.716 7612	9.992 1413		133	
868	9.275 4196	395	9.283 2797	409	0.716 7203	9.992 1399	14	132	
869	9.275 4591	395	9.283 3207	410	0.716 6793	9.992 1384	15	131	
		394		409			14		
.870	9.275 4985		9.283 3616		0.716 6384	9.992 1370		**.130**	
		395		409			15		
871	9.275 5380		9.283 4025		0.716 5975	9.992 1355		129	
872	9.275 5775	395	9.283 4434	409	0.716 5566	9.992 1340	15	128	
873	9.275 6169	394	9.283 4844	410	0.716 5156	9.992 1326	14	127	
		395		409			15		
874	9.275 6564		9.283 5253		0.716 4747	9.992 1311		126	
875	9.275 6959	395	9.283 5662	409	0.716 4338	9.992 1297	14	125	
876	9.275 7353	394	9.283 6071	409	0.716 3929	9.992 1282	15	124	
		395		409			14		
877	9.275 7748		9.283 6480		0.716 3520	9.992 1268		123	
878	9.275 8142	394	9.283 6889	409	0.716 3111	9.992 1253	15	122	
879	9.275 8537	395	9.283 7298	409	0.716 2702	9.992 1239	14	121	
		394		409			15		
.880	9.275 8931		9.283 7707		0.716 2293	9.992 1224		**.120**	
		394		409			15		
881	9.275 9325		9.283 8116		0.716 1884	9.992 1209		119	
882	9.275 9720	395	9.283 8525	409	0.716 1475	9.992 1195	14	118	
883	9.276 0114	394	9.283 8934	409	0.716 1066	9.992 1180	15	117	
		394		408			14		
884	9.276 0508		9.283 9342		0.716 0658	9.992 1166		116	
885	9.276 0902	394	9.283 9751	409	0.716 0249	9.992 1151	15	115	
886	9.276 1296	394	9.284 0160	409	0.715 9840	9.992 1136	15	114	
		394		409			14		
887	9.276 1690		9.284 0569		0.715 9431	9.992 1122		113	
888	9.276 2085	395	9.284 0977	408	0.715 9023	9.992 1107	15	112	
889	9.276 2479	394	9.284 1386	409	0.715 8614	9.992 1093	14	111	
		394		408			15		
.890	9.276 2873		9.284 1794		0.715 8206	9.992 1078		**.110**	
		394		409			14		
891	9.276 3267		9.284 2203		0.715 7797	9.992 1064		109	
892	9.276 3661	394	9.284 2612	409	0.715 7388	9.992 1049	15	108	
893	9.276 4054	393	9.284 3020	408	0.715 6980	9.992 1034	15	107	
		394		408			14		
894	9.276 4448		9.284 3428		0.715 6572	9.992 1020		106	
895	9.276 4842	394	9.284 3837	409	0.715 6163	9.992 1005	15	105	
896	9.276 5236	394	9.284 4245	408	0.715 5755	9.992 0991	14	104	
		394		409			15		
897	9.276 5630		9.284 4654		0.715 5346	9.992 0976		103	
898	9.276 6023	393	9.284 5062	408	0.715 4938	9.992 0961	15	102	
899	9.276 6417	394	9.284 5470	408	0.715 4530	9.992 0947	14	101	
		394		408			15		
.900	9.276 6811		9.284 5878		0.715 4122	9.992 0932		**.100**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	410	409
1	41.0	40.9
2	82.0	81.8
3	123.0	122.7
4	164.0	163.6
5	205.0	204.5
6	246.0	245.4
7	287.0	286.3
8	328.0	327.2
9	369.0	368.1

	408	396
1	40.8	39.6
2	81.6	79.2
3	122.4	118.8
4	163.2	158.4
5	204.0	198.0
6	244.8	237.6
7	285.6	277.2
8	326.4	316.8
9	367.2	356.4

	395	394
1	39.5	39.4
2	79.0	78.8
3	118.5	118.2
4	158.0	157.6
5	197.5	197.0
6	237.0	236.4
7	276.5	275.8
8	316.0	315.2
9	355.5	354.6

	393
1	39.3
2	78.6
3	117.9
4	157.2
5	196.5
6	235.8
7	275.1
8	314.4
9	353.7

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.150 - 79^\circ.100$

$10^\circ.900 - 10^\circ.950$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.276 6811		9.284 5878		0.715 4122	9.992 0932		**.100**	
		393		409			14		
901	9.276 7204		9.284 6287		0.715 3713	9.992 0918		099	
902	9.276 7598	394	9.284 6695	408	0.715 3305	9.992 0903	15	098	
903	9.276 7991	393	9.284 7103	408	0.715 2897	9.992 0888	15	097	
		394		408			14		
904	9.276 8385		9.284 7511		0.715 2489	9.992 0874		096	
905	9.276 8778	393	9.284 7919	408	0.715 2081	9.992 0859	15	095	
906	9.276 9172	394	9.284 8327	408	0.715 1673	9.992 0845	14	094	
		393		408			15		
907	9.276 9565		9.284 8735		0.715 1265	9.992 0830		093	
908	9.276 9958	393	9.284 9143	408	0.715 0857	9.992 0815	15	092	
909	9.277 0352	394	9.284 9551	408	0.715 0449	9.992 0801	14	091	
		393		408			15		
.910	9.277 0745		9.284 9959		0.715 0041	9.992 0786		**.090**	
		393		408			14		
911	9.277 1138		9.285 0367		0.714 9633	9.992 0772		089	
912	9.277 1531	393	9.285 0774	407	0.714 9226	9.992 0757	15	088	
913	9.277 1925	394	9.285 1182	408	0.714 8818	9.992 0742	15	087	
		393		408			14		
914	9.277 2318		9.285 1590		0.714 8410	9.992 0728		086	
915	9.277 2711	393	9.285 1998	408	0.714 8002	9.992 0713	15	085	
916	9.277 3104	393	9.285 2405	407	0.714 7595	9.992 0699	14	084	
		393		408			15		
917	9.277 3497		9.285 2813		0.714 7187	9.992 0684		083	
918	9.277 3890	393	9.285 3220	407	0.714 6780	9.992 0669	15	082	
919	9.277 4283	393	9.285 3628	408	0.714 6372	9.992 0655	14	081	
		393		408			15		
.920	9.277 4676		9.285 4036		0.714 5964	9.992 0640		**.080**	
		392		407			15		
921	9.277 5068		9.285 4443		0.714 5557	9.992 0625		079	
922	9.277 5461	393	9.285 4850	407	0.714 5150	9.992 0611	14	078	
923	9.277 5854	393	9.285 5258	408	0.714 4742	9.992 0596	15	077	
		393		407			14		
924	9.277 6247		9.285 5665		0.714 4335	9.992 0582		076	
925	9.277 6640	393	9.285 6073	408	0.714 3927	9.992 0567	15	075	
926	9.277 7032	392	9.285 6480	407	0.714 3520	9.992 0552	15	074	
		393		407			14		
927	9.277 7425		9.285 6887		0.714 3113	9.992 0538		073	
928	9.277 7817	392	9.285 7294	407	0.714 2706	9.992 0523	15	072	
929	9.277 8210	393	9.285 7702	408	0.714 2298	9.992 0508	15	071	
		393		407			14		
.930	9.277 8603		9.285 8109		0.714 1891	9.992 0494		**.070**	
		392		407			15		
931	9.277 8995		9.285 8516		0.714 1484	9.992 0479		069	
932	9.277 9387	392	9.285 8923	407	0.714 1077	9.992 0464	15	068	
933	9.277 9780	393	9.285 9330	407	0.714 0670	9.992 0450	14	067	
		392		407			15		
934	9.278 0172		9.285 9737		0.714 0263	9.992 0435		066	
935	9.278 0565	393	9.286 0144	407	0.713 9856	9.992 0421	14	065	
936	9.278 0957	392	9.286 0551	407	0.713 9449	9.992 0406	15	064	
		392		407			15		
937	9.278 1349		9.286 0958		0.713 9042	9.992 0391		063	
938	9.278 1741	392	9.286 1365	407	0.713 8635	9.992 0377	14	062	
939	9.278 2134	393	9.286 1772	407	0.713 8228	9.992 0362	15	061	
		392		406			15		
.940	9.278 2526		9.286 2178		0.713 7822	9.992 0347		**.060**	
		392		407			14		
941	9.278 2918		9.286 2585		0.713 7415	9.992 0333		059	
942	9.278 3310	392	9.286 2992	407	0.713 7008	9.992 0318	15	058	
943	9.278 3702	392	9.286 3399	407	0.713 6601	9.992 0303	15	057	
		392		406			14		
944	9.278 4094		9.286 3805		0.713 6195	9.992 0289		056	
945	9.278 4486	392	9.286 4212	407	0.713 5788	9.992 0274	15	055	
946	9.278 4878	392	9.286 4619	407	0.713 5381	9.992 0259	15	054	
		392		406			14		
947	9.278 5270		9.286 5025		0.713 4975	9.992 0245		053	
948	9.278 5662	392	9.286 5432	407	0.713 4568	9.992 0230	15	052	
949	9.278 6054	392	9.286 5838	406	0.713 4162	9.992 0215	15	051	
		391		407			14		
.950	9.278 6445		9.286 6245		0.713 3755	9.992 0201		**.050**	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	409	408
1	40.9	40.8
2	81.8	81.6
3	122.7	122.4
4	163.6	163.2
5	204.5	204.0
6	245.4	244.8
7	286.3	285.6
8	327.2	326.4
9	368.1	367.2

	407	406
1	40.7	40.6
2	81.4	81.2
3	122.1	121.8
4	162.8	162.4
5	203.5	203.0
6	244.2	243.6
7	284.9	284.2
8	325.6	324.8
9	366.3	365.4

	394	393
1	39.4	39.3
2	78.8	78.6
3	118.2	117.9
4	157.6	157.2
5	197.0	196.5
6	236.4	235.8
7	275.8	275.1
8	315.2	314.4
9	354.6	353.7

	392	391
1	39.2	39.1
2	78.4	78.2
3	117.6	117.3
4	156.8	156.4
5	196.0	195.5
6	235.2	234.6
7	274.4	273.7
8	313.6	312.8
9	352.8	351.9

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.100 - 79^\circ.050$

$10^\circ.950 - 11^\circ.000$

10°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.278 6445		9.286 6245		0.713 3755	9.992 0201		.050	
		392		406			15		
951	9.278 6837		9.286 6651		0.713 3349	9.992 0186		049	
952	9.278 7229	392	9.286 7057	406	0.713 2943	9.992 0171	15	048	
953	9.278 7621	392	9.286 7464	407	0.713 2536	9.992 0157	14	047	
		391		406			15		
954	9.278 8012		9.286 7870		0.713 2130	9.992 0142		046	
955	9.278 8404	392	9.286 8276	406	0.713 1724	9.992 0127	15	045	
956	9.278 8795	391	9.286 8683	407	0.713 1317	9.992 0113	14	044	
		392		406			15		
957	9.278 9187		9.286 9089		0.713 0911	9.992 0098		043	
958	9.278 9578	391	9.286 9495	406	0.713 0505	9.992 0083	15	042	
959	9.278 9970	392	9.286 9901	406	0.713 0099	9.992 0069	14	041	
		391		406			15		
.960	9.279 0361		9.287 0307		0.712 9693	9.992 0054		.040	
		392		406			15		
961	9.279 0753		9.287 0713		0.712 9287	9.992 0039		039	
962	9.279 1144	391	9.287 1119	406	0.712 8881	9.992 0025	14	038	
963	9.279 1535	391	9.287 1525	406	0.712 8475	9.992 0010	15	037	
		392		406			15		
964	9.279 1927		9.287 1931		0.712 8069	9.991 9995		036	
965	9.279 2318	391	9.287 2337	406	0.712 7663	9.991 9981	14	035	
966	9.279 2709	391	9.287 2743	406	0.712 7257	9.991 9966	15	034	
		391		406			15		
967	9.279 3100		9.287 3149		0.712 6851	9.991 9951		033	
968	9.279 3491	391	9.287 3555	406	0.712 6445	9.991 9937	14	032	
969	9.279 3882	391	9.287 3961	406	0.712 6039	9.991 9922	15	031	
		392		405			15		
.970	9.279 4274		9.287 4366		0.712 5634	9.991 9907		.030	
		391		406			15		
971	9.279 4665		9.287 4772		0.712 5228	9.991 9892		029	
972	9.279 5056	391	9.287 5178	406	0.712 4822	9.991 9878	14	028	
973	9.279 5447	391	9.287 5583	405	0.712 4417	9.991 9863	15	027	
		390		406			15		
974	9.279 5837		9.287 5989		0.712 4011	9.991 9848		026	
975	9.279 6228	391	9.287 6395	406	0.712 3605	9.991 9834	14	025	
976	9.279 6619	391	9.287 6800	405	0.712 3200	9.991 9819	15	024	
		391		406			15		
977	9.279 7010		9.287 7206		0.712 2794	9.991 9804		023	
978	9.279 7401	391	9.287 7611	405	0.712 2389	9.991 9790	14	022	
979	9.279 7791	390	9.287 8017	406	0.712 1983	9.991 9775	15	021	
		391		405			15		
.980	9.279 8182		9.287 8422		0.712 1578	9.991 9760		.020	
		391		405			15		
981	9.279 8573		9.287 8827		0.712 1173	9.991 9745		019	
982	9.279 8963	390	9.287 9233	406	0.712 0767	9.991 9731	14	018	
983	9.279 9354	391	9.287 9638	405	0.712 0362	9.991 9716	15	017	
		391		405			15		
984	9.279 9745		9.288 0043		0.711 9957	9.991 9701		016	
985	9.280 0135	390	9.288 0448	405	0.711 9552	9.991 9687	14	015	
986	9.280 0526	391	9.288 0854	406	0.711 9146	9.991 9672	15	014	
		390		405			15		
987	9.280 0916		9.288 1259		0.711 8741	9.991 9657		013	
988	9.280 1306	390	9.288 1664	405	0.711 8336	9.991 9642	15	012	
989	9.280 1697	391	9.288 2069	405	0.711 7931	9.991 9628	14	011	
		390		405			15		
.990	9.280 2087		9.288 2474		0.711 7526	9.991 9613		.010	
		390		405			15		
991	9.280 2477		9.288 2879		0.711 7121	9.991 9598		009	
992	9.280 2868	391	9.288 3284	405	0.711 6716	9.991 9584	14	008	
993	9.280 3258	390	9.288 3689	405	0.711 6311	9.991 9569	15	007	
		390		405			15		
994	9.280 3648		9.288 4094		0.711 5906	9.991 9554		006	
995	9.280 4038	390	9.288 4499	405	0.711 5501	9.991 9539	15	005	
996	9.280 4428	390	9.288 4904	405	0.711 5096	9.991 9525	14	004	
		390		404			15		
997	9.280 4818		9.288 5308		0.711 4692	9.991 9510		003	
998	9.280 5208	390	9.288 5713	405	0.711 4287	9.991 9495	15	002	
999	9.280 5598	390	9.288 6118	405	0.711 3882	9.991 9480	15	001	
		390		405			14		
*000	9.280 5988		9.288 6523		0.711 3477	9.991 9466		.000	
	cos	d	cotg	d	tang	sin	d	79°	P.P.

	407	406
1	40.7	40.6
2	81.4	81.2
3	122.1	121.8
4	162.8	162.4
5	203.5	203.0
6	244.2	243.6
7	284.9	284.2
8	325.6	324.8
9	366.3	365.4

	405	404
1	40.5	40.4
2	81.0	80.8
3	121.5	121.2
4	162.0	161.6
5	202.5	202.0
6	243.0	242.4
7	283.5	282.8
8	324.0	323.2
9	364.5	363.6

	392	391
1	39.2	39.1
2	78.4	78.2
3	117.6	117.3
4	156.8	156.4
5	196.0	195.5
6	235.2	234.6
7	274.4	273.7
8	313.6	312.8
9	352.8	351.9

	390
1	39.0
2	78.0
3	117.0
4	156.0
5	195.0
6	234.0
7	273.0
8	312.0
9	351.0

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

$79^\circ.050 - 79^\circ.000$

11°.000 — 11°.050

11°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.280 5988		9.288 6523		0.711 3477	9.991 9466		*000	
		390		404			15		
001	9.280 6378		9.288 6927		0.711 3073	9.991 9451		999	
002	9.280 6768	390	9.288 7332	405	0.711 2668	9.991 9436	15	998	
003	9.280 7158	390	9.288 7737	405	0.711 2263	9.991 9422	14	997	
		390		404			15		
004	9.280 7548		9.288 8141		0.711 1859	9.991 9407		996	
005	9.280 7938	390	9.288 8546	405	0.711 1454	9.991 9392	15	995	
006	9.280 8327	389	9.288 8950	404	0.711 1050	9.991 9377	15	994	
		390		405			14		
007	9.280 8717		9.288 9355		0.711 0645	9.991 9363		993	
008	9.280 9107	390	9.288 9759	404	0.711 0241	9.991 9348	15	992	
009	9.280 9497	390	9.289 0163	404	0.710 9837	9.991 9333	15	991	
		389		405			15		
.010	9.280 9886		9.289 0568		0.710 9432	9.991 9318		.990	
		390		404			14		
011	9.281 0276		9.289 0972		0.710 9028	9.991 9304		989	
012	9.281 0665	389	9.289 1376	404	0.710 8624	9.991 9289	15	988	
013	9.281 1055	390	9.289 1781	405	0.710 8219	9.991 9274	15	987	
		389		404			15		
014	9.281 1444		9.289 2185		0.710 7815	9.991 9259		986	
015	9.281 1834	390	9.289 2589	404	0.710 7411	9.991 9245	14	985	
016	9.281 2223	389	9.289 2993	404	0.710 7007	9.991 9230	15	984	
		389		404			15		
017	9.281 2612		9.289 3397		0.710 6603	9.991 9215		983	
018	9.281 3002	390	9.289 3801	404	0.710 6199	9.991 9200	15	982	
019	9.281 3391	389	9.289 4205	404	0.710 5795	9.991 9186	14	981	
		389		404			15		
.020	9.281 3780		9.289 4609		0.710 5391	9.991 9171		.980	
		389		404			15		
021	9.281 4169		9.289 5013		0.710 4987	9.991 9156		979	
022	9.281 4559	390	9.289 5417	404	0.710 4583	9.991 9141	15	978	
023	9.281 4948	389	9.289 5821	404	0.710 4179	9.991 9127	14	977	
		389		404			15		
024	9.281 5337		9.289 6225		0.710 3775	9.991 9112		976	
025	9.281 5726	389	9.289 6629	404	0.710 3371	9.991 9097	15	975	
026	9.281 6115	389	9.289 7033	404	0.710 2967	9.991 9082	15	974	
		389		403			15		
027	9.281 6504		9.289 7436		0.710 2564	9.991 9067		973	
028	9.281 6893	389	9.289 7840	404	0.710 2160	9.991 9053	14	972	
029	9.281 7282	389	9.289 8244	404	0.710 1756	9.991 9038	15	971	
		389		404			15		
.030	9.281 7671		9.289 8648		0.710 1352	9.991 9023		.970	
		388		403			15		
031	9.281 8059		9.289 9051		0.710 0949	9.991 9008		969	
032	9.281 8448	389	9.289 9455	404	0.710 0545	9.991 8994	14	968	
033	9.281 8837	389	9.289 9858	403	0.710 0142	9.991 8979	15	967	
		389		404			15		
034	9.281 9226		9.290 0262		0.709 9738	9.991 8964		966	
035	9.281 9615	389	9.290 0665	403	0.709 9335	9.991 8949	15	965	
036	9.282 0003	388	9.290 1069	404	0.709 8931	9.991 8934	15	964	
		389		403			14		
037	9.282 0392		9.290 1472		0.709 8528	9.991 8920		963	
038	9.282 0780	388	9.290 1876	404	0.709 8124	9.991 8905	15	962	
039	9.282 1169	389	9.290 2279	403	0.709 7721	9.991 8890	15	961	
		388		403			15		
.040	9.282 1557		9.290 2682		0.709 7318	9.991 8875		.960	
		389		403			14		
041	9.282 1946		9.290 3085		0.709 6915	9.991 8861		959	
042	9.282 2334	388	9.290 3489	404	0.709 6511	9.991 8846	15	958	
043	9.282 2723	389	9.290 3892	403	0.709 6108	9.991 8831	15	957	
		388		403			15		
044	9.282 3111		9.290 4295		0.709 5705	9.991 8816		956	
045	9.282 3500	389	9.290 4698	403	0.709 5302	9.991 8801	15	955	
046	9.282 3888	388	9.290 5101	403	0.709 4899	9.991 8787	14	954	
		388		403			15		
047	9.282 4276		9.290 5504		0.709 4496	9.991 8772		953	
048	9.282 4664	388	9.290 5907	403	0.709 4093	9.991 8757	15	952	
049	9.282 5053	389	9.290 6310	403	0.709 3690	9.991 8742	15	951	
		388		403			15		
.050	9.282 5441		9.290 6713		0.709 3287	9.991 8727		.950	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	405	404
1	40.5	40.4
2	81.0	80.8
3	121.5	121.2
4	162.0	161.6
5	202.5	202.0
6	243.0	242.4
7	283.5	282.8
8	324.0	323.2
9	364.5	363.6

	403	390
1	40.3	39.0
2	80.6	78.0
3	120.9	117.0
4	161.2	156.0
5	201.5	195.0
6	241.8	234.0
7	282.1	273.0
8	322.4	312.0
9	362.7	351.0

	389	388
1	38.9	38.8
2	77.8	77.6
3	116.7	116.4
4	155.6	155.2
5	194.5	194.0
6	233.4	232.8
7	272.3	271.6
8	311.2	310.4
9	350.1	349.2

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

79°.000 — 78°.950

11°.050 — 11°.100

11°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.282 5441		9.290 6713		0.709 3287	9.991 8727		.950	
		388		403			14		
051	9.282 5829		9.290 7116		0.709 2884	9.991 8713		949	
052	9.282 6217	388	9.290 7519	403	0.709 2481	9.991 8698	15	948	
053	9.282 6605	388	9.290 7922	403	0.709 2078	9.991 8683	15	947	
		388		403			15		
054	9.282 6993		9.290 8325		0.709 1675	9.991 8668		946	
055	9.282 7381	388	9.290 8728	403	0.709 1272	9.991 8653	15	945	
056	9.282 7769	388	9.290 9130	402	0.709 0870	9.991 8639	14	944	
		388		403			15		
057	9.282 8157		9.290 9533		0.709 0467	9.991 8624		943	
058	9.282 8545	388	9.290 9936	403	0.709 0064	9.991 8609	15	942	
059	9.282 8933	388	9.291 0338	402	0.708 9662	9.991 8594	15	941	
		387		403			15		
.060	9.282 9320		9.291 0741		0.708 9259	9.991 8579		.940	
		388		403			15		
061	9.282 9708		9.291 1144		0.708 8856	9.991 8564		939	
062	9.283 0096	388	9.291 1546	402	0.708 8454	9.991 8550	14	938	
063	9.283 0483	387	9.291 1949	403	0.708 8051	9.991 8535	15	937	
		388		402			15		
064	9.283 0871		9.291 2351		0.708 7649	9.991 8520		936	
065	9.283 1259	388	9.291 2754	403	0.708 7246	9.991 8505	15	935	
066	9.283 1646	387	9.291 3156	402	0.708 6844	9.991 8490	15	934	
		388		402			14		
067	9.283 2034		9.291 3558		0.708 6442	9.991 8476		933	
068	9.283 2421	387	9.291 3961	403	0.708 6039	9.991 8461	15	932	
069	9.283 2809	388	9.291 4363	402	0.708 5637	9.991 8446	15	931	
		387		402			15		
.070	9.283 3196		9.291 4765		0.708 5235	9.991 8431		.930	
		388		403			15		
071	9.283 3584		9.291 5168		0.708 4832	9.991 8416		929	
072	9.283 3971	387	9.291 5570	402	0.708 4430	9.991 8401	15	928	
073	9.283 4358	387	9.291 5972	402	0.708 4028	9.991 8387	14	927	
		388		402			15		
074	9.283 4746		9.291 6374		0.708 3626	9.991 8372		926	
075	9.283 5133	387	9.291 6776	402	0.708 3224	9.991 8357	15	925	
076	9.283 5520	387	9.291 7178	402	0.708 2822	9.991 8342	15	924	
		387		402			15		
077	9.283 5907		9.291 7580		0.708 2420	9.991 8327		923	
078	9.283 6295	388	9.291 7982	402	0.708 2018	9.991 8312	15	922	
079	9.283 6682	387	9.291 8384	402	0.708 1616	9.991 8298	14	921	
		387		402			15		
.080	9.283 7069		9.291 8786		0.708 1214	9.991 8283		.920	
		387		402			15		
081	9.283 7456		9.291 9188		0.708 0812	9.991 8268		919	
082	9.283 7843	387	9.291 9590	402	0.708 0410	9.991 8253	15	918	
083	9.283 8230	387	9.291 9992	402	0.708 0008	9.991 8238	15	917	
		387		401			15		
084	9.283 8617		9.292 0393		0.707 9607	9.991 8223		916	
085	9.283 9004	387	9.292 0795	402	0.707 9205	9.991 8208	15	915	
086	9.283 9391	387	9.292 1197	402	0.707 8803	9.991 8194	14	914	
		386		402			15		
087	9.283 9777		9.292 1599		0.707 8401	9.991 8179		913	
088	9.284 0164	387	9.292 2000	401	0.707 8000	9.991 8164	15	912	
089	9.284 0551	387	9.292 2402	402	0.707 7598	9.991 8149	15	911	
		387		401			15		
.090	9.284 0938		9.292 2803		0.707 7197	9.991 8134		.910	
		386		402			15		
091	9.284 1324		9.292 3205		0.707 6795	9.991 8119		909	
092	9.284 1711	387	9.292 3607	402	0.707 6393	9.991 8104	15	908	
093	9.284 2098	387	9.292 4008	401	0.707 5992	9.991 8090	14	907	
		386		401			15		
094	9.284 2484		9.292 4409		0.707 5591	9.991 8075		906	
095	9.284 2871	387	9.292 4811	402	0.707 5189	9.991 8060	15	905	
096	9.284 3257	386	9.292 5212	401	0.707 4788	9.991 8045	15	904	
		387		402			15		
097	9.284 3644		9.292 5614		0.707 4386	9.991 8030		903	
098	9.284 4030	386	9.292 6015	401	0.707 3985	9.991 8015	15	902	
099	9.284 4417	387	9.292 6416	401	0.707 3584	9.991 8000	15	901	
		386		401			14		
.100	9.284 4803		9.292 6817		0.707 3183	9.991 7986		.900	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	403	402
1	40.3	40.2
2	80.6	80.4
3	120.9	120.6
4	161.2	160.8
5	201.5	201.0
6	241.8	241.2
7	282.1	281.4
8	322.4	321.6
9	362.7	361.8

	401	388
1	40.1	38.8
2	80.2	77.6
3	120.3	116.4
4	160.4	155.2
5	200.5	194.0
6	240.6	232.8
7	280.7	271.6
8	320.8	310.4
9	360.9	349.2

	387	386
1	38.7	38.6
2	77.4	77.2
3	116.1	115.8
4	154.8	154.4
5	193.5	193.0
6	232.2	231.6
7	270.9	270.2
8	309.6	308.8
9	348.3	347.4

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

78°.950 — 78°.900

11°.100 — 11°.150

11°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.284 4803		9.292 6817		0.707 3183	9.991 7986		.900	
		386		402			15		
101	9.284 5189		9.292 7219		0.707 2781	9.991 7971		899	
102	9.284 5576	387	9.292 7620	401	0.707 2380	9.991 7956	15	898	
103	9.284 5962	386	9.292 8021	401	0.707 1979	9.991 7941	15	897	
		386		401			15		
104	9.284 6348		9.292 8422		0.707 1578	9.991 7926		896	
105	9.284 6734	386	9.292 8823	401	0.707 1177	9.991 7911	15	895	
106	9.284 7120	386	9.292 9224	401	0.707 0776	9.991 7896	15	894	
		386		401			15		
107	9.284 7506		9.292 9625		0.707 0375	9.991 7881		893	
108	9.284 7893	387	9.293 0026	401	0.706 9974	9.991 7867	14	892	
109	9.284 8279	386	9.293 0427	401	0.706 9573	9.991 7852	15	891	
		386		401			15		
.110	9.284 8665		9.293 0828		0.706 9172	9.991 7837		.890	
		386		401			15		
111	9.284 9051		9.293 1229		0.706 8771	9.991 7822		889	
112	9.284 9437	386	9.293 1630	401	0.706 8370	9.991 7807	15	888	
113	9.284 9822	385	9.293 2030	400	0.706 7970	9.991 7792	15	887	
		386		401			15		
114	9.285 0208		9.293 2431		0.706 7569	9.991 7777		886	
115	9.285 0594	386	9.293 2832	401	0.706 7168	9.991 7762	15	885	
116	9.285 0980	386	9.293 3233	401	0.706 6767	9.991 7747	15	884	
		386		400			14		
117	9.285 1366		9.293 3633		0.706 6367	9.991 7733		883	
118	9.285 1751	385	9.293 4034	401	0.706 5966	9.991 7718	15	882	
119	9.285 2137	386	9.293 4434	400	0.706 5566	9.991 7703	15	881	
		386		401			15		
.120	9.285 2523		9.293 4835		0.706 5165	9.991 7688		.880	
		385		400			15		
121	9.285 2908		9.293 5235		0.706 4765	9.991 7673		879	
122	9.285 3294	386	9.293 5636	401	0.706 4364	9.991 7658	15	878	
123	9.285 3679	385	9.293 6036	400	0.706 3964	9.991 7643	15	877	
		386		401			15		
124	9.285 4065		9.293 6437		0.706 3563	9.991 7628		876	
125	9.285 4450	385	9.293 6837	400	0.706 3163	9.991 7613	15	875	
126	9.285 4836	386	9.293 7238	401	0.706 2762	9.991 7598	15	874	
		385		400			14		
127	9.285 5221		9.293 7638		0.706 2362	9.991 7584		873	
128	9.285 5607	386	9.293 8038	400	0.706 1962	9.991 7569	15	872	
129	9.285 5992	385	9.293 8438	400	0.706 1562	9.991 7554	15	871	
		385		401			15		
.130	9.285 6377		9.293 8839		0.706 1161	9.991 7539		.870	
		386		400			15		
131	9.285 6763		9.293 9239		0.706 0761	9.991 7524		869	
132	9.285 7148	385	9.293 9639	400	0.706 0361	9.991 7509	15	868	
133	9.285 7533	385	9.294 0039	400	0.705 9961	9.991 7494	15	867	
		385		400			15		
134	9.285 7918		9.294 0439		0.705 9561	9.991 7479		866	
135	9.285 8303	385	9.294 0839	400	0.705 9161	9.991 7464	15	865	
136	9.285 8688	385	9.294 1239	400	0.705 8761	9.991 7449	15	864	
		385		400			15		
137	9.285 9073		9.294 1639		0.705 8361	9.991 7434		863	
138	9.285 9458	385	9.294 2039	400	0.705 7961	9.991 7419	15	862	
139	9.285 9843	385	9.294 2439	400	0.705 7561	9.991 7405	14	861	
		385		400			15		
.140	9.286 0228		9.294 2839		0.705 7161	9.991 7390		.860	
		385		400			15		
141	9.286 0613		9.294 3239		0.705 6761	9.991 7375		859	
142	9.286 0998	385	9.294 3638	399	0.705 6362	9.991 7360	15	858	
143	9.286 1383	385	9.294 4038	400	0.705 5962	9.991 7345	15	857	
		385		400			15		
144	9.286 1768		9.294 4438		0.705 5562	9.991 7330		856	
145	9.286 2153	385	9.294 4838	400	0.705 5162	9.991 7315	15	855	
146	9.286 2537	384	9.294 5237	399	0.705 4763	9.991 7300	15	854	
		385		400			15		
147	9.286 2922		9.294 5637		0.705 4363	9.991 7285		853	
148	9.286 3307	385	9.294 6037	400	0.705 3963	9.991 7270	15	852	
149	9.286 3691	384	9.294 6436	399	0.705 3564	9.991 7255	15	851	
		385		400			15		
.150	9.286 4076		9.294 6836		0.705 3164	9.991 7240		.850	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	402	401
1	40.2	40.1
2	80.4	80.2
3	120.6	120.3
4	160.8	160.4
5	201.0	200.5
6	241.2	240.6
7	281.4	280.7
8	321.6	320.8
9	361.8	360.9

	400	399
1	40.0	39.9
2	80.0	79.8
3	120.0	119.7
4	160.0	159.6
5	200.0	199.5
6	240.0	239.4
7	280.0	279.3
8	320.0	319.2
9	360.0	359.1

	387	386
1	38.7	38.6
2	77.4	77.2
3	116.1	115.8
4	154.8	154.4
5	193.5	193.0
6	232.2	231.6
7	270.9	270.2
8	309.6	308.8
9	348.3	347.4

	385	384
1	38.5	38.4
2	77.0	76.8
3	115.5	115.2
4	154.0	153.6
5	192.5	192.0
6	231.0	230.4
7	269.5	268.8
8	308.0	307.2
9	346.5	345.6

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

78°.900 — 78°.850

11°.150 — 11°.200

11°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.286 4076		9.294 6836		0.705 3164	9.991 7240		.850	
		384		399			15		
151	9.286 4460		9.294 7235		0.705 2765	9.991 7225		849	
152	9.286 4845	385	9.294 7635	400	0.705 2365	9.991 7210	15	848	
153	9.286 5229	384	9.294 8034	399	0.705 1966	9.991 7195	15	847	
		385		399			15		
154	9.286 5614		9.294 8433		0.705 1567	9.991 7180		846	
155	9.286 5998	384	9.294 8833	400	0.705 1167	9.991 7166	14	845	
156	9.286 6383	385	9.294 9232	399	0.705 0768	9.991 7151	15	844	
		384		399			15		
157	9.286 6767		9.294 9631		0.705 0369	9.991 7136		843	
158	9.286 7151	384	9.295 0031	400	0.704 9969	9.991 7121	15	842	
159	9.286 7536	385	9.295 0430	399	0.704 9570	9.991 7106	15	841	
		384		399			15		
.160	9.286 7920		9.295 0829		0.704 9171	9.991 7091		.840	
		384		399			15		
161	9.286 8304		9.295 1228		0.704 8772	9.991 7076		839	
162	9.286 8688	384	9.295 1627	399	0.704 8373	9.991 7061	15	838	
163	9.286 9072	384	9.295 2026	399	0.704 7974	9.991 7046	15	837	
		384		399			15		
164	9.286 9456		9.295 2425		0.704 7575	9.991 7031		836	
165	9.286 9840	384	9.295 2824	399	0.704 7176	9.991 7016	15	835	
166	9.287 0224	384	9.295 3223	399	0.704 6777	9.991 7001	15	834	
		384		399			15		
167	9.287 0608		9.295 3622		0.704 6378	9.991 6986		833	
168	9.287 0992	384	9.295 4021	399	0.704 5979	9.991 6971	15	832	
169	9.287 1376	384	9.295 4420	399	0.704 5580	9.991 6956	15	831	
		384		399			15		
.170	9.287 1760		9.295 4819		0.704 5181	9.991 6941		.830	
		384		399			15		
171	9.287 2144		9.295 5218		0.704 4782	9.991 6926		829	
172	9.287 2528	384	9.295 5617	399	0.704 4383	9.991 6911	15	828	
173	9.287 2912	384	9.295 6015	398	0.704 3985	9.991 6896	15	827	
		383		399			15		
174	9.287 3295		9.295 6414		0.704 3586	9.991 6881		826	
175	9.287 3679	384	9.295 6813	399	0.704 3187	9.991 6866	15	825	
176	9.287 4063	384	9.295 7211	398	0.704 2789	9.991 6851	15	824	
		383		399			15		
177	9.287 4446		9.295 7610		0.704 2390	9.991 6836		823	
178	9.287 4830	384	9.295 8009	399	0.704 1991	9.991 6821	15	822	
179	9.287 5214	384	9.295 8407	398	0.704 1593	9.991 6806	15	821	
		383		399			15		
.180	9.287 5597		9.295 8806		0.704 1194	9.991 6791		.820	
		384		398			15		
181	9.287 5981		9.295 9204		0.704 0796	9.991 6776		819	
182	9.287 6364	383	9.295 9603	399	0.704 0397	9.991 6761	15	818	
183	9.287 6748	384	9.296 0001	398	0.703 9999	9.991 6746	15	817	
		383		398			14		
184	9.287 7131		9.296 0399		0.703 9601	9.991 6732		816	
185	9.287 7514	383	9.296 0798	399	0.703 9202	9.991 6717	15	815	
186	9.287 7898	384	9.296 1196	398	0.703 8804	9.991 6702	15	814	
		383		398			15		
187	9.287 8281		9.296 1594		0.703 8406	9.991 6687		813	
188	9.287 8664	383	9.296 1993	399	0.703 8007	9.991 6672	15	812	
189	9.287 9047	383	9.296 2391	398	0.703 7609	9.991 6657	15	811	
		384		398			15		
.190	9.287 9431		9.296 2789		0.703 7211	9.991 6642		.810	
		383		398			15		
191	9.287 9814		9.296 3187		0.703 6813	9.991 6627		809	
192	9.288 0197	383	9.296 3585	398	0.703 6415	9.991 6612	15	808	
193	9.288 0580	383	9.296 3983	398	0.703 6017	9.991 6597	15	807	
		383		398			15		
194	9.288 0963		9.296 4381		0.703 5619	9.991 6582		806	
195	9.288 1346	383	9.296 4779	398	0.703 5221	9.991 6567	15	805	
196	9.288 1729	383	9.296 5177	398	0.703 4823	9.991 6552	15	804	
		383		398			15		
197	9.288 2112		9.296 5575		0.703 4425	9.991 6537		803	
198	9.288 2495	383	9.296 5973	398	0.703 4027	9.991 6522	15	802	
199	9.288 2878	383	9.296 6371	398	0.703 3629	9.991 6507	15	801	
		382		398			15		
.200	9.288 3260		9.296 6769		0.703 3231	9.991 6492		.800	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

78°.850 — 78°.800

P.P.

	400	399
1	40.0	39.9
2	80.0	79.8
3	120.0	119.7
4	160.0	159.6
5	200.0	199.5
6	240.0	239.4
7	280.0	279.3
8	320.0	319.2
9	360.0	359.1

	398	385
1	39.8	38.5
2	79.6	77.0
3	119.4	115.5
4	159.2	154.0
5	199.0	192.5
6	238.8	231.0
7	278.6	269.5
8	318.4	308.0
9	358.2	346.5

	384	383
1	38.4	38.3
2	76.8	76.6
3	115.2	114.9
4	153.6	153.2
5	192.0	191.5
6	230.4	229.8
7	268.8	268.1
8	307.2	306.4
9	345.6	344.7

	382
1	38.2
2	76.4
3	114.6
4	152.8
5	191.0
6	229.2
7	267.4
8	305.6
9	343.8

	15	14
1	1.5	1.4
2	3.0	2.8
3	4.5	4.2
4	6.0	5.6
5	7.5	7.0
6	9.0	8.4
7	10.5	9.8
8	12.0	11.2
9	13.5	12.6

11°.200 — 11°.250

11°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.288 3260		9.296 6769		0.703 3231	9.991 6492		.800	
		383		398			15		
201	9.288 3643		9.296 7167		0.703 2833	9.991 6477		799	
202	9.288 4026	383	9.296 7564	397	0.703 2436	9.991 6462	15	798	
203	9.288 4409	383	9.296 7962	398	0.703 2038	9.991 6447	15	797	
		382		398			16		
204	9.288 4791		9.296 8360		0.703 1640	9.991 6431		796	
205	9.288 5174	383	9.296 8758	398	0.703 1242	9.991 6416	15	795	
206	9.288 5557	383	9.296 9155	397	0.703 0845	9.991 6401	15	794	
		382		398			15		
207	9.288 5939		9.296 9553		0.703 0447	9.991 6386		793	
208	9.288 6322	383	9.296 9950	397	0.703 0050	9.991 6371	15	792	
209	9.288 6704	382	9.297 0348	398	0.702 9652	9.991 6356	15	791	
		383		397			15		
.210	9.288 7087		9.297 0745		0.702 9255	9.991 6341		.790	
		382		398			15		
211	9.288 7469		9.297 1143		0.702 8857	9.991 6326		789	
212	9.288 7852	383	9.297 1540	397	0.702 8460	9.991 6311	15	788	
213	9.288 8234	382	9.297 1938	398	0.702 8062	9.991 6296	15	787	
		382		397			15		
214	9.288 8616		9.297 2335		0.702 7665	9.991 6281		786	
215	9.288 8999	383	9.297 2732	397	0.702 7268	9.991 6266	15	785	
216	9.288 9381	382	9.297 3130	398	0.702 6870	9.991 6251	15	784	
		382		397			15		
217	9.288 9763		9.297 3527		0.702 6473	9.991 6236		783	
218	9.289 0145	382	9.297 3924	397	0.702 6076	9.991 6221	15	782	
219	9.289 0527	382	9.297 4321	397	0.702 5679	9.991 6206	15	781	
		383		398			15		
.220	9.289 0910		9.297 4719		0.702 5281	9.991 6191		.780	
		382		397			15		
221	9.289 1292		9.297 5116		0.702 4884	9.991 6176		779	
222	9.289 1674	382	9.297 5513	397	0.702 4487	9.991 6161	15	778	
223	9.289 2056	382	9.297 5910	397	0.702 4090	9.991 6146	15	777	
		382		397			15		
224	9.289 2438		9.297 6307		0.702 3693	9.991 6131		776	
225	9.289 2820	382	9.297 6704	397	0.702 3296	9.991 6116	15	775	
226	9.289 3202	382	9.297 7101	397	0.702 2899	9.991 6101	15	774	
		382		397			15		
227	9.289 3584		9.297 7498		0.702 2502	9.991 6086		773	
228	9.289 3965	381	9.297 7895	397	0.702 2105	9.991 6071	15	772	
229	9.289 4347	382	9.297 8291	396	0.702 1709	9.991 6056	15	771	
		382		397			15		
.230	9.289 4729		9.297 8688		0.702 1312	9.991 6041		.770	
		382		397			15		
231	9.289 5111		9.297 9085		0.702 0915	9.991 6026		769	
232	9.289 5492	381	9.297 9482	397	0.702 0518	9.991 6011	15	768	
233	9.289 5874	382	9.297 9879	397	0.702 0121	9.991 5996	15	767	
		382		396			16		
234	9.289 6256		9.298 0275		0.701 9725	9.991 5980		766	
235	9.289 6637	381	9.298 0672	397	0.701 9328	9.991 5965	15	765	
236	9.289 7019	382	9.298 1069	397	0.701 8931	9.991 5950	15	764	
		381		396			15		
237	9.289 7400		9.298 1465		0.701 8535	9.991 5935		763	
238	9.289 7782	382	9.298 1862	397	0.701 8138	9.991 5920	15	762	
239	9.289 8163	381	9.298 2258	396	0.701 7742	9.991 5905	15	761	
		382		397			15		
.240	9.289 8545		9.298 2655		0.701 7345	9.991 5890		.760	
		381		396			15		
241	9.289 8926		9.298 3051		0.701 6949	9.991 5875		759	
242	9.289 9308	382	9.298 3448	397	0.701 6552	9.991 5860	15	758	
243	9.289 9689	381	9.298 3844	396	0.701 6156	9.991 5845	15	757	
		381		396			15		
244	9.290 0070		9.298 4240		0.701 5760	9.991 5830		756	
245	9.290 0451	381	9.298 4637	397	0.701 5363	9.991 5815	15	755	
246	9.290 0833	382	9.298 5033	396	0.701 4967	9.991 5800	15	754	
		381		396			15		
247	9.290 1214		9.298 5429		0.701 4571	9.991 5785		753	
248	9.290 1595	381	9.298 5826	397	0.701 4174	9.991 5770	15	752	
249	9.290 1976	381	9.298 6222	396	0.701 3778	9.991 5754	16	751	
		381		396			15		
.250	9.290 2357		9.298 6618		0.701 3382	9.991 5739		.750	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	398	397
1	39.8	39.7
2	79.6	79.4
3	119.4	119.1
4	159.2	158.8
5	199.0	198.5
6	238.8	238.2
7	278.6	277.9
8	318.4	317.6
9	358.2	357.3

	396
1	39.6
2	79.2
3	118.8
4	158.4
5	198.0
6	237.6
7	277.2
8	316.8
9	356.4

	383	382
1	38.3	38.2
2	76.6	76.4
3	114.9	114.6
4	153.2	152.8
5	191.5	191.0
6	229.8	229.2
7	268.1	267.4
8	306.4	305.6
9	344.7	343.8

	381
1	38.1
2	76.2
3	114.3
4	152.4
5	190.5
6	228.6
7	266.7
8	304.8
9	342.9

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

78°.800 — 78°.750

11°.250 — 11°.300

11°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.290 2357		9.298 6618		0.701 3382	9.991 5739		.750	
		381		396			15		
251	9.290 2738		9.298 7014		0.701 2986	9.991 5724		749	
252	9.290 3119	381	9.298 7410	396	0.701 2590	9.991 5709	15	748	
253	9.290 3500	381	9.298 7806	396	0.701 2194	9.991 5694	15	747	
		381		396			15		
254	9.290 3881		9.298 8202		0.701 1798	9.991 5679		746	
255	9.290 4262	381	9.298 8598	396	0.701 1402	9.991 5664	15	745	
256	9.290 4643	381	9.298 8994	396	0.701 1006	9.991 5649	15	744	
		381		396			15		
257	9.290 5024		9.298 9390		0.701 0610	9.991 5634		743	
258	9.290 5405	381	9.298 9786	396	0.701 0214	9.991 5619	15	742	
259	9.290 5785	380	9.299 0182	396	0.700 9818	9.991 5604	15	741	
		381		396			15		
.260	9.290 6166		9.299 0578		0.700 9422	9.991 5589		.740	
		381		395			16		
261	9.290 6547		9.299 0973		0.700 9027	9.991 5573		739	
262	9.290 6928	381	9.299 1369	396	0.700 8631	9.991 5558	15	738	
263	9.290 7308	380	9.299 1765	396	0.700 8235	9.991 5543	15	737	
		381		396			15		
264	9.290 7689		9.299 2161		0.700 7839	9.991 5528		736	
265	9.290 8069	380	9.299 2556	395	0.700 7444	9.991 5513	15	735	
266	9.290 8450	381	9.299 2952	396	0.700 7048	9.991 5498	15	734	
		380		395			15		
267	9.290 8830		9.299 3347		0.700 6653	9.991 5483		733	
268	9.290 9211	381	9.299 3743	396	0.700 6257	9.991 5468	15	732	
269	9.290 9591	380	9.299 4139	396	0.700 5861	9.991 5453	15	731	
		381		395			15		
.270	9.290 9972		9.299 4534		0.700 5466	9.991 5438		.730	
		380		396			16		
271	9.291 0352		9.299 4930		0.700 5070	9.991 5422		729	
272	9.291 0732	380	9.299 5325	395	0.700 4675	9.991 5407	15	728	
273	9.291 1113	381	9.299 5720	395	0.700 4280	9.991 5392	15	727	
		380		396			15		
274	9.291 1493		9.299 6116		0.700 3884	9.991 5377		726	
275	9.291 1873	380	9.299 6511	395	0.700 3489	9.991 5362	15	725	
276	9.291 2253	380	9.299 6906	395	0.700 3094	9.991 5347	15	724	
		380		396			15		
277	9.291 2633		9.299 7302		0.700 2698	9.991 5332		723	
278	9.291 3013	380	9.299 7697	395	0.700 2303	9.991 5317	15	722	
279	9.291 3394	381	9.299 8092	395	0.700 1908	9.991 5302	15	721	
		380		395			16		
.280	9.291 3774		9.299 8487		0.700 1513	9.991 5286		.720	
		380		395			15		
281	9.291 4154		9.299 8882		0.700 1118	9.991 5271		719	
282	9.291 4534	380	9.299 9277	395	0.700 0723	9.991 5256	15	718	
283	9.291 4914	380	9.299 9672	395	0.700 0328	9.991 5241	15	717	
		379		395			15		
284	9.291 5293		9.300 0067		0.699 9933	9.991 5226		716	
285	9.291 5673	380	9.300 0462	395	0.699 9538	9.991 5211	15	715	
286	9.291 6053	380	9.300 0857	395	0.699 9143	9.991 5196	15	714	
		380		395			15		
287	9.291 6433		9.300 1252		0.699 8748	9.991 5181		713	
288	9.291 6813	380	9.300 1647	395	0.699 8353	9.991 5165	16	712	
289	9.291 7192	379	9.300 2042	395	0.699 7958	9.991 5150	15	711	
		380		395			15		
.290	9.291 7572		9.300 2437		0.699 7563	9.991 5135		.710	
		380		395			15		
291	9.291 7952		9.300 2832		0.699 7168	9.991 5120		709	
292	9.291 8331	379	9.300 3227	395	0.699 6773	9.991 5105	15	708	
293	9.291 8711	380	9.300 3621	394	0.699 6379	9.991 5090	15	707	
		380		395			15		
294	9.291 9091		9.300 4016		0.699 5984	9.991 5075		706	
295	9.291 9470	379	9.300 4411	395	0.699 5589	9.991 5060	15	705	
296	9.291 9850	380	9.300 4805	394	0.699 5195	9.991 5044	16	704	
		379		395			15		
297	9.292 0229		9.300 5200		0.699 4800	9.991 5029		703	
298	9.292 0608	379	9.300 5594	394	0.699 4406	9.991 5014	15	702	
299	9.292 0988	380	9.300 5989	395	0.699 4011	9.991 4999	15	701	
		379		394			15		
.300	9.292 1367		9.300 6383		0.699 3617	9.991 4984		.700	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

78°.750 — 78°.700

P.P.

	396	395
1	39.6	39.5
2	79.2	79.0
3	118.8	118.5
4	158.4	158.0
5	198.0	197.5
6	237.6	237.0
7	277.2	276.5
8	316.8	316.0
9	356.4	355.5

	394
1	39.4
2	78.8
3	118.2
4	157.6
5	197.0
6	236.4
7	275.8
8	315.2
9	354.6

	381	380
1	38.1	38.0
2	76.2	76.0
3	114.3	114.0
4	152.4	152.0
5	190.5	190.0
6	228.6	228.0
7	266.7	266.0
8	304.8	304.0
9	342.9	342.0

	379
1	37.9
2	75.8
3	113.7
4	151.6
5	189.5
6	227.4
7	265.3
8	303.2
9	341.1

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

$11^\circ.300 - 11^\circ.350$

11°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.292 1367		9.300 6383		0.699 3617	9.991 4984		.700	
		380		395			15		
301	9.292 1747		9.300 6778		0.699 3222	9.991 4969		699	
302	9.292 2126	379	9.300 7172	394	0.699 2828	9.991 4954	15	698	
303	9.292 2505	379	9.300 7567	395	0.699 2433	9.991 4938	16	697	
		379		394			15		
304	9.292 2884		9.300 7961		0.699 2039	9.991 4923		696	
305	9.292 3263	379	9.300 8355	394	0.699 1645	9.991 4908	15	695	
306	9.292 3643	380	9.300 8750	395	0.699 1250	9.991 4893	15	694	
		379		394			15		
307	9.292 4022		9.300 9144		0.699 0856	9.991 4878		693	
308	9.292 4401	379	9.300 9538	394	0.699 0462	9.991 4863	15	692	
309	9.292 4780	379	9.300 9932	394	0.699 0068	9.991 4847	16	691	
		379		395			15		
.310	9.292 5159		9.301 0327		0.698 9673	9.991 4832		.690	
		379		394			15		
311	9.292 5538		9.301 0721		0.698 9279	9.991 4817		689	
312	9.292 5917	379	9.301 1115	394	0.698 8885	9.991 4802	15	688	
313	9.292 6296	379	9.301 1509	394	0.698 8491	9.991 4787	15	687	
		379		394			15		
314	9.292 6675		9.301 1903		0.698 8097	9.991 4772		686	
315	9.292 7053	378	9.301 2297	394	0.698 7703	9.991 4756	16	685	
316	9.292 7432	379	9.301 2691	394	0.698 7309	9.991 4741	15	684	
		379		394			15		
317	9.292 7811		9.301 3085		0.698 6915	9.991 4726		683	
318	9.292 8190	379	9.301 3479	394	0.698 6521	9.991 4711	15	682	
319	9.292 8568	378	9.301 3873	394	0.698 6127	9.991 4696	15	681	
		379		393			15		
.320	9.292 8947		9.301 4266		0.698 5734	9.991 4681		.680	
		379		394			16		
321	9.292 9326		9.301 4660		0.698 5340	9.991 4665		679	
322	9.292 9704	378	9.301 5054	394	0.698 4946	9.991 4650	15	678	
323	9.293 0083	379	9.301 5448	394	0.698 4552	9.991 4635	15	677	
		378		393			15		
324	9.293 0461		9.301 5841		0.698 4159	9.991 4620		676	
325	9.293 0840	379	9.301 6235	394	0.698 3765	9.991 4605	15	675	
326	9.293 1218	378	9.301 6629	394	0.698 3371	9.991 4590	15	674	
		379		393			16		
327	9.293 1597		9.301 7022		0.698 2978	9.991 4574		673	
328	9.293 1975	378	9.301 7416	394	0.698 2584	9.991 4559	15	672	
329	9.293 2353	378	9.301 7809	393	0.698 2191	9.991 4544	15	671	
		379		394			15		
.330	9.293 2732		9.301 8203		0.698 1797	9.991 4529		.670	
		378		393			15		
331	9.293 3110		9.301 8596		0.698 1404	9.991 4514		669	
332	9.293 3488	378	9.301 8990	394	0.698 1010	9.991 4498	16	668	
333	9.293 3867	379	9.301 9383	393	0.698 0617	9.991 4483	15	667	
		378		394			15		
334	9.293 4245		9.301 9777		0.698 0223	9.991 4468		666	
335	9.293 4623	378	9.302 0170	393	0.697 9830	9.991 4453	15	665	
336	9.293 5001	378	9.302 0563	393	0.697 9437	9.991 4438	15	664	
		378		394			16		
337	9.293 5379		9.302 0957		0.697 9043	9.991 4422		663	
338	9.293 5757	378	9.302 1350	393	0.697 8650	9.991 4407	15	662	
339	9.293 6135	378	9.302 1743	393	0.697 8257	9.991 4392	15	661	
		378		393			15		
.340	9.293 6513		9.302 2136		0.697 7864	9.991 4377		.660	
		378		393			15		
341	9.293 6891		9.302 2529		0.697 7471	9.991 4362		659	
342	9.293 7269	378	9.302 2923	394	0.697 7077	9.991 4346	16	658	
343	9.293 7647	378	9.302 3316	393	0.697 6684	9.991 4331	15	657	
		378		393			15		
344	9.293 8025		9.302 3709		0.697 6291	9.991 4316		656	
345	9.293 8403	378	9.302 4102	393	0.697 5898	9.991 4301	15	655	
346	9.293 8780	377	9.302 4495	393	0.697 5505	9.991 4286	15	654	
		378		393			16		
347	9.293 9158		9.302 4888		0.697 5112	9.991 4270		653	
348	9.293 9536	378	9.302 5281	393	0.697 4719	9.991 4255	15	652	
349	9.293 9913	377	9.302 5673	392	0.697 4327	9.991 4240	15	651	
		378		393			15		
.350	9.294 0291		9.302 6066		0.697 3934	9.991 4225		.650	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	395	394
1	39.5	39.4
2	79.0	78.8
3	118.5	118.2
4	158.0	157.6
5	197.5	197.0
6	237.0	236.4
7	276.5	275.8
8	316.0	315.2
9	355.5	354.6

	393	392
1	39.3	39.2
2	78.6	78.4
3	117.9	117.6
4	157.2	156.8
5	196.5	196.0
6	235.8	235.2
7	275.1	274.4
8	314.4	313.6
9	353.7	352.8

	380	379
1	38.0	37.9
2	76.0	75.8
3	114.0	113.7
4	152.0	151.6
5	190.0	189.5
6	228.0	227.4
7	266.0	265.3
8	304.0	303.2
9	342.0	341.1

	378	377
1	37.8	37.7
2	75.6	75.4
3	113.4	113.1
4	151.2	150.8
5	189.0	188.5
6	226.8	226.2
7	264.6	263.9
8	302.4	301.6
9	340.2	339.3

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

$78^\circ.700 - 78^\circ.650$

$11^\circ.350 - 11^\circ.400$

11°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.294 0291		9.302 6066		0.697 3934	9.991 4225		.650	
		378		393			15		
351	9.294 0669		9.302 6459		0.697 3541	9.991 4210		649	
352	9.294 1046	377	9.302 6852	393	0.697 3148	9.991 4194	16	648	
353	9.294 1424	378	9.302 7245	393	0.697 2755	9.991 4179	15	647	
		377		392			15		
354	9.294 1801		9.302 7637		0.697 2363	9.991 4164		646	
355	9.294 2179	378	9.302 8030	393	0.697 1970	9.991 4149	15	645	
356	9.294 2556	377	9.302 8423	393	0.697 1577	9.991 4133	16	644	
		378		392			15		
357	9.294 2934		9.302 8815		0.697 1185	9.991 4118		643	
358	9.294 3311	377	9.302 9208	393	0.697 0792	9.991 4103	15	642	
359	9.294 3688	377	9.302 9600	392	0.697 0400	9.991 4088	15	641	
		378		393			15		
.360	9.294 4066		9.302 9993		0.697 0007	9.991 4073		.640	
		377		392			16		
361	9.294 4443		9.303 0385		0.696 9615	9.991 4057		639	
362	9.294 4820	377	9.303 0778	393	0.696 9222	9.991 4042	15	638	
363	9.294 5197	377	9.303 1170	392	0.696 8830	9.991 4027	15	637	
		377		393			15		
364	9.294 5574		9.303 1563		0.696 8437	9.991 4012		636	
365	9.294 5952	378	9.303 1955	392	0.696 8045	9.991 3996	16	635	
366	9.294 6329	377	9.303 2347	392	0.696 7653	9.991 3981	15	634	
		377		393			15		
367	9.294 6706		9.303 2740		0.696 7260	9.991 3966		633	
368	9.294 7083	377	9.303 3132	392	0.696 6868	9.991 3951	15	632	
369	9.294 7460	377	9.303 3524	392	0.696 6476	9.991 3935	16	631	
		377		392			15		
.370	9.294 7837		9.303 3916		0.696 6084	9.991 3920		.630	
		377		393			15		
371	9.294 8214		9.303 4309		0.696 5691	9.991 3905		629	
372	9.294 8590	376	9.303 4701	392	0.696 5299	9.991 3890	15	628	
373	9.294 8967	377	9.303 5093	392	0.696 4907	9.991 3874	16	627	
		377		392			15		
374	9.294 9344		9.303 5485		0.696 4515	9.991 3859		626	
375	9.294 9721	377	9.303 5877	392	0.696 4123	9.991 3844	15	625	
376	9.295 0098	377	9.303 6269	392	0.696 3731	9.991 3829	15	624	
		376		392			16		
377	9.295 0474		9.303 6661		0.696 3339	9.991 3813		623	
378	9.295 0851	377	9.303 7053	392	0.696 2947	9.991 3798	15	622	
379	9.295 1228	377	9.303 7445	392	0.696 2555	9.991 3783	15	621	
		376		392			15		
.380	9.295 1604		9.303 7837		0.696 2163	9.991 3768		.620	
		377		391			16		
381	9.295 1981		9.303 8228		0.696 1772	9.991 3752		619	
382	9.295 2357	376	9.303 8620	392	0.696 1380	9.991 3737	15	618	
383	9.295 2734	377	9.303 9012	392	0.696 0988	9.991 3722	15	617	
		376		392			15		
384	9.295 3110		9.303 9404		0.696 0596	9.991 3707		616	
385	9.295 3487	377	9.303 9795	391	0.696 0205	9.991 3691	16	615	
386	9.295 3863	376	9.304 0187	392	0.695 9813	9.991 3676	15	614	
		377		392			15		
387	9.295 4240		9.304 0579		0.695 9421	9.991 3661		613	
388	9.295 4616	376	9.304 0970	391	0.695 9030	9.991 3646	15	612	
389	9.295 4992	376	9.304 1362	392	0.695 8638	9.991 3630	16	611	
		377		391			15		
.390	9.295 5369		9.304 1753		0.695 8247	9.991 3615		.610	
		376		392			15		
391	9.295 5745		9.304 2145		0.695 7855	9.991 3600		609	
392	9.295 6121	376	9.304 2536	391	0.695 7464	9.991 3585	15	608	
393	9.295 6497	376	9.304 2928	392	0.695 7072	9.991 3569	16	607	
		376		391			15		
394	9.295 6873		9.304 3319		0.695 6681	9.991 3554		606	
395	9.295 7249	376	9.304 3711	392	0.695 6289	9.991 3539	15	605	
396	9.295 7626	377	9.304 4102	391	0.695 5898	9.991 3523	16	604	
		376		391			15		
397	9.295 8002		9.304 4493		0.695 5507	9.991 3508		603	
398	9.295 8378	376	9.304 4885	392	0.695 5115	9.991 3493	15	602	
399	9.295 8754	376	9.304 5276	391	0.695 4724	9.991 3478	15	601	
		375		391			16		
.400	9.295 9129		9.304 5667		0.695 4333	9.991 3462		.600	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	393	392
1	39.3	39.2
2	78.6	78.4
3	117.9	117.6
4	157.2	156.8
5	196.5	196.0
6	235.8	235.2
7	275.1	274.4
8	314.4	313.6
9	353.7	352.8

	391	378
1	39.1	37.8
2	78.2	75.6
3	117.3	113.4
4	156.4	151.2
5	195.5	189.0
6	234.6	226.8
7	273.7	264.6
8	312.8	302.4
9	351.9	340.2

	377	376
1	37.7	37.6
2	75.4	75.2
3	113.1	112.8
4	150.8	150.4
5	188.5	188.0
6	226.2	225.6
7	263.9	263.2
8	301.6	300.8
9	339.3	338.4

	375
1	37.5
2	75.0
3	112.5
4	150.0
5	187.5
6	225.0
7	262.5
8	300.0
9	337.5

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

$78^\circ.650 - 78^\circ.600$

11°.400 — 11°.450

11°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.295 9129		9.304 5667		0.695 4333	9.991 3462		.600	
		376		391			15		
401	9.295 9505		9.304 6058		0.695 3942	9.991 3447		599	
402	9.295 9881	376	9.304 6449	391	0.695 3551	9.991 3432	15	598	
403	9.296 0257	376	9.304 6841	392	0.695 3159	9.991 3416	16	597	
		376		391			15		
404	9.296 0633		9.304 7232		0.695 2768	9.991 3401		596	
405	9.296 1009	376	9.304 7623	391	0.695 2377	9.991 3386	15	595	
406	9.296 1384	375	9.304 8014	391	0.695 1986	9.991 3371	15	594	
		376		391			16		
407	9.296 1760		9.304 8405		0.695 1595	9.991 3355		593	
408	9.296 2136	376	9.304 8796	391	0.695 1204	9.991 3340	15	592	
409	9.296 2511	375	9.304 9187	391	0.695 0813	9.991 3325	15	591	
		376		391			16		
.410	9.296 2887		9.304 9578		0.695 0422	9.991 3309		.590	
		376		390			15		
411	9.296 3263		9.304 9968		0.695 0032	9.991 3294		589	
412	9.296 3638	375	9.305 0359	391	0.694 9641	9.991 3279	15	588	
413	9.296 4014	376	9.305 0750	391	0.694 9250	9.991 3264	15	587	
		375		391			16		
414	9.296 4389		9.305 1141		0.694 8859	9.991 3248		586	
415	9.296 4764	375	9.305 1532	391	0.694 8468	9.991 3233	15	585	
416	9.296 5140	376	9.305 1922	390	0.694 8078	9.991 3218	15	584	
		375		391			16		
417	9.296 5515		9.305 2313		0.694 7687	9.991 3202		583	
418	9.296 5891	376	9.305 2704	391	0.694 7296	9.991 3187	15	582	
419	9.296 6266	375	9.305 3094	390	0.694 6906	9.991 3172	15	581	
		375		391			16		
.420	9.296 6641		9.305 3485		0.694 6515	9.991 3156		.580	
		375		390			15		
421	9.296 7016		9.305 3875		0.694 6125	9.991 3141		579	
422	9.296 7392	376	9.305 4266	391	0.694 5734	9.991 3126	15	578	
423	9.296 7767	375	9.305 4656	390	0.694 5344	9.991 3110	16	577	
		375		391			15		
424	9.296 8142		9.305 5047		0.694 4953	9.991 3095		576	
425	9.296 8517	375	9.305 5437	390	0.694 4563	9.991 3080	15	575	
426	9.296 8892	375	9.305 5827	390	0.694 4173	9.991 3064	16	574	
		375		391			15		
427	9.296 9267		9.305 6218		0.694 3782	9.991 3049		573	
428	9.296 9642	375	9.305 6608	390	0.694 3392	9.991 3034	15	572	
429	9.297 0017	375	9.305 6998	390	0.694 3002	9.991 3019	15	571	
		375		391			16		
.430	9.297 0392		9.305 7389		0.694 2611	9.991 3003		.570	
		375		390			15		
431	9.297 0767		9.305 7779		0.694 2221	9.991 2988		569	
432	9.297 1142	375	9.305 8169	390	0.694 1831	9.991 2973	15	568	
433	9.297 1516	374	9.305 8559	390	0.694 1441	9.991 2957	16	567	
		375		390			15		
434	9.297 1891		9.305 8949		0.694 1051	9.991 2942		566	
435	9.297 2266	375	9.305 9339	390	0.694 0661	9.991 2927	15	565	
436	9.297 2641	375	9.305 9729	390	0.694 0271	9.991 2911	16	564	
		374		390			15		
437	9.297 3015		9.306 0119		0.693 9881	9.991 2896		563	
438	9.297 3390	375	9.306 0509	390	0.693 9491	9.991 2881	15	562	
439	9.297 3765	375	9.306 0899	390	0.693 9101	9.991 2865	16	561	
		374		390			15		
.440	9.297 4139		9.306 1289		0.693 8711	9.991 2850		.560	
		375		390			15		
441	9.297 4514		9.306 1679		0.693 8321	9.991 2835		559	
442	9.297 4888	374	9.306 2069	390	0.693 7931	9.991 2819	16	558	
443	9.297 5263	375	9.306 2459	390	0.693 7541	9.991 2804	15	557	
		374		390			15		
444	9.297 5637		9.306 2849		0.693 7151	9.991 2789		556	
445	9.297 6012	375	9.306 3238	389	0.693 6762	9.991 2773	16	555	
446	9.297 6386	374	9.306 3628	390	0.693 6372	9.991 2758	15	554	
		374		390			16		
447	9.297 6760		9.306 4018		0.693 5982	9.991 2742		553	
448	9.297 7135	375	9.306 4408	390	0.693 5592	9.991 2727	15	552	
449	9.297 7509	374	9.306 4797	389	0.693 5203	9.991 2712	15	551	
		374		390			16		
.450	9.297 7883		9.306 5187		0.693 4813	9.991 2696		.550	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	392	391
1	39.2	39.1
2	78.4	78.2
3	117.6	117.3
4	156.8	156.4
5	196.0	195.5
6	235.2	234.6
7	274.4	273.7
8	313.6	312.8
9	352.8	351.9

	390	389
1	39.0	38.9
2	78.0	77.8
3	117.0	116.7
4	156.0	155.6
5	195.0	194.5
6	234.0	233.4
7	273.0	272.3
8	312.0	311.2
9	351.0	350.1

	376	375
1	37.6	37.5
2	75.2	75.0
3	112.8	112.5
4	150.4	150.0
5	188.0	187.5
6	225.6	225.0
7	263.2	262.5
8	300.8	300.0
9	338.4	337.5

	374
1	37.4
2	74.8
3	112.2
4	149.6
5	187.0
6	224.4
7	261.8
8	299.2
9	336.6

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

78°.600 — 78°.550

$11^\circ.450 - 11^\circ.500$

11°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.297 7883		9.306 5187		0.693 4813	9.991 2696		.550	
		374		389			15		
451	9.297 8257		9.306 5576		0.693 4424	9.991 2681		549	
452	9.297 8632	375	9.306 5966	390	0.693 4034	9.991 2666	15	548	
453	9.297 9006	374	9.306 6355	389	0.693 3645	9.991 2650	16	547	
		374		390			15		
454	9.297 9380		9.306 6745		0.693 3255	9.991 2635		546	
455	9.297 9754	374	9.306 7134	389	0.693 2866	9.991 2620	15	545	
456	9.298 0128	374	9.306 7524	390	0.693 2476	9.991 2604	16	544	
		374		389			15		
457	9.298 0502		9.306 7913		0.693 2087	9.991 2589		543	
458	9.298 0876	374	9.306 8302	389	0.693 1698	9.991 2574	15	542	
459	9.298 1250	374	9.306 8692	390	0.693 1308	9.991 2558	16	541	
		374		389			15		
.460	9.298 1624		9.306 9081		0.693 0919	9.991 2543		.540	
		374		389			16		
461	9.298 1998		9.306 9470		0.693 0530	9.991 2527		539	
462	9.298 2372	374	9.306 9860	390	0.693 0140	9.991 2512	15	538	
463	9.298 2745	373	9.307 0249	389	0.692 9751	9.991 2497	15	537	
		374		389			16		
464	9.298 3119		9.307 0638		0.692 9362	9.991 2481		536	
465	9.298 3493	374	9.307 1027	389	0.692 8973	9.991 2466	15	535	
466	9.298 3867	374	9.307 1416	389	0.692 8584	9.991 2451	15	534	
		373		389			16		
467	9.298 4240		9.307 1805		0.692 8195	9.991 2435		533	
468	9.298 4614	374	9.307 2194	389	0.692 7806	9.991 2420	15	532	
469	9.298 4988	374	9.307 2583	389	0.692 7417	9.991 2404	16	531	
		373		389			15		
.470	9.298 5361		9.307 2972		0.692 7028	9.991 2389		.530	
		374		389			15		
471	9.298 5735		9.307 3361		0.692 6639	9.991 2374		529	
472	9.298 6108	373	9.307 3750	389	0.692 6250	9.991 2358	16	528	
473	9.298 6482	374	9.307 4139	389	0.692 5861	9.991 2343	15	527	
		373		389			15		
474	9.298 6855		9.307 4528		0.692 5472	9.991 2328		526	
475	9.298 7229	374	9.307 4916	388	0.692 5084	9.991 2312	16	525	
476	9.298 7602	373	9.307 5305	389	0.692 4695	9.991 2297	15	524	
		373		389			16		
477	9.298 7975		9.307 5694		0.692 4306	9.991 2281		523	
478	9.298 8349	374	9.307 6083	389	0.692 3917	9.991 2266	15	522	
479	9.298 8722	373	9.307 6471	388	0.692 3529	9.991 2251	15	521	
		373		389			16		
.480	9.298 9095		9.307 6860		0.692 3140	9.991 2235		.520	
		373		389			15		
481	9.298 9468		9.307 7249		0.692 2751	9.991 2220		519	
482	9.298 9842	374	9.307 7637	388	0.692 2363	9.991 2204	16	518	
483	9.299 0215	373	9.307 8026	389	0.692 1974	9.991 2189	15	517	
		373		388			15		
484	9.299 0588		9.307 8414		0.692 1586	9.991 2174		516	
485	9.299 0961	373	9.307 8803	389	0.692 1197	9.991 2158	16	515	
486	9.299 1334	373	9.307 9191	388	0.692 0809	9.991 2143	15	514	
		373		389			16		
487	9.299 1707		9.307 9580		0.692 0420	9.991 2127		513	
488	9.299 2080	373	9.307 9968	388	0.692 0032	9.991 2112	15	512	
489	9.299 2453	373	9.308 0356	388	0.691 9644	9.991 2097	15	511	
		373		389			16		
.490	9.299 2826		9.308 0745		0.691 9255	9.991 2081		.510	
		373		388			15		
491	9.299 3199		9.308 1133		0.691 8867	9.991 2066		509	
492	9.299 3572	373	9.308 1521	388	0.691 8479	9.991 2050	16	508	
493	9.299 3944	372	9.308 1909	388	0.691 8091	9.991 2035	15	507	
		373		389			15		
494	9.299 4317		9.308 2298		0.691 7702	9.991 2020		506	
495	9.299 4690	373	9.308 2686	388	0.691 7314	9.991 2004	16	505	
496	9.299 5063	373	9.308 3074	388	0.691 6926	9.991 1989	15	504	
		372		388			16		
497	9.299 5435		9.308 3462		0.691 6538	9.991 1973		503	
498	9.299 5808	373	9.308 3850	388	0.691 6150	9.991 1958	15	502	
499	9.299 6181	373	9.308 4238	388	0.691 5762	9.991 1942	16	501	
		372		388			15		
.500	9.299 6553		9.308 4626		0.691 5374	9.991 1927		.500	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	390	389
1	39.0	38.9
2	78.0	77.8
3	117.0	116.7
4	156.0	155.6
5	195.0	194.5
6	234.0	233.4
7	273.0	272.3
8	312.0	311.2
9	351.0	350.1

	388	375
1	38.8	37.5
2	77.6	75.0
3	116.4	112.5
4	155.2	150.0
5	194.0	187.5
6	232.8	225.0
7	271.6	262.5
8	310.4	300.0
9	349.2	337.5

	374	373
1	37.4	37.3
2	74.8	74.6
3	112.2	111.9
4	149.6	149.2
5	187.0	186.5
6	224.4	223.8
7	261.8	261.1
8	299.2	298.4
9	336.6	335.7

	372
1	37.2
2	74.4
3	111.6
4	148.8
5	186.0
6	223.2
7	260.4
8	297.6
9	334.8

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

$78^\circ.550 - 78^\circ.500$

$11^\circ.500 - 11^\circ.550$

11°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.299 6553		9.308 4626		0.691 5374	9.991 1927		.500	
		373		388			15		
501	9.299 6926		9.308 5014		0.691 4986	9.991 1912		499	
502	9.299 7298	372	9.308 5402	388	0.691 4598	9.991 1896	16	498	
503	9.299 7671	373	9.308 5790	388	0.691 4210	9.991 1881	15	497	
		372		388			16		
504	9.299 8043		9.308 6178		0.691 3822	9.991 1865		496	
505	9.299 8415	372	9.308 6566	388	0.691 3434	9.991 1850	15	495	
506	9.299 8788	373	9.308 6953	387	0.691 3047	9.991 1835	15	494	
		372		388			16		
507	9.299 9160		9.308 7341		0.691 2659	9.991 1819		493	
508	9.299 9533	373	9.308 7729	388	0.691 2271	9.991 1804	15	492	
509	9.299 9905	372	9.308 8117	388	0.691 1883	9.991 1788	16	491	
		372		387			15		
.510	9.300 0277		9.308 8504		0.691 1496	9.991 1773		.490	
		372		388			16		
511	9.300 0649		9.308 8892		0.691 1108	9.991 1757		489	
512	9.300 1021	372	9.308 9280	388	0.691 0720	9.991 1742	15	488	
513	9.300 1394	373	9.308 9667	387	0.691 0333	9.991 1726	16	487	
		372		388			15		
514	9.300 1766		9.309 0055		0.690 9945	9.991 1711		486	
515	9.300 2138	372	9.309 0442	387	0.690 9558	9.991 1696	15	485	
516	9.300 2510	372	9.309 0830	388	0.690 9170	9.991 1680	16	484	
		372		387			15		
517	9.300 2882		9.309 1217		0.690 8783	9.991 1665		483	
518	9.300 3254	372	9.309 1605	388	0.690 8395	9.991 1649	16	482	
519	9.300 3626	372	9.309 1992	387	0.690 8008	9.991 1634	15	481	
		372		387			16		
.520	9.300 3998		9.309 2379		0.690 7621	9.991 1618		.480	
		372		388			15		
521	9.300 4370		9.309 2767		0.690 7233	9.991 1603		479	
522	9.300 4741	371	9.309 3154	387	0.690 6846	9.991 1587	16	478	
523	9.300 5113	372	9.309 3541	387	0.690 6459	9.991 1572	15	477	
		372		387			15		
524	9.300 5485		9.309 3928		0.690 6072	9.991 1557		476	
525	9.300 5857	372	9.309 4316	388	0.690 5684	9.991 1541	16	475	
526	9.300 6228	371	9.309 4703	387	0.690 5297	9.991 1526	15	474	
		372		387			16		
527	9.300 6600		9.309 5090		0.690 4910	9.991 1510		473	
528	9.300 6972	372	9.309 5477	387	0.690 4523	9.991 1495	15	472	
529	9.300 7343	371	9.309 5864	387	0.690 4136	9.991 1479	16	471	
		372		387			15		
.530	9.300 7715		9.309 6251		0.690 3749	9.991 1464		.470	
		372		387			16		
531	9.300 8087		9.309 6638		0.690 3362	9.991 1448		469	
532	9.300 8458	371	9.309 7025	387	0.690 2975	9.991 1433	15	468	
533	9.300 8830	372	9.309 7412	387	0.690 2588	9.991 1417	16	467	
		371		387			15		
534	9.300 9201		9.309 7799		0.690 2201	9.991 1402		466	
535	9.300 9572	371	9.309 8186	387	0.690 1814	9.991 1386	16	465	
536	9.300 9944	372	9.309 8573	387	0.690 1427	9.991 1371	15	464	
		371		387			15		
537	9.301 0315		9.309 8960		0.690 1040	9.991 1356		463	
538	9.301 0686	371	9.309 9346	386	0.690 0654	9.991 1340	16	462	
539	9.301 1058	372	9.309 9733	387	0.690 0267	9.991 1325	15	461	
		371		387			16		
.540	9.301 1429		9.310 0120		0.689 9880	9.991 1309		.460	
		371		387			15		
541	9.301 1800		9.310 0507		0.689 9493	9.991 1294		459	
542	9.301 2171	371	9.310 0893	386	0.689 9107	9.991 1278	16	458	
543	9.301 2543	372	9.310 1280	387	0.689 8720	9.991 1263	15	457	
		371		387			16		
544	9.301 2914		9.310 1667		0.689 8333	9.991 1247		456	
545	9.301 3285	371	9.310 2053	386	0.689 7947	9.991 1232	15	455	
546	9.301 3656	371	9.310 2440	387	0.689 7560	9.991 1216	16	454	
		371		386			15		
547	9.301 4027		9.310 2826		0.689 7174	9.991 1201		453	
548	9.301 4398	371	9.310 3213	387	0.689 6787	9.991 1185	16	452	
549	9.301 4769	371	9.310 3599	386	0.689 6401	9.991 1170	15	451	
		371		386			16		
.550	9.301 5140		9.310 3985		0.689 6015	9.991 1154		.450	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	388	387
1	38.8	38.7
2	77.6	77.4
3	116.4	116.1
4	155.2	154.8
5	194.0	193.5
6	232.8	232.2
7	271.6	270.9
8	310.4	309.6
9	349.2	348.3

	386
1	38.6
2	77.2
3	115.8
4	154.4
5	193.0
6	231.6
7	270.2
8	308.8
9	347.4

	373	372
1	37.3	37.2
2	74.6	74.4
3	111.9	111.6
4	149.2	148.8
5	186.5	186.0
6	223.8	223.2
7	261.1	260.4
8	298.4	297.6
9	335.7	334.8

	371
1	37.1
2	74.2
3	111.3
4	148.4
5	185.5
6	222.6
7	259.7
8	296.8
9	333.9

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

$78^\circ.500 - 78^\circ.450$

$11^\circ.550 - 11^\circ.600$

11°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.301 5140		9.310 3985		0.689 6015	9.991 1154		.450	
		371		387			15		
551	9.301 5511		9.310 4372		0.689 5628	9.991 1139		449	
552	9.301 5881	370	9.310 4758	386	0.689 5242	9.991 1123	16	448	
553	9.301 6252	371	9.310 5145	387	0.689 4855	9.991 1108	15	447	
		371		386			16		
554	9.301 6623		9.310 5531		0.689 4469	9.991 1092		446	
555	9.301 6994	371	9.310 5917	386	0.689 4083	9.991 1077	15	445	
556	9.301 7365	371	9.310 6303	386	0.689 3697	9.991 1061	16	444	
		370		386			15		
557	9.301 7735		9.310 6689		0.689 3311	9.991 1046		443	
558	9.301 8106	371	9.310 7076	387	0.689 2924	9.991 1030	16	442	
559	9.301 8477	371	9.310 7462	386	0.689 2538	9.991 1015	15	441	
		370		386			16		
.560	9.301 8847		9.310 7848		0.689 2152	9.991 0999		.440	
		371		386			15		
561	9.301 9218		9.310 8234		0.689 1766	9.991 0984	16	439	
562	9.301 9588	370	9.310 8620	386	0.689 1380	9.991 0968		438	
563	9.301 9959	371	9.310 9006	386	0.689 0994	9.991 0953	15	437	
		370		386			16		
564	9.302 0329		9.310 9392		0.689 0608	9.991 0937		436	
565	9.302 0700	371	9.310 9778	386	0.689 0222	9.991 0922	15	435	
566	9.302 1070	370	9.311 0164	386	0.688 9836	9.991 0906	16	434	
		370		386			15		
567	9.302 1440		9.311 0550		0.688 9450	9.991 0891		433	
568	9.302 1811	371	9.311 0935	385	0.688 9065	9.991 0875	16	432	
569	9.302 2181	370	9.311 1321	386	0.688 8679	9.991 0860	15	431	
		370		386			16		
.570	9.302 2551		9.311 1707		0.688 8293	9.991 0844		.430	
		370		386			15		
571	9.302 2921		9.311 2093		0.688 7907	9.991 0829	16	429	
572	9.302 3292	371	9.311 2479	386	0.688 7521	9.991 0813		428	
573	9.302 3662	370	9.311 2864	385	0.688 7136	9.991 0798	15	427	
		370		386			16		
574	9.302 4032		9.311 3250		0.688 6750	9.991 0782		426	
575	9.302 4402	370	9.311 3635	385	0.688 6365	9.991 0767	15	425	
576	9.302 4772	370	9.311 4021	386	0.688 5979	9.991 0751	16	424	
		370		386			15		
577	9.302 5142		9.311 4407		0.688 5593	9.991 0736		423	
578	9.302 5512	370	9.311 4792	385	0.688 5208	9.991 0720	16	422	
579	9.302 5882	370	9.311 5178	386	0.688 4822	9.991 0704	16	421	
		370		385			15		
.580	9.302 6252		9.311 5563		0.688 4437	9.991 0689		.420	
		370		386			16		
581	9.302 6622		9.311 5949		0.688 4051	9.991 0673		419	
582	9.302 6992	370	9.311 6334	385	0.688 3666	9.991 0658	15	418	
583	9.302 7362	370	9.311 6719	385	0.688 3281	9.991 0642	16	417	
		369		386			15		
584	9.302 7731		9.311 7105		0.688 2895	9.991 0627		416	
585	9.302 8101	370	9.311 7490	385	0.688 2510	9.991 0611	16	415	
586	9.302 8471	370	9.311 7875	385	0.688 2125	9.991 0596	15	414	
		370		385			16		
587	9.302 8841		9.311 8260		0.688 1740	9.991 0580		413	
588	9.302 9210	369	9.311 8646	386	0.688 1354	9.991 0565	15	412	
589	9.302 9580	370	9.311 9031	385	0.688 0969	9.991 0549	16	411	
		370		385			15		
.590	9.302 9950		9.311 9416		0.688 0584	9.991 0534		.410	
		369		385			16		
591	9.303 0319		9.311 9801		0.688 0199	9.991 0518		409	
592	9.303 0689	370	9.312 0186	385	0.687 9814	9.991 0502	16	408	
593	9.303 1058	369	9.312 0571	385	0.687 9429	9.991 0487	15	407	
		370		385			16		
594	9.303 1428		9.312 0956		0.687 9044	9.991 0471		406	
595	9.303 1797	369	9.312 1341	385	0.687 8659	9.991 0456	15	405	
596	9.303 2167	370	9.312 1726	385	0.687 8274	9.991 0440	16	404	
		369		385			15		
597	9.303 2536		9.312 2111		0.687 7889	9.991 0425		403	
598	9.303 2905	369	9.312 2496	385	0.687 7504	9.991 0409	16	402	
599	9.303 3275	370	9.312 2881	385	0.687 7119	9.991 0394	15	401	
		369		385			16		
.600	9.303 3644		9.312 3266		0.687 6734	9.991 0378		.400	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	387	386
1	38.7	38.6
2	77.4	77.2
3	116.1	115.8
4	154.8	154.4
5	193.5	193.0
6	232.2	231.6
7	270.9	270.2
8	309.6	308.8
9	348.3	347.4

	385
1	38.5
2	77.0
3	115.5
4	154.0
5	192.5
6	231.0
7	269.5
8	308.0
9	346.5

	371	370
1	37.1	37.0
2	74.2	74.0
3	111.3	111.0
4	148.4	148.0
5	185.5	185.0
6	222.6	222.0
7	259.7	259.0
8	296.8	296.0
9	333.9	333.0

	369
1	36.9
2	73.8
3	110.7
4	147.6
5	184.5
6	221.4
7	258.3
8	295.2
9	332.1

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

$78^\circ.450 - 78^\circ.400$

11°.600 — 11°.650

11°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.303 3644		9.312 3266		0.687 6734	9.991 0378		.400	
		369		385			16		
601	9.303 4013		9.312 3651		0.687 6349	9.991 0362		399	
602	9.303 4382	369	9.312 4035	384	0.687 5965	9.991 0347	15	398	
603	9.303 4752	370	9.312 4420	385	0.687 5580	9.991 0331	16	397	
		369		385			15		
604	9.303 5121		9.312 4805		0.687 5195	9.991 0316		396	
605	9.303 5490	369	9.312 5190	385	0.687 4810	9.991 0300	16	395	
606	9.303 5859	369	9.312 5574	384	0.687 4426	9.991 0285	15	394	
		369		385			16		
607	9.303 6228		9.312 5959		0.687 4041	9.991 0269		393	
608	9.303 6597	369	9.312 6343	384	0.687 3657	9.991 0254	15	392	
609	9.303 6966	369	9.312 6728	385	0.687 3272	9.991 0238	16	391	
		369		384			16		
.610	9.303 7335		9.312 7112		0.687 2888	9.991 0222		.390	
		369		385			15		
611	9.303 7704		9.312 7497		0.687 2503	9.991 0207		389	
612	9.303 8073	369	9.312 7881	384	0.687 2119	9.991 0191	16	388	
613	9.303 8442	369	9.312 8266	385	0.687 1734	9.991 0176	15	387	
		368		384			16		
614	9.303 8810		9.312 8650		0.687 1350	9.991 0160		386	
615	9.303 9179	369	9.312 9035	385	0.687 0965	9.991 0144	16	385	
616	9.303 9548	369	9.312 9419	384	0.687 0581	9.991 0129	15	384	
		369		384			16		
617	9.303 9917		9.312 9803		0.687 0197	9.991 0113		383	
618	9.304 0285	368	9.313 0188	385	0.686 9812	9.991 0098	15	382	
619	9.304 0654	369	9.313 0572	384	0.686 9428	9.991 0082	16	381	
		369		384			15		
.620	9.304 1023		9.313 0956		0.686 9044	9.991 0067		.380	
		368		384			16		
621	9.304 1391		9.313 1340		0.686 8660	9.991 0051		379	
622	9.304 1760	369	9.313 1724	384	0.686 8276	9.991 0035	16	378	
623	9.304 2128	368	9.313 2108	384	0.686 7892	9.991 0020	15	377	
		369		385			16		
624	9.304 2497		9.313 2493		0.686 7507	9.991 0004		376	
625	9.304 2865	368	9.313 2877	384	0.686 7123	9.990 9989	15	375	
626	9.304 3234	369	9.313 3261	384	0.686 6739	9.990 9973	16	374	
		368		384			16		
627	9.304 3602		9.313 3645		0.686 6355	9.990 9957		373	
628	9.304 3970	368	9.313 4029	384	0.686 5971	9.990 9942	15	372	
629	9.304 4339	369	9.313 4413	384	0.686 5587	9.990 9926	16	371	
		368		383			15		
.630	9.304 4707		9.313 4796		0.686 5204	9.990 9911		.370	
		368		384			16		
631	9.304 5075		9.313 5180		0.686 4820	9.990 9895		369	
632	9.304 5444	369	9.313 5564	384	0.686 4436	9.990 9879	16	368	
633	9.304 5812	368	9.313 5948	384	0.686 4052	9.990 9864	15	367	
		368		384			16		
634	9.304 6180		9.313 6332		0.686 3668	9.990 9848		366	
635	9.304 6548	368	9.313 6715	383	0.686 3285	9.990 9833	15	365	
636	9.304 6916	368	9.313 7099	384	0.686 2901	9.990 9817	16	364	
		368		384			16		
637	9.304 7284		9.313 7483		0.686 2517	9.990 9801		363	
638	9.304 7652	368	9.313 7866	383	0.686 2134	9.990 9786	15	362	
639	9.304 8020	368	9.313 8250	384	0.686 1750	9.990 9770	16	361	
		368		384			15		
.640	9.304 8388		9.313 8634		0.686 1366	9.990 9755		.360	
		368		383			16		
641	9.304 8756		9.313 9017		0.686 0983	9.990 9739		359	
642	9.304 9124	368	9.313 9401	384	0.686 0599	9.990 9723	16	358	
643	9.304 9492	368	9.313 9784	383	0.686 0216	9.990 9708	15	357	
		368		384			16		
644	9.304 9860		9.314 0168		0.685 9832	9.990 9692		356	
645	9.305 0228	368	9.314 0551	383	0.685 9449	9.990 9676	16	355	
646	9.305 0595	367	9.314 0935	384	0.685 9065	9.990 9661	15	354	
		368		383			16		
647	9.305 0963		9.314 1318		0.685 8682	9.990 9645		353	
648	9.305 1331	368	9.314 1701	383	0.685 8299	9.990 9630	15	352	
649	9.305 1699	368	9.314 2085	384	0.685 7915	9.990 9614	16	351	
		367		383			16		
.650	9.305 2066		9.314 2468		0.685 7532	9.990 9598		.350	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

P.P.

	385	384
1	38.5	38.4
2	77.0	76.8
3	115.5	115.2
4	154.0	153.6
5	192.5	192.0
6	231.0	230.4
7	269.5	268.8
8	308.0	307.2
9	346.5	345.6

	383	370
1	38.3	37.0
2	76.6	74.0
3	114.9	111.0
4	153.2	148.0
5	191.5	185.0
6	229.8	222.0
7	268.1	259.0
8	306.4	296.0
9	344.7	333.0

	369	368
1	36.9	36.8
2	73.8	73.6
3	110.7	110.4
4	147.6	147.2
5	184.5	184.0
6	221.4	220.8
7	258.3	257.6
8	295.2	294.4
9	332.1	331.2

	367
1	36.7
2	73.4
3	110.1
4	146.8
5	183.5
6	220.2
7	256.9
8	293.6
9	330.3

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

78°.400 — 78°.350

11°.650 — 11°.700

11°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.305 2066		9.314 2468		0.685 7532	9.990 9598		.350	
		368		383			15		
651	9.305 2434		9.314 2851		0.685 7149	9.990 9583		349	
652	9.305 2801	367	9.314 3234	383	0.685 6766	9.990 9567	16	348	
653	9.305 3169	368	9.314 3617	383	0.685 6383	9.990 9551	16	347	
		367		384			15		
654	9.305 3536		9.314 4001		0.685 5999	9.990 9536		346	
655	9.305 3904	368	9.314 4384	383	0.685 5616	9.990 9520	16	345	
656	9.305 4271	367	9.314 4767	383	0.685 5233	9.990 9505	15	344	
		368		383			16		
657	9.305 4639		9.314 5150		0.685 4850	9.990 9489		343	
658	9.305 5006	367	9.314 5533	383	0.685 4467	9.990 9473	16	342	
659	9.305 5374	368	9.314 5916	383	0.685 4084	9.990 9458	15	341	
		367		383			16		
.660	9.305 5741		9.314 6299		0.685 3701	9.990 9442		.340	
		367		383			16		
661	9.305 6108		9.314 6682		0.685 3318	9.990 9426		339	
662	9.305 6475	367	9.314 7065	383	0.685 2935	9.990 9411	15	338	
663	9.305 6843	368	9.314 7448	383	0.685 2552	9.990 9395	16	337	
		367		382			16		
664	9.305 7210		9.314 7830		0.685 2170	9.990 9379		336	
665	9.305 7577	367	9.314 8213	383	0.685 1787	9.990 9364	15	335	
666	9.305 7944	367	9.314 8596	383	0.685 1404	9.990 9348	16	334	
		367		383			16		
667	9.305 8311		9.314 8979		0.685 1021	9.990 9332		333	
668	9.305 8678	367	9.314 9362	383	0.685 0638	9.990 9317	15	332	
669	9.305 9045	367	9.314 9744	382	0.685 0256	9.990 9301	16	331	
		367		383			15		
.670	9.305 9412		9.315 0127		0.684 9873	9.990 9286		.330	
		367		383			16		
671	9.305 9779		9.315 0510		0.684 9490	9.990 9270		329	
672	9.306 0146	367	9.315 0892	382	0.684 9108	9.990 9254	16	328	
673	9.306 0513	367	9.315 1275	383	0.684 8725	9.990 9239	15	327	
		367		382			16		
674	9.306 0880		9.315 1657		0.684 8343	9.990 9223		326	
675	9.306 1247	367	9.315 2040	383	0.684 7960	9.990 9207	16	325	
676	9.306 1614	367	9.315 2422	382	0.684 7578	9.990 9192	15	324	
		366		383			16		
677	9.306 1980		9.315 2805		0.684 7195	9.990 9176		323	
678	9.306 2347	367	9.315 3187	382	0.684 6813	9.990 9160	16	322	
679	9.306 2714	367	9.315 3569	382	0.684 6431	9.990 9145	15	321	
		367		383			16		
.680	9.306 3081		9.315 3952		0.684 6048	9.990 9129		.320	
		366		382			16		
681	9.306 3447		9.315 4334		0.684 5666	9.990 9113		319	
682	9.306 3814	367	9.315 4716	382	0.684 5284	9.990 9098	15	318	
683	9.306 4180	366	9.315 5099	383	0.684 4901	9.990 9082	16	317	
		367		382			16		
684	9.306 4547		9.315 5481		0.684 4519	9.990 9066		316	
685	9.306 4914	367	9.315 5863	382	0.684 4137	9.990 9051	15	315	
686	9.306 5280	366	9.315 6245	382	0.684 3755	9.990 9035	16	314	
		366		382			16		
687	9.306 5646		9.315 6627		0.684 3373	9.990 9019		313	
688	9.306 6013	367	9.315 7009	382	0.684 2991	9.990 9003	16	312	
689	9.306 6379	366	9.315 7391	382	0.684 2609	9.990 8988	15	311	
		367		383			16		
.690	9.306 6746		9.315 7774		0.684 2226	9.990 8972		.310	
		366		382			16		
691	9.306 7112		9.315 8156		0.684 1844	9.990 8956		309	
692	9.306 7478	366	9.315 8538	382	0.684 1462	9.990 8941	15	308	
693	9.306 7845	367	9.315 8919	381	0.684 1081	9.990 8925	16	307	
		366		382			16		
694	9.306 8211		9.315 9301		0.684 0699	9.990 8909		306	
695	9.306 8577	366	9.315 9683	382	0.684 0317	9.990 8894	15	305	
696	9.306 8943	366	9.316 0065	382	0.683 9935	9.990 8878	16	304	
		366		382			16		
697	9.306 9309		9.316 0447		0.683 9553	9.990 8862		303	
698	9.306 9675	366	9.316 0829	382	0.683 9171	9.990 8847	15	302	
699	9.307 0041	366	9.316 1210	381	0.683 8790	9.990 8831	16	301	
		366		382			16		
.700	9.307 0407		9.316 1592		0.683 8408	9.990 8815		.300	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	384	383
1	38.4	38.3
2	76.8	76.6
3	115.2	114.9
4	153.6	153.2
5	192.0	191.5
6	230.4	229.8
7	268.8	268.1
8	307.2	306.4
9	345.6	344.7

	382	381
1	38.2	38.1
2	76.4	76.2
3	114.6	114.3
4	152.8	152.4
5	191.0	190.5
6	229.2	228.6
7	267.4	266.7
8	305.6	304.8
9	343.8	342.9

	368	367
1	36.8	36.7
2	73.6	73.4
3	110.4	110.1
4	147.2	146.8
5	184.0	183.5
6	220.8	220.2
7	257.6	256.9
8	294.4	293.6
9	331.2	330.3

	366
1	36.6
2	73.2
3	109.8
4	146.4
5	183.0
6	219.6
7	256.2
8	292.8
9	329.4

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

78°.350 — 78°.300

11°.700 — 11°.750

11°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.307 0407		9.316 1592		0.683 8408	9.990 8815		.300	
		366		382			15		
701	9.307 0773		9.316 1974		0.683 8026	9.990 8800		299	
702	9.307 1139	366	9.316 2356	382	0.683 7644	9.990 8784	16	298	
703	9.307 1505	366	9.316 2737	381	0.683 7263	9.990 8768	16	297	
		366		382			16		
704	9.307 1871		9.316 3119		0.683 6881	9.990 8752		296	
705	9.307 2237	366	9.316 3500	381	0.683 6500	9.990 8737	15	295	
706	9.307 2603	366	9.316 3882	382	0.683 6118	9.990 8721	16	294	
		366		381			16		
707	9.307 2969		9.316 4263		0.683 5737	9.990 8705		293	
708	9.307 3335	366	9.316 4645	382	0.683 5355	9.990 8690	15	292	
709	9.307 3700	365	9.316 5026	381	0.683 4974	9.990 8674	16	291	
		366		382			16		
.710	9.307 4066		9.316 5408		0.683 4592	9.990 8658		.290	
		366		381			16		
711	9.307 4432		9.316 5789		0.683 4211	9.990 8642		289	
712	9.307 4797	365	9.316 6171	382	0.683 3829	9.990 8627	15	288	
713	9.307 5163	366	9.316 6552	381	0.683 3448	9.990 8611	16	287	
		366		381			16		
714	9.307 5529		9.316 6933		0.683 3067	9.990 8595		286	
715	9.307 5894	365	9.316 7314	381	0.683 2686	9.990 8580	15	285	
716	9.307 6260	366	9.316 7696	382	0.683 2304	9.990 8564	16	284	
		365		381			16		
717	9.307 6625		9.316 8077		0.683 1923	9.990 8548		283	
718	9.307 6991	366	9.316 8458	381	0.683 1542	9.990 8532	16	282	
719	9.307 7356	365	9.316 8839	381	0.683 1161	9.990 8517	15	281	
		365		381			16		
.720	9.307 7721		9.316 9220		0.683 0780	9.990 8501		.280	
		366		381			16		
721	9.307 8087		9.316 9601		0.683 0399	9.990 8485		279	
722	9.307 8452	365	9.316 9983	382	0.683 0017	9.990 8470	15	278	
723	9.307 8817	365	9.317 0364	381	0.682 9636	9.990 8454	16	277	
		366		381			16		
724	9.307 9183		9.317 0745		0.682 9255	9.990 8438		276	
725	9.307 9548	365	9.317 1125	380	0.682 8875	9.990 8422	16	275	
726	9.307 9913	365	9.317 1506	381	0.682 8494	9.990 8407	15	274	
		365		381			16		
727	9.308 0278		9.317 1887		0.682 8113	9.990 8391		273	
728	9.308 0643	365	9.317 2268	381	0.682 7732	9.990 8375	16	272	
729	9.308 1008	365	9.317 2649	381	0.682 7351	9.990 8359	16	271	
		366		381			15		
.730	9.308 1374		9.317 3030		0.682 6970	9.990 8344		.270	
		365		381			16		
731	9.308 1739		9.317 3411		0.682 6589	9.990 8328		269	
732	9.308 2104	365	9.317 3791	380	0.682 6209	9.990 8312	16	268	
733	9.308 2469	365	9.317 4172	381	0.682 5828	9.990 8296	16	267	
		364		381			15		
734	9.308 2833		9.317 4553		0.682 5447	9.990 8281		266	
735	9.308 3198	365	9.317 4933	380	0.682 5067	9.990 8265	16	265	
736	9.308 3563	365	9.317 5314	381	0.682 4686	9.990 8249	16	264	
		365		381			16		
737	9.308 3928		9.317 5695		0.682 4305	9.990 8233		263	
738	9.308 4293	365	9.317 6075	380	0.682 3925	9.990 8218	15	262	
739	9.308 4658	365	9.317 6456	381	0.682 3544	9.990 8202	16	261	
		364		380			16		
.740	9.308 5022		9.317 6836		0.682 3164	9.990 8186		.260	
		365		381			16		
741	9.308 5387		9.317 7217		0.682 2783	9.990 8170		259	
742	9.308 5752	365	9.317 7597	380	0.682 2403	9.990 8155	15	258	
743	9.308 6117	365	9.317 7978	381	0.682 2022	9.990 8139	16	257	
		364		380			16		
744	9.308 6481		9.317 8358		0.682 1642	9.990 8123		256	
745	9.308 6846	365	9.317 8738	380	0.682 1262	9.990 8107	16	255	
746	9.308 7210	364	9.317 9119	381	0.682 0881	9.990 8092	15	254	
		365		380			16		
747	9.308 7575		9.317 9499		0.682 0501	9.990 8076		253	
748	9.308 7939	364	9.317 9879	380	0.682 0121	9.990 8060	16	252	
749	9.308 8304	365	9.318 0259	380	0.681 9741	9.990 8044	16	251	
		364		381			15		
.750	9.308 8668		9.318 0640		0.681 9360	9.990 8029		.250	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	382	381
1	38.2	38.1
2	76.4	76.2
3	114.6	114.3
4	152.8	152.4
5	191.0	190.5
6	229.2	228.6
7	267.4	266.7
8	305.6	304.8
9	343.8	342.9

	380
1	38.0
2	76.0
3	114.0
4	152.0
5	190.0
6	228.0
7	266.0
8	304.0
9	342.0

	366	365
1	36.6	36.5
2	73.2	73.0
3	109.8	109.5
4	146.4	146.0
5	183.0	182.5
6	219.6	219.0
7	256.2	255.5
8	292.8	292.0
9	329.4	328.5

	364
1	36.4
2	72.8
3	109.2
4	145.6
5	182.0
6	218.4
7	254.8
8	291.2
9	327.6

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

78°.300 — 78°.250

$11^\circ.750 - 11^\circ.800$

11°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.308 8668		9.318 0640		0.681 9360	9.990 8029		.250	
		365		380			16		
751	9.308 9033		9.318 1020		0.681 8980	9.990 8013		249	
752	9.308 9397	364	9.318 1400	380	0.681 8600	9.990 7997	16	248	
753	9.308 9761	364	9.318 1780	380	0.681 8220	9.990 7981	16	247	
		365		380			15		
754	9.309 0126		9.318 2160		0.681 7840	9.990 7966		246	
755	9.309 0490	364	9.318 2540	380	0.681 7460	9.990 7950	16	245	
756	9.309 0854	364	9.318 2920	380	0.681 7080	9.990 7934	16	244	
		364		380			16		
757	9.309 1218		9.318 3300		0.681 6700	9.990 7918		243	
758	9.309 1583	365	9.318 3680	380	0.681 6320	9.990 7902	16	242	
759	9.309 1947	364	9.318 4060	380	0.681 5940	9.990 7887	15	241	
		364		380			16		
.760	9.309 2311		9.318 4440		0.681 5560	9.990 7871		.240	
		364		380			16		
761	9.309 2675		9.318 4820		0.681 5180	9.990 7855		239	
762	9.309 3039	364	9.318 5200	380	0.681 4800	9.990 7839	16	238	
763	9.309 3403	364	9.318 5579	379	0.681 4421	9.990 7824	15	237	
		364		380			16		
764	9.309 3767		9.318 5959		0.681 4041	9.990 7808		236	
765	9.309 4131	364	9.318 6339	380	0.681 3661	9.990 7792	16	235	
766	9.309 4495	364	9.318 6719	380	0.681 3281	9.990 7776	16	234	
		364		379			16		
767	9.309 4859		9.318 7098		0.681 2902	9.990 7760		233	
768	9.309 5223	364	9.318 7478	380	0.681 2522	9.990 7745	15	232	
769	9.309 5586	363	9.318 7858	380	0.681 2142	9.990 7729	16	231	
		364		379			16		
.770	9.309 5950		9.318 8237		0.681 1763	9.990 7713		.230	
		364		380			16		
771	9.309 6314		9.318 8617		0.681 1383	9.990 7697		229	
772	9.309 6678	364	9.318 8996	379	0.681 1004	9.990 7681	16	228	
773	9.309 7041	363	9.318 9376	380	0.681 0624	9.990 7666	15	227	
		364		379			16		
774	9.309 7405		9.318 9755		0.681 0245	9.990 7650		226	
775	9.309 7769	364	9.319 0135	380	0.680 9865	9.990 7634	16	225	
776	9.309 8132	363	9.319 0514	379	0.680 9486	9.990 7618	16	224	
		364		379			16		
777	9.309 8496		9.319 0893		0.680 9107	9.990 7602		223	
778	9.309 8859	363	9.319 1273	380	0.680 8727	9.990 7587	15	222	
779	9.309 9223	364	9.319 1652	379	0.680 8348	9.990 7571	16	221	
		363		379			16		
.780	9.309 9586		9.319 2031		0.680 7969	9.990 7555		.220	
		364		380			16		
781	9.309 9950		9.319 2411		0.680 7589	9.990 7539		219	
782	9.310 0313	363	9.319 2790	379	0.680 7210	9.990 7523	16	218	
783	9.310 0677	364	9.319 3169	379	0.680 6831	9.990 7508	15	217	
		363		379			16		
784	9.310 1040		9.319 3548		0.680 6452	9.990 7492		216	
785	9.310 1403	363	9.319 3927	379	0.680 6073	9.990 7476	16	215	
786	9.310 1767	364	9.319 4306	379	0.680 5694	9.990 7460	16	214	
		363		379			16		
787	9.310 2130		9.319 4685		0.680 5315	9.990 7444		213	
788	9.310 2493	363	9.319 5065	380	0.680 4935	9.990 7429	15	212	
789	9.310 2856	363	9.319 5444	379	0.680 4556	9.990 7413	16	211	
		363		379			16		
.790	9.310 3219		9.319 5823		0.680 4177	9.990 7397		.210	
		364		378			16		
791	9.310 3583		9.319 6201		0.680 3799	9.990 7381		209	
792	9.310 3946	363	9.319 6580	379	0.680 3420	9.990 7365	16	208	
793	9.310 4309	363	9.319 6959	379	0.680 3041	9.990 7349	16	207	
		363		379			15		
794	9.310 4672		9.319 7338		0.680 2662	9.990 7334		206	
795	9.310 5035	363	9.319 7717	379	0.680 2283	9.990 7318	16	205	
796	9.310 5398	363	9.319 8096	379	0.680 1904	9.990 7302	16	204	
		363		379			16		
797	9.310 5761		9.319 8475		0.680 1525	9.990 7286		203	
798	9.310 6124	363	9.319 8853	378	0.680 1147	9.990 7270	16	202	
799	9.310 6486	362	9.319 9232	379	0.680 0768	9.990 7254	16	201	
		363		379			15		
.800	9.310 6849		9.319 9611		0.680 0389	9.990 7239		.200	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	380	379
1	38.0	37.9
2	76.0	75.8
3	114.0	113.7
4	152.0	151.6
5	190.0	189.5
6	228.0	227.4
7	266.0	265.3
8	304.0	303.2
9	342.0	341.1

	378	365
1	37.8	36.5
2	75.6	73.0
3	113.4	109.5
4	151.2	146.0
5	189.0	182.5
6	226.8	219.0
7	264.6	255.5
8	302.4	292.0
9	340.2	328.5

	364	363
1	36.4	36.3
2	72.8	72.6
3	109.2	108.9
4	145.6	145.2
5	182.0	181.5
6	218.4	217.8
7	254.8	254.1
8	291.2	290.4
9	327.6	326.7

	362
1	36.2
2	72.4
3	108.6
4	144.8
5	181.0
6	217.2
7	253.4
8	289.6
9	325.8

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

$78^\circ.250 - 78^\circ.200$

11°.800 — 11°.850

11°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.310 6849		9.319 9611		0.680 0389	9.990 7239		.200	
		363		378			16		
801	9.310 7212		9.319 9989		0.680 0011	9.990 7223		199	
802	9.310 7575	363	9.320 0368	379	0.679 9632	9.990 7207	16	198	
803	9.310 7938	363	9.320 0747	379	0.679 9253	9.990 7191	16	197	
		362		378			16		
804	9.310 8300		9.320 1125		0.679 8875	9.990 7175		196	
805	9.310 8663	363	9.320 1504	379	0.679 8496	9.990 7159	16	195	
806	9.310 9026	363	9.320 1882	378	0.679 8118	9.990 7144	15	194	
		362		379			16		
807	9.310 9388		9.320 2261		0.679 7739	9.990 7128		193	
808	9.310 9751	363	9.320 2639	378	0.679 7361	9.990 7112	16	192	
809	9.311 0113	362	9.320 3017	378	0.679 6983	9.990 7096	16	191	
		363		379			16		
.810	9.311 0476		9.320 3396		0.679 6604	9.990 7080		.190	
		362		378			16		
811	9.311 0838		9.320 3774		0.679 6226	9.990 7064		189	
812	9.311 1201	363	9.320 4152	378	0.679 5848	9.990 7048	16	188	
813	9.311 1563	362	9.320 4531	379	0.679 5469	9.990 7033	15	187	
		363		378			16		
814	9.311 1926		9.320 4909		0.679 5091	9.990 7017		186	
815	9.311 2288	362	9.320 5287	378	0.679 4713	9.990 7001	16	185	
816	9.311 2650	362	9.320 5665	378	0.679 4335	9.990 6985	16	184	
		363		379			16		
817	9.311 3013		9.320 6044		0.679 3956	9.990 6969		183	
818	9.311 3375	362	9.320 6422	378	0.679 3578	9.990 6953	16	182	
819	9.311 3737	362	9.320 6800	378	0.679 3200	9.990 6937	16	181	
		363		378			15		
.820	9.311 4100		9.320 7178		0.679 2822	9.990 6922		.180	
		362		378			16		
821	9.311 4462		9.320 7556		0.679 2444	9.990 6906		179	
822	9.311 4824	362	9.320 7934	378	0.679 2066	9.990 6890	16	178	
823	9.311 5186	362	9.320 8312	378	0.679 1688	9.990 6874	16	177	
		362		378			16		
824	9.311 5548		9.320 8690		0.679 1310	9.990 6858		176	
825	9.311 5910	362	9.320 9068	378	0.679 0932	9.990 6842	16	175	
826	9.311 6272	362	9.320 9446	378	0.679 0554	9.990 6826	16	174	
		362		378			15		
827	9.311 6634		9.320 9824		0.679 0176	9.990 6811		173	
828	9.311 6996	362	9.321 0201	377	0.678 9799	9.990 6795	16	172	
829	9.311 7358	362	9.321 0579	378	0.678 9421	9.990 6779	16	171	
		362		378			16		
.830	9.311 7720		9.321 0957		0.678 9043	9.990 6763		.170	
		362		378			16		
831	9.311 8082		9.321 1335		0.678 8665	9.990 6747		169	
832	9.311 8444	362	9.321 1712	377	0.678 8288	9.990 6731	16	168	
833	9.311 8805	361	9.321 2090	378	0.678 7910	9.990 6715	16	167	
		362		378			16		
834	9.311 9167		9.321 2468		0.678 7532	9.990 6699		166	
835	9.311 9529	362	9.321 2845	377	0.678 7155	9.990 6684	15	165	
836	9.311 9891	362	9.321 3223	378	0.678 6777	9.990 6668	16	164	
		361		378			16		
837	9.312 0252		9.321 3601		0.678 6399	9.990 6652		163	
838	9.312 0614	362	9.321 3978	377	0.678 6022	9.990 6636	16	162	
839	9.312 0976	362	9.321 4356	378	0.678 5644	9.990 6620	16	161	
		361		377			16		
.840	9.312 1337		9.321 4733		0.678 5267	9.990 6604		.160	
		362		377			16		
841	9.312 1699		9.321 5110		0.678 4890	9.990 6588		159	
842	9.312 2060	361	9.321 5488	378	0.678 4512	9.990 6572	16	158	
843	9.312 2422	362	9.321 5865	377	0.678 4135	9.990 6556	16	157	
		361		378			15		
844	9.312 2783		9.321 6243		0.678 3757	9.990 6541		156	
845	9.312 3145	362	9.321 6620	377	0.678 3380	9.990 6525	16	155	
846	9.312 3506	361	9.321 6997	377	0.678 3003	9.990 6509	16	154	
		361		378			16		
847	9.312 3867		9.321 7375		0.678 2625	9.990 6493		153	
848	9.312 4229	362	9.321 7752	377	0.678 2248	9.990 6477	16	152	
849	9.312 4590	361	9.321 8129	377	0.678 1871	9.990 6461	16	151	
		361		377			16		
.850	9.312 4951		9.321 8506		0.678 1494	9.990 6445		.150	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	379	378
1	37.9	37.8
2	75.8	75.6
3	113.7	113.4
4	151.6	151.2
5	189.5	189.0
6	227.4	226.8
7	265.3	264.6
8	303.2	302.4
9	341.1	340.2

	377
1	37.7
2	75.4
3	113.1
4	150.8
5	188.5
6	226.2
7	263.9
8	301.6
9	339.3

	363	362
1	36.3	36.2
2	72.6	72.4
3	108.9	108.6
4	145.2	144.8
5	181.5	181.0
6	217.8	217.2
7	254.1	253.4
8	290.4	289.6
9	326.7	325.8

	361
1	36.1
2	72.2
3	108.3
4	144.4
5	180.5
6	216.6
7	252.7
8	288.8
9	324.9

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

78°.200 — 78°.150

$11^\circ.850 - 11^\circ.900$

11°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.312 4951		9.321 8506		0.678 1494	9.990 6445		.150	
		361		377			16		
851	9.312 5312		9.321 8883		0.678 1117	9.990 6429		149	
852	9.312 5674	362	9.321 9260	377	0.678 0740	9.990 6413	16	148	
853	9.312 6035	361	9.321 9637	377	0.678 0363	9.990 6397	16	147	
		361		378			16		
854	9.312 6396		9.322 0015		0.677 9985	9.990 6381		146	
855	9.312 6757	361	9.322 0392	377	0.677 9608	9.990 6366	15	145	
856	9.312 7118	361	9.322 0769	377	0.677 9231	9.990 6350	16	144	
		361		376			16		
857	9.312 7479		9.322 1145		0.677 8855	9.990 6334		143	
858	9.312 7840	361	9.322 1522	377	0.677 8478	9.990 6318	16	142	
859	9.312 8201	361	9.322 1899	377	0.677 8101	9.990 6302	16	141	
		361		377			16		
.860	9.312 8562		9.322 2276		0.677 7724	9.990 6286		.140	
		361		377			16		
861	9.312 8923		9.322 2653		0.677 7347	9.990 6270		139	
862	9.312 9284	361	9.322 3030	377	0.677 6970	9.990 6254	16	138	
863	9.312 9645	361	9.322 3407	377	0.677 6593	9.990 6238	16	137	
		361		376			16		
864	9.313 0006		9.322 3783		0.677 6217	9.990 6222		136	
865	9.313 0366	360	9.322 4160	377	0.677 5840	9.990 6206	16	135	
866	9.313 0727	361	9.322 4537	377	0.677 5463	9.990 6190	16	134	
		361		376			15		
867	9.313 1088		9.322 4913		0.677 5087	9.990 6175		133	
868	9.313 1449	361	9.322 5290	377	0.677 4710	9.990 6159	16	132	
869	9.313 1809	360	9.322 5667	377	0.677 4333	9.990 6143	16	131	
		361		376			16		
.870	9.313 2170		9.322 6043		0.677 3957	9.990 6127		.130	
		361		377			16		
871	9.313 2531		9.322 6420		0.677 3580	9.990 6111		129	
872	9.313 2891	360	9.322 6796	376	0.677 3204	9.990 6095	16	128	
873	9.313 3252	361	9.322 7173	377	0.677 2827	9.990 6079	16	127	
		360		376			16		
874	9.313 3612		9.322 7549		0.677 2451	9.990 6063		126	
875	9.313 3973	361	9.322 7926	377	0.677 2074	9.990 6047	16	125	
876	9.313 4333	360	9.322 8302	376	0.677 1698	9.990 6031	16	124	
		361		376			16		
877	9.313 4694		9.322 8678		0.677 1322	9.990 6015		123	
878	9.313 5054	360	9.322 9055	377	0.677 0945	9.990 5999	16	122	
879	9.313 5414	360	9.322 9431	376	0.677 0569	9.990 5983	16	121	
		361		376			16		
.880	9.313 5775		9.322 9807		0.677 0193	9.990 5967		.120	
		360		377			16		
881	9.313 6135		9.323 0184		0.676 9816	9.990 5951		119	
882	9.313 6495	360	9.323 0560	376	0.676 9440	9.990 5935	16	118	
883	9.313 6856	361	9.323 0936	376	0.676 9064	9.990 5920	15	117	
		360		376			16		
884	9.313 7216		9.323 1312		0.676 8688	9.990 5904		116	
885	9.313 7576	360	9.323 1688	376	0.676 8312	9.990 5888	16	115	
886	9.313 7936	360	9.323 2064	376	0.676 7936	9.990 5872	16	114	
		360		376			16		
887	9.313 8296		9.323 2440		0.676 7560	9.990 5856		113	
888	9.313 8656	360	9.323 2816	376	0.676 7184	9.990 5840	16	112	
889	9.313 9016	360	9.323 3192	376	0.676 6808	9.990 5824	16	111	
		360		376			16		
.890	9.313 9376		9.323 3568		0.676 6432	9.990 5808		.110	
		360		376			16		
891	9.313 9736		9.323 3944		0.676 6056	9.990 5792		109	
892	9.314 0096	360	9.323 4320	376	0.676 5680	9.990 5776	16	108	
893	9.314 0456	360	9.323 4696	376	0.676 5304	9.990 5760	16	107	
		360		376			16		
894	9.314 0816		9.323 5072		0.676 4928	9.990 5744		106	
895	9.314 1176	360	9.323 5448	376	0.676 4552	9.990 5728	16	105	
896	9.314 1536	360	9.323 5824	376	0.676 4176	9.990 5712	16	104	
		360		375			16		
897	9.314 1896		9.323 6199		0.676 3801	9.990 5696		103	
898	9.314 2255	359	9.323 6575	376	0.676 3425	9.990 5680	16	102	
899	9.314 2615	360	9.323 6951	376	0.676 3049	9.990 5664	16	101	
		360		376			16		
.900	9.314 2975		9.323 7327		0.676 2673	9.990 5648		.100	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	378	377
1	37.8	37.7
2	75.6	75.4
3	113.4	113.1
4	151.2	150.8
5	189.0	188.5
6	226.8	226.2
7	264.6	263.9
8	302.4	301.6
9	340.2	339.3

	376	375
1	37.6	37.5
2	75.2	75.0
3	112.8	112.5
4	150.4	150.0
5	188.0	187.5
6	225.6	225.0
7	263.2	262.5
8	300.8	300.0
9	338.4	337.5

	362	361
1	36.2	36.1
2	72.4	72.2
3	108.6	108.3
4	144.8	144.4
5	181.0	180.5
6	217.2	216.6
7	253.4	252.7
8	289.6	288.8
9	325.8	324.9

	360	359
1	36.0	35.9
2	72.0	71.8
3	108.0	107.7
4	144.0	143.6
5	180.0	179.5
6	216.0	215.4
7	252.0	251.3
8	288.0	287.2
9	324.0	323.1

	16	15
1	1.6	1.5
2	3.2	3.0
3	4.8	4.5
4	6.4	6.0
5	8.0	7.5
6	9.6	9.0
7	11.2	10.5
8	12.8	12.0
9	14.4	13.5

$78^\circ.150 - 78^\circ.100$

11°.900 — 11°.950

11°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.314 2975		9.323 7327		0.676 2673	9.990 5648		.100	
		359		375			16		
901	9.314 3334		9.323 7702		0.676 2298	9.990 5632		099	
902	9.314 3694	360	9.323 8078	376	0.676 1922	9.990 5616	16	098	
903	9.314 4054	360	9.323 8453	375	0.676 1547	9.990 5600	16	097	
		359		376			16		
904	9.314 4413		9.323 8829		0.676 1171	9.990 5584		096	
905	9.314 4773	360	9.323 9205	376	0.676 0795	9.990 5568	16	095	
906	9.314 5132	359	9.323 9580	375	0.676 0420	9.990 5552	16	094	
		360		376			16		
907	9.314 5492		9.323 9956		0.676 0044	9.990 5536		093	
908	9.314 5851	359	9.324 0331	375	0.675 9669	9.990 5520	16	092	
909	9.314 6211	360	9.324 0706	375	0.675 9294	9.990 5504	16	091	
		359		376			16		
.910	9.314 6570		9.324 1082		0.675 8918	9.990 5488		.090	
		359		375			16		
911	9.314 6929		9.324 1457		0.675 8543	9.990 5472		089	
912	9.314 7289	360	9.324 1832	375	0.675 8168	9.990 5456	16	088	
913	9.314 7648	359	9.324 2208	376	0.675 7792	9.990 5440	16	087	
		359		375			16		
914	9.314 8007		9.324 2583		0.675 7417	9.990 5424		086	
915	9.314 8367	360	9.324 2958	375	0.675 7042	9.990 5408	16	085	
916	9.314 8726	359	9.324 3333	375	0.675 6667	9.990 5392	16	084	
		359		376			16		
917	9.314 9085		9.324 3709		0.675 6291	9.990 5376		083	
918	9.314 9444	359	9.324 4084	375	0.675 5916	9.990 5360	16	082	
919	9.314 9803	359	9.324 4459	375	0.675 5541	9.990 5344	16	081	
		359		375			16		
.920	9.315 0162		9.324 4834		0.675 5166	9.990 5328		.080	
		359		375			16		
921	9.315 0521		9.324 5209		0.675 4791	9.990 5312		079	
922	9.315 0880	359	9.324 5584	375	0.675 4416	9.990 5296	16	078	
923	9.315 1239	359	9.324 5959	375	0.675 4041	9.990 5280	16	077	
		359		375			16		
924	9.315 1598		9.324 6334		0.675 3666	9.990 5264		076	
925	9.315 1957	359	9.324 6709	375	0.675 3291	9.990 5248	16	075	
926	9.315 2316	359	9.324 7084	375	0.675 2916	9.990 5232	16	074	
		359		375			16		
927	9.315 2675		9.324 7459		0.675 2541	9.990 5216		073	
928	9.315 3034	359	9.324 7834	375	0.675 2166	9.990 5200	16	072	
929	9.315 3393	359	9.324 8208	374	0.675 1792	9.990 5184	16	071	
		358		375			16		
.930	9.315 3751		9.324 8583		0.675 1417	9.990 5168		.070	
		359		375			16		
931	9.315 4110		9.324 8958		0.675 1042	9.990 5152		069	
932	9.315 4469	359	9.324 9333	375	0.675 0667	9.990 5136	16	068	
933	9.315 4828	359	9.324 9707	374	0.675 0293	9.990 5120	16	067	
		358		375			16		
934	9.315 5186		9.325 0082		0.674 9918	9.990 5104		066	
935	9.315 5545	359	9.325 0457	375	0.674 9543	9.990 5088	16	065	
936	9.315 5903	358	9.325 0831	374	0.674 9169	9.990 5072	16	064	
		359		375			16		
937	9.315 6262		9.325 1206		0.674 8794	9.990 5056		063	
938	9.315 6621	359	9.325 1580	374	0.674 8420	9.990 5040	16	062	
939	9.315 6979	358	9.325 1955	375	0.674 8045	9.990 5024	16	061	
		359		374			16		
.940	9.315 7338		9.325 2329		0.674 7671	9.990 5008		.060	
		358		375			16		
941	9.315 7696		9.325 2704		0.674 7296	9.990 4992		059	
942	9.315 8054	358	9.325 3078	374	0.674 6922	9.990 4976	16	058	
943	9.315 8413	359	9.325 3453	375	0.674 6547	9.990 4960	16	057	
		358		374			16		
944	9.315 8771		9.325 3827		0.674 6173	9.990 4944		056	
945	9.315 9129	358	9.325 4201	374	0.674 5799	9.990 4928	16	055	
946	9.315 9488	359	9.325 4576	375	0.674 5424	9.990 4912	16	054	
		358		374			16		
947	9.315 9846		9.325 4950		0.674 5050	9.990 4896		053	
948	9.316 0204	358	9.325 5324	374	0.674 4676	9.990 4880	16	052	
949	9.316 0562	358	9.325 5699	375	0.674 4301	9.990 4864	16	051	
		359		374			16		
.950	9.316 0921		9.325 6073		0.674 3927	9.990 4848		.050	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	376	375
1	37.6	37.5
2	75.2	75.0
3	112.8	112.5
4	150.4	150.0
5	188.0	187.5
6	225.6	225.0
7	263.2	262.5
8	300.8	300.0
9	338.4	337.5

	374
1	37.4
2	74.8
3	112.2
4	149.6
5	187.0
6	224.4
7	261.8
8	299.2
9	336.6

	360	359
1	36.0	35.9
2	72.0	71.8
3	108.0	107.7
4	144.0	143.6
5	180.0	179.5
6	216.0	215.4
7	252.0	251.3
8	288.0	287.2
9	324.0	323.1

	358
1	35.8
2	71.6
3	107.4
4	143.2
5	179.0
6	214.8
7	250.6
8	286.4
9	322.2

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

78°.100 — 78°.050

$11^\circ.950 - 12^\circ.000$

11°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.316 0921		9.325 6073		0.674 3927	9.990 4848		.050	
		358		374			16		
951	9.316 1279		9.325 6447		0.674 3553	9.990 4832		049	
952	9.316 1637	358	9.325 6821	374	0.674 3179	9.990 4816	16	048	
953	9.316 1995	358	9.325 7195	374	0.674 2805	9.990 4800	16	047	
		358		374			16		
954	9.316 2353		9.325 7569		0.674 2431	9.990 4784		046	
955	9.316 2711	358	9.325 7943	374	0.674 2057	9.990 4768	16	045	
956	9.316 3069	358	9.325 8317	374	0.674 1683	9.990 4752	16	044	
		358		374			17		
957	9.316 3427		9.325 8691		0.674 1309	9.990 4735		043	
958	9.316 3785	358	9.325 9065	374	0.674 0935	9.990 4719	16	042	
959	9.316 4143	358	9.325 9439	374	0.674 0561	9.990 4703	16	041	
		357		374			16		
.960	9.316 4500		9.325 9813		0.674 0187	9.990 4687		.040	
		358		374			16		
961	9.316 4858		9.326 0187		0.673 9813	9.990 4671		039	
962	9.316 5216	358	9.326 0561	374	0.673 9439	9.990 4655	16	038	
963	9.316 5574	358	9.326 0935	374	0.673 9065	9.990 4639	16	037	
		357		373			16		
964	9.316 5931		9.326 1308		0.673 8692	9.990 4623		036	
965	9.316 6289	358	9.326 1682	374	0.673 8318	9.990 4607	16	035	
966	9.316 6647	358	9.326 2056	374	0.673 7944	9.990 4591	16	034	
		357		374			16		
967	9.316 7004		9.326 2430		0.673 7570	9.990 4575		033	
968	9.316 7362	358	9.326 2803	373	0.673 7197	9.990 4559	16	032	
969	9.316 7720	358	9.326 3177	374	0.673 6823	9.990 4543	16	031	
		357		374			16		
.970	9.316 8077		9.326 3551		0.673 6449	9.990 4527		.030	
		358		373			16		
971	9.316 8435		9.326 3924		0.673 6076	9.990 4511		029	
972	9.316 8792	357	9.326 4298	374	0.673 5702	9.990 4495	16	028	
973	9.316 9150	358	9.326 4671	373	0.673 5329	9.990 4478	17	027	
		357		374			16		
974	9.316 9507		9.326 5045		0.673 4955	9.990 4462		026	
975	9.316 9864	357	9.326 5418	373	0.673 4582	9.990 4446	16	025	
976	9.317 0222	358	9.326 5792	374	0.673 4208	9.990 4430	16	024	
		357		373			16		
977	9.317 0579		9.326 6165		0.673 3835	9.990 4414		023	
978	9.317 0936	357	9.326 6538	373	0.673 3462	9.990 4398	16	022	
979	9.317 1294	358	9.326 6912	374	0.673 3088	9.990 4382	16	021	
		357		373			16		
.980	9.317 1651		9.326 7285		0.673 2715	9.990 4366		.020	
		357		373			16		
981	9.317 2008		9.326 7658		0.673 2342	9.990 4350		019	
982	9.317 2365	357	9.326 8032	374	0.673 1968	9.990 4334	16	018	
983	9.317 2722	357	9.326 8405	373	0.673 1595	9.990 4318	16	017	
		358		373			16		
984	9.317 3080		9.326 8778		0.673 1222	9.990 4302		016	
985	9.317 3437	357	9.326 9151	373	0.673 0849	9.990 4285	17	015	
986	9.317 3794	357	9.326 9524	373	0.673 0476	9.990 4269	16	014	
		357		373			16		
987	9.317 4151		9.326 9897		0.673 0103	9.990 4253		013	
988	9.317 4508	357	9.327 0270	373	0.672 9730	9.990 4237	16	012	
989	9.317 4865	357	9.327 0644	374	0.672 9356	9.990 4221	16	011	
		357		373			16		
.990	9.317 5222		9.327 1017		0.672 8983	9.990 4205		.010	
		356		373			16		
991	9.317 5578		9.327 1390		0.672 8610	9.990 4189		009	
992	9.317 5935	357	9.327 1762	372	0.672 8238	9.990 4173	16	008	
993	9.317 6292	357	9.327 2135	373	0.672 7865	9.990 4157	16	007	
		357		373			16		
994	9.317 6649		9.327 2508		0.672 7492	9.990 4141		006	
995	9.317 7006	357	9.327 2881	373	0.672 7119	9.990 4124	17	005	
996	9.317 7362	356	9.327 3254	373	0.672 6746	9.990 4108	16	004	
		357		373			16		
997	9.317 7719		9.327 3627		0.672 6373	9.990 4092		003	
998	9.317 8076	357	9.327 4000	373	0.672 6000	9.990 4076	16	002	
999	9.317 8432	356	9.327 4372	372	0.672 5628	9.990 4060	16	001	
		357		373			16		
*.000	9.317 8789		9.327 4745		0.672 5255	9.990 4044		.000	
	cos	d	cotg	d	tang	sin	d	78°	P.P.

	374	373
1	37.4	37.3
2	74.8	74.6
3	112.2	111.9
4	149.6	149.2
5	187.0	186.5
6	224.4	223.8
7	261.8	261.1
8	299.2	298.4
9	336.6	335.7

	372
1	37.2
2	74.4
3	111.6
4	148.8
5	186.0
6	223.2
7	260.4
8	297.6
9	334.8

	358	357
1	35.8	35.7
2	71.6	71.4
3	107.4	107.1
4	143.2	142.8
5	179.0	178.5
6	214.8	214.2
7	250.6	249.9
8	286.4	285.6
9	322.2	321.3

	356
1	35.6
2	71.2
3	106.8
4	142.4
5	178.0
6	213.6
7	249.2
8	284.8
9	320.4

	17	16
1	1.7	1.6
2	3.4	3.2
3	5.1	4.8
4	6.8	6.4
5	8.5	8.0
6	10.2	9.6
7	11.9	11.2
8	13.6	12.8
9	15.3	14.4

$78^\circ.050 - 78^\circ.000$

12°.000 — 12°.050

12°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.317 8789		9.327 4745		0.672 5255	9.990 4044		*000	
		357		373			16		
001	9.317 9146		9.327 5118		0.672 4882	9.990 4028		999	
002	9.317 9502	356	9.327 5491	373	0.672 4509	9.990 4012	16	998	
003	9.317 9859	357	9.327 5863	372	0.672 4137	9.990 3996	16	997	
		356		373			17		
004	9.318 0215		9.327 6236		0.672 3764	9.990 3979		996	
005	9.318 0572	357	9.327 6608	372	0.672 3392	9.990 3963	16	995	
006	9.318 0928	356	9.327 6981	373	0.672 3019	9.990 3947	16	994	
		357		372			16		
007	9.318 1285		9.327 7353		0.672 2647	9.990 3931		993	
008	9.318 1641	356	9.327 7726	373	0.672 2274	9.990 3915	16	992	
009	9.318 1997	356	9.327 8098	372	0.672 1902	9.990 3899	16	991	
		357		373			16		
.010	9.318 2354		9.327 8471		0.672 1529	9.990 3883		.990	
		356		372			16		
011	9.318 2710		9.327 8843		0.672 1157	9.990 3867		989	
012	9.318 3066	356	9.327 9216	373	0.672 0784	9.990 3851	16	988	
013	9.318 3422	356	9.327 9588	372	0.672 0412	9.990 3834	17	987	
		357		372			16		
014	9.318 3779		9.327 9960		0.672 0040	9.990 3818		986	
015	9.318 4135	356	9.328 0333	373	0.671 9667	9.990 3802	16	985	
016	9.318 4491	356	9.328 0705	372	0.671 9295	9.990 3786	16	984	
		356		372			16		
017	9.318 4847		9.328 1077		0.671 8923	9.990 3770		983	
018	9.318 5203	356	9.328 1449	372	0.671 8551	9.990 3754	16	982	
019	9.318 5559	356	9.328 1822	373	0.671 8178	9.990 3738	16	981	
		356		372			17		
.020	9.318 5915		9.328 2194		0.671 7806	9.990 3721		.980	
		356		372			16		
021	9.318 6271		9.328 2566		0.671 7434	9.990 3705		979	
022	9.318 6627	356	9.328 2938	372	0.671 7062	9.990 3689	16	978	
023	9.318 6983	356	9.328 3310	372	0.671 6690	9.990 3673	16	977	
		356		372			16		
024	9.318 7339		9.328 3682		0.671 6318	9.990 3657		976	
025	9.318 7695	356	9.328 4054	372	0.671 5946	9.990 3641	16	975	
026	9.318 8050	355	9.328 4426	372	0.671 5574	9.990 3625	16	974	
		356		372			17		
027	9.318 8406		9.328 4798		0.671 5202	9.990 3608		973	
028	9.318 8762	356	9.328 5170	372	0.671 4830	9.990 3592	16	972	
029	9.318 9118	356	9.328 5542	372	0.671 4458	9.990 3576	16	971	
		355		372			16		
.030	9.318 9473		9.328 5914		0.671 4086	9.990 3560		.970	
		356		371			16		
031	9.318 9829		9.328 6285		0.671 3715	9.990 3544		969	
032	9.319 0185	356	9.328 6657	372	0.671 3343	9.990 3528	16	968	
033	9.319 0540	355	9.328 7029	372	0.671 2971	9.990 3512	16	967	
		356		372			17		
034	9.319 0896		9.328 7401		0.671 2599	9.990 3495		966	
035	9.319 1252	356	9.328 7772	371	0.671 2228	9.990 3479	16	965	
036	9.319 1607	355	9.328 8144	372	0.671 1856	9.990 3463	16	964	
		356		372			16		
037	9.319 1963		9.328 8516		0.671 1484	9.990 3447		963	
038	9.319 2318	355	9.328 8887	371	0.671 1113	9.990 3431	16	962	
039	9.319 2673	355	9.328 9259	372	0.671 0741	9.990 3415	16	961	
		356		371			17		
.040	9.319 3029		9.328 9630		0.671 0370	9.990 3398		.960	
		355		372			16		
041	9.319 3384		9.329 0002		0.670 9998	9.990 3382		959	
042	9.319 3740	356	9.329 0374	372	0.670 9626	9.990 3366	16	958	
043	9.319 4095	355	9.329 0745	371	0.670 9255	9.990 3350	16	957	
		355		371			16		
044	9.319 4450		9.329 1116		0.670 8884	9.990 3334		956	
045	9.319 4805	355	9.329 1488	372	0.670 8512	9.990 3318	16	955	
046	9.319 5161	356	9.329 1859	371	0.670 8141	9.990 3301	17	954	
		355		372			16		
047	9.319 5516		9.329 2231		0.670 7769	9.990 3285		953	
048	9.319 5871	355	9.329 2602	371	0.670 7398	9.990 3269	16	952	
049	9.319 6226	355	9.329 2973	371	0.670 7027	9.990 3253	16	951	
		355		372			16		
.050	9.319 6581		9.329 3345		0.670 6655	9.990 3237		.950	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	373	372
1	37.3	37.2
2	74.6	74.4
3	111.9	111.6
4	149.2	148.8
5	186.5	186.0
6	223.8	223.2
7	261.1	260.4
8	298.4	297.6
9	335.7	334.8

	371	357
1	37.1	35.7
2	74.2	71.4
3	111.3	107.1
4	148.4	142.8
5	185.5	178.5
6	222.6	214.2
7	259.7	249.9
8	296.8	285.6
9	333.9	321.3

	356	355
1	35.6	35.5
2	71.2	71.0
3	106.8	106.5
4	142.4	142.0
5	178.0	177.5
6	213.6	213.0
7	249.2	248.5
8	284.8	284.0
9	320.4	319.5

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

78°.000 — 77°.950

12°.050 — 12°.100

12°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.319 6581		9.329 3345		0.670 6655	9.990 3237		.950	
		355		371			17		
051	9.319 6936		9.329 3716		0.670 6284	9.990 3220		949	
052	9.319 7291	355	9.329 4087	371	0.670 5913	9.990 3204	16	948	
053	9.319 7646	355	9.329 4458	371	0.670 5542	9.990 3188	16	947	
		355		371			16		
054	9.319 8001		9.329 4829		0.670 5171	9.990 3172		946	
055	9.319 8356	355	9.329 5201	372	0.670 4799	9.990 3156	16	945	
056	9.319 8711	355	9.329 5572	371	0.670 4428	9.990 3140	16	944	
		355		371			17		
057	9.319 9066		9.329 5943		0.670 4057	9.990 3123		943	
058	9.319 9421	355	9.329 6314	371	0.670 3686	9.990 3107	16	942	
059	9.319 9776	355	9.329 6685	371	0.670 3315	9.990 3091	16	941	
		354		371			16		
.060	9.320 0130		9.329 7056		0.670 2944	9.990 3075		.940	
		355		371			16		
061	9.320 0485		9.329 7427		0.670 2573	9.990 3059		939	
062	9.320 0840	355	9.329 7798	371	0.670 2202	9.990 3042	17	938	
063	9.320 1195	355	9.329 8169	371	0.670 1831	9.990 3026	16	937	
		354		370			16		
064	9.320 1549		9.329 8539		0.670 1461	9.990 3010		936	
065	9.320 1904	355	9.329 8910	371	0.670 1090	9.990 2994	16	935	
066	9.320 2259	355	9.329 9281	371	0.670 0719	9.990 2978	16	934	
		354		371			17		
067	9.320 2613		9.329 9652		0.670 0348	9.990 2961		933	
068	9.320 2968	355	9.330 0023	371	0.669 9977	9.990 2945	16	932	
069	9.320 3322	354	9.330 0393	370	0.669 9607	9.990 2929	16	931	
		355		371			16		
.070	9.320 3677		9.330 0764		0.669 9236	9.990 2913		.930	
		354		371			16		
071	9.320 4031		9.330 1135		0.669 8865	9.990 2897		929	
072	9.320 4386	355	9.330 1505	370	0.669 8495	9.990 2880	17	928	
073	9.320 4740	354	9.330 1876	371	0.669 8124	9.990 2864	16	927	
		354		370			16		
074	9.320 5094		9.330 2246		0.669 7754	9.990 2848		926	
075	9.320 5449	355	9.330 2617	371	0.669 7383	9.990 2832	16	925	
076	9.320 5803	354	9.330 2988	371	0.669 7012	9.990 2815	17	924	
		354		370			16		
077	9.320 6157		9.330 3358		0.669 6642	9.990 2799		923	
078	9.320 6512	355	9.330 3729	371	0.669 6271	9.990 2783	16	922	
079	9.320 6866	354	9.330 4099	370	0.669 5901	9.990 2767	16	921	
		354		370			16		
.080	9.320 7220		9.330 4469		0.669 5531	9.990 2751		.920	
		354		371			17		
081	9.320 7574		9.330 4840		0.669 5160	9.990 2734		919	
082	9.320 7928	354	9.330 5210	370	0.669 4790	9.990 2718	16	918	
083	9.320 8282	354	9.330 5580	370	0.669 4420	9.990 2702	16	917	
		354		371			16		
084	9.320 8636		9.330 5951		0.669 4049	9.990 2686		916	
085	9.320 8990	354	9.330 6321	370	0.669 3679	9.990 2669	17	915	
086	9.320 9344	354	9.330 6691	370	0.669 3309	9.990 2653	16	914	
		354		370			16		
087	9.320 9698		9.330 7061		0.669 2939	9.990 2637		913	
088	9.321 0052	354	9.330 7432	371	0.669 2568	9.990 2621	16	912	
089	9.321 0406	354	9.330 7802	370	0.669 2198	9.990 2605	16	911	
		354		370			17		
.090	9.321 0760		9.330 8172		0.669 1828	9.990 2588		.910	
		354		370			16		
091	9.321 1114		9.330 8542		0.669 1458	9.990 2572		909	
092	9.321 1468	354	9.330 8912	370	0.669 1088	9.990 2556	16	908	
093	9.321 1822	354	9.330 9282	370	0.669 0718	9.990 2540	16	907	
		353		370			17		
094	9.321 2175		9.330 9652		0.669 0348	9.990 2523		906	
095	9.321 2529	354	9.331 0022	370	0.668 9978	9.990 2507	16	905	
096	9.321 2883	354	9.331 0392	370	0.668 9608	9.990 2491	16	904	
		354		370			16		
097	9.321 3237		9.331 0762		0.668 9238	9.990 2475		903	
098	9.321 3590	353	9.331 1132	370	0.668 8868	9.990 2458	17	902	
099	9.321 3944	354	9.331 1502	370	0.668 8498	9.990 2442	16	901	
		353		370			16		
.100	9.321 4297		9.331 1872		0.668 8128	9.990 2426		.900	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	372	371
1	37.2	37.1
2	74.4	74.2
3	111.6	111.3
4	148.8	148.4
5	186.0	185.5
6	223.2	222.6
7	260.4	259.7
8	297.6	296.8
9	334.8	333.9

	370	355
1	37.0	35.5
2	74.0	71.0
3	111.0	106.5
4	148.0	142.0
5	185.0	177.5
6	222.0	213.0
7	259.0	248.5
8	296.0	284.0
9	333.0	319.5

	354	353
1	35.4	35.3
2	70.8	70.6
3	106.2	105.9
4	141.6	141.2
5	177.0	176.5
6	212.4	211.8
7	247.8	247.1
8	283.2	282.4
9	318.6	317.7

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

77°.950 — 77°.900

12°.100 — 12°.150

12°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.321 4297		9.331 1872		0.668 8128	9.990 2426		.900	
		354		369			16		
101	9.321 4651		9.331 2241		0.668 7759	9.990 2410		899	
102	9.321 5004	353	9.331 2611	370	0.668 7389	9.990 2393	17	898	
103	9.321 5358	354	9.331 2981	370	0.668 7019	9.990 2377	16	897	
		353		370			16		
104	9.321 5711		9.331 3351		0.668 6649	9.990 2361		896	
105	9.321 6065	354	9.331 3720	369	0.668 6280	9.990 2345	16	895	
106	9.321 6418	353	9.331 4090	370	0.668 5910	9.990 2328	17	894	
		354		370			16		
107	9.321 6772		9.331 4460		0.668 5540	9.990 2312		893	
108	9.321 7125	353	9.331 4829	369	0.668 5171	9.990 2296	16	892	
109	9.321 7478	353	9.331 5199	370	0.668 4801	9.990 2280	16	891	
		354		369			17		
.110	9.321 7832		9.331 5568		0.668 4432	9.990 2263		.890	
		353		370			16		
111	9.321 8185		9.331 5938		0.668 4062	9.990 2247		889	
112	9.321 8538	353	9.331 6307	369	0.668 3693	9.990 2231	16	888	
113	9.321 8891	353	9.331 6677	370	0.668 3323	9.990 2215	16	887	
		353		369			17		
114	9.321 9244		9.331 7046		0.668 2954	9.990 2198		886	
115	9.321 9598	354	9.331 7416	370	0.668 2584	9.990 2182	16	885	
116	9.321 9951	353	9.331 7785	369	0.668 2215	9.990 2166	16	884	
		353		369			17		
117	9.322 0304		9.331 8154		0.668 1846	9.990 2149		883	
118	9.322 0657	353	9.331 8524	370	0.668 1476	9.990 2133	16	882	
119	9.322 1010	353	9.331 8893	369	0.668 1107	9.990 2117	16	881	
		353		369			16		
.120	9.322 1363		9.331 9262		0.668 0738	9.990 2101		.880	
		353		369			17		
121	9.322 1716		9.331 9631		0.668 0369	9.990 2084		879	
122	9.322 2069	353	9.332 0001	370	0.667 9999	9.990 2068	16	878	
123	9.322 2422	353	9.332 0370	369	0.667 9630	9.990 2052	16	877	
		352		369			17		
124	9.322 2774		9.332 0739		0.667 9261	9.990 2035		876	
125	9.322 3127	353	9.332 1108	369	0.667 8892	9.990 2019	16	875	
126	9.322 3480	353	9.332 1477	369	0.667 8523	9.990 2003	16	874	
		353		369			16		
127	9.322 3833		9.332 1846		0.667 8154	9.990 1987		873	
128	9.322 4186	353	9.332 2215	369	0.667 7785	9.990 1970	17	872	
129	9.322 4538	352	9.332 2584	369	0.667 7416	9.990 1954	16	871	
		353		369			16		
.130	9.322 4891		9.332 2953		0.667 7047	9.990 1938		.870	
		353		369			17		
131	9.322 5244		9.332 3322		0.667 6678	9.990 1921		869	
132	9.322 5596	352	9.332 3691	369	0.667 6309	9.990 1905	16	868	
133	9.322 5949	353	9.332 4060	369	0.667 5940	9.990 1889	16	867	
		352		369			16		
134	9.322 6301		9.332 4429		0.667 5571	9.990 1873		866	
135	9.322 6654	353	9.332 4798	369	0.667 5202	9.990 1856	17	865	
136	9.322 7006	352	9.332 5166	368	0.667 4834	9.990 1840	16	864	
		353		369			16		
137	9.322 7359		9.332 5535		0.667 4465	9.990 1824		863	
138	9.322 7711	352	9.332 5904	369	0.667 4096	9.990 1807	17	862	
139	9.322 8064	353	9.332 6273	369	0.667 3727	9.990 1791	16	861	
		352		368			16		
.140	9.322 8416		9.332 6641		0.667 3359	9.990 1775		.860	
		352		369			17		
141	9.322 8768		9.332 7010		0.667 2990	9.990 1758		859	
142	9.322 9121	353	9.332 7379	369	0.667 2621	9.990 1742	16	858	
143	9.322 9473	352	9.332 7747	368	0.667 2253	9.990 1726	16	857	
		352		369			16		
144	9.322 9825		9.332 8116		0.667 1884	9.990 1710		856	
145	9.323 0178	353	9.332 8484	368	0.667 1516	9.990 1693	17	855	
146	9.323 0530	352	9.332 8853	369	0.667 1147	9.990 1677	16	854	
		352		368			16		
147	9.323 0882		9.332 9221		0.667 0779	9.990 1661		853	
148	9.323 1234	352	9.332 9590	369	0.667 0410	9.990 1644	17	852	
149	9.323 1586	352	9.332 9958	368	0.667 0042	9.990 1628	16	851	
		352		369			16		
.150	9.323 1938		9.333 0327		0.666 9673	9.990 1612		.850	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	370	369
1	37.0	36.9
2	74.0	73.8
3	111.0	110.7
4	148.0	147.6
5	185.0	184.5
6	222.0	221.4
7	259.0	258.3
8	296.0	295.2
9	333.0	332.1

	368	354
1	36.8	35.4
2	73.6	70.8
3	110.4	106.2
4	147.2	141.6
5	184.0	177.0
6	220.8	212.4
7	257.6	247.8
8	294.4	283.2
9	331.2	318.6

	353	352
1	35.3	35.2
2	70.6	70.4
3	105.9	105.6
4	141.2	140.8
5	176.5	176.0
6	211.8	211.2
7	247.1	246.4
8	282.4	281.6
9	317.7	316.8

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

77°.900 — 77°.850

12°.150 — 12°.200

12°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.323 1938		9.333 0327		0.666 9673	9.990 1612		.850	
		352		368			17		
151	9.323 2290		9.333 0695		0.666 9305	9.990 1595		849	
152	9.323 2642	352	9.333 1063	368	0.666 8937	9.990 1579	16	848	
153	9.323 2994	352	9.333 1432	369	0.666 8568	9.990 1563	16	847	
		352		368			17		
154	9.323 3346		9.333 1800		0.666 8200	9.990 1546		846	
155	9.323 3698	352	9.333 2168	368	0.666 7832	9.990 1530	16	845	
156	9.323 4050	352	9.333 2536	368	0.666 7464	9.990 1514	16	844	
		352		369			17		
157	9.323 4402		9.333 2905		0.666 7095	9.990 1497		843	
158	9.323 4754	352	9.333 3273	368	0.666 6727	9.990 1481	16	842	
159	9.323 5106	352	9.333 3641	368	0.666 6359	9.990 1465	16	841	
		352		368			17		
.160	9.323 5458		9.333 4009		0.666 5991	9.990 1448		.840	
		351		368			16		
161	9.323 5809		9.333 4377		0.666 5623	9.990 1432		839	
162	9.323 6161	352	9.333 4745	368	0.666 5255	9.990 1416	16	838	
163	9.323 6513	352	9.333 5113	368	0.666 4887	9.990 1399	17	837	
		351		368			16		
164	9.323 6864		9.333 5481		0.666 4519	9.990 1383		836	
165	9.323 7216	352	9.333 5849	368	0.666 4151	9.990 1367	16	835	
166	9.323 7568	352	9.333 6217	368	0.666 3783	9.990 1350	17	834	
		351		368			16		
167	9.323 7919		9.333 6585		0.666 3415	9.990 1334		833	
168	9.323 8271	352	9.333 6953	368	0.666 3047	9.990 1318	16	832	
169	9.323 8622	351	9.333 7321	368	0.666 2679	9.990 1301	17	831	
		352		368			16		
.170	9.323 8974		9.333 7689		0.666 2311	9.990 1285		.830	
		351		368			16		
171	9.323 9325		9.333 8057		0.666 1943	9.990 1269		829	
172	9.323 9677	352	9.333 8424	367	0.666 1576	9.990 1252	17	828	
173	9.324 0028	351	9.333 8792	368	0.666 1208	9.990 1236	16	827	
		351		368			16		
174	9.324 0379		9.333 9160		0.666 0840	9.990 1220		826	
175	9.324 0731	352	9.333 9528	368	0.666 0472	9.990 1203	17	825	
176	9.324 1082	351	9.333 9895	367	0.666 0105	9.990 1187	16	824	
		351		368			16		
177	9.324 1433		9.334 0263		0.665 9737	9.990 1171		823	
178	9.324 1785	352	9.334 0630	367	0.665 9370	9.990 1154	17	822	
179	9.324 2136	351	9.334 0998	368	0.665 9002	9.990 1138	16	821	
		351		368			17		
.180	9.324 2487		9.334 1366		0.665 8634	9.990 1121		.820	
		351		367			16		
181	9.324 2838		9.334 1733		0.665 8267	9.990 1105		819	
182	9.324 3189	351	9.334 2101	368	0.665 7899	9.990 1089	16	818	
183	9.324 3540	351	9.334 2468	367	0.665 7532	9.990 1072	17	817	
		351		367			16		
184	9.324 3891		9.334 2835		0.665 7165	9.990 1056		816	
185	9.324 4243	352	9.334 3203	368	0.665 6797	9.990 1040	16	815	
186	9.324 4594	351	9.334 3570	367	0.665 6430	9.990 1023	17	814	
		351		368			16		
187	9.324 4945		9.334 3938		0.665 6062	9.990 1007		813	
188	9.324 5295	350	9.334 4305	367	0.665 5695	9.990 0991	16	812	
189	9.324 5646	351	9.334 4672	367	0.665 5328	9.990 0974	17	811	
		351		367			16		
.190	9.324 5997		9.334 5039		0.665 4961	9.990 0958		.810	
		351		368			17		
191	9.324 6348		9.334 5407		0.665 4593	9.990 0941		809	
192	9.324 6699	351	9.334 5774	367	0.665 4226	9.990 0925	16	808	
193	9.324 7050	351	9.334 6141	367	0.665 3859	9.990 0909	16	807	
		351		367			17		
194	9.324 7401		9.334 6508		0.665 3492	9.990 0892		806	
195	9.324 7751	350	9.334 6875	367	0.665 3125	9.990 0876	16	805	
196	9.324 8102	351	9.334 7243	368	0.665 2757	9.990 0860	16	804	
		351		367			17		
197	9.324 8453		9.334 7610		0.665 2390	9.990 0843		803	
198	9.324 8803	350	9.334 7977	367	0.665 2023	9.990 0827	16	802	
199	9.324 9154	351	9.334 8344	367	0.665 1656	9.990 0810	17	801	
		351		367			16		
.200	9.324 9505		9.334 8711		0.665 1289	9.990 0794		.800	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	369	368
1	36.9	36.8
2	73.8	73.6
3	110.7	110.4
4	147.6	147.2
5	184.5	184.0
6	221.4	220.8
7	258.3	257.6
8	295.2	294.4
9	332.1	331.2

	367	352
1	36.7	35.2
2	73.4	70.4
3	110.1	105.6
4	146.8	140.8
5	183.5	176.0
6	220.2	211.2
7	256.9	246.4
8	293.6	281.6
9	330.3	316.8

	351	350
1	35.1	35.0
2	70.2	70.0
3	105.3	105.0
4	140.4	140.0
5	175.5	175.0
6	210.6	210.0
7	245.7	245.0
8	280.8	280.0
9	315.9	315.0

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

77°.850 — 77°.800

$12^\circ.200$ — $12^\circ.250$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.324 9505		9.334 8711		0.665 1289	9.990 0794		**.800**	
		350		367			16		
201	9.324 9855		9.334 9078		0.665 0922	9.990 0778		799	
202	9.325 0206	351	9.334 9445	367	0.665 0555	9.990 0761	17	798	
203	9.325 0556	350	9.334 9811	366	0.665 0189	9.990 0745	16	797	
		351		367			17		
204	9.325 0907		9.335 0178		0.664 9822	9.990 0728		796	
205	9.325 1257	350	9.335 0545	367	0.664 9455	9.990 0712	16	795	
206	9.325 1608	351	9.335 0912	367	0.664 9088	9.990 0696	16	794	
		350		367			17		
207	9.325 1958		9.335 1279		0.664 8721	9.990 0679		793	
208	9.325 2308	350	9.335 1645	366	0.664 8355	9.990 0663	16	792	
209	9.325 2659	351	9.335 2012	367	0.664 7988	9.990 0646	17	791	
		350		367			16		
.210	9.325 3009		9.335 2379		0.664 7621	9.990 0630		**.790**	
		350		367			16		
211	9.325 3359		9.335 2746		0.664 7254	9.990 0614		789	
212	9.325 3709	350	9.335 3112	366	0.664 6888	9.990 0597	17	788	
213	9.325 4060	351	9.335 3479	367	0.664 6521	9.990 0581	16	787	
		350		366			17		
214	9.325 4410		9.335 3845		0.664 6155	9.990 0564		786	
215	9.325 4760	350	9.335 4212	367	0.664 5788	9.990 0548	16	785	
216	9.325 5110	350	9.335 4579	367	0.664 5421	9.990 0532	16	784	
		350		366			17		
217	9.325 5460		9.335 4945		0.664 5055	9.990 0515		783	
218	9.325 5810	350	9.335 5312	367	0.664 4688	9.990 0499	16	782	
219	9.325 6160	350	9.335 5678	366	0.664 4322	9.990 0482	17	781	
		350		366			16		
.220	9.325 6510		9.335 6044		0.664 3956	9.990 0466		**.780**	
		350		367			16		
221	9.325 6860		9.335 6411		0.664 3589	9.990 0450		779	
222	9.325 7210	350	9.335 6777	366	0.664 3223	9.990 0433	17	778	
223	9.325 7560	350	9.335 7143	366	0.664 2857	9.990 0417	16	777	
		350		367			17		
224	9.325 7910		9.335 7510		0.664 2490	9.990 0400		776	
225	9.325 8260	350	9.335 7876	366	0.664 2124	9.990 0384	16	775	
226	9.325 8610	350	9.335 8242	366	0.664 1758	9.990 0367	17	774	
		350		367			16		
227	9.325 8960		9.335 8609		0.664 1391	9.990 0351		773	
228	9.325 9309	349	9.335 8975	366	0.664 1025	9.990 0335	16	772	
229	9.325 9659	350	9.335 9341	366	0.664 0659	9.990 0318	17	771	
		350		366			16		
.230	9.326 0009		9.335 9707		0.664 0293	9.990 0302		**.770**	
		349		366			17		
231	9.326 0358		9.336 0073		0.663 9927	9.990 0285		769	
232	9.326 0708	350	9.336 0439	366	0.663 9561	9.990 0269	16	768	
233	9.326 1058	350	9.336 0805	366	0.663 9195	9.990 0252	17	767	
		349		366			16		
234	9.326 1407		9.336 1171		0.663 8829	9.990 0236		766	
235	9.326 1757	350	9.336 1537	366	0.663 8463	9.990 0220	16	765	
236	9.326 2106	349	9.336 1903	366	0.663 8097	9.990 0203	17	764	
		350		366			16		
237	9.326 2456		9.336 2269		0.663 7731	9.990 0187		763	
238	9.326 2805	349	9.336 2635	366	0.663 7365	9.990 0170	17	762	
239	9.326 3155	350	9.336 3001	366	0.663 6999	9.990 0154	16	761	
		349		366			17		
.240	9.326 3504		9.336 3367		0.663 6633	9.990 0137		**.760**	
		350		366			16		
241	9.326 3854		9.336 3733		0.663 6267	9.990 0121		759	
242	9.326 4203	349	9.336 4099	366	0.663 5901	9.990 0104	17	758	
243	9.326 4552	349	9.336 4464	365	0.663 5536	9.990 0088	16	757	
		350		366			16		
244	9.326 4902		9.336 4830		0.663 5170	9.990 0072		756	
245	9.326 5251	349	9.336 5196	366	0.663 4804	9.990 0055	17	755	
246	9.326 5600	349	9.336 5561	365	0.663 4439	9.990 0039	16	754	
		349		366			17		
247	9.326 5949		9.336 5927		0.663 4073	9.990 0022		753	
248	9.326 6299	350	9.336 6293	366	0.663 3707	9.990 0006	16	752	
249	9.326 6648	349	9.336 6658	365	0.663 3342	9.989 9989	17	751	
		349		366			16		
.250	9.326 6997		9.336 7024		0.663 2976	9.989 9973		**.750**	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	367	366
1	36.7	36.6
2	73.4	73.2
3	110.1	109.8
4	146.8	146.4
5	183.5	183.0
6	220.2	219.6
7	256.9	256.2
8	293.6	292.8
9	330.3	329.4

	365	351
1	36.5	35.1
2	73.0	70.2
3	109.5	105.3
4	146.0	140.4
5	182.5	175.5
6	219.0	210.6
7	255.5	245.7
8	292.0	280.8
9	328.5	315.9

	350	349
1	35.0	34.9
2	70.0	69.8
3	105.0	104.7
4	140.0	139.6
5	175.0	174.5
6	210.0	209.4
7	245.0	244.3
8	280.0	279.2
9	315.0	314.1

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

$77^\circ.800$ — $77^\circ.750$

$12^\circ.250 - 12^\circ.300$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.326 6997		9.336 7024		0.663 2976	9.989 9973		.750	
		349		366			17		
251	9.326 7346		9.336 7390		0.663 2610	9.989 9956		749	
252	9.326 7695	349	9.336 7755	365	0.663 2245	9.989 9940	16	748	
253	9.326 8044	349	9.336 8121	366	0.663 1879	9.989 9923	17	747	
		349		365			16		
254	9.326 8393		9.336 8486		0.663 1514	9.989 9907		746	
255	9.326 8742	349	9.336 8851	365	0.663 1149	9.989 9891	16	745	
256	9.326 9091	349	9.336 9217	366	0.663 0783	9.989 9874	17	744	
		349		365			16		
257	9.326 9440		9.336 9582		0.663 0418	9.989 9858		743	
258	9.326 9789	349	9.336 9948	366	0.663 0052	9.989 9841	17	742	
259	9.327 0138	349	9.337 0313	365	0.662 9687	9.989 9825	16	741	
		348		365			17		
.260	9.327 0486		9.337 0678		0.662 9322	9.989 9808		.740	
		349		366			16		
261	9.327 0835		9.337 1044		0.662 8956	9.989 9792		739	
262	9.327 1184	349	9.337 1409	365	0.662 8591	9.989 9775	17	738	
263	9.327 1533	349	9.337 1774	365	0.662 8226	9.989 9759	16	737	
		348		365			17		
264	9.327 1881		9.337 2139		0.662 7861	9.989 9742		736	
265	9.327 2230	349	9.337 2504	365	0.662 7496	9.989 9726	16	735	
266	9.327 2579	349	9.337 2869	365	0.662 7131	9.989 9709	17	734	
		348		366			16		
267	9.327 2927		9.337 3235		0.662 6765	9.989 9693		733	
268	9.327 3276	349	9.337 3600	365	0.662 6400	9.989 9676	17	732	
269	9.327 3625	349	9.337 3965	365	0.662 6035	9.989 9660	16	731	
		348		365			17		
.270	9.327 3973		9.337 4330		0.662 5670	9.989 9643		.730	
		349		365			16		
271	9.327 4322		9.337 4695		0.662 5305	9.989 9627		729	
272	9.327 4670	348	9.337 5060	365	0.662 4940	9.989 9610	17	728	
273	9.327 5019	349	9.337 5425	365	0.662 4575	9.989 9594	16	727	
		348		364			17		
274	9.327 5367		9.337 5789		0.662 4211	9.989 9577		726	
275	9.327 5715	348	9.337 6154	365	0.662 3846	9.989 9561	16	725	
276	9.327 6064	349	9.337 6519	365	0.662 3481	9.989 9544	17	724	
		348		365			16		
277	9.327 6412		9.337 6884		0.662 3116	9.989 9528		723	
278	9.327 6760	348	9.337 7249	365	0.662 2751	9.989 9511	17	722	
279	9.327 7109	349	9.337 7614	365	0.662 2386	9.989 9495	16	721	
		348		364			17		
.280	9.327 7457		9.337 7978		0.662 2022	9.989 9478		.720	
		348		365			16		
281	9.327 7805		9.337 8343		0.662 1657	9.989 9462		719	
282	9.327 8153	348	9.337 8708	365	0.662 1292	9.989 9445	17	718	
283	9.327 8501	348	9.337 9072	364	0.662 0928	9.989 9429	16	717	
		349		365			17		
284	9.327 8850		9.337 9437		0.662 0563	9.989 9412		716	
285	9.327 9198	348	9.337 9802	365	0.662 0198	9.989 9396	16	715	
286	9.327 9546	348	9.338 0166	364	0.661 9834	9.989 9379	17	714	
		348		365			16		
287	9.327 9894		9.338 0531		0.661 9469	9.989 9363		713	
288	9.328 0242	348	9.338 0895	364	0.661 9105	9.989 9346	17	712	
289	9.328 0590	348	9.338 1260	365	0.661 8740	9.989 9330	16	711	
		348		364			17		
.290	9.328 0938		9.338 1624		0.661 8376	9.989 9313		.710	
		348		365			16		
291	9.328 1286		9.338 1989		0.661 8011	9.989 9297		709	
292	9.328 1633	347	9.338 2353	364	0.661 7647	9.989 9280	17	708	
293	9.328 1981	348	9.338 2717	364	0.661 7283	9.989 9264	16	707	
		348		365			17		
294	9.328 2329		9.338 3082		0.661 6918	9.989 9247		706	
295	9.328 2677	348	9.338 3446	364	0.661 6554	9.989 9231	16	705	
296	9.328 3025	348	9.338 3810	364	0.661 6190	9.989 9214	17	704	
		347		365			16		
297	9.328 3372		9.338 4175		0.661 5825	9.989 9198		703	
298	9.328 3720	348	9.338 4539	364	0.661 5461	9.989 9181	17	702	
299	9.328 4068	348	9.338 4903	364	0.661 5097	9.989 9165	16	701	
		348		364			17		
.300	9.328 4416		9.338 5267		0.661 4733	9.989 9148		.700	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	366	365
1	36.6	36.5
2	73.2	73.0
3	109.8	109.5
4	146.4	146.0
5	183.0	182.5
6	219.6	219.0
7	256.2	255.5
8	292.8	292.0
9	329.4	328.5

	364	349
1	36.4	34.9
2	72.8	69.8
3	109.2	104.7
4	145.6	139.6
5	182.0	174.5
6	218.4	209.4
7	254.8	244.3
8	291.2	279.2
9	327.6	314.1

	348	347
1	34.8	34.7
2	69.6	69.4
3	104.4	104.1
4	139.2	138.8
5	174.0	173.5
6	208.8	208.2
7	243.6	242.9
8	278.4	277.6
9	313.2	312.3

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

$77^\circ.750 - 77^\circ.700$

$12^\circ.300 - 12^\circ.350$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.328 4416		9.338 5267		0.661 4733	9.989 9148		**.700**	
		347		364			16		
301	9.328 4763		9.338 5631		0.661 4369	9.989 9132		699	
302	9.328 5111	348	9.338 5996	365	0.661 4004	9.989 9115	17	698	
303	9.328 5458	347	9.338 6360	364	0.661 3640	9.989 9099	16	697	
		348		364			17		
304	9.328 5806		9.338 6724		0.661 3276	9.989 9082		696	
305	9.328 6153	347	9.338 7088	364	0.661 2912	9.989 9066	16	695	
306	9.328 6501	348	9.338 7452	364	0.661 2548	9.989 9049	17	694	
		347		364			17		
307	9.328 6848		9.338 7816		0.661 2184	9.989 9032		693	
308	9.328 7196	348	9.338 8180	364	0.661 1820	9.989 9016	16	692	
309	9.328 7543	347	9.338 8544	364	0.661 1456	9.989 8999	17	691	
		348		364			16		
.310	9.328 7891		9.338 8908		0.661 1092	9.989 8983		**.690**	
		347		364			17		
311	9.328 8238		9.338 9272		0.661 0728	9.989 8966		689	
312	9.328 8585	347	9.338 9635	363	0.661 0365	9.989 8950	16	688	
313	9.328 8932	347	9.338 9999	364	0.661 0001	9.989 8933	17	687	
		348		364			16		
314	9.328 9280		9.339 0363		0.660 9637	9.989 8917		686	
315	9.328 9627	347	9.339 0727	364	0.660 9273	9.989 8900	17	685	
316	9.328 9974	347	9.339 1091	364	0.660 8909	9.989 8884	16	684	
		347		363			17		
317	9.329 0321		9.339 1454		0.660 8546	9.989 8867		683	
318	9.329 0668	347	9.339 1818	364	0.660 8182	9.989 8851	16	682	
319	9.329 1016	348	9.339 2182	364	0.660 7818	9.989 8834	17	681	
		347		363			17		
.320	9.329 1363		9.339 2545		0.660 7455	9.989 8817		**.680**	
		347		364			16		
321	9.329 1710		9.339 2909		0.660 7091	9.989 8801		679	
322	9.329 2057	347	9.339 3272	363	0.660 6728	9.989 8784	17	678	
323	9.329 2404	347	9.339 3636	364	0.660 6364	9.989 8768	16	677	
		347		363			17		
324	9.329 2751		9.339 3999		0.660 6001	9.989 8751		676	
325	9.329 3098	347	9.339 4363	364	0.660 5637	9.989 8735	16	675	
326	9.329 3444	346	9.339 4726	363	0.660 5274	9.989 8718	17	674	
		347		364			17		
327	9.329 3791		9.339 5090		0.660 4910	9.989 8701		673	
328	9.329 4138	347	9.339 5453	363	0.660 4547	9.989 8685	16	672	
329	9.329 4485	347	9.339 5817	364	0.660 4183	9.989 8668	17	671	
		347		363			16		
.330	9.329 4832		9.339 6180		0.660 3820	9.989 8652		**.670**	
		347		363			17		
331	9.329 5179		9.339 6543		0.660 3457	9.989 8635		669	
332	9.329 5525	346	9.339 6907	364	0.660 3093	9.989 8619	16	668	
333	9.329 5872	347	9.339 7270	363	0.660 2730	9.989 8602	17	667	
		347		363			16		
334	9.329 6219		9.339 7633		0.660 2367	9.989 8586		666	
335	9.329 6565	346	9.339 7996	363	0.660 2004	9.989 8569	17	665	
336	9.329 6912	347	9.339 8360	364	0.660 1640	9.989 8552	17	664	
		346		363			16		
337	9.329 7258		9.339 8723		0.660 1277	9.989 8536		663	
338	9.329 7605	347	9.339 9086	363	0.660 0914	9.989 8519	17	662	
339	9.329 7952	347	9.339 9449	363	0.660 0551	9.989 8503	16	661	
		346		363			17		
.340	9.329 8298		9.339 9812		0.660 0188	9.989 8486		**.660**	
		347		363			17		
341	9.329 8645		9.340 0175		0.659 9825	9.989 8469		659	
342	9.329 8991	346	9.340 0538	363	0.659 9462	9.989 8453	16	658	
343	9.329 9337	346	9.340 0901	363	0.659 9099	9.989 8436	17	657	
		347		363			16		
344	9.329 9684		9.340 1264		0.659 8736	9.989 8420		656	
345	9.330 0030	346	9.340 1627	363	0.659 8373	9.989 8403	17	655	
346	9.330 0376	346	9.340 1990	363	0.659 8010	9.989 8387	16	654	
		347		363			17		
347	9.330 0723		9.340 2353		0.659 7647	9.989 8370		653	
348	9.330 1069	346	9.340 2716	363	0.659 7284	9.989 8353	17	652	
349	9.330 1415	346	9.340 3078	362	0.659 6922	9.989 8337	16	651	
		346		363			17		
.350	9.330 1761		9.340 3441		0.659 6559	9.989 8320		**.650**	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	365	364
1	36.5	36.4
2	73.0	72.8
3	109.5	109.2
4	146.0	145.6
5	182.5	182.0
6	219.0	218.4
7	255.5	254.8
8	292.0	291.2
9	328.5	327.6

	363	362
1	36.3	36.2
2	72.6	72.4
3	108.9	108.6
4	145.2	144.8
5	181.5	181.0
6	217.8	217.2
7	254.1	253.4
8	290.4	289.6
9	326.7	325.8

	348	347
1	34.8	34.7
2	69.6	69.4
3	104.4	104.1
4	139.2	138.8
5	174.0	173.5
6	208.8	208.2
7	243.6	242.9
8	278.4	277.6
9	313.2	312.3

	346
1	34.6
2	69.2
3	103.8
4	138.4
5	173.0
6	207.6
7	242.2
8	276.8
9	311.4

	17	16
1	1.7	1.6
2	3.4	3.2
3	5.1	4.8
4	6.8	6.4
5	8.5	8.0
6	10.2	9.6
7	11.9	11.2
8	13.6	12.8
9	15.3	14.4

$77^\circ.700 - 77^\circ.650$

$12^\circ.350 - 12^\circ.400$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.330 1761		9.340 3441		0.659 6559	9.989 8320		.650	
		347		363			16		
351	9.330 2108		9.340 3804		0.659 6196	9.989 8304		649	
352	9.330 2454	346	9.340 4167	363	0.659 5833	9.989 8287	17	648	
353	9.330 2800	346	9.340 4530	363	0.659 5470	9.989 8270	17	647	
		346		362			16		
354	9.330 3146		9.340 4892		0.659 5108	9.989 8254		646	
355	9.330 3492	346	9.340 5255	363	0.659 4745	9.989 8237	17	645	
356	9.330 3838	346	9.340 5618	363	0.659 4382	9.989 8221	16	644	
		346		362			17		
357	9.330 4184		9.340 5980		0.659 4020	9.989 8204		643	
358	9.330 4530	346	9.340 6343	363	0.659 3657	9.989 8187	17	642	
359	9.330 4876	346	9.340 6705	362	0.659 3295	9.989 8171	16	641	
		346		363			17		
.360	9.330 5222		9.340 7068		0.659 2932	9.989 8154		.640	
		346		362			16		
361	9.330 5568		9.340 7430		0.659 2570	9.989 8138		639	
362	9.330 5914	346	9.340 7793	363	0.659 2207	9.989 8121	17	638	
363	9.330 6259	345	9.340 8155	362	0.659 1845	9.989 8104	17	637	
		346		363			16		
364	9.330 6605		9.340 8518		0.659 1482	9.989 8088		636	
365	9.330 6951	346	9.340 8880	362	0.659 1120	9.989 8071	17	635	
366	9.330 7297	346	9.340 9242	362	0.659 0758	9.989 8054	17	634	
		346		363			16		
367	9.330 7643		9.340 9605		0.659 0395	9.989 8038		633	
368	9.330 7988	345	9.340 9967	362	0.659 0033	9.989 8021	17	632	
369	9.330 8334	346	9.341 0329	362	0.658 9671	9.989 8005	16	631	
		345		363			17		
.370	9.330 8679		9.341 0692		0.658 9308	9.989 7988		.630	
		346		362			17		
371	9.330 9025		9.341 1054		0.658 8946	9.989 7971		629	
372	9.330 9371	346	9.341 1416	362	0.658 8584	9.989 7955	16	628	
373	9.330 9716	345	9.341 1778	362	0.658 8222	9.989 7938	17	627	
		346		362			17		
374	9.331 0062		9.341 2140		0.658 7860	9.989 7921		626	
375	9.331 0407	345	9.341 2502	362	0.658 7498	9.989 7905	16	625	
376	9.331 0753	346	9.341 2864	362	0.658 7136	9.989 7888	17	624	
		345		363			16		
377	9.331 1098		9.341 3227		0.658 6773	9.989 7872		623	
378	9.331 1443	345	9.341 3589	362	0.658 6411	9.989 7855	17	622	
379	9.331 1789	346	9.341 3951	362	0.658 6049	9.989 7838	17	621	
		345		362			16		
.380	9.331 2134		9.341 4313		0.658 5687	9.989 7822		.620	
		346		362			17		
381	9.331 2480		9.341 4675		0.658 5325	9.989 7805		619	
382	9.331 2825	345	9.341 5036	361	0.658 4964	9.989 7788	17	618	
383	9.331 3170	345	9.341 5398	362	0.658 4602	9.989 7772	16	617	
		345		362			17		
384	9.331 3515		9.341 5760		0.658 4240	9.989 7755		616	
385	9.331 3860	345	9.341 6122	362	0.658 3878	9.989 7738	17	615	
386	9.331 4206	346	9.341 6484	362	0.658 3516	9.989 7722	16	614	
		345		362			17		
387	9.331 4551		9.341 6846		0.658 3154	9.989 7705		613	
388	9.331 4896	345	9.341 7207	361	0.658 2793	9.989 7688	17	612	
389	9.331 5241	345	9.341 7569	362	0.658 2431	9.989 7672	16	611	
		345		362			17		
.390	9.331 5586		9.341 7931		0.658 2069	9.989 7655		.610	
		345		362			16		
391	9.331 5931		9.341 8293		0.658 1707	9.989 7639		609	
392	9.331 6276	345	9.341 8654	361	0.658 1346	9.989 7622	17	608	
393	9.331 6621	345	9.341 9016	362	0.658 0984	9.989 7605	17	607	
		345		361			16		
394	9.331 6966		9.341 9377		0.658 0623	9.989 7589		606	
395	9.331 7311	345	9.341 9739	362	0.658 0261	9.989 7572	17	605	
396	9.331 7656	345	9.342 0100	361	0.657 9900	9.989 7555	17	604	
		345		362			16		
397	9.331 8001		9.342 0462		0.657 9538	9.989 7539		603	
398	9.331 8345	344	9.342 0823	361	0.657 9177	9.989 7522	17	602	
399	9.331 8690	345	9.342 1185	362	0.657 8815	9.989 7505	17	601	
		345		361			16		
.400	9.331 9035		9.342 1546		0.657 8454	9.989 7489		.600	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	363	362
1	36.3	36.2
2	72.6	72.4
3	108.9	108.6
4	145.2	144.8
5	181.5	181.0
6	217.8	217.2
7	254.1	253.4
8	290.4	289.6
9	326.7	325.8

	361	347
1	36.1	34.7
2	72.2	69.4
3	108.3	104.1
4	144.4	138.8
5	180.5	173.5
6	216.6	208.2
7	252.7	242.9
8	288.8	277.6
9	324.9	312.3

	346	345
1	34.6	34.5
2	69.2	69.0
3	103.8	103.5
4	138.4	138.0
5	173.0	172.5
6	207.6	207.0
7	242.2	241.5
8	276.8	276.0
9	311.4	310.5

	344
1	34.4
2	68.8
3	103.2
4	137.6
5	172.0
6	206.4
7	240.8
8	275.2
9	309.6

	17	16
1	1.7	1.6
2	3.4	3.2
3	5.1	4.8
4	6.8	6.4
5	8.5	8.0
6	10.2	9.6
7	11.9	11.2
8	13.6	12.8
9	15.3	14.4

$77^\circ.650 - 77^\circ.600$

$12^\circ.400 - 12^\circ.450$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.331 9035		9.342 1546		0.657 8454	9.989 7489		**.600**	
		345		362			17		
401	9.331 9380		9.342 1908		0.657 8092	9.989 7472		599	
402	9.331 9724	344	9.342 2269	361	0.657 7731	9.989 7455	17	598	
403	9.332 0069	345	9.342 2631	362	0.657 7369	9.989 7439	16	597	
		345		361			17		
404	9.332 0414		9.342 2992		0.657 7008	9.989 7422		596	
405	9.332 0758	344	9.342 3353	361	0.657 6647	9.989 7405	17	595	
406	9.332 1103	345	9.342 3714	361	0.657 6286	9.989 7389	16	594	
		345		362			17		
407	9.332 1448		9.342 4076		0.657 5924	9.989 7372		593	
408	9.332 1792	344	9.342 4437	361	0.657 5563	9.989 7355	17	592	
409	9.332 2137	345	9.342 4798	361	0.657 5202	9.989 7339	16	591	
		344		361			17		
.410	9.332 2481		9.342 5159		0.657 4841	9.989 7322		**.590**	
		345		361			17		
411	9.332 2826		9.342 5520		0.657 4480	9.989 7305		589	
412	9.332 3170	344	9.342 5881	361	0.657 4119	9.989 7289	16	588	
413	9.332 3514	344	9.342 6242	361	0.657 3758	9.989 7272	17	587	
		345		362			17		
414	9.332 3859		9.342 6604		0.657 3396	9.989 7255		586	
415	9.332 4203	344	9.342 6965	361	0.657 3035	9.989 7238	17	585	
416	9.332 4547	344	9.342 7326	361	0.657 2674	9.989 7222	16	584	
		345		361			17		
417	9.332 4892		9.342 7687		0.657 2313	9.989 7205		583	
418	9.332 5236	344	9.342 8047	360	0.657 1953	9.989 7188	17	582	
419	9.332 5580	344	9.342 8408	361	0.657 1592	9.989 7172	16	581	
		344		361			17		
.420	9.332 5924		9.342 8769		0.657 1231	9.989 7155		**.580**	
		344		361			17		
421	9.332 6268		9.342 9130		0.657 0870	9.989 7138		579	
422	9.332 6613	345	9.342 9491	361	0.657 0509	9.989 7122	16	578	
423	9.332 6957	344	9.342 9852	361	0.657 0148	9.989 7105	17	577	
		344		361			17		
424	9.332 7301		9.343 0213		0.656 9787	9.989 7088		576	
425	9.332 7645	344	9.343 0573	360	0.656 9427	9.989 7072	16	575	
426	9.332 7989	344	9.343 0934	361	0.656 9066	9.989 7055	17	574	
		344		361			17		
427	9.332 8333		9.343 1295		0.656 8705	9.989 7038		573	
428	9.332 8677	344	9.343 1655	360	0.656 8345	9.989 7021	17	572	
429	9.332 9021	344	9.343 2016	361	0.656 7984	9.989 7005	16	571	
		344		361			17		
.430	9.332 9365		9.343 2377		0.656 7623	9.989 6988		**.570**	
		344		360			17		
431	9.332 9709		9.343 2737		0.656 7263	9.989 6971		569	
432	9.333 0052	343	9.343 3098	361	0.656 6902	9.989 6955	16	568	
433	9.333 0396	344	9.343 3458	360	0.656 6542	9.989 6938	17	567	
		344		361			17		
434	9.333 0740		9.343 3819		0.656 6181	9.989 6921		566	
435	9.333 1084	344	9.343 4179	360	0.656 5821	9.989 6904	17	565	
436	9.333 1428	344	9.343 4540	361	0.656 5460	9.989 6888	16	564	
		343		360			17		
437	9.333 1771		9.343 4900		0.656 5100	9.989 6871		563	
438	9.333 2115	344	9.343 5261	361	0.656 4739	9.989 6854	17	562	
439	9.333 2459	344	9.343 5621	360	0.656 4379	9.989 6838	16	561	
		343		360			17		
.440	9.333 2802		9.343 5981		0.656 4019	9.989 6821		**.560**	
		344		361			17		
441	9.333 3146		9.343 6342		0.656 3658	9.989 6804		559	
442	9.333 3489	343	9.343 6702	360	0.656 3298	9.989 6787	17	558	
443	9.333 3833	344	9.343 7062	360	0.656 2938	9.989 6771	16	557	
		343		360			17		
444	9.333 4176		9.343 7422		0.656 2578	9.989 6754		556	
445	9.333 4520	344	9.343 7783	361	0.656 2217	9.989 6737	17	555	
446	9.333 4863	343	9.343 8143	360	0.656 1857	9.989 6721	16	554	
		344		360			17		
447	9.333 5207		9.343 8503		0.656 1497	9.989 6704		553	
448	9.333 5550	343	9.343 8863	360	0.656 1137	9.989 6687	17	552	
449	9.333 5893	343	9.343 9223	360	0.656 0777	9.989 6670	17	551	
		344		360			16		
.450	9.333 6237		9.343 9583		0.656 0417	9.989 6654		**.550**	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	362	361
1	36.2	36.1
2	72.4	72.2
3	108.6	108.3
4	144.8	144.4
5	181.0	180.5
6	217.2	216.6
7	253.4	252.7
8	289.6	288.8
9	325.8	324.9

	360	345
1	36.0	34.5
2	72.0	69.0
3	108.0	103.5
4	144.0	138.0
5	180.0	172.5
6	216.0	207.0
7	252.0	241.5
8	288.0	276.0
9	324.0	310.5

	344	343
1	34.4	34.3
2	68.8	68.6
3	103.2	102.9
4	137.6	137.2
5	172.0	171.5
6	206.4	205.8
7	240.8	240.1
8	275.2	274.4
9	309.6	308.7

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

$77^\circ.600 - 77^\circ.550$

$12^\circ.450 - 12^\circ.500$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.333 6237		9.343 9583		0.656 0417	9.989 6654		**.550**	
		343		360			17		
451	9.333 6580		9.343 9943		0.656 0057	9.989 6637		549	
452	9.333 6923	343	9.344 0303	360	0.655 9697	9.989 6620	17	548	
453	9.333 7267	344	9.344 0663	360	0.655 9337	9.989 6603	17	547	
		343		360			16		
454	9.333 7610		9.344 1023		0.655 8977	9.989 6587		546	
455	9.333 7953	343	9.344 1383	360	0.655 8617	9.989 6570	17	545	
456	9.333 8296	343	9.344 1743	360	0.655 8257	9.989 6553	17	544	
		343		360			17		
457	9.333 8639		9.344 2103		0.655 7897	9.989 6536		543	
458	9.333 8983	344	9.344 2463	360	0.655 7537	9.989 6520	16	542	
459	9.333 9326	343	9.344 2823	360	0.655 7177	9.989 6503	17	541	
		343		359			17		
.460	9.333 9669		9.344 3182		0.655 6818	9.989 6486		**.540**	
		343		360			17		
461	9.334 0012		9.344 3542		0.655 6458	9.989 6469		539	
462	9.334 0355	343	9.344 3902	360	0.655 6098	9.989 6453	16	538	
463	9.334 0698	343	9.344 4262	360	0.655 5738	9.989 6436	17	537	
		343		359			17		
464	9.334 1041		9.344 4621		0.655 5379	9.989 6419		536	
465	9.334 1383	342	9.344 4981	360	0.655 5019	9.989 6402	17	535	
466	9.334 1726	343	9.344 5341	360	0.655 4659	9.989 6386	16	534	
		343		359			17		
467	9.334 2069		9.344 5700		0.655 4300	9.989 6369		533	
468	9.334 2412	343	9.344 6060	360	0.655 3940	9.989 6352	17	532	
469	9.334 2755	343	9.344 6419	359	0.655 3581	9.989 6335	17	531	
		343		360			16		
.470	9.334 3098		9.344 6779		0.655 3221	9.989 6319		**.530**	
		342		359			17		
471	9.334 3440		9.344 7138		0.655 2862	9.989 6302		529	
472	9.334 3783	343	9.344 7498	360	0.655 2502	9.989 6285	17	528	
473	9.334 4126	343	9.344 7857	359	0.655 2143	9.989 6268	17	527	
		342		360			16		
474	9.334 4468		9.344 8217		0.655 1783	9.989 6252		526	
475	9.334 4811	343	9.344 8576	359	0.655 1424	9.989 6235	17	525	
476	9.334 5154	343	9.344 8936	360	0.655 1064	9.989 6218	17	524	
		342		359			17		
477	9.334 5496		9.344 9295		0.655 0705	9.989 6201		523	
478	9.334 5839	343	9.344 9654	359	0.655 0346	9.989 6184	17	522	
479	9.334 6181	342	9.345 0014	360	0.654 9986	9.989 6168	16	521	
		343		359			17		
.480	9.334 6524		9.345 0373		0.654 9627	9.989 6151		**.520**	
		342		359			17		
481	9.334 6866		9.345 0732		0.654 9268	9.989 6134		519	
482	9.334 7209	343	9.345 1091	359	0.654 8909	9.989 6117	17	518	
483	9.334 7551	342	9.345 1450	359	0.654 8550	9.989 6101	16	517	
		342		360			17		
484	9.334 7893		9.345 1810		0.654 8190	9.989 6084		516	
485	9.334 8236	343	9.345 2169	359	0.654 7831	9.989 6067	17	515	
486	9.334 8578	342	9.345 2528	359	0.654 7472	9.989 6050	17	514	
		342		359			17		
487	9.334 8920		9.345 2887		0.654 7113	9.989 6033		513	
488	9.334 9263	343	9.345 3246	359	0.654 6754	9.989 6017	16	512	
489	9.334 9605	342	9.345 3605	359	0.654 6395	9.989 6000	17	511	
		342		359			17		
.490	9.334 9947		9.345 3964		0.654 6036	9.989 5983		**.510**	
		342		359			17		
491	9.335 0289		9.345 4323		0.654 5677	9.989 5966		509	
492	9.335 0631	342	9.345 4682	359	0.654 5318	9.989 5950	16	508	
493	9.335 0973	342	9.345 5041	359	0.654 4959	9.989 5933	17	507	
		343		359			17		
494	9.335 1316		9.345 5400		0.654 4600	9.989 5916		506	
495	9.335 1658	342	9.345 5758	358	0.654 4242	9.989 5899	17	505	
496	9.335 2000	342	9.345 6117	359	0.654 3883	9.989 5882	17	504	
		342		359			16		
497	9.335 2342		9.345 6476		0.654 3524	9.989 5866		503	
498	9.335 2684	342	9.345 6835	359	0.654 3165	9.989 5849	17	502	
499	9.335 3026	342	9.345 7194	359	0.654 2806	9.989 5832	17	501	
		342		358			17		
.500	9.335 3368		9.345 7552		0.654 2448	9.989 5815		**.500**	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	360	359
1	36.0	35.9
2	72.0	71.8
3	108.0	107.7
4	144.0	143.6
5	180.0	179.5
6	216.0	215.4
7	252.0	251.3
8	288.0	287.2
9	324.0	323.1

	358	344
1	35.8	34.4
2	71.6	68.8
3	107.4	103.2
4	143.2	137.6
5	179.0	172.0
6	214.8	206.4
7	250.6	240.8
8	286.4	275.2
9	322.2	309.6

	343	342
1	34.3	34.2
2	68.6	68.4
3	102.9	102.6
4	137.2	136.8
5	171.5	171.0
6	205.8	205.2
7	240.1	239.4
8	274.4	273.6
9	308.7	307.8

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

$77^\circ.550 - 77^\circ.500$

$12^\circ.500 - 12^\circ.550$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.335 3368		9.345 7552		0.654 2448	9.989 5815		.500	
		341		359			17		
501	9.335 3709		9.345 7911		0.654 2089	9.989 5798		499	
502	9.335 4051	342	9.345 8270	359	0.654 1730	9.989 5782	16	498	
503	9.335 4393	342	9.345 8628	358	0.654 1372	9.989 5765	17	497	
		342		359			17		
504	9.335 4735		9.345 8987		0.654 1013	9.989 5748		496	
505	9.335 5077	342	9.345 9346	359	0.654 0654	9.989 5731	17	495	
506	9.335 5418	341	9.345 9704	358	0.654 0296	9.989 5714	17	494	
		342		359			17		
507	9.335 5760		9.346 0063		0.653 9937	9.989 5697		493	
508	9.335 6102	342	9.346 0421	358	0.653 9579	9.989 5681	16	492	
509	9.335 6444	342	9.346 0780	359	0.653 9220	9.989 5664	17	491	
		341		358			17		
.510	9.335 6785		9.346 1138		0.653 8862	9.989 5647		.490	
		342		359			17		
511	9.335 7127		9.346 1497		0.653 8503	9.989 5630		489	
512	9.335 7468	341	9.346 1855	358	0.653 8145	9.989 5613	17	488	
513	9.335 7810	342	9.346 2213	358	0.653 7787	9.989 5597	16	487	
		341		359			17		
514	9.335 8151		9.346 2572		0.653 7428	9.989 5580		486	
515	9.335 8493	342	9.346 2930	358	0.653 7070	9.989 5563	17	485	
516	9.335 8834	341	9.346 3288	358	0.653 6712	9.989 5546	17	484	
		342		359			17		
517	9.335 9176		9.346 3647		0.653 6353	9.989 5529		483	
518	9.335 9517	341	9.346 4005	358	0.653 5995	9.989 5512	17	482	
519	9.335 9859	342	9.346 4363	358	0.653 5637	9.989 5496	16	481	
		341		358			17		
.520	9.336 0200		9.346 4721		0.653 5279	9.989 5479		.480	
		341		358			17		
521	9.336 0541		9.346 5079		0.653 4921	9.989 5462		479	
522	9.336 0883	342	9.346 5438	359	0.653 4562	9.989 5445	17	478	
523	9.336 1224	341	9.346 5796	358	0.653 4204	9.989 5428	17	477	
		341		358			17		
524	9.336 1565		9.346 6154		0.653 3846	9.989 5411		476	
525	9.336 1906	341	9.346 6512	358	0.653 3488	9.989 5395	16	475	
526	9.336 2248	342	9.346 6870	358	0.653 3130	9.989 5378	17	474	
		341		358			17		
527	9.336 2589		9.346 7228		0.653 2772	9.989 5361		473	
528	9.336 2930	341	9.346 7586	358	0.653 2414	9.989 5344	17	472	
529	9.336 3271	341	9.346 7944	358	0.653 2056	9.989 5327	17	471	
		341		358			17		
.530	9.336 3612		9.346 8302		0.653 1698	9.989 5310		.470	
		341		358			16		
531	9.336 3953		9.346 8660		0.653 1340	9.989 5294		469	
532	9.336 4294	341	9.346 9017	357	0.653 0983	9.989 5277	17	468	
533	9.336 4635	341	9.346 9375	358	0.653 0625	9.989 5260	17	467	
		341		358			17		
534	9.336 4976		9.346 9733		0.653 0267	9.989 5243		466	
535	9.336 5317	341	9.347 0091	358	0.652 9909	9.989 5226	17	465	
536	9.336 5658	341	9.347 0449	358	0.652 9551	9.989 5209	17	464	
		341		357			17		
537	9.336 5999		9.347 0806		0.652 9194	9.989 5192		463	
538	9.336 6340	341	9.347 1164	358	0.652 8836	9.989 5176	16	462	
539	9.336 6680	340	9.347 1522	358	0.652 8478	9.989 5159	17	461	
		341		357			17		
.540	9.336 7021		9.347 1879		0.652 8121	9.989 5142		.460	
		341		358			17		
541	9.336 7362		9.347 2237		0.652 7763	9.989 5125		459	
542	9.336 7703	341	9.347 2595	358	0.652 7405	9.989 5108	17	458	
543	9.336 8043	340	9.347 2952	357	0.652 7048	9.989 5091	17	457	
		341		358			17		
544	9.336 8384		9.347 3310		0.652 6690	9.989 5074		456	
545	9.336 8725	341	9.347 3667	357	0.652 6333	9.989 5058	16	455	
546	9.336 9065	340	9.347 4025	358	0.652 5975	9.989 5041	17	454	
		341		357			17		
547	9.336 9406		9.347 4382		0.652 5618	9.989 5024		453	
548	9.336 9747	341	9.347 4740	358	0.652 5260	9.989 5007	17	452	
549	9.337 0087	340	9.347 5097	357	0.652 4903	9.989 4990	17	451	
		341		357			17		
.550	9.337 0428		9.347 5454		0.652 4546	9.989 4973		.450	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	359	358
1	35.9	35.8
2	71.8	71.6
3	107.7	107.4
4	143.6	143.2
5	179.5	179.0
6	215.4	214.8
7	251.3	250.6
8	287.2	286.4
9	323.1	322.2

	357	342
1	35.7	34.2
2	71.4	68.4
3	107.1	102.6
4	142.8	136.8
5	178.5	171.0
6	214.2	205.2
7	249.9	239.4
8	285.6	273.6
9	321.3	307.8

	341	340
1	34.1	34.0
2	68.2	68.0
3	102.3	102.0
4	136.4	136.0
5	170.5	170.0
6	204.6	204.0
7	238.7	238.0
8	272.8	272.0
9	306.9	306.0

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

$77^\circ.500 - 77^\circ.450$

12°.550 — 12°.600

12°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.337 0428		9.347 5454		0.652 4546	9.989 4973		.450	
		340		358			17		
551	9.337 0768		9.347 5812		0.652 4188	9.989 4956		449	
552	9.337 1109	341	9.347 6169	357	0.652 3831	9.989 4939	17	448	
553	9.337 1449	340	9.347 6526	357	0.652 3474	9.989 4923	16	447	
		340		358			17		
554	9.337 1789		9.347 6884		0.652 3116	9.989 4906		446	
555	9.337 2130	341	9.347 7241	357	0.652 2759	9.989 4889	17	445	
556	9.337 2470	340	9.347 7598	357	0.652 2402	9.989 4872	17	444	
		340		357			17		
557	9.337 2810		9.347 7955		0.652 2045	9.989 4855		443	
558	9.337 3151	341	9.347 8313	358	0.652 1687	9.989 4838	17	442	
559	9.337 3491	340	9.347 8670	357	0.652 1330	9.989 4821	17	441	
		340		357			17		
.560	9.337 3831		9.347 9027		0.652 0973	9.989 4804		.440	
		340		357			17		
561	9.337 4171		9.347 9384		0.652 0616	9.989 4787		439	
562	9.337 4512	341	9.347 9741	357	0.652 0259	9.989 4771	16	438	
563	9.337 4852	340	9.348 0098	357	0.651 9902	9.989 4754	17	437	
		340		357			17		
564	9.337 5192		9.348 0455		0.651 9545	9.989 4737		436	
565	9.337 5532	340	9.348 0812	357	0.651 9188	9.989 4720	17	435	
566	9.337 5872	340	9.348 1169	357	0.651 8831	9.989 4703	17	434	
		340		357			17		
567	9.337 6212		9.348 1526		0.651 8474	9.989 4686		433	
568	9.337 6552	340	9.348 1883	357	0.651 8117	9.989 4669	17	432	
569	9.337 6892	340	9.348 2240	357	0.651 7760	9.989 4652	17	431	
		340		357			17		
.570	9.337 7232		9.348 2597		0.651 7403	9.989 4635		.430	
		340		356			16		
571	9.337 7572		9.348 2953		0.651 7047	9.989 4619		429	
572	9.337 7912	340	9.348 3310	357	0.651 6690	9.989 4602	17	428	
573	9.337 8252	340	9.348 3667	357	0.651 6333	9.989 4585	17	427	
		340		357			17		
574	9.337 8592		9.348 4024		0.651 5976	9.989 4568		426	
575	9.337 8931	339	9.348 4380	356	0.651 5620	9.989 4551	17	425	
576	9.337 9271	340	9.348 4737	357	0.651 5263	9.989 4534	17	424	
		340		357			17		
577	9.337 9611		9.348 5094		0.651 4906	9.989 4517		423	
578	9.337 9951	340	9.348 5450	356	0.651 4550	9.989 4500	17	422	
579	9.338 0290	339	9.348 5807	357	0.651 4193	9.989 4483	17	421	
		340		357			17		
.580	9.338 0630		9.348 6164		0.651 3836	9.989 4466		.420	
		340		356			17		
581	9.338 0970		9.348 6520		0.651 3480	9.989 4449		419	
582	9.338 1309	339	9.348 6877	357	0.651 3123	9.989 4433	16	418	
583	9.338 1649	340	9.348 7233	356	0.651 2767	9.989 4416	17	417	
		339		357			17		
584	9.338 1988		9.348 7590		0.651 2410	9.989 4399		416	
585	9.338 2328	340	9.348 7946	356	0.651 2054	9.989 4382	17	415	
586	9.338 2667	339	9.348 8303	357	0.651 1697	9.989 4365	17	414	
		340		356			17		
587	9.338 3007		9.348 8659		0.651 1341	9.989 4348		413	
588	9.338 3346	339	9.348 9015	356	0.651 0985	9.989 4331	17	412	
589	9.338 3686	340	9.348 9372	357	0.651 0628	9.989 4314	17	411	
		339		356			17		
.590	9.338 4025		9.348 9728		0.651 0272	9.989 4297		.410	
		340		356			17		
591	9.338 4365		9.349 0084		0.650 9916	9.989 4280		409	
592	9.338 4704	339	9.349 0441	357	0.650 9559	9.989 4263	17	408	
593	9.338 5043	339	9.349 0797	356	0.650 9203	9.989 4246	17	407	
		339		356			17		
594	9.338 5382		9.349 1153		0.650 8847	9.989 4229		406	
595	9.338 5722	340	9.349 1509	356	0.650 8491	9.989 4212	17	405	
596	9.338 6061	339	9.349 1865	356	0.650 8135	9.989 4196	16	404	
		339		357			17		
597	9.338 6400		9.349 2222		0.650 7778	9.989 4179		403	
598	9.338 6739	339	9.349 2578	356	0.650 7422	9.989 4162	17	402	
599	9.338 7079	340	9.349 2934	356	0.650 7066	9.989 4145	17	401	
		339		356			17		
.600	9.338 7418		9.349 3290		0.650 6710	9.989 4128		.400	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	358	357
1	35.8	35.7
2	71.6	71.4
3	107.4	107.1
4	143.2	142.8
5	179.0	178.5
6	214.8	214.2
7	250.6	249.9
8	286.4	285.6
9	322.2	321.3

	356	341
1	35.6	34.1
2	71.2	68.2
3	106.8	102.3
4	142.4	136.4
5	178.0	170.5
6	213.6	204.6
7	249.2	238.7
8	284.8	272.8
9	320.4	306.9

	340	339
1	34.0	33.9
2	68.0	67.8
3	102.0	101.7
4	136.0	135.6
5	170.0	169.5
6	204.0	203.4
7	238.0	237.3
8	272.0	271.2
9	306.0	305.1

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

77°.450 — 77°.400

12°.600 — 12°.650

12°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.338 7418		9.349 3290		0.650 6710	9.989 4128		.400	
		339		356			17		
601	9.338 7757		9.349 3646		0.650 6354	9.989 4111		399	
602	9.338 8096	339	9.349 4002	356	0.650 5998	9.989 4094	17	398	
603	9.338 8435	339	9.349 4358	356	0.650 5642	9.989 4077	17	397	
		339		356			17		
604	9.338 8774		9.349 4714		0.650 5286	9.989 4060		396	
605	9.338 9113	339	9.349 5070	356	0.650 4930	9.989 4043	17	395	
606	9.338 9452	339	9.349 5426	356	0.650 4574	9.989 4026	17	394	
		339		356			17		
607	9.338 9791		9.349 5782		0.650 4218	9.989 4009		393	
608	9.339 0130	339	9.349 6137	355	0.650 3863	9.989 3992	17	392	
609	9.339 0468	338	9.349 6493	356	0.650 3507	9.989 3975	17	391	
		339		356			17		
.610	9.339 0807		9.349 6849		0.650 3151	9.989 3958		.390	
		339		356			17		
611	9.339 1146		9.349 7205		0.650 2795	9.989 3941		389	
612	9.339 1485	339	9.349 7561	356	0.650 2439	9.989 3924	17	388	
613	9.339 1824	339	9.349 7916	355	0.650 2084	9.989 3907	17	387	
		338		356			17		
614	9.339 2162		9.349 8272		0.650 1728	9.989 3890		386	
615	9.339 2501	339	9.349 8628	356	0.650 1372	9.989 3873	17	385	
616	9.339 2840	339	9.349 8983	355	0.650 1017	9.989 3857	16	384	
		338		356			17		
617	9.339 3178		9.349 9339		0.650 0661	9.989 3840		383	
618	9.339 3517	339	9.349 9694	355	0.650 0306	9.989 3823	17	382	
619	9.339 3856	339	9.350 0050	356	0.649 9950	9.989 3806	17	381	
		338		356			17		
.620	9.339 4194		9.350 0406		0.649 9594	9.989 3789		.380	
		339		355			17		
621	9.339 4533		9.350 0761		0.649 9239	9.989 3772		379	
622	9.339 4871	338	9.350 1116	355	0.649 8884	9.989 3755	17	378	
623	9.339 5210	339	9.350 1472	356	0.649 8528	9.989 3738	17	377	
		338		355			17		
624	9.339 5548		9.350 1827		0.649 8173	9.989 3721		376	
625	9.339 5887	339	9.350 2183	356	0.649 7817	9.989 3704	17	375	
626	9.339 6225	338	9.350 2538	355	0.649 7462	9.989 3687	17	374	
		338		355			17		
627	9.339 6563		9.350 2893		0.649 7107	9.989 3670		373	
628	9.339 6902	339	9.350 3249	356	0.649 6751	9.989 3653	17	372	
629	9.339 7240	338	9.350 3604	355	0.649 6396	9.989 3636	17	371	
		338		355			17		
.630	9.339 7578		9.350 3959		0.649 6041	9.989 3619		.370	
		339		356			17		
631	9.339 7917		9.350 4315		0.649 5685	9.989 3602		369	
632	9.339 8255	338	9.350 4670	355	0.649 5330	9.989 3585	17	368	
633	9.339 8593	338	9.350 5025	355	0.649 4975	9.989 3568	17	367	
		338		355			17		
634	9.339 8931		9.350 5380		0.649 4620	9.989 3551		366	
635	9.339 9269	338	9.350 5735	355	0.649 4265	9.989 3534	17	365	
636	9.339 9607	338	9.350 6090	355	0.649 3910	9.989 3517	17	364	
		338		356			17		
637	9.339 9945		9.350 6446		0.649 3554	9.989 3500		363	
638	9.340 0284	339	9.350 6801	355	0.649 3199	9.989 3483	17	362	
639	9.340 0622	338	9.350 7156	355	0.649 2844	9.989 3466	17	361	
		338		355			17		
.640	9.340 0960		9.350 7511		0.649 2489	9.989 3449		.360	
		338		355			17		
641	9.340 1298		9.350 7866		0.649 2134	9.989 3432		359	
642	9.340 1636	338	9.350 8221	355	0.649 1779	9.989 3415	17	358	
643	9.340 1973	337	9.350 8576	355	0.649 1424	9.989 3398	17	357	
		338		354			17		
644	9.340 2311		9.350 8930		0.649 1070	9.989 3381		356	
645	9.340 2649	338	9.350 9285	355	0.649 0715	9.989 3364	17	355	
646	9.340 2987	338	9.350 9640	355	0.649 0360	9.989 3347	17	354	
		338		355			17		
647	9.340 3325		9.350 9995		0.649 0005	9.989 3330		353	
648	9.340 3663	338	9.351 0350	355	0.648 9650	9.989 3313	17	352	
649	9.340 4000	337	9.351 0705	355	0.648 9295	9.989 3296	17	351	
		338		354			17		
.650	9.340 4338		9.351 1059		0.648 8941	9.989 3279		.350	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

P.P.

	356	355
1	35.6	35.5
2	71.2	71.0
3	106.8	106.5
4	142.4	142.0
5	178.0	177.5
6	213.6	213.0
7	249.2	248.5
8	284.8	284.0
9	320.4	319.5

	354	339
1	35.4	33.9
2	70.8	67.8
3	106.2	101.7
4	141.6	135.6
5	177.0	169.5
6	212.4	203.4
7	247.8	237.3
8	283.2	271.2
9	318.6	305.1

	338	337
1	33.8	33.7
2	67.6	67.4
3	101.4	101.1
4	135.2	134.8
5	169.0	168.5
6	202.8	202.2
7	236.6	235.9
8	270.4	269.6
9	304.2	303.3

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

	16
1	1.6
2	3.2
3	4.8
4	6.4
5	8.0
6	9.6
7	11.2
8	12.8
9	14.4

77°.400 — 77°.350

$12^\circ.650 - 12^\circ.700$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.340 4338		9.351 1059		0.648 8941	9.989 3279		.350	
		338		355			17		
651	9.340 4676		9.351 1414		0.648 8586	9.989 3262		349	
652	9.340 5014	338	9.351 1769	355	0.648 8231	9.989 3245	17	348	
653	9.340 5351	337	9.351 2123	354	0.648 7877	9.989 3228	17	347	
		338		355			17		
654	9.340 5689		9.351 2478		0.648 7522	9.989 3211		346	
655	9.340 6026	337	9.351 2833	355	0.648 7167	9.989 3194	17	345	
656	9.340 6364	338	9.351 3187	354	0.648 6813	9.989 3177	17	344	
		338		355			17		
657	9.340 6702		9.351 3542		0.648 6458	9.989 3160		343	
658	9.340 7039	337	9.351 3896	354	0.648 6104	9.989 3143	17	342	
659	9.340 7377	338	9.351 4251	355	0.648 5749	9.989 3126	17	341	
		337		354			17		
.660	9.340 7714		9.351 4605		0.648 5395	9.989 3109		.340	
		337		355			17		
661	9.340 8051		9.351 4960		0.648 5040	9.989 3092		339	
662	9.340 8389	338	9.351 5314	354	0.648 4686	9.989 3075	17	338	
663	9.340 8726	337	9.351 5669	355	0.648 4331	9.989 3058	17	337	
		338		354			17		
664	9.340 9064		9.351 6023		0.648 3977	9.989 3041		336	
665	9.340 9401	337	9.351 6377	354	0.648 3623	9.989 3024	17	335	
666	9.340 9738	337	9.351 6732	355	0.648 3268	9.989 3007	17	334	
		337		354			18		
667	9.341 0075		9.351 7086		0.648 2914	9.989 2989		333	
668	9.341 0413	338	9.351 7440	354	0.648 2560	9.989 2972	17	332	
669	9.341 0750	337	9.351 7794	354	0.648 2206	9.989 2955	17	331	
		337		355			17		
.670	9.341 1087		9.351 8149		0.648 1851	9.989 2938		.330	
		337		354			17		
671	9.341 1424		9.351 8503		0.648 1497	9.989 2921		329	
672	9.341 1761	337	9.351 8857	354	0.648 1143	9.989 2904	17	328	
673	9.341 2098	337	9.351 9211	354	0.648 0789	9.989 2887	17	327	
		337		354			17		
674	9.341 2435		9.351 9565		0.648 0435	9.989 2870		326	
675	9.341 2773	338	9.351 9919	354	0.648 0081	9.989 2853	17	325	
676	9.341 3110	337	9.352 0273	354	0.647 9727	9.989 2836	17	324	
		337		354			17		
677	9.341 3447		9.352 0627		0.647 9373	9.989 2819		323	
678	9.341 3783	336	9.352 0981	354	0.647 9019	9.989 2802	17	322	
679	9.341 4120	337	9.352 1335	354	0.647 8665	9.989 2785	17	321	
		337		354			17		
.680	9.341 4457		9.352 1689		0.647 8311	9.989 2768		.320	
		337		354			17		
681	9.341 4794		9.352 2043		0.647 7957	9.989 2751		319	
682	9.341 5131	337	9.352 2397	354	0.647 7603	9.989 2734	17	318	
683	9.341 5468	337	9.352 2751	354	0.647 7249	9.989 2717	17	317	
		337		354			17		
684	9.341 5805		9.352 3105		0.647 6895	9.989 2700		316	
685	9.341 6141	336	9.352 3459	354	0.647 6541	9.989 2683	17	315	
686	9.341 6478	337	9.352 3813	354	0.647 6187	9.989 2666	17	314	
		337		353			18		
687	9.341 6815		9.352 4166		0.647 5834	9.989 2648		313	
688	9.341 7152	337	9.352 4520	354	0.647 5480	9.989 2631	17	312	
689	9.341 7488	336	9.352 4874	354	0.647 5126	9.989 2614	17	311	
		337		354			17		
.690	9.341 7825		9.352 5228		0.647 4772	9.989 2597		.310	
		337		353			17		
691	9.341 8162		9.352 5581		0.647 4419	9.989 2580		309	
692	9.341 8498	336	9.352 5935	354	0.647 4065	9.989 2563	17	308	
693	9.341 8835	337	9.352 6289	354	0.647 3711	9.989 2546	17	307	
		336		353			17		
694	9.341 9171		9.352 6642		0.647 3358	9.989 2529		306	
695	9.341 9508	337	9.352 6996	354	0.647 3004	9.989 2512	17	305	
696	9.341 9844	336	9.352 7349	353	0.647 2651	9.989 2495	17	304	
		337		354			17		
697	9.342 0181		9.352 7703		0.647 2297	9.989 2478		303	
698	9.342 0517	336	9.352 8056	353	0.647 1944	9.989 2461	17	302	
699	9.342 0853	336	9.352 8410	354	0.647 1590	9.989 2444	17	301	
		337		353			17		
.700	9.342 1190		9.352 8763		0.647 1237	9.989 2427		.300	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	355	354
1	35.5	35.4
2	71.0	70.8
3	106.5	106.2
4	142.0	141.6
5	177.5	177.0
6	213.0	212.4
7	248.5	247.8
8	284.0	283.2
9	319.5	318.6

	353	338
1	35.3	33.8
2	70.6	67.6
3	105.9	101.4
4	141.2	135.2
5	176.5	169.0
6	211.8	202.8
7	247.1	236.6
8	282.4	270.4
9	317.7	304.2

	337	336
1	33.7	33.6
2	67.4	67.2
3	101.1	100.8
4	134.8	134.4
5	168.5	168.0
6	202.2	201.6
7	235.9	235.2
8	269.6	268.8
9	303.3	302.4

	18
1	1.8
2	3.6
3	5.4
4	7.2
5	9.0
6	10.8
7	12.6
8	14.4
9	16.2

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

$77^\circ.350 - 77^\circ.300$

$12^\circ.700 - 12^\circ.750$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.342 1190		9.352 8763		0.647 1237	9.989 2427		.300	
		336		354			18		
701	9.342 1526		9.352 9117		0.647 0883	9.989 2409		299	
702	9.342 1862	336	9.352 9470	353	0.647 0530	9.989 2392	17	298	
703	9.342 2199	337	9.352 9823	353	0.647 0177	9.989 2375	17	297	
		336		354			17		
704	9.342 2535		9.353 0177		0.646 9823	9.989 2358		296	
705	9.342 2871	336	9.353 0530	353	0.646 9470	9.989 2341	17	295	
706	9.342 3207	336	9.353 0883	353	0.646 9117	9.989 2324	17	294	
		336		354			17		
707	9.342 3543		9.353 1237		0.646 8763	9.989 2307		293	
708	9.342 3880	337	9.353 1590	353	0.646 8410	9.989 2290	17	292	
709	9.342 4216	336	9.353 1943	353	0.646 8057	9.989 2273	17	291	
		336		353			17		
.710	9.342 4552		9.353 2296		0.646 7704	9.989 2256		.290	
		336		353			17		
711	9.342 4888		9.353 2649		0.646 7351	9.989 2239		289	
712	9.342 5224	336	9.353 3002	353	0.646 6998	9.989 2221	18	288	
713	9.342 5560	336	9.353 3356	354	0.646 6644	9.989 2204	17	287	
		336		353			17		
714	9.342 5896		9.353 3709		0.646 6291	9.989 2187		286	
715	9.342 6232	336	9.353 4062	353	0.646 5938	9.989 2170	17	285	
716	9.342 6568	336	9.353 4415	353	0.646 5585	9.989 2153	17	284	
		336		353			17		
717	9.342 6904		9.353 4768		0.646 5232	9.989 2136		283	
718	9.342 7240	336	9.353 5121	353	0.646 4879	9.989 2119	17	282	
719	9.342 7575	335	9.353 5474	353	0.646 4526	9.989 2102	17	281	
		336		353			17		
.720	9.342 7911		9.353 5827		0.646 4173	9.989 2085		.280	
		336		352			18		
721	9.342 8247		9.353 6179		0.646 3821	9.989 2067		279	
722	9.342 8583	336	9.353 6532	353	0.646 3468	9.989 2050	17	278	
723	9.342 8918	335	9.353 6885	353	0.646 3115	9.989 2033	17	277	
		336		353			17		
724	9.342 9254		9.353 7238		0.646 2762	9.989 2016		276	
725	9.342 9590	336	9.353 7591	353	0.646 2409	9.989 1999	17	275	
726	9.342 9925	335	9.353 7944	353	0.646 2056	9.989 1982	17	274	
		336		352			17		
727	9.343 0261		9.353 8296		0.646 1704	9.989 1965		273	
728	9.343 0597	336	9.353 8649	353	0.646 1351	9.989 1948	17	272	
729	9.343 0932	335	9.353 9002	353	0.646 0998	9.989 1931	17	271	
		336		352			18		
.730	9.343 1268		9.353 9354		0.646 0646	9.989 1913		.270	
		335		353			17		
731	9.343 1603		9.353 9707		0.646 0293	9.989 1896		269	
732	9.343 1939	336	9.354 0060	353	0.645 9940	9.989 1879	17	268	
733	9.343 2274	335	9.354 0412	352	0.645 9588	9.989 1862	17	267	
		336		353			17		
734	9.343 2610		9.354 0765		0.645 9235	9.989 1845		266	
735	9.343 2945	335	9.354 1117	352	0.645 8883	9.989 1828	17	265	
736	9.343 3280	335	9.354 1470	353	0.645 8530	9.989 1811	17	264	
		336		352			17		
737	9.343 3616		9.354 1822		0.645 8178	9.989 1794		263	
738	9.343 3951	335	9.354 2175	353	0.645 7825	9.989 1776	18	262	
739	9.343 4286	335	9.354 2527	352	0.645 7473	9.989 1759	17	261	
		336		353			17		
.740	9.343 4622		9.354 2880		0.645 7120	9.989 1742		.260	
		335		352			17		
741	9.343 4957		9.354 3232		0.645 6768	9.989 1725		259	
742	9.343 5292	335	9.354 3584	352	0.645 6416	9.989 1708	17	258	
743	9.343 5627	335	9.354 3937	353	0.645 6063	9.989 1691	17	257	
		335		352			17		
744	9.343 5962		9.354 4289		0.645 5711	9.989 1674		256	
745	9.343 6298	336	9.354 4641	352	0.645 5359	9.989 1656	18	255	
746	9.343 6633	335	9.354 4993	352	0.645 5007	9.989 1639	17	254	
		335		353			17		
747	9.343 6968		9.354 5346		0.645 4654	9.989 1622		253	
748	9.343 7303	335	9.354 5698	352	0.645 4302	9.989 1605	17	252	
749	9.343 7638	335	9.354 6050	352	0.645 3950	9.989 1588	17	251	
		335		352			17		
.750	9.343 7973		9.354 6402		0.645 3598	9.989 1571		.250	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	354	353
1	35.4	35.3
2	70.8	70.6
3	106.2	105.9
4	141.6	141.2
5	177.0	176.5
6	212.4	211.8
7	247.8	247.1
8	283.2	282.4
9	318.6	317.7

	352	337
1	35.2	33.7
2	70.4	67.4
3	105.6	101.1
4	140.8	134.8
5	176.0	168.5
6	211.2	202.2
7	246.4	235.9
8	281.6	269.6
9	316.8	303.3

	336	335
1	33.6	33.5
2	67.2	67.0
3	100.8	100.5
4	134.4	134.0
5	168.0	167.5
6	201.6	201.0
7	235.2	234.5
8	268.8	268.0
9	302.4	301.5

	18
1	1.8
2	3.6
3	5.4
4	7.2
5	9.0
6	10.8
7	12.6
8	14.4
9	16.2

	17
1	1.7
2	3.4
3	5.1
4	6.8
5	8.5
6	10.2
7	11.9
8	13.6
9	15.3

$77^\circ.300 - 77^\circ.250$

$12^\circ.750 - 12^\circ.800$

12°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.343 7973		9.354 6402		0.645 3598	9.989 1571		**.250**	
		335		352			17		
751	9.343 8308		9.354 6754		0.645 3246	9.989 1554		249	
		335		352			18		
752	9.343 8643		9.354 7106		0.645 2894	9.989 1536		248	
		335		352			17		
753	9.343 8978		9.354 7458		0.645 2542	9.989 1519		247	
		335		352			17		
754	9.343 9313		9.354 7810		0.645 2190	9.989 1502		246	
		334		353			17		
755	9.343 9647		9.354 8163		0.645 1837	9.989 1485		245	
		335		352			17		
756	9.343 9982		9.354 8515		0.645 1485	9.989 1468		244	
		335		351			17		
757	9.344 0317		9.354 8866		0.645 1134	9.989 1451		243	
		335		352			18		
758	9.344 0652		9.354 9218		0.645 0782	9.989 1433		242	
		335		352			17		
759	9.344 0987		9.354 9570		0.645 0430	9.989 1416		241	
		334		352			17		
.760	9.344 1321		9.354 9922		0.645 0078	9.989 1399		**.240**	
		335		352			17		
761	9.344 1656		9.355 0274		0.644 9726	9.989 1382		239	
		335		352			17		
762	9.344 1991		9.355 0626		0.644 9374	9.989 1365		238	
		334		352			17		
763	9.344 2325		9.355 0978		0.644 9022	9.989 1348		237	
		335		352			18		
764	9.344 2660		9.355 1330		0.644 8670	9.989 1330		236	
		335		351			17		
765	9.344 2995		9.355 1681		0.644 8319	9.989 1313		235	
		334		352			17		
766	9.344 3329		9.355 2033		0.644 7967	9.989 1296		234	
		335		352			17		
767	9.344 3664		9.355 2385		0.644 7615	9.989 1279		233	
		334		351			17		
768	9.344 3998		9.355 2736		0.644 7264	9.989 1262		232	
		335		352			17		
769	9.344 4333		9.355 3088		0.644 6912	9.989 1245		231	
		334		352			18		
.770	9.344 4667		9.355 3440		0.644 6560	9.989 1227		**.230**	
		334		351			17		
771	9.344 5001		9.355 3791		0.644 6209	9.989 1210		229	
		335		352			17		
772	9.344 5336		9.355 4143		0.644 5857	9.989 1193		228	
		334		351			17		
773	9.344 5670		9.355 4494		0.644 5506	9.989 1176		227	
		335		352			17		
774	9.344 6005		9.355 4846		0.644 5154	9.989 1159		226	
		334		351			18		
775	9.344 6339		9.355 5197		0.644 4803	9.989 1141		225	
		334		352			17		
776	9.344 6673		9.355 5549		0.644 4451	9.989 1124		224	
		334		351			17		
777	9.344 7007		9.355 5900		0.644 4100	9.989 1107		223	
		335		352			17		
778	9.344 7342		9.355 6252		0.644 3748	9.989 1090		222	
		334		351			17		
779	9.344 7676		9.355 6603		0.644 3397	9.989 1073		221	
		334		352			17		
.780	9.344 8010		9.355 6955		0.644 3045	9.989 1056		**.220**	
		334		351			18		
781	9.344 8344		9.355 7306		0.644 2694	9.989 1038		219	
		334		351			17		
782	9.344 8678		9.355 7657		0.644 2343	9.989 1021		218	
		334		352			17		
783	9.344 9012		9.355 8009		0.644 1991	9.989 1004		217	
		335		351			17		
784	9.344 9347		9.355 8360		0.644 1640	9.989 0987		216	
		334		351			17		
785	9.344 9681		9.355 8711		0.644 1289	9.989 0970		215	
		334		351			18		
786	9.345 0015		9.355 9062		0.644 0938	9.989 0952		214	
		334		352			17		
787	9.345 0349		9.355 9414		0.644 0586	9.989 0935		213	
		334		351			17		
788	9.345 0683		9.355 9765		0.644 0235	9.989 0918		212	
		334		351			17		
789	9.345 1017		9.356 0116		0.643 9884	9.989 0901		211	
		333		351			17		
.790	9.345 1350		9.356 0467		0.643 9533	9.989 0884		**.210**	
		334		351			18		
791	9.345 1684		9.356 0818		0.643 9182	9.989 0866		209	
		334		351			17		
792	9.345 2018		9.356 1169		0.643 8831	9.989 0849		208	
		334		351			17		
793	9.345 2352		9.356 1520		0.643 8480	9.989 0832		207	
		334		351			17		
794	9.345 2686		9.356 1871		0.643 8129	9.989 0815		206	
		334		351			18		
795	9.345 3020		9.356 2222		0.643 7778	9.989 0797		205	
		333		351			17		
796	9.345 3353		9.356 2573		0.643 7427	9.989 0780		204	
		334		351			17		
797	9.345 3687		9.356 2924		0.643 7076	9.989 0763		203	
		334		351			17		
798	9.345 4021		9.356 3275		0.643 6725	9.989 0746		202	
		333		351			17		
799	9.345 4354		9.356 3626		0.643 6374	9.989 0729		201	
		334		351			18		
.800	9.345 4688		9.356 3977		0.643 6023	9.989 0711		**.200**	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	353	352
1	35.3	35.2
2	70.6	70.4
3	105.9	105.6
4	141.2	140.8
5	176.5	176.0
6	211.8	211.2
7	247.1	246.4
8	282.4	281.6
9	317.7	316.8

	351
1	35.1
2	70.2
3	105.3
4	140.4
5	175.5
6	210.6
7	245.7
8	280.8
9	315.9

	335	334
1	33.5	33.4
2	67.0	66.8
3	100.5	100.2
4	134.0	133.6
5	167.5	167.0
6	201.0	200.4
7	234.5	233.8
8	268.0	267.2
9	301.5	300.6

	333
1	33.3
2	66.6
3	99.9
4	133.2
5	166.5
6	199.8
7	233.1
8	266.4
9	299.7

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

$77^\circ.250 - 77^\circ.200$

12°.800 — 12°.850

12°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.345 4688		9.356 3977		0.643 6023	9.989 0711		.200	
		334		351			17		
801	9.345 5022		9.356 4328		0.643 5672	9.989 0694		199	
802	9.345 5355	333	9.356 4678	350	0.643 5322	9.989 0677	17	198	
803	9.345 5689	334	9.356 5029	351	0.643 4971	9.989 0660	17	197	
		333		351			18		
804	9.345 6022		9.356 5380		0.643 4620	9.989 0642		196	
805	9.345 6356	334	9.356 5731	351	0.643 4269	9.989 0625	17	195	
806	9.345 6689	333	9.356 6081	350	0.643 3919	9.989 0608	17	194	
		334		351			17		
807	9.345 7023		9.356 6432		0.643 3568	9.989 0591		193	
808	9.345 7356	333	9.356 6783	351	0.643 3217	9.989 0574	17	192	
809	9.345 7690	334	9.356 7133	350	0.643 2867	9.989 0556	18	191	
		333		351			17		
.810	9.345 8023		9.356 7484		0.643 2516	9.989 0539		.190	
		333		351			17		
811	9.345 8356		9.356 7835		0.643 2165	9.989 0522		189	
812	9.345 8690	334	9.356 8185	350	0.643 1815	9.989 0505	17	188	
813	9.345 9023	333	9.356 8536	351	0.643 1464	9.989 0487	18	187	
		333		350			17		
814	9.345 9356		9.356 8886		0.643 1114	9.989 0470		186	
815	9.345 9690	334	9.356 9237	351	0.643 0763	9.989 0453	17	185	
816	9.346 0023	333	9.356 9587	350	0.643 0413	9.989 0436	17	184	
		333		350			18		
817	9.346 0356		9.356 9937		0.643 0063	9.989 0418		183	
818	9.346 0689	333	9.357 0288	351	0.642 9712	9.989 0401	17	182	
819	9.346 1022	333	9.357 0638	350	0.642 9362	9.989 0384	17	181	
		333		351			17		
.820	9.346 1355		9.357 0989		0.642 9011	9.989 0367		.180	
		333		350			18		
821	9.346 1688		9.357 1339		0.642 8661	9.989 0349		179	
822	9.346 2021	333	9.357 1689	350	0.642 8311	9.989 0332	17	178	
823	9.346 2354	333	9.357 2040	351	0.642 7960	9.989 0315	17	177	
		333		350			17		
824	9.346 2687		9.357 2390		0.642 7610	9.989 0298		176	
825	9.346 3020	333	9.357 2740	350	0.642 7260	9.989 0280	18	175	
826	9.346 3353	333	9.357 3090	350	0.642 6910	9.989 0263	17	174	
		333		350			17		
827	9.346 3686		9.357 3440		0.642 6560	9.989 0246		173	
828	9.346 4019	333	9.357 3791	351	0.642 6209	9.989 0229	17	172	
829	9.346 4352	333	9.357 4141	350	0.642 5859	9.989 0211	18	171	
		333		350			17		
.830	9.346 4685		9.357 4491		0.642 5509	9.989 0194		.170	
		333		350			17		
831	9.346 5018		9.357 4841		0.642 5159	9.989 0177		169	
832	9.346 5350	332	9.357 5191	350	0.642 4809	9.989 0160	17	168	
833	9.346 5683	333	9.357 5541	350	0.642 4459	9.989 0142	18	167	
		333		350			17		
834	9.346 6016		9.357 5891		0.642 4109	9.989 0125		166	
835	9.346 6349	333	9.357 6241	350	0.642 3759	9.989 0108	17	165	
836	9.346 6681	332	9.357 6591	350	0.642 3409	9.989 0091	17	164	
		333		350			18		
837	9.346 7014		9.357 6941		0.642 3059	9.989 0073		163	
838	9.346 7347	333	9.357 7291	350	0.642 2709	9.989 0056	17	162	
839	9.346 7679	332	9.357 7640	349	0.642 2360	9.989 0039	17	161	
		333		350			18		
.840	9.346 8012		9.357 7990		0.642 2010	9.989 0021		.160	
		332		350			17		
841	9.346 8344		9.357 8340		0.642 1660	9.989 0004		159	
842	9.346 8677	333	9.357 8690	350	0.642 1310	9.988 9987	17	158	
843	9.346 9009	332	9.357 9040	350	0.642 0960	9.988 9970	17	157	
		333		349			18		
844	9.346 9342		9.357 9389		0.642 0611	9.988 9952		156	
845	9.346 9674	332	9.357 9739	350	0.642 0261	9.988 9935	17	155	
846	9.347 0007	333	9.358 0089	350	0.641 9911	9.988 9918	17	154	
		332		350			18		
847	9.347 0339		9.358 0439		0.641 9561	9.988 9900		153	
848	9.347 0671	332	9.358 0788	349	0.641 9212	9.988 9883	17	152	
849	9.347 1004	333	9.358 1138	350	0.641 8862	9.988 9866	17	151	
		332		349			17		
.850	9.347 1336		9.358 1487		0.641 8513	9.988 9849		.150	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	351	350
1	35.1	35.0
2	70.2	70.0
3	105.3	105.0
4	140.4	140.0
5	175.5	175.0
6	210.6	210.0
7	245.7	245.0
8	280.8	280.0
9	315.9	315.0

	349	334
1	34.9	33.4
2	69.8	66.8
3	104.7	100.2
4	139.6	133.6
5	174.5	167.0
6	209.4	200.4
7	244.3	233.8
8	279.2	267.2
9	314.1	300.6

	333	332
1	33.3	33.2
2	66.6	66.4
3	99.9	99.6
4	133.2	132.8
5	166.5	166.0
6	199.8	199.2
7	233.1	232.4
8	266.4	265.6
9	299.7	298.8

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

77°.200 — 77°.150

12°.850 — 12°.900

12°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.347 1336		9.358 1487		0.641 8513	9.988 9849		.150	
		332		350			18		
851	9.347 1668		9.358 1837		0.641 8163	9.988 9831		149	
852	9.347 2000	332	9.358 2186	349	0.641 7814	9.988 9814	17	148	
853	9.347 2333	333	9.358 2536	350	0.641 7464	9.988 9797	17	147	
		332		349			18		
854	9.347 2665		9.358 2885		0.641 7115	9.988 9779		146	
855	9.347 2997	332	9.358 3235	350	0.641 6765	9.988 9762	17	145	
856	9.347 3329	332	9.358 3584	349	0.641 6416	9.988 9745	17	144	
		332		350			17		
857	9.347 3661		9.358 3934		0.641 6066	9.988 9728		143	
858	9.347 3993	332	9.358 4283	349	0.641 5717	9.988 9710	18	142	
859	9.347 4325	332	9.358 4633	350	0.641 5367	9.988 9693	17	141	
		332		349			17		
.860	9.347 4657		9.358 4982		0.641 5018	9.988 9676		.140	
		332		349			18		
861	9.347 4989		9.358 5331		0.641 4669	9.988 9658		139	
862	9.347 5321	332	9.358 5680	349	0.641 4320	9.988 9641	17	138	
863	9.347 5653	332	9.358 6030	350	0.641 3970	9.988 9624	17	137	
		332		349			18		
864	9.347 5985		9.358 6379		0.641 3621	9.988 9606		136	
865	9.347 6317	332	9.358 6728	349	0.641 3272	9.988 9589	17	135	
866	9.347 6649	332	9.358 7077	349	0.641 2923	9.988 9572	17	134	
		332		350			18		
867	9.347 6981		9.358 7427		0.641 2573	9.988 9554		133	
868	9.347 7313	332	9.358 7776	349	0.641 2224	9.988 9537	17	132	
869	9.347 7645	332	9.358 8125	349	0.641 1875	9.988 9520	17	131	
		331		349			18		
.870	9.347 7976		9.358 8474		0.641 1526	9.988 9502		.130	
		332		349			17		
871	9.347 8308		9.358 8823		0.641 1177	9.988 9485		129	
872	9.347 8640	332	9.358 9172	349	0.641 0828	9.988 9468	17	128	
873	9.347 8971	331	9.358 9521	349	0.641 0479	9.988 9451	17	127	
		332		349			18		
874	9.347 9303		9.358 9870		0.641 0130	9.988 9433		126	
875	9.347 9635	332	9.359 0219	349	0.640 9781	9.988 9416	17	125	
876	9.347 9966	331	9.359 0568	349	0.640 9432	9.988 9399	17	124	
		332		349			18		
877	9.348 0298		9.359 0917		0.640 9083	9.988 9381		123	
878	9.348 0630	332	9.359 1266	349	0.640 8734	9.988 9364	17	122	
879	9.348 0961	331	9.359 1614	348	0.640 8386	9.988 9347	17	121	
		332		349			18		
.880	9.348 1293		9.359 1963		0.640 8037	9.988 9329		.120	
		331		349			17		
881	9.348 1624		9.359 2312		0.640 7688	9.988 9312		119	
882	9.348 1955	331	9.359 2661	349	0.640 7339	9.988 9295	17	118	
883	9.348 2287	332	9.359 3010	349	0.640 6990	9.988 9277	18	117	
		331		348			17		
884	9.348 2618		9.359 3358		0.640 6642	9.988 9260		116	
885	9.348 2950	332	9.359 3707	349	0.640 6293	9.988 9243	17	115	
886	9.348 3281	331	9.359 4056	349	0.640 5944	9.988 9225	18	114	
		331		348			17		
887	9.348 3612		9.359 4404		0.640 5596	9.988 9208		113	
888	9.348 3944	332	9.359 4753	349	0.640 5247	9.988 9191	17	112	
889	9.348 4275	331	9.359 5102	349	0.640 4898	9.988 9173	18	111	
		331		348			17		
.890	9.348 4606		9.359 5450		0.640 4550	9.988 9156		.110	
		331		349			18		
891	9.348 4937		9.359 5799		0.640 4201	9.988 9138		109	
892	9.348 5268	331	9.359 6147	348	0.640 3853	9.988 9121	17	108	
893	9.348 5600	332	9.359 6496	349	0.640 3504	9.988 9104	17	107	
		331		348			18		
894	9.348 5931		9.359 6844		0.640 3156	9.988 9086		106	
895	9.348 6262	331	9.359 7193	349	0.640 2807	9.988 9069	17	105	
896	9.348 6593	331	9.359 7541	348	0.640 2459	9.988 9052	17	104	
		331		349			18		
897	9.348 6924		9.359 7890		0.640 2110	9.988 9034		103	
898	9.348 7255	331	9.359 8238	348	0.640 1762	9.988 9017	17	102	
899	9.348 7586	331	9.359 8586	348	0.640 1414	9.988 9000	17	101	
		331		349			18		
.900	9.348 7917		9.359 8935		0.640 1065	9.988 8982		.100	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	350	349
1	35.0	34.9
2	70.0	69.8
3	105.0	104.7
4	140.0	139.6
5	175.0	174.5
6	210.0	209.4
7	245.0	244.3
8	280.0	279.2
9	315.0	314.1

	348	333
1	34.8	33.3
2	69.6	66.6
3	104.4	99.9
4	139.2	133.2
5	174.0	166.5
6	208.8	199.8
7	243.6	233.1
8	278.4	266.4
9	313.2	299.7

	332	331
1	33.2	33.1
2	66.4	66.2
3	99.6	99.3
4	132.8	132.4
5	166.0	165.5
6	199.2	198.6
7	232.4	231.7
8	265.6	264.8
9	298.8	297.9

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

77°.150 — 77°.100

12°.900 — 12°.950

12°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.348 7917		9.359 8935		0.640 1065	9.988 8982		.100	
		331		348			17		
901	9.348 8248		9.359 9283		0.640 0717	9.988 8965		099	
902	9.348 8579	331	9.359 9631	348	0.640 0369	9.988 8948	17	098	
903	9.348 8910	331	9.359 9979	348	0.640 0021	9.988 8930	18	097	
		331		349			17		
904	9.348 9241		9.360 0328		0.639 9672	9.988 8913		096	
905	9.348 9571	330	9.360 0676	348	0.639 9324	9.988 8895	18	095	
906	9.348 9902	331	9.360 1024	348	0.639 8976	9.988 8878	17	094	
		331		348			17		
907	9.349 0233		9.360 1372		0.639 8628	9.988 8861		093	
908	9.349 0564	331	9.360 1720	348	0.639 8280	9.988 8843	18	092	
909	9.349 0894	330	9.360 2068	348	0.639 7932	9.988 8826	17	091	
		331		349			17		
.910	9.349 1225		9.360 2417		0.639 7583	9.988 8809		.090	
		331		348			18		
911	9.349 1556		9.360 2765		0.639 7235	9.988 8791		089	
912	9.349 1886	330	9.360 3113	348	0.639 6887	9.988 8774	17	088	
913	9.349 2217	331	9.360 3461	348	0.639 6539	9.988 8757	17	087	
		331		348			18		
914	9.349 2548		9.360 3809		0.639 6191	9.988 8739		086	
915	9.349 2878	330	9.360 4157	348	0.639 5843	9.988 8722	17	085	
916	9.349 3209	331	9.360 4504	347	0.639 5496	9.988 8704	18	084	
		330		348			17		
917	9.349 3539		9.360 4852		0.639 5148	9.988 8687		083	
918	9.349 3870	331	9.360 5200	348	0.639 4800	9.988 8670	17	082	
919	9.349 4200	330	9.360 5548	348	0.639 4452	9.988 8652	18	081	
		331		348			17		
.920	9.349 4531		9.360 5896		0.639 4104	9.988 8635		.080	
		330		348			18		
921	9.349 4861		9.360 6244		0.639 3756	9.988 8617		079	
922	9.349 5192	331	9.360 6591	347	0.639 3409	9.988 8600	17	078	
923	9.349 5522	330	9.360 6939	348	0.639 3061	9.988 8583	17	077	
		330		348			18		
924	9.349 5852		9.360 7287		0.639 2713	9.988 8565		076	
925	9.349 6183	331	9.360 7635	348	0.639 2365	9.988 8548	17	075	
926	9.349 6513	330	9.360 7982	347	0.639 2018	9.988 8530	18	074	
		330		348			17		
927	9.349 6843		9.360 8330		0.639 1670	9.988 8513		073	
928	9.349 7173	330	9.360 8678	348	0.639 1322	9.988 8496	17	072	
929	9.349 7503	330	9.360 9025	347	0.639 0975	9.988 8478	18	071	
		331		348			17		
.930	9.349 7834		9.360 9373		0.639 0627	9.988 8461		.070	
		330		347			18		
931	9.349 8164		9.360 9720		0.639 0280	9.988 8443		069	
932	9.349 8494	330	9.361 0068	348	0.638 9932	9.988 8426	17	068	
933	9.349 8824	330	9.361 0415	347	0.638 9585	9.988 8409	17	067	
		330		348			18		
934	9.349 9154		9.361 0763		0.638 9237	9.988 8391		066	
935	9.349 9484	330	9.361 1110	347	0.638 8890	9.988 8374	17	065	
936	9.349 9814	330	9.361 1458	348	0.638 8542	9.988 8356	18	064	
		330		347			17		
937	9.350 0144		9.361 1805		0.638 8195	9.988 8339		063	
938	9.350 0474	330	9.361 2152	347	0.638 7848	9.988 8322	17	062	
939	9.350 0804	330	9.361 2500	348	0.638 7500	9.988 8304	18	061	
		330		347			17		
.940	9.350 1134		9.361 2847		0.638 7153	9.988 8287		.060	
		330		347			18		
941	9.350 1464		9.361 3194		0.638 6806	9.988 8269		059	
942	9.350 1794	330	9.361 3542	348	0.638 6458	9.988 8252	17	058	
943	9.350 2123	329	9.361 3889	347	0.638 6111	9.988 8235	17	057	
		330		347			18		
944	9.350 2453		9.361 4236		0.638 5764	9.988 8217		056	
945	9.350 2783	330	9.361 4583	347	0.638 5417	9.988 8200	17	055	
946	9.350 3113	330	9.361 4931	348	0.638 5069	9.988 8182	18	054	
		330		347			17		
947	9.350 3443		9.361 5278		0.638 4722	9.988 8165		053	
948	9.350 3772	329	9.361 5625	347	0.638 4375	9.988 8147	18	052	
949	9.350 4102	330	9.361 5972	347	0.638 4028	9.988 8130	17	051	
		330		347			17		
.950	9.350 4432		9.361 6319		0.638 3681	9.988 8113		.050	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	349	348
1	34.9	34.8
2	69.8	69.6
3	104.7	104.4
4	139.6	139.2
5	174.5	174.0
6	209.4	208.8
7	244.3	243.6
8	279.2	278.4
9	314.1	313.2

	347	331
1	34.7	33.1
2	69.4	66.2
3	104.1	99.3
4	138.8	132.4
5	173.5	165.5
6	208.2	198.6
7	242.9	231.7
8	277.6	264.8
9	312.3	297.9

	330	329
1	33.0	32.9
2	66.0	65.8
3	99.0	98.7
4	132.0	131.6
5	165.0	164.5
6	198.0	197.4
7	231.0	230.3
8	264.0	263.2
9	297.0	296.1

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

77°.100 — 77°.050

12°.950 — 13°.000

12°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.350 4432		9.361 6319		0.638 3681	9.988 8113		.050	
		329		347			18		
951	9.350 4761		9.361 6666		0.638 3334	9.988 8095		049	
952	9.350 5091	330	9.361 7013	347	0.638 2987	9.988 8078	17	048	
953	9.350 5420	329	9.361 7360	347	0.638 2640	9.988 8060	18	047	
		330		347			17		
954	9.350 5750		9.361 7707		0.638 2293	9.988 8043		046	
955	9.350 6079	329	9.361 8054	347	0.638 1946	9.988 8025	18	045	
956	9.350 6409	330	9.361 8401	347	0.638 1599	9.988 8008	17	044	
		329		347			17		
957	9.350 6738		9.361 8748		0.638 1252	9.988 7991		043	
958	9.350 7068	330	9.361 9095	347	0.638 0905	9.988 7973	18	042	
959	9.350 7397	329	9.361 9442	347	0.638 0558	9.988 7956	17	041	
		330		346			18		
.960	9.350 7727		9.361 9788		0.638 0212	9.988 7938		.040	
		329		347			17		
961	9.350 8056		9.362 0135		0.637 9865	9.988 7921		039	
962	9.350 8385	329	9.362 0482	347	0.637 9518	9.988 7903	18	038	
963	9.350 8715	330	9.362 0829	347	0.637 9171	9.988 7886	17	037	
		329		346			18		
964	9.350 9044		9.362 1175		0.637 8825	9.988 7868		036	
965	9.350 9373	329	9.362 1522	347	0.637 8478	9.988 7851	17	035	
966	9.350 9702	329	9.362 1869	347	0.637 8131	9.988 7834	17	034	
		330		346			18		
967	9.351 0032		9.362 2215		0.637 7785	9.988 7816		033	
968	9.351 0361	329	9.362 2562	347	0.637 7438	9.988 7799	17	032	
969	9.351 0690	329	9.362 2909	347	0.637 7091	9.988 7781	18	031	
		329		346			17		
.970	9.351 1019		9.362 3255		0.637 6745	9.988 7764		.030	
		329		347			18		
971	9.351 1348		9.362 3602		0.637 6398	9.988 7746		029	
972	9.351 1677	329	9.362 3948	346	0.637 6052	9.988 7729	17	028	
973	9.351 2006	329	9.362 4295	347	0.637 5705	9.988 7711	18	027	
		329		346			17		
974	9.351 2335		9.362 4641		0.637 5359	9.988 7694		026	
975	9.351 2664	329	9.362 4988	347	0.637 5012	9.988 7676	18	025	
976	9.351 2993	329	9.362 5334	346	0.637 4666	9.988 7659	17	024	
		329		347			18		
977	9.351 3322		9.362 5681		0.637 4319	9.988 7641		023	
978	9.351 3651	329	9.362 6027	346	0.637 3973	9.988 7624	17	022	
979	9.351 3980	329	9.362 6373	346	0.637 3627	9.988 7607	17	021	
		329		347			18		
.980	9.351 4309		9.362 6720		0.637 3280	9.988 7589		.020	
		329		346			17		
981	9.351 4638		9.362 7066		0.637 2934	9.988 7572		019	
982	9.351 4966	328	9.362 7412	346	0.637 2588	9.988 7554	18	018	
983	9.351 5295	329	9.362 7758	346	0.637 2242	9.988 7537	17	017	
		329		347			18		
984	9.351 5624		9.362 8105		0.637 1895	9.988 7519		016	
985	9.351 5953	329	9.362 8451	346	0.637 1549	9.988 7502	17	015	
986	9.351 6281	328	9.362 8797	346	0.637 1203	9.988 7484	18	014	
		329		346			17		
987	9.351 6610		9.362 9143		0.637 0857	9.988 7467		013	
988	9.351 6939	329	9.362 9489	346	0.637 0511	9.988 7449	18	012	
989	9.351 7267	328	9.362 9835	346	0.637 0165	9.988 7432	17	011	
		329		347			18		
.990	9.351 7596		9.363 0182		0.636 9818	9.988 7414		.010	
		328		346			17		
991	9.351 7924		9.363 0528		0.636 9472	9.988 7397		009	
992	9.351 8253	329	9.363 0874	346	0.636 9126	9.988 7379	18	008	
993	9.351 8581	328	9.363 1220	346	0.636 8780	9.988 7362	17	007	
		329		346			18		
994	9.351 8910		9.363 1566		0.636 8434	9.988 7344		006	
995	9.351 9238	328	9.363 1912	346	0.636 8088	9.988 7327	17	005	
996	9.351 9567	329	9.363 2258	346	0.636 7742	9.988 7309	18	004	
		328		345			17		
997	9.351 9895		9.363 2603		0.636 7397	9.988 7292		003	
998	9.352 0224	329	9.363 2949	346	0.636 7051	9.988 7274	18	002	
999	9.352 0552	328	9.363 3295	346	0.636 6705	9.988 7257	17	001	
		328		346			18		
*.000	9.352 0880		9.363 3641		0.636 6359	9.988 7239		.000	
	cos	d	cotg	d	tang	sin	d	77°	P.P.

	347	346
1	34.7	34.6
2	69.4	69.2
3	104.1	103.8
4	138.8	138.4
5	173.5	173.0
6	208.2	207.6
7	242.9	242.2
8	277.6	276.8
9	312.3	311.4

	345	330
1	34.5	33.0
2	69.0	66.0
3	103.5	99.0
4	138.0	132.0
5	172.5	165.0
6	207.0	198.0
7	241.5	231.0
8	276.0	264.0
9	310.5	297.0

	329	328
1	32.9	32.8
2	65.8	65.6
3	98.7	98.4
4	131.6	131.2
5	164.5	164.0
6	197.4	196.8
7	230.3	229.6
8	263.2	262.4
9	296.1	295.2

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

77°.050 — 77°.000

13°.000 — 13°.050

13°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.352 0880		9.363 3641		0.636 6359	9.988 7239		*000	
		329		346			17		
001	9.352 1209		9.363 3987		0.636 6013	9.988 7222		999	
002	9.352 1537	328	9.363 4333	346	0.636 5667	9.988 7204	18	998	
003	9.352 1865	328	9.363 4678	345	0.636 5322	9.988 7187	17	997	
		328		346			18		
004	9.352 2193		9.363 5024		0.636 4976	9.988 7169		996	
005	9.352 2522	329	9.363 5370	346	0.636 4630	9.988 7152	17	995	
006	9.352 2850	328	9.363 5715	345	0.636 4285	9.988 7134	18	994	
		328		346			17		
007	9.352 3178		9.363 6061		0.636 3939	9.988 7117		993	
008	9.352 3506	328	9.363 6407	346	0.636 3593	9.988 7099	18	992	
009	9.352 3834	328	9.363 6752	345	0.636 3248	9.988 7082	17	991	
		328		346			18		
.010	9.352 4162		9.363 7098		0.636 2902	9.988 7064		.990	
		328		346			17		
011	9.352 4490		9.363 7444		0.636 2556	9.988 7047		989	
012	9.352 4818	328	9.363 7789	345	0.636 2211	9.988 7029	18	988	
013	9.352 5146	328	9.363 8135	346	0.636 1865	9.988 7012	17	987	
		328		345			18		
014	9.352 5474		9.363 8480		0.636 1520	9.988 6994		986	
015	9.352 5802	328	9.363 8826	346	0.636 1174	9.988 6977	17	985	
016	9.352 6130	328	9.363 9171	345	0.636 0829	9.988 6959	18	984	
		328		345			17		
017	9.352 6458		9.363 9516		0.636 0484	9.988 6942		983	
018	9.352 6786	328	9.363 9862	346	0.636 0138	9.988 6924	18	982	
019	9.352 7114	328	9.364 0207	345	0.635 9793	9.988 6907	17	981	
		328		345			18		
.020	9.352 7442		9.364 0552		0.635 9448	9.988 6889		.980	
		327		346			17		
021	9.352 7769		9.364 0898		0.635 9102	9.988 6872		979	
022	9.352 8097	328	9.364 1243	345	0.635 8757	9.988 6854	18	978	
023	9.352 8425	328	9.364 1588	345	0.635 8412	9.988 6836	18	977	
		327		346			17		
024	9.352 8752		9.364 1934		0.635 8066	9.988 6819		976	
025	9.352 9080	328	9.364 2279	345	0.635 7721	9.988 6801	18	975	
026	9.352 9408	328	9.364 2624	345	0.635 7376	9.988 6784	17	974	
		327		345			18		
027	9.352 9735		9.364 2969		0.635 7031	9.988 6766		973	
028	9.353 0063	328	9.364 3314	345	0.635 6686	9.988 6749	17	972	
029	9.353 0391	328	9.364 3659	345	0.635 6341	9.988 6731	18	971	
		327		345			17		
.030	9.353 0718		9.364 4004		0.635 5996	9.988 6714		.970	
		328		346			18		
031	9.353 1046		9.364 4350		0.635 5650	9.988 6696		969	
032	9.353 1373	327	9.364 4695	345	0.635 5305	9.988 6679	17	968	
033	9.353 1701	328	9.364 5040	345	0.635 4960	9.988 6661	18	967	
		327		345			17		
034	9.353 2028		9.364 5385		0.635 4615	9.988 6644		966	
035	9.353 2356	328	9.364 5730	345	0.635 4270	9.988 6626	18	965	
036	9.353 2683	327	9.364 6075	345	0.635 3925	9.988 6608	18	964	
		327		344			17		
037	9.353 3010		9.364 6419		0.635 3581	9.988 6591		963	
038	9.353 3338	328	9.364 6764	345	0.635 3236	9.988 6573	18	962	
039	9.353 3665	327	9.364 7109	345	0.635 2891	9.988 6556	17	961	
		327		345			18		
.040	9.353 3992		9.364 7454		0.635 2546	9.988 6538		.960	
		328		345			17		
041	9.353 4320		9.364 7799		0.635 2201	9.988 6521		959	
042	9.353 4647	327	9.364 8144	345	0.635 1856	9.988 6503	18	958	
043	9.353 4974	327	9.364 8488	344	0.635 1512	9.988 6486	17	957	
		327		345			18		
044	9.353 5301		9.364 8833		0.635 1167	9.988 6468		956	
045	9.353 5628	327	9.364 9178	345	0.635 0822	9.988 6450	18	955	
046	9.353 5955	327	9.364 9523	345	0.635 0477	9.988 6433	17	954	
		328		344			18		
047	9.353 6283		9.364 9867		0.635 0133	9.988 6415		953	
048	9.353 6610	327	9.365 0212	345	0.634 9788	9.988 6398	17	952	
049	9.353 6937	327	9.365 0557	345	0.634 9443	9.988 6380	18	951	
		327		344			17		
.050	9.353 7264		9.365 0901		0.634 9099	9.988 6363		.950	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	346	345
1	34.6	34.5
2	69.2	69.0
3	103.8	103.5
4	138.4	138.0
5	173.0	172.5
6	207.6	207.0
7	242.2	241.5
8	276.8	276.0
9	311.4	310.5

	344	329
1	34.4	32.9
2	68.8	65.8
3	103.2	98.7
4	137.6	131.6
5	172.0	164.5
6	206.4	197.4
7	240.8	230.3
8	275.2	263.2
9	309.6	296.1

	328	327
1	32.8	32.7
2	65.6	65.4
3	98.4	98.1
4	131.2	130.8
5	164.0	163.5
6	196.8	196.2
7	229.6	228.9
8	262.4	261.6
9	295.2	294.3

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

77°.000 — 76°.950

13°.050 — 13°.100

13°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.353 7264		9.365 0901		0.634 9099	9.988 6363		.950	
		327		345			18		
051	9.353 7591		9.365 1246		0.634 8754	9.988 6345		949	
052	9.353 7918	327	9.365 1590	344	0.634 8410	9.988 6327	18	948	
053	9.353 8245	327	9.365 1935	345	0.634 8065	9.988 6310	17	947	
		327		344			18		
054	9.353 8572		9.365 2279		0.634 7721	9.988 6292		946	
055	9.353 8899	327	9.365 2624	345	0.634 7376	9.988 6275	17	945	
056	9.353 9225	326	9.365 2968	344	0.634 7032	9.988 6257	18	944	
		327		345			17		
057	9.353 9552		9.365 3313		0.634 6687	9.988 6240		943	
058	9.353 9879	327	9.365 3657	344	0.634 6343	9.988 6222	18	942	
059	9.354 0206	327	9.365 4001	344	0.634 5999	9.988 6204	18	941	
		327		345			17		
.060	9.354 0533		9.365 4346		0.634 5654	9.988 6187		.940	
		326		344			18		
061	9.354 0859		9.365 4690		0.634 5310	9.988 6169		939	
062	9.354 1186	327	9.365 5034	344	0.634 4966	9.988 6152	17	938	
063	9.354 1513	327	9.365 5379	345	0.634 4621	9.988 6134	18	937	
		326		344			17		
064	9.354 1839		9.365 5723		0.634 4277	9.988 6117		936	
065	9.354 2166	327	9.365 6067	344	0.634 3933	9.988 6099	18	935	
066	9.354 2493	327	9.365 6411	344	0.634 3589	9.988 6081	18	934	
		326		345			17		
067	9.354 2819		9.365 6756		0.634 3244	9.988 6064		933	
068	9.354 3146	327	9.365 7100	344	0.634 2900	9.988 6046	18	932	
069	9.354 3472	326	9.365 7444	344	0.634 2556	9.988 6029	17	931	
		327		344			18		
.070	9.354 3799		9.365 7788		0.634 2212	9.988 6011		.930	
		326		344			18		
071	9.354 4125		9.365 8132		0.634 1868	9.988 5993		929	
072	9.354 4452	327	9.365 8476	344	0.634 1524	9.988 5976	17	928	
073	9.354 4778	326	9.365 8820	344	0.634 1180	9.988 5958	18	927	
		327		344			17		
074	9.354 5105		9.365 9164		0.634 0836	9.988 5941		926	
075	9.354 5431	326	9.365 9508	344	0.634 0492	9.988 5923	18	925	
076	9.354 5757	326	9.365 9852	344	0.634 0148	9.988 5905	18	924	
		327		344			17		
077	9.354 6084		9.366 0196		0.633 9804	9.988 5888		923	
078	9.354 6410	326	9.366 0540	344	0.633 9460	9.988 5870	18	922	
079	9.354 6736	326	9.366 0884	344	0.633 9116	9.988 5853	17	921	
		327		344			18		
.080	9.354 7063		9.366 1228		0.633 8772	9.988 5835		.920	
		326		344			18		
081	9.354 7389		9.366 1572		0.633 8428	9.988 5817		919	
082	9.354 7715	326	9.366 1915	343	0.633 8085	9.988 5800	17	918	
083	9.354 8041	326	9.366 2259	344	0.633 7741	9.988 5782	18	917	
		326		344			18		
084	9.354 8367		9.366 2603		0.633 7397	9.988 5764		916	
085	9.354 8694	327	9.366 2947	344	0.633 7053	9.988 5747	17	915	
086	9.354 9020	326	9.366 3290	343	0.633 6710	9.988 5729	18	914	
		326		344			17		
087	9.354 9346		9.366 3634		0.633 6366	9.988 5712		913	
088	9.354 9672	326	9.366 3978	344	0.633 6022	9.988 5694	18	912	
089	9.354 9998	326	9.366 4321	343	0.633 5679	9.988 5676	18	911	
		326		344			17		
.090	9.355 0324		9.366 4665		0.633 5335	9.988 5659		.910	
		326		344			18		
091	9.355 0650		9.366 5009		0.633 4991	9.988 5641		909	
092	9.355 0976	326	9.366 5352	343	0.633 4648	9.988 5623	18	908	
093	9.355 1302	326	9.366 5696	344	0.633 4304	9.988 5606	17	907	
		325		343			18		
094	9.355 1627		9.366 6039		0.633 3961	9.988 5588		906	
095	9.355 1953	326	9.366 6383	344	0.633 3617	9.988 5571	17	905	
096	9.355 2279	326	9.366 6726	343	0.633 3274	9.988 5553	18	904	
		326		344			18		
097	9.355 2605		9.366 7070		0.633 2930	9.988 5535		903	
098	9.355 2931	326	9.366 7413	343	0.633 2587	9.988 5518	17	902	
099	9.355 3257	326	9.366 7757	344	0.633 2243	9.988 5500	18	901	
		325		343			18		
.100	9.355 3582		9.366 8100		0.633 1900	9.988 5482		.900	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	345	344
1	34.5	34.4
2	69.0	68.8
3	103.5	103.2
4	138.0	137.6
5	172.5	172.0
6	207.0	206.4
7	241.5	240.8
8	276.0	275.2
9	310.5	309.6

	343	327
1	34.3	32.7
2	68.6	65.4
3	102.9	98.1
4	137.2	130.8
5	171.5	163.5
6	205.8	196.2
7	240.1	228.9
8	274.4	261.6
9	308.7	294.3

	326	325
1	32.6	32.5
2	65.2	65.0
3	97.8	97.5
4	130.4	130.0
5	163.0	162.5
6	195.6	195.0
7	228.2	227.5
8	260.8	260.0
9	293.4	292.5

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

76°.950 — 76°.900

13°.100 — 13°.150

13°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.355 3582		9.366 8100		0.633 1900	9.988 5482		.900	
		326		343			17		
101	9.355 3908		9.366 8443		0.633 1557	9.988 5465		899	
102	9.355 4234	326	9.366 8787	344	0.633 1213	9.988 5447	18	898	
103	9.355 4559	325	9.366 9130	343	0.633 0870	9.988 5429	18	897	
		326		343			17		
104	9.355 4885		9.366 9473		0.633 0527	9.988 5412		896	
105	9.355 5211	326	9.366 9816	343	0.633 0184	9.988 5394	18	895	
106	9.355 5536	325	9.367 0160	344	0.632 9840	9.988 5377	17	894	
		326		343			18		
107	9.355 5862		9.367 0503		0.632 9497	9.988 5359		893	
108	9.355 6187	325	9.367 0846	343	0.632 9154	9.988 5341	18	892	
109	9.355 6513	326	9.367 1189	343	0.632 8811	9.988 5324	17	891	
		325		343			18		
.110	9.355 6838		9.367 1532		0.632 8468	9.988 5306		.890	
		326		343			18		
111	9.355 7164		9.367 1875		0.632 8125	9.988 5288		889	
112	9.355 7489	325	9.367 2218	343	0.632 7782	9.988 5271	17	888	
113	9.355 7815	326	9.367 2562	344	0.632 7438	9.988 5253	18	887	
		325		343			18		
114	9.355 8140		9.367 2905		0.632 7095	9.988 5235		886	
115	9.355 8465	325	9.367 3248	343	0.632 6752	9.988 5218	17	885	
116	9.355 8791	326	9.367 3591	343	0.632 6409	9.988 5200	18	884	
		325		343			18		
117	9.355 9116		9.367 3934		0.632 6066	9.988 5182		883	
118	9.355 9441	325	9.367 4276	342	0.632 5724	9.988 5165	17	882	
119	9.355 9766	325	9.367 4619	343	0.632 5381	9.988 5147	18	881	
		326		343			18		
.120	9.356 0092		9.367 4962		0.632 5038	9.988 5129		.880	
		325		343			17		
121	9.356 0417		9.367 5305		0.632 4695	9.988 5112		879	
122	9.356 0742	325	9.367 5648	343	0.632 4352	9.988 5094	18	878	
123	9.356 1067	325	9.367 5991	343	0.632 4009	9.988 5076	18	877	
		325		343			17		
124	9.356 1392		9.367 6334		0.632 3666	9.988 5059		876	
125	9.356 1717	325	9.367 6676	342	0.632 3324	9.988 5041	18	875	
126	9.356 2042	325	9.367 7019	343	0.632 2981	9.988 5023	18	874	
		325		343			17		
127	9.356 2367		9.367 7362		0.632 2638	9.988 5006		873	
128	9.356 2693	326	9.367 7705	343	0.632 2295	9.988 4988	18	872	
129	9.356 3018	325	9.367 8047	342	0.632 1953	9.988 4970	18	871	
		324		343			17		
.130	9.356 3342		9.367 8390		0.632 1610	9.988 4953		.870	
		325		342			18		
131	9.356 3667		9.367 8732		0.632 1268	9.988 4935		869	
132	9.356 3992	325	9.367 9075	343	0.632 0925	9.988 4917	18	868	
133	9.356 4317	325	9.367 9418	343	0.632 0582	9.988 4900	17	867	
		325		342			18		
134	9.356 4642		9.367 9760		0.632 0240	9.988 4882		866	
135	9.356 4967	325	9.368 0103	343	0.631 9897	9.988 4864	18	865	
136	9.356 5292	325	9.368 0445	342	0.631 9555	9.988 4847	17	864	
		325		343			18		
137	9.356 5617		9.368 0788		0.631 9212	9.988 4829		863	
138	9.356 5941	324	9.368 1130	342	0.631 8870	9.988 4811	18	862	
139	9.356 6266	325	9.368 1473	343	0.631 8527	9.988 4793	18	861	
		325		342			17		
.140	9.356 6591		9.368 1815		0.631 8185	9.988 4776		.860	
		324		342			18		
141	9.356 6915		9.368 2157		0.631 7843	9.988 4758		859	
142	9.356 7240	325	9.368 2500	343	0.631 7500	9.988 4740	18	858	
143	9.356 7565	325	9.368 2842	342	0.631 7158	9.988 4723	17	857	
		324		342			18		
144	9.356 7889		9.368 3184		0.631 6816	9.988 4705		856	
145	9.356 8214	325	9.368 3527	343	0.631 6473	9.988 4687	18	855	
146	9.356 8538	324	9.368 3869	342	0.631 6131	9.988 4670	17	854	
		325		342			18		
147	9.356 8863		9.368 4211		0.631 5789	9.988 4652		853	
148	9.356 9188	325	9.368 4553	342	0.631 5447	9.988 4634	18	852	
149	9.356 9512	324	9.368 4896	343	0.631 5104	9.988 4616	18	851	
		324		342			17		
.150	9.356 9836		9.368 5238		0.631 4762	9.988 4599		.850	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	344	343
1	34.4	34.3
2	68.8	68.6
3	103.2	102.9
4	137.6	137.2
5	172.0	171.5
6	206.4	205.8
7	240.8	240.1
8	275.2	274.4
9	309.6	308.7

	342	326
1	34.2	32.6
2	68.4	65.2
3	102.6	97.8
4	136.8	130.4
5	171.0	163.0
6	205.2	195.6
7	239.4	228.2
8	273.6	260.8
9	307.8	293.4

	325	324
1	32.5	32.4
2	65.0	64.8
3	97.5	97.2
4	130.0	129.6
5	162.5	162.0
6	195.0	194.4
7	227.5	226.8
8	260.0	259.2
9	292.5	291.6

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

76°.900 — 76°.850

13°.150 — 13°.200

13°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.356 9836		9.368 5238		0.631 4762	9.988 4599		.850	
		325		342			18		
151	9.357 0161		9.368 5580		0.631 4420	9.988 4581		849	
152	9.357 0485	324	9.368 5922	342	0.631 4078	9.988 4563	18	848	
153	9.357 0810	325	9.368 6264	342	0.631 3736	9.988 4546	17	847	
		324		342			18		
154	9.357 1134		9.368 6606		0.631 3394	9.988 4528		846	
155	9.357 1458	324	9.368 6948	342	0.631 3052	9.988 4510	18	845	
156	9.357 1783	325	9.368 7290	342	0.631 2710	9.988 4492	18	844	
		324		342			17		
157	9.357 2107		9.368 7632		0.631 2368	9.988 4475		843	
158	9.357 2431	324	9.368 7974	342	0.631 2026	9.988 4457	18	842	
159	9.357 2755	324	9.368 8316	342	0.631 1684	9.988 4439	18	841	
		325		342			17		
.160	9.357 3080		9.368 8658		0.631 1342	9.988 4422		.840	
		324		342			18		
161	9.357 3404		9.368 9000		0.631 1000	9.988 4404		839	
162	9.357 3728	324	9.368 9342	342	0.631 0658	9.988 4386	18	838	
163	9.357 4052	324	9.368 9684	342	0.631 0316	9.988 4368	18	837	
		324		341			17		
164	9.357 4376		9.369 0025		0.630 9975	9.988 4351		836	
165	9.357 4700	324	9.369 0367	342	0.630 9633	9.988 4333	18	835	
166	9.357 5024	324	9.369 0709	342	0.630 9291	9.988 4315	18	834	
		324		342			18		
167	9.357 5348		9.369 1051		0.630 8949	9.988 4297		833	
168	9.357 5672	324	9.369 1393	342	0.630 8607	9.988 4280	17	832	
169	9.357 5996	324	9.369 1734	341	0.630 8266	9.988 4262	18	831	
		324		342			18		
.170	9.357 6320		9.369 2076		0.630 7924	9.988 4244		.830	
		324		342			17		
171	9.357 6644		9.369 2418		0.630 7582	9.988 4227		829	
172	9.357 6968	324	9.369 2759	341	0.630 7241	9.988 4209	18	828	
173	9.357 7292	324	9.369 3101	342	0.630 6899	9.988 4191	18	827	
		324		341			18		
174	9.357 7616		9.369 3442		0.630 6558	9.988 4173		826	
175	9.357 7940	324	9.369 3784	342	0.630 6216	9.988 4156	17	825	
176	9.357 8263	323	9.369 4126	342	0.630 5874	9.988 4138	18	824	
		324		341			18		
177	9.357 8587		9.369 4467		0.630 5533	9.988 4120		823	
178	9.357 8911	324	9.369 4809	342	0.630 5191	9.988 4102	18	822	
179	9.357 9235	324	9.369 5150	341	0.630 4850	9.988 4085	17	821	
		323		341			18		
.180	9.357 9558		9.369 5491		0.630 4509	9.988 4067		.820	
		324		342			18		
181	9.357 9882		9.369 5833		0.630 4167	9.988 4049		819	
182	9.358 0206	324	9.369 6174	341	0.630 3826	9.988 4031	18	818	
183	9.358 0529	323	9.369 6516	342	0.630 3484	9.988 4014	17	817	
		324		341			18		
184	9.358 0853		9.369 6857		0.630 3143	9.988 3996		816	
185	9.358 1176	323	9.369 7198	341	0.630 2802	9.988 3978	18	815	
186	9.358 1500	324	9.369 7540	342	0.630 2460	9.988 3960	18	814	
		323		341			17		
187	9.358 1823		9.369 7881		0.630 2119	9.988 3943		813	
188	9.358 2147	324	9.369 8222	341	0.630 1778	9.988 3925	18	812	
189	9.358 2470	323	9.369 8563	341	0.630 1437	9.988 3907	18	811	
		324		341			18		
.190	9.358 2794		9.369 8904		0.630 1096	9.988 3889		.810	
		323		342			18		
191	9.358 3117		9.369 9246		0.630 0754	9.988 3871		809	
192	9.358 3441	324	9.369 9587	341	0.630 0413	9.988 3854	17	808	
193	9.358 3764	323	9.369 9928	341	0.630 0072	9.988 3836	18	807	
		323		341			18		
194	9.358 4087		9.370 0269		0.629 9731	9.988 3818		806	
195	9.358 4411	324	9.370 0610	341	0.629 9390	9.988 3800	18	805	
196	9.358 4734	323	9.370 0951	341	0.629 9049	9.988 3783	17	804	
		323		341			18		
197	9.358 5057		9.370 1292		0.629 8708	9.988 3765		803	
198	9.358 5380	323	9.370 1633	341	0.629 8367	9.988 3747	18	802	
199	9.358 5704	324	9.370 1974	341	0.629 8026	9.988 3729	18	801	
		323		341			17		
.200	9.358 6027		9.370 2315		0.629 7685	9.988 3712		.800	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	342	341
1	34.2	34.1
2	68.4	68.2
3	102.6	102.3
4	136.8	136.4
5	171.0	170.5
6	205.2	204.6
7	239.4	238.7
8	273.6	272.8
9	307.8	306.9

	325	324
1	32.5	32.4
2	65.0	64.8
3	97.5	97.2
4	130.0	129.6
5	162.5	162.0
6	195.0	194.4
7	227.5	226.8
8	260.0	259.2
9	292.5	291.6

	323
1	32.3
2	64.6
3	96.9
4	129.2
5	161.5
6	193.8
7	226.1
8	258.4
9	290.7

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

76°.850 — 76°.800

13°.200 — 13°.250

13°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.358 6027		9.370 2315		0.629 7685	9.988 3712		.800	
		323		341			18		
201	9.358 6350		9.370 2656		0.629 7344	9.988 3694		799	
202	9.358 6673	323	9.370 2997	341	0.629 7003	9.988 3676	18	798	
203	9.358 6996	323	9.370 3338	341	0.629 6662	9.988 3658	18	797	
		323		341			18		
204	9.358 7319		9.370 3679		0.629 6321	9.988 3640		796	
205	9.358 7642	323	9.370 4020	341	0.629 5980	9.988 3623	17	795	
206	9.358 7965	323	9.370 4360	340	0.629 5640	9.988 3605	18	794	
		323		341			18		
207	9.358 8288		9.370 4701		0.629 5299	9.988 3587		793	
208	9.358 8611	323	9.370 5042	341	0.629 4958	9.988 3569	18	792	
209	9.358 8934	323	9.370 5383	341	0.629 4617	9.988 3551	18	791	
		323		340			17		
.210	9.358 9257		9.370 5723		0.629 4277	9.988 3534		.790	
		323		341			18		
211	9.358 9580		9.370 6064		0.629 3936	9.988 3516		789	
212	9.358 9903	323	9.370 6405	341	0.629 3595	9.988 3498	18	788	
213	9.359 0226	323	9.370 6745	340	0.629 3255	9.988 3480	18	787	
		323		341			17		
214	9.359 0549		9.370 7086		0.629 2914	9.988 3463		786	
215	9.359 0871	322	9.370 7427	341	0.629 2573	9.988 3445	18	785	
216	9.359 1194	323	9.370 7767	340	0.629 2233	9.988 3427	18	784	
		323		341			18		
217	9.359 1517		9.370 8108		0.629 1892	9.988 3409		783	
218	9.359 1840	323	9.370 8448	340	0.629 1552	9.988 3391	18	782	
219	9.359 2162	322	9.370 8789	341	0.629 1211	9.988 3374	17	781	
		323		340			18		
.220	9.359 2485		9.370 9129		0.629 0871	9.988 3356		.780	
		323		341			18		
221	9.359 2808		9.370 9470		0.629 0530	9.988 3338		779	
222	9.359 3130	322	9.370 9810	340	0.629 0190	9.988 3320	18	778	
223	9.359 3453	323	9.371 0151	341	0.628 9849	9.988 3302	18	777	
		322		340			18		
224	9.359 3775		9.371 0491		0.628 9509	9.988 3284		776	
225	9.359 4098	323	9.371 0831	340	0.628 9169	9.988 3267	17	775	
226	9.359 4421	323	9.371 1172	341	0.628 8828	9.988 3249	18	774	
		322		340			18		
227	9.359 4743		9.371 1512		0.628 8488	9.988 3231		773	
228	9.359 5066	323	9.371 1852	340	0.628 8148	9.988 3213	18	772	
229	9.359 5388	322	9.371 2193	341	0.628 7807	9.988 3195	18	771	
		322		340			17		
.230	9.359 5710		9.371 2533		0.628 7467	9.988 3178		.770	
		323		340			18		
231	9.359 6033		9.371 2873		0.628 7127	9.988 3160		769	
232	9.359 6355	322	9.371 3213	340	0.628 6787	9.988 3142	18	768	
233	9.359 6678	323	9.371 3553	340	0.628 6447	9.988 3124	18	767	
		322		341			18		
234	9.359 7000		9.371 3894		0.628 6106	9.988 3106		766	
235	9.359 7322	322	9.371 4234	340	0.628 5766	9.988 3088	18	765	
236	9.359 7644	322	9.371 4574	340	0.628 5426	9.988 3071	17	764	
		323		340			18		
237	9.359 7967		9.371 4914		0.628 5086	9.988 3053		763	
238	9.359 8289	322	9.371 5254	340	0.628 4746	9.988 3035	18	762	
239	9.359 8611	322	9.371 5594	340	0.628 4406	9.988 3017	18	761	
		322		340			18		
.240	9.359 8933		9.371 5934		0.628 4066	9.988 2999		.760	
		322		340			18		
241	9.359 9255		9.371 6274		0.628 3726	9.988 2981		759	
242	9.359 9577	322	9.371 6614	340	0.628 3386	9.988 2964	17	758	
243	9.359 9900	323	9.371 6954	340	0.628 3046	9.988 2946	18	757	
		322		340			18		
244	9.360 0222		9.371 7294		0.628 2706	9.988 2928		756	
245	9.360 0544	322	9.371 7634	340	0.628 2366	9.988 2910	18	755	
246	9.360 0866	322	9.371 7973	339	0.628 2027	9.988 2892	18	754	
		322		340			18		
247	9.360 1188		9.371 8313		0.628 1687	9.988 2874		753	
248	9.360 1510	322	9.371 8653	340	0.628 1347	9.988 2857	17	752	
249	9.360 1832	322	9.371 8993	340	0.628 1007	9.988 2839	18	751	
		322		340			18		
.250	9.360 2154		9.371 9333		0.628 0667	9.988 2821		.750	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	341	340
1	34.1	34.0
2	68.2	68.0
3	102.3	102.0
4	136.4	136.0
5	170.5	170.0
6	204.6	204.0
7	238.7	238.0
8	272.8	272.0
9	306.9	306.0

	339	323
1	33.9	32.3
2	67.8	64.6
3	101.7	96.9
4	135.6	129.2
5	169.5	161.5
6	203.4	193.8
7	237.3	226.1
8	271.2	258.4
9	305.1	290.7

	322
1	32.2
2	64.4
3	96.6
4	128.8
5	161.0
6	193.2
7	225.4
8	257.6
9	289.8

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

76°.800 — 76°.750

$13^\circ.250 - 13^\circ.300$

13°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.360 2154		9.371 9333		0.628 0667	9.988 2821		**.750**	
		321		339			18		
251	9.360 2475		9.371 9672		0.628 0328	9.988 2803		749	
252	9.360 2797	322	9.372 0012	340	0.627 9988	9.988 2785	18	748	
253	9.360 3119	322	9.372 0352	340	0.627 9648	9.988 2767	18	747	
		322		339			18		
254	9.360 3441		9.372 0691		0.627 9309	9.988 2749		746	
255	9.360 3763	322	9.372 1031	340	0.627 8969	9.988 2732	17	745	
256	9.360 4085	322	9.372 1371	340	0.627 8629	9.988 2714	18	744	
		321		339			18		
257	9.360 4406		9.372 1710		0.627 8290	9.988 2696		743	
258	9.360 4728	322	9.372 2050	340	0.627 7950	9.988 2678	18	742	
259	9.360 5050	322	9.372 2389	339	0.627 7611	9.988 2660	18	741	
		321		340			18		
.260	9.360 5371		9.372 2729		0.627 7271	9.988 2642		**.740**	
		322		340			18		
261	9.360 5693		9.372 3069		0.627 6931	9.988 2624		739	
262	9.360 6015	322	9.372 3408	339	0.627 6592	9.988 2607	17	738	
263	9.360 6336	321	9.372 3747	339	0.627 6253	9.988 2589	18	737	
		322		340			18		
264	9.360 6658		9.372 4087		0.627 5913	9.988 2571		736	
265	9.360 6979	321	9.372 4426	339	0.627 5574	9.988 2553	18	735	
266	9.360 7301	322	9.372 4766	340	0.627 5234	9.988 2535	18	734	
		321		339			18		
267	9.360 7622		9.372 5105		0.627 4895	9.988 2517		733	
268	9.360 7944	322	9.372 5444	339	0.627 4556	9.988 2499	18	732	
269	9.360 8265	321	9.372 5784	340	0.627 4216	9.988 2482	17	731	
		322		339			18		
.270	9.360 8587		9.372 6123		0.627 3877	9.988 2464		**.730**	
		321		339			18		
271	9.360 8908		9.372 6462		0.627 3538	9.988 2446		729	
272	9.360 9229	321	9.372 6801	339	0.627 3199	9.988 2428	18	728	
273	9.360 9551	322	9.372 7141	340	0.627 2859	9.988 2410	18	727	
		321		339			18		
274	9.360 9872		9.372 7480		0.627 2520	9.988 2392		726	
275	9.361 0193	321	9.372 7819	339	0.627 2181	9.988 2374	18	725	
276	9.361 0515	322	9.372 8158	339	0.627 1842	9.988 2356	18	724	
		321		339			18		
277	9.361 0836		9.372 8497		0.627 1503	9.988 2338		723	
278	9.361 1157	321	9.372 8836	339	0.627 1164	9.988 2321	17	722	
279	9.361 1478	321	9.372 9176	340	0.627 0824	9.988 2303	18	721	
		321		339			18		
.280	9.361 1799		9.372 9515		0.627 0485	9.988 2285		**.720**	
		322		339			18		
281	9.361 2121		9.372 9854		0.627 0146	9.988 2267		719	
282	9.361 2442	321	9.373 0193	339	0.626 9807	9.988 2249	18	718	
283	9.361 2763	321	9.373 0532	339	0.626 9468	9.988 2231	18	717	
		321		339			18		
284	9.361 3084		9.373 0871		0.626 9129	9.988 2213		716	
285	9.361 3405	321	9.373 1210	339	0.626 8790	9.988 2195	18	715	
286	9.361 3726	321	9.373 1548	338	0.626 8452	9.988 2177	18	714	
		321		339			17		
287	9.361 4047		9.373 1887		0.626 8113	9.988 2160		713	
288	9.361 4368	321	9.373 2226	339	0.626 7774	9.988 2142	18	712	
289	9.361 4689	321	9.373 2565	339	0.626 7435	9.988 2124	18	711	
		321		339			18		
.290	9.361 5010		9.373 2904		0.626 7096	9.988 2106		**.710**	
		321		339			18		
291	9.361 5331		9.373 3243		0.626 6757	9.988 2088		709	
292	9.361 5651	320	9.373 3581	338	0.626 6419	9.988 2070	18	708	
293	9.361 5972	321	9.373 3920	339	0.626 6080	9.988 2052	18	707	
		321		339			18		
294	9.361 6293		9.373 4259		0.626 5741	9.988 2034		706	
295	9.361 6614	321	9.373 4598	339	0.626 5402	9.988 2016	18	705	
296	9.361 6935	321	9.373 4936	338	0.626 5064	9.988 1998	18	704	
		320		339			18		
297	9.361 7255		9.373 5275		0.626 4725	9.988 1980		703	
298	9.361 7576	321	9.373 5614	339	0.626 4386	9.988 1963	17	702	
299	9.361 7897	321	9.373 5952	338	0.626 4048	9.988 1945	18	701	
		320		339			18		
.300	9.361 8217		9.373 6291		0.626 3709	9.988 1927		**.700**	
	cos	d	cotg	d	tang	sin	d	**76°**	P.P.

	340	339
1	34.0	33.9
2	68.0	67.8
3	102.0	101.7
4	136.0	135.6
5	170.0	169.5
6	204.0	203.4
7	238.0	237.3
8	272.0	271.2
9	306.0	305.1

	338	322
1	33.8	32.2
2	67.6	64.4
3	101.4	96.6
4	135.2	128.8
5	169.0	161.0
6	202.8	193.2
7	236.6	225.4
8	270.4	257.6
9	304.2	289.8

	321	320
1	32.1	32.0
2	64.2	64.0
3	96.3	96.0
4	128.4	128.0
5	160.5	160.0
6	192.6	192.0
7	224.7	224.0
8	256.8	256.0
9	288.9	288.0

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

$76^\circ.750 - 76^\circ.700$

13°.300 — 13°.350

13°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.361 8217		9.373 6291		0.626 3709	9.988 1927		.700	
		321		338			18		
301	9.361 8538		9.373 6629		0.626 3371	9.988 1909		699	
302	9.361 8859	321	9.373 6968	339	0.626 3032	9.988 1891	18	698	
303	9.361 9179	320	9.373 7306	338	0.626 2694	9.988 1873	18	697	
		321		339			18		
304	9.361 9500		9.373 7645		0.626 2355	9.988 1855		696	
305	9.361 9820	320	9.373 7983	338	0.626 2017	9.988 1837	18	695	
306	9.362 0141	321	9.373 8322	339	0.626 1678	9.988 1819	18	694	
		320		338			18		
307	9.362 0461		9.373 8660		0.626 1340	9.988 1801		693	
308	9.362 0782	321	9.373 8998	338	0.626 1002	9.988 1783	18	692	
309	9.362 1102	320	9.373 9337	339	0.626 0663	9.988 1765	18	691	
		321		338			18		
.310	9.362 1423		9.373 9675		0.626 0325	9.988 1747		.690	
		320		339			17		
311	9.362 1743		9.374 0014		0.625 9986	9.988 1730		689	
312	9.362 2063	320	9.374 0352	338	0.625 9648	9.988 1712	18	688	
313	9.362 2384	321	9.374 0690	338	0.625 9310	9.988 1694	18	687	
		320		338			18		
314	9.362 2704		9.374 1028		0.625 8972	9.988 1676		686	
315	9.362 3024	320	9.374 1367	339	0.625 8633	9.988 1658	18	685	
316	9.362 3345	321	9.374 1705	338	0.625 8295	9.988 1640	18	684	
		320		338			18		
317	9.362 3665		9.374 2043		0.625 7957	9.988 1622		683	
318	9.362 3985	320	9.374 2381	338	0.625 7619	9.988 1604	18	682	
319	9.362 4305	320	9.374 2719	338	0.625 7281	9.988 1586	18	681	
		320		338			18		
.320	9.362 4625		9.374 3057		0.625 6943	9.988 1568		.680	
		321		338			18		
321	9.362 4946		9.374 3395		0.625 6605	9.988 1550		679	
322	9.362 5266	320	9.374 3734	339	0.625 6266	9.988 1532	18	678	
323	9.362 5586	320	9.374 4072	338	0.625 5928	9.988 1514	18	677	
		320		338			18		
324	9.362 5906		9.374 4410		0.625 5590	9.988 1496		676	
325	9.362 6226	320	9.374 4748	338	0.625 5252	9.988 1478	18	675	
326	9.362 6546	320	9.374 5086	338	0.625 4914	9.988 1460	18	674	
		320		337			18		
327	9.362 6866		9.374 5423		0.625 4577	9.988 1442		673	
328	9.362 7186	320	9.374 5761	338	0.625 4239	9.988 1424	18	672	
329	9.362 7506	320	9.374 6099	338	0.625 3901	9.988 1407	17	671	
		320		338			18		
.330	9.362 7826		9.374 6437		0.625 3563	9.988 1389		.670	
		320		338			18		
331	9.362 8146		9.374 6775		0.625 3225	9.988 1371		669	
332	9.362 8465	319	9.374 7113	338	0.625 2887	9.988 1353	18	668	
333	9.362 8785	320	9.374 7451	338	0.625 2549	9.988 1335	18	667	
		320		337			18		
334	9.362 9105		9.374 7788		0.625 2212	9.988 1317		666	
335	9.362 9425	320	9.374 8126	338	0.625 1874	9.988 1299	18	665	
336	9.362 9745	320	9.374 8464	338	0.625 1536	9.988 1281	18	664	
		319		338			18		
337	9.363 0064		9.374 8802		0.625 1198	9.988 1263		663	
338	9.363 0384	320	9.374 9139	337	0.625 0861	9.988 1245	18	662	
339	9.363 0704	320	9.374 9477	338	0.625 0523	9.988 1227	18	661	
		319		338			18		
.340	9.363 1023		9.374 9815		0.625 0185	9.988 1209		.660	
		320		337			18		
341	9.363 1343		9.375 0152		0.624 9848	9.988 1191		659	
342	9.363 1663	320	9.375 0490	338	0.624 9510	9.988 1173	18	658	
343	9.363 1982	319	9.375 0827	337	0.624 9173	9.988 1155	18	657	
		320		338			18		
344	9.363 2302		9.375 1165		0.624 8835	9.988 1137		656	
345	9.363 2621	319	9.375 1502	337	0.624 8498	9.988 1119	18	655	
346	9.363 2941	320	9.375 1840	338	0.624 8160	9.988 1101	18	654	
		319		337			18		
347	9.363 3260		9.375 2177		0.624 7823	9.988 1083		653	
348	9.363 3580	320	9.375 2515	338	0.624 7485	9.988 1065	18	652	
349	9.363 3899	319	9.375 2852	337	0.624 7148	9.988 1047	18	651	
		320		338			18		
.350	9.363 4219		9.375 3190		0.624 6810	9.988 1029		.650	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	339	338
1	33.9	33.8
2	67.8	67.6
3	101.7	101.4
4	135.6	135.2
5	169.5	169.0
6	203.4	202.8
7	237.3	236.6
8	271.2	270.4
9	305.1	304.2

	337	321
1	33.7	32.1
2	67.4	64.2
3	101.1	96.3
4	134.8	128.4
5	168.5	160.5
6	202.2	192.6
7	235.9	224.7
8	269.6	256.8
9	303.3	288.9

	320	319
1	32.0	31.9
2	64.0	63.8
3	96.0	95.7
4	128.0	127.6
5	160.0	159.5
6	192.0	191.4
7	224.0	223.3
8	256.0	255.2
9	288.0	287.1

	18	17
1	1.8	1.7
2	3.6	3.4
3	5.4	5.1
4	7.2	6.8
5	9.0	8.5
6	10.8	10.2
7	12.6	11.9
8	14.4	13.6
9	16.2	15.3

76°.700 — 76°.650

$13^\circ.350 - 13^\circ.400$

13°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.363 4219		9.375 3190		0.624 6810	9.988 1029		.650	
		319		337			18		
351	9.363 4538		9.375 3527		0.624 6473	9.988 1011		649	
352	9.363 4858	320	9.375 3864	337	0.624 6136	9.988 0993	18	648	
353	9.363 5177	319	9.375 4202	338	0.624 5798	9.988 0975	18	647	
		319		337			18		
354	9.363 5496		9.375 4539		0.624 5461	9.988 0957		646	
355	9.363 5816	320	9.375 4876	337	0.624 5124	9.988 0939	18	645	
356	9.363 6135	319	9.375 5214	338	0.624 4786	9.988 0921	18	644	
		319		337			18		
357	9.363 6454		9.375 5551		0.624 4449	9.988 0903		643	
358	9.363 6773	319	9.375 5888	337	0.624 4112	9.988 0885	18	642	
359	9.363 7092	319	9.375 6225	337	0.624 3775	9.988 0867	18	641	
		320		337			18		
.360	9.363 7412		9.375 6562		0.624 3438	9.988 0849		.640	
		319		338			18		
361	9.363 7731		9.375 6900		0.624 3100	9.988 0831		639	
362	9.363 8050	319	9.375 7237	337	0.624 2763	9.988 0813	18	638	
363	9.363 8369	319	9.375 7574	337	0.624 2426	9.988 0795	18	637	
		319		337			18		
364	9.363 8688		9.375 7911		0.624 2089	9.988 0777		636	
365	9.363 9007	319	9.375 8248	337	0.624 1752	9.988 0759	18	635	
366	9.363 9326	319	9.375 8585	337	0.624 1415	9.988 0741	18	634	
		319		337			18		
367	9.363 9645		9.375 8922		0.624 1078	9.988 0723		633	
368	9.363 9964	319	9.375 9259	337	0.624 0741	9.988 0705	18	632	
369	9.364 0283	319	9.375 9596	337	0.624 0404	9.988 0687	18	631	
		319		337			18		
.370	9.364 0602		9.375 9933		0.624 0067	9.988 0669		.630	
		319		337			18		
371	9.364 0921		9.376 0270		0.623 9730	9.988 0651		629	
372	9.364 1240	319	9.376 0607	337	0.623 9393	9.988 0633	18	628	
373	9.364 1559	319	9.376 0944	337	0.623 9056	9.988 0615	18	627	
		318		336			18		
374	9.364 1877		9.376 1280		0.623 8720	9.988 0597		626	
375	9.364 2196	319	9.376 1617	337	0.623 8383	9.988 0579	18	625	
376	9.364 2515	319	9.376 1954	337	0.623 8046	9.988 0561	18	624	
		319		337			18		
377	9.364 2834		9.376 2291		0.623 7709	9.988 0543		623	
378	9.364 3152	318	9.376 2628	337	0.623 7372	9.988 0525	18	622	
379	9.364 3471	319	9.376 2964	336	0.623 7036	9.988 0507	18	621	
		319		337			18		
.380	9.364 3790		9.376 3301		0.623 6699	9.988 0489		.620	
		318		337			18		
381	9.364 4108		9.376 3638		0.623 6362	9.988 0471		619	
382	9.364 4427	319	9.376 3974	336	0.623 6026	9.988 0453	18	618	
383	9.364 4746	319	9.376 4311	337	0.623 5689	9.988 0435	18	617	
		318		337			18		
384	9.364 5064		9.376 4648		0.623 5352	9.988 0417		616	
385	9.364 5383	319	9.376 4984	336	0.623 5016	9.988 0399	18	615	
386	9.364 5701	318	9.376 5321	337	0.623 4679	9.988 0381	18	614	
		319		336			18		
387	9.364 6020		9.376 5657		0.623 4343	9.988 0363		613	
388	9.364 6338	318	9.376 5994	337	0.623 4006	9.988 0345	18	612	
389	9.364 6657	319	9.376 6330	336	0.623 3670	9.988 0326	19	611	
		318		337			18		
.390	9.364 6975		9.376 6667		0.623 3333	9.988 0308		.610	
		319		336			18		
391	9.364 7294		9.376 7003		0.623 2997	9.988 0290		609	
392	9.364 7612	318	9.376 7340	337	0.623 2660	9.988 0272	18	608	
393	9.364 7930	318	9.376 7676	336	0.623 2324	9.988 0254	18	607	
		319		336			18		
394	9.364 8249		9.376 8012		0.623 1988	9.988 0236		606	
395	9.364 8567	318	9.376 8349	337	0.623 1651	9.988 0218	18	605	
396	9.364 8885	318	9.376 8685	336	0.623 1315	9.988 0200	18	604	
		319		336			18		
397	9.364 9204		9.376 9021		0.623 0979	9.988 0182		603	
398	9.364 9522	318	9.376 9358	337	0.623 0642	9.988 0164	18	602	
399	9.364 9840	318	9.376 9694	336	0.623 0306	9.988 0146	18	601	
		318		336			18		
.400	9.365 0158		9.377 0030		0.622 9970	9.988 0128		.600	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	338	337
1	33.8	33.7
2	67.6	67.4
3	101.4	101.1
4	135.2	134.8
5	169.0	168.5
6	202.8	202.2
7	236.6	235.9
8	270.4	269.6
9	304.2	303.3

	336	320
1	33.6	32.0
2	67.2	64.0
3	100.8	96.0
4	134.4	128.0
5	168.0	160.0
6	201.6	192.0
7	235.2	224.0
8	268.8	256.0
9	302.4	288.0

	319	318
1	31.9	31.8
2	63.8	63.6
3	95.7	95.4
4	127.6	127.2
5	159.5	159.0
6	191.4	190.8
7	223.3	222.6
8	255.2	254.4
9	287.1	286.2

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

$76^\circ.650 - 76^\circ.600$

13°.400 — 13°.450

13°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.365 0158		9.377 0030		0.622 9970	9.988 0128		.600	
		318		336			18		
401	9.365 0476		9.377 0366		0.622 9634	9.988 0110		599	
402	9.365 0794	318	9.377 0703	337	0.622 9297	9.988 0092	18	598	
403	9.365 1113	319	9.377 1039	336	0.622 8961	9.988 0074	18	597	
		318		336			18		
404	9.365 1431		9.377 1375		0.622 8625	9.988 0056	18	596	
405	9.365 1749	318	9.377 1711	336	0.622 8289	9.988 0038	18	595	
406	9.365 2067	318	9.377 2047	336	0.622 7953	9.988 0020	19	594	
		318		336			18		
407	9.365 2385		9.377 2383		0.622 7617	9.988 0001	18	593	
408	9.365 2703	318	9.377 2719	336	0.622 7281	9.987 9983	18	592	
409	9.365 3021	318	9.377 3055	336	0.622 6945	9.987 9965	18	591	
		318		336			18		
.410	9.365 3339		9.377 3391		0.622 6609	9.987 9947	18	.590	
		318		336			18		
411	9.365 3657		9.377 3727		0.622 6273	9.987 9929	18	589	
412	9.365 3974	317	9.377 4063	336	0.622 5937	9.987 9911	18	588	
413	9.365 4292	318	9.377 4399	336	0.622 5601	9.987 9893	18	587	
		318		336			18		
414	9.365 4610		9.377 4735		0.622 5265	9.987 9875	18	586	
415	9.365 4928	318	9.377 5071	336	0.622 4929	9.987 9857	18	585	
416	9.365 5246	318	9.377 5407	336	0.622 4593	9.987 9839	18	584	
		317		336			18		
417	9.365 5563		9.377 5743		0.622 4257	9.987 9821	18	583	
418	9.365 5881	318	9.377 6079	336	0.622 3921	9.987 9803	18	582	
419	9.365 6199	318	9.377 6414	335	0.622 3586	9.987 9785	18	581	
		318		336			19		
.420	9.365 6517		9.377 6750		0.622 3250	9.987 9766	18	.580	
		317		336			18		
421	9.365 6834		9.377 7086		0.622 2914	9.987 9748	18	579	
422	9.365 7152	318	9.377 7422	336	0.622 2578	9.987 9730	18	578	
423	9.365 7470	318	9.377 7757	335	0.622 2243	9.987 9712	18	577	
		317		336			18		
424	9.365 7787		9.377 8093		0.622 1907	9.987 9694	18	576	
425	9.365 8105	318	9.377 8429	336	0.622 1571	9.987 9676	18	575	
426	9.365 8422	317	9.377 8764	335	0.622 1236	9.987 9658	18	574	
		318		336			18		
427	9.365 8740		9.377 9100		0.622 0900	9.987 9640	18	573	
428	9.365 9057	317	9.377 9435	335	0.622 0565	9.987 9622	18	572	
429	9.365 9375	318	9.377 9771	336	0.622 0229	9.987 9604	18	571	
		317		336			18		
.430	9.365 9692		9.378 0107		0.621 9893	9.987 9586		.570	
		318		335			19		
431	9.366 0010		9.378 0442		0.621 9558	9.987 9567	18	569	
432	9.366 0327	317	9.378 0778	336	0.621 9222	9.987 9549	18	568	
433	9.366 0644	317	9.378 1113	335	0.621 8887	9.987 9531	18	567	
		318		336			18		
434	9.366 0962		9.378 1449		0.621 8551	9.987 9513	18	566	
435	9.366 1279	317	9.378 1784	335	0.621 8216	9.987 9495	18	565	
436	9.366 1596	317	9.378 2119	335	0.621 7881	9.987 9477	18	564	
		318		336			18		
437	9.366 1914		9.378 2455		0.621 7545	9.987 9459	18	563	
438	9.366 2231	317	9.378 2790	335	0.621 7210	9.987 9441	18	562	
439	9.366 2548	317	9.378 3125	335	0.621 6875	9.987 9423	18	561	
		317		336			19		
.440	9.366 2865		9.378 3461		0.621 6539	9.987 9404	18	.560	
		317		335			18		
441	9.366 3182		9.378 3796		0.621 6204	9.987 9386	18	559	
442	9.366 3500	318	9.378 4131	335	0.621 5869	9.987 9368	18	558	
443	9.366 3817	317	9.378 4467	336	0.621 5533	9.987 9350	18	557	
		317		335			18		
444	9.366 4134		9.378 4802		0.621 5198	9.987 9332	18	556	
445	9.366 4451	317	9.378 5137	335	0.621 4863	9.987 9314	18	555	
446	9.366 4768	317	9.378 5472	335	0.621 4528	9.987 9296	18	554	
		317		335			18		
447	9.366 5085		9.378 5807		0.621 4193	9.987 9278	18	553	
448	9.366 5402	317	9.378 6142	335	0.621 3858	9.987 9260	19	552	
449	9.366 5719	317	9.378 6478	336	0.621 3522	9.987 9241	18	551	
		317		335					
.450	9.366 6036		9.378 6813		0.621 3187	9.987 9223		.550	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	337	336
1	33.7	33.6
2	67.4	67.2
3	101.1	100.8
4	134.8	134.4
5	168.5	168.0
6	202.2	201.6
7	235.9	235.2
8	269.6	268.8
9	303.3	302.4

	335	319
1	33.5	31.9
2	67.0	63.8
3	100.5	95.7
4	134.0	127.6
5	167.5	159.5
6	201.0	191.4
7	234.5	223.3
8	268.0	255.2
9	301.5	287.1

	318	317
1	31.8	31.7
2	63.6	63.4
3	95.4	95.1
4	127.2	126.8
5	159.0	158.5
6	190.8	190.2
7	222.6	221.9
8	254.4	253.6
9	286.2	285.3

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

76°.600 — 76°.550

$13^\circ.450 - 13^\circ.500$

13°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.366 6036		9.378 6813		0.621 3187	9.987 9223		·550	
		317		335			18		
451	9.366 6353		9.378 7148		0.621 2852	9.987 9205		549	
452	9.366 6670	317	9.378 7483	335	0.621 2517	9.987 9187	18	548	
453	9.366 6987	317	9.378 7818	335	0.621 2182	9.987 9169	18	547	
		316		335			18		
454	9.366 7303		9.378 8153		0.621 1847	9.987 9151		546	
455	9.366 7620	317	9.378 8488	335	0.621 1512	9.987 9133	18	545	
456	9.366 7937	317	9.378 8823	335	0.621 1177	9.987 9115	18	544	
		317		335			19		
457	9.366 8254		9.378 9158		0.621 0842	9.987 9096		543	
458	9.366 8571	317	9.378 9492	334	0.621 0508	9.987 9078	18	542	
459	9.366 8887	316	9.378 9827	335	0.621 0173	9.987 9060	18	541	
		317		335			18		
·460	9.366 9204		9.379 0162		0.620 9838	9.987 9042		·540	
		317		335			18		
461	9.366 9521		9.379 0497		0.620 9503	9.987 9024		539	
462	9.366 9837	316	9.379 0832	335	0.620 9168	9.987 9006	18	538	
463	9.367 0154	317	9.379 1167	335	0.620 8833	9.987 8988	18	537	
		317		334			19		
464	9.367 0471		9.379 1501		0.620 8499	9.987 8969		536	
465	9.367 0787	316	9.379 1836	335	0.620 8164	9.987 8951	18	535	
466	9.367 1104	317	9.379 2171	335	0.620 7829	9.987 8933	18	534	
		316		334			18		
467	9.367 1420		9.379 2505		0.620 7495	9.987 8915		533	
468	9.367 1737	317	9.379 2840	335	0.620 7160	9.987 8897	18	532	
469	9.367 2053	316	9.379 3175	335	0.620 6825	9.987 8879	18	531	
		317		334			19		
·470	9.367 2370		9.379 3509		0.620 6491	9.987 8860		·530	
		316		335			18		
471	9.367 2686		9.379 3844		0.620 6156	9.987 8842		529	
472	9.367 3003	317	9.379 4179	335	0.620 5821	9.987 8824	18	528	
473	9.367 3319	316	9.379 4513	334	0.620 5487	9.987 8806	18	527	
		316		335			18		
474	9.367 3635		9.379 4848		0.620 5152	9.987 8788		526	
475	9.367 3952	317	9.379 5182	334	0.620 4818	9.987 8770	18	525	
476	9.367 4268	316	9.379 5517	335	0.620 4483	9.987 8751	19	524	
		316		334			18		
477	9.367 4584		9.379 5851		0.620 4149	9.987 8733		523	
478	9.367 4901	317	9.379 6186	335	0.620 3814	9.987 8715	18	522	
479	9.367 5217	316	9.379 6520	334	0.620 3480	9.987 8697	18	521	
		316		334			18		
·480	9.367 5533		9.379 6854		0.620 3146	9.987 8679		·520	
		316		335			18		
481	9.367 5849		9.379 7189		0.620 2811	9.987 8661		519	
482	9.367 6166	317	9.379 7523	334	0.620 2477	9.987 8642	19	518	
483	9.367 6482	316	9.379 7857	334	0.620 2143	9.987 8624	18	517	
		316		335			18		
484	9.367 6798		9.379 8192		0.620 1808	9.987 8606		516	
485	9.367 7114	316	9.379 8526	334	0.620 1474	9.987 8588	18	515	
486	9.367 7430	316	9.379 8860	334	0.620 1140	9.987 8570	18	514	
		316		334			18		
487	9.367 7746		9.379 9194		0.620 0806	9.987 8552		513	
488	9.367 8062	316	9.379 9529	335	0.620 0471	9.987 8533	19	512	
489	9.367 8378	316	9.379 9863	334	0.620 0137	9.987 8515	18	511	
		316		334			18		
·490	9.367 8694		9.380 0197		0.619 9803	9.987 8497		·510	
		316		334			18		
491	9.367 9010		9.380 0531		0.619 9469	9.987 8479		509	
492	9.367 9326	316	9.380 0865	334	0.619 9135	9.987 8461	18	508	
493	9.367 9642	316	9.380 1199	334	0.619 8801	9.987 8443	18	507	
		316		334			19		
494	9.367 9958		9.380 1533		0.619 8467	9.987 8424		506	
495	9.368 0274	316	9.380 1867	334	0.619 8133	9.987 8406	18	505	
496	9.368 0589	315	9.380 2202	335	0.619 7798	9.987 8388	18	504	
		316		334			18		
497	9.368 0905		9.380 2536		0.619 7464	9.987 8370		503	
498	9.368 1221	316	9.380 2869	333	0.619 7131	9.987 8352	18	502	
499	9.368 1537	316	9.380 3203	334	0.619 6797	9.987 8333	19	501	
		316		334			18		
·500	9.368 1853		9.380 3537		0.619 6463	9.987 8315		·500	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	335	334
1	33.5	33.4
2	67.0	66.8
3	100.5	100.2
4	134.0	133.6
5	167.5	167.0
6	201.0	200.4
7	234.5	233.8
8	268.0	267.2
9	301.5	300.6

	333	317
1	33.3	31.7
2	66.6	63.4
3	99.9	95.1
4	133.2	126.8
5	166.5	158.5
6	199.8	190.2
7	233.1	221.9
8	266.4	253.6
9	299.7	285.3

	316	315
1	31.6	31.5
2	63.2	63.0
3	94.8	94.5
4	126.4	126.0
5	158.0	157.5
6	189.6	189.0
7	221.2	220.5
8	252.8	252.0
9	284.4	283.5

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

$76^\circ.550 - 76^\circ.500$

$13^\circ.500 - 13^\circ.550$

13°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.368 1853		9.380 3537		0.619 6463	9.987 8315		.500	
		315		334			18		
501	9.368 2168		9.380 3871		0.619 6129	9.987 8297		499	
502	9.368 2484	316	9.380 4205	334	0.619 5795	9.987 8279	18	498	
503	9.368 2800	316	9.380 4539	334	0.619 5461	9.987 8261	18	497	
		315		334			19		
504	9.368 3115		9.380 4873		0.619 5127	9.987 8242		496	
505	9.368 3431	316	9.380 5207	334	0.619 4793	9.987 8224	18	495	
506	9.368 3746	315	9.380 5540	333	0.619 4460	9.987 8206	18	494	
		316		334			18		
507	9.368 4062		9.380 5874		0.619 4126	9.987 8188		493	
508	9.368 4378	316	9.380 6208	334	0.619 3792	9.987 8170	18	492	
509	9.368 4693	315	9.380 6542	334	0.619 3458	9.987 8151	19	491	
		316		333			18		
.510	9.368 5009		9.380 6875		0.619 3125	9.987 8133		.490	
		315		334			18		
511	9.368 5324		9.380 7209		0.619 2791	9.987 8115		489	
512	9.368 5639	315	9.380 7543	334	0.619 2457	9.987 8097	18	488	
513	9.368 5955	316	9.380 7876	333	0.619 2124	9.987 8078	19	487	
		315		334			18		
514	9.368 6270		9.380 8210		0.619 1790	9.987 8060		486	
515	9.368 6586	316	9.380 8544	334	0.619 1456	9.987 8042	18	485	
516	9.368 6901	315	9.380 8877	333	0.619 1123	9.987 8024	18	484	
		315		334			18		
517	9.368 7216		9.380 9211		0.619 0789	9.987 8006		483	
518	9.368 7532	316	9.380 9544	333	0.619 0456	9.987 7987	19	482	
519	9.368 7847	315	9.380 9878	334	0.619 0122	9.987 7969	18	481	
		315		333			18		
.520	9.368 8162		9.381 0211		0.618 9789	9.987 7951		.480	
		315		334			18		
521	9.368 8477		9.381 0545		0.618 9455	9.987 7933		479	
522	9.368 8793	316	9.381 0878	333	0.618 9122	9.987 7914	19	478	
523	9.368 9108	315	9.381 1212	334	0.618 8788	9.987 7896	18	477	
		315		333			18		
524	9.368 9423		9.381 1545		0.618 8455	9.987 7878		476	
525	9.368 9738	315	9.381 1878	333	0.618 8122	9.987 7860	18	475	
526	9.369 0053	315	9.381 2212	334	0.618 7788	9.987 7842	18	474	
		315		333			19		
527	9.369 0368		9.381 2545		0.618 7455	9.987 7823		473	
528	9.369 0683	315	9.381 2878	333	0.618 7122	9.987 7805	18	472	
529	9.369 0998	315	9.381 3212	334	0.618 6788	9.987 7787	18	471	
		315		333			18		
.530	9.369 1313		9.381 3545		0.618 6455	9.987 7769		.470	
		315		333			19		
531	9.369 1628		9.381 3878		0.618 6122	9.987 7750		469	
532	9.369 1943	315	9.381 4211	333	0.618 5789	9.987 7732	18	468	
533	9.369 2258	315	9.381 4544	333	0.618 5456	9.987 7714	18	467	
		315		334			18		
534	9.369 2573		9.381 4878		0.618 5122	9.987 7696		466	
535	9.369 2888	315	9.381 5211	333	0.618 4789	9.987 7677	19	465	
536	9.369 3203	315	9.381 5544	333	0.618 4456	9.987 7659	18	464	
		315		333			18		
537	9.369 3518		9.381 5877		0.618 4123	9.987 7641		463	
538	9.369 3833	315	9.381 6210	333	0.618 3790	9.987 7623	18	462	
539	9.369 4147	314	9.381 6543	333	0.618 3457	9.987 7604	19	461	
		315		333			18		
.540	9.369 4462		9.381 6876		0.618 3124	9.987 7586		.460	
		315		333			18		
541	9.369 4777		9.381 7209		0.618 2791	9.987 7568		459	
542	9.369 5092	315	9.381 7542	333	0.618 2458	9.987 7550	18	458	
543	9.369 5406	314	9.381 7875	333	0.618 2125	9.987 7531	19	457	
		315		333			18		
544	9.369 5721		9.381 8208		0.618 1792	9.987 7513		456	
545	9.369 6036	315	9.381 8541	333	0.618 1459	9.987 7495	18	455	
546	9.369 6350	314	9.381 8874	333	0.618 1126	9.987 7477	18	454	
		315		333			19		
547	9.369 6665		9.381 9207		0.618 0793	9.987 7458		453	
548	9.369 6979	314	9.381 9539	332	0.618 0461	9.987 7440	18	452	
549	9.369 7294	315	9.381 9872	333	0.618 0128	9.987 7422	18	451	
		314		333			18		
.550	9.369 7608		9.382 0205		0.617 9795	9.987 7404		.450	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	334	333
1	33.4	33.3
2	66.8	66.6
3	100.2	99.9
4	133.6	133.2
5	167.0	166.5
6	200.4	199.8
7	233.8	233.1
8	267.2	266.4
9	300.6	299.7

	332	316
1	33.2	31.6
2	66.4	63.2
3	99.6	94.8
4	132.8	126.4
5	166.0	158.0
6	199.2	189.6
7	232.4	221.2
8	265.6	252.8
9	298.8	284.4

	315	314
1	31.5	31.4
2	63.0	62.8
3	94.5	94.2
4	126.0	125.6
5	157.5	157.0
6	189.0	188.4
7	220.5	219.8
8	252.0	251.2
9	283.5	282.6

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

$76^\circ.500 - 76^\circ.450$

$13^\circ.550 - 13^\circ.600$

13°	sin	d	tang	d	cotg	cos	d		P.P.
·550	9.369 7608		9.382 0205		0.617 9795	9.987 7404		·450	
		315		333			19		
551	9.369 7923		9.382 0538		0.617 9462	9.987 7385		449	
552	9.369 8237	314	9.382 0870	332	0.617 9130	9.987 7367	18	448	
553	9.369 8552	315	9.382 1203	333	0.617 8797	9.987 7349	18	447	
		314		333			19		
554	9.369 8866		9.382 1536		0.617 8464	9.987 7330		446	
555	9.369 9181	315	9.382 1869	333	0.617 8131	9.987 7312	18	445	
556	9.369 9495	314	9.382 2201	332	0.617 7799	9.987 7294	18	444	
		314		333			18		
557	9.369 9809		9.382 2534		0.617 7466	9.987 7276		443	
558	9.370 0124	315	9.382 2866	332	0.617 7134	9.987 7257	19	442	
559	9.370 0438	314	9.382 3199	333	0.617 6801	9.987 7239	18	441	
		314		333			18		
·560	9.370 0752		9.382 3532		0.617 6468	9.987 7221		·440	
		315		332			19		
561	9.370 1067		9.382 3864		0.617 6136	9.987 7202		439	
562	9.370 1381	314	9.382 4197	333	0.617 5803	9.987 7184	18	438	
563	9.370 1695	314	9.382 4529	332	0.617 5471	9.987 7166	18	437	
		314		333			18		
564	9.370 2009		9.382 4862		0.617 5138	9.987 7148		436	
565	9.370 2323	314	9.382 5194	332	0.617 4806	9.987 7129	19	435	
566	9.370 2638	315	9.382 5527	333	0.617 4473	9.987 7111	18	434	
		314		332			18		
567	9.370 2952		9.382 5859		0.617 4141	9.987 7093		433	
568	9.370 3266	314	9.382 6191	332	0.617 3809	9.987 7074	19	432	
569	9.370 3580	314	9.382 6524	333	0.617 3476	9.987 7056	18	431	
		314		332			18		
·570	9.370 3894		9.382 6856		0.617 3144	9.987 7038		·430	
		314		332			18		
571	9.370 4208		9.382 7188		0.617 2812	9.987 7020		429	
572	9.370 4522	314	9.382 7521	333	0.617 2479	9.987 7001	19	428	
573	9.370 4836	314	9.382 7853	332	0.617 2147	9.987 6983	18	427	
		314		332			18		
574	9.370 5150		9.382 8185		0.617 1815	9.987 6965		426	
575	9.370 5464	314	9.382 8517	332	0.617 1483	9.987 6946	19	425	
576	9.370 5778	314	9.382 8850	333	0.617 1150	9.987 6928	18	424	
		314		332			18		
577	9.370 6092		9.382 9182		0.617 0818	9.987 6910		423	
578	9.370 6405	313	9.382 9514	332	0.617 0486	9.987 6891	19	422	
579	9.370 6719	314	9.382 9846	332	0.617 0154	9.987 6873	18	421	
		314		332			18		
·580	9.370 7033		9.383 0178		0.616 9822	9.987 6855		·420	
		314		332			18		
581	9.370 7347		9.383 0510		0.616 9490	9.987 6837		419	
582	9.370 7661	314	9.383 0842	332	0.616 9158	9.987 6818	19	418	
583	9.370 7974	313	9.383 1174	332	0.616 8826	9.987 6800	18	417	
		314		332			18		
584	9.370 8288		9.383 1506		0.616 8494	9.987 6782		416	
585	9.370 8602	314	9.383 1838	332	0.616 8162	9.987 6763	19	415	
586	9.370 8915	313	9.383 2170	332	0.616 7830	9.987 6745	18	414	
		314		332			18		
587	9.370 9229		9.383 2502		0.616 7498	9.987 6727		413	
588	9.370 9543	314	9.383 2834	332	0.616 7166	9.987 6708	19	412	
589	9.370 9856	313	9.383 3166	332	0.616 6834	9.987 6690	18	411	
		314		332			18		
·590	9.371 0170		9.383 3498		0.616 6502	9.987 6672		·410	
		313		332			19		
591	9.371 0483		9.383 3830		0.616 6170	9.987 6653		409	
592	9.371 0797	314	9.383 4162	332	0.616 5838	9.987 6635	18	408	
593	9.371 1110	313	9.383 4494	332	0.616 5506	9.987 6617	18	407	
		314		331			19		
594	9.371 1424		9.383 4825		0.616 5175	9.987 6598		406	
595	9.371 1737	313	9.383 5157	332	0.616 4843	9.987 6580	18	405	
596	9.371 2051	314	9.383 5489	332	0.616 4511	9.987 6562	18	404	
		313		332			19		
597	9.371 2364		9.383 5821		0.616 4179	9.987 6543		403	
598	9.371 2677	313	9.383 6152	331	0.616 3848	9.987 6525	18	402	
599	9.371 2991	314	9.383 6484	332	0.616 3516	9.987 6507	18	401	
		313		332			19		
·600	9.371 3304		9.383 6816		0.616 3184	9.987 6488		·400	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	333	332
1	33.3	33.2
2	66.6	66.4
3	99.9	99.6
4	133.2	132.8
5	166.5	166.0
6	199.8	199.2
7	233.1	232.4
8	266.4	265.6
9	299.7	298.8

	331
1	33.1
2	66.2
3	99.3
4	132.4
5	165.5
6	198.6
7	231.7
8	264.8
9	297.9

	315	314
1	31.5	31.4
2	63.0	62.8
3	94.5	94.2
4	126.0	125.6
5	157.5	157.0
6	189.0	188.4
7	220.5	219.8
8	252.0	251.2
9	283.5	282.6

	313
1	31.3
2	62.6
3	93.9
4	125.2
5	156.5
6	187.8
7	219.1
8	250.4
9	281.7

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

$76^\circ.450 - 76^\circ.400$

13°.600 — 13°.650

13°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.371 3304		9.383 6816		0.616 3184	9.987 6488		.400	
		313		331			18		
601	9.371 3617		9.383 7147		0.616 2853	9.987 6470		399	
602	9.371 3931	314	9.383 7479	332	0.616 2521	9.987 6452	18	398	
603	9.371 4244	313	9.383 7811	332	0.616 2189	9.987 6433	19	397	
		313		331			18		
604	9.371 4557		9.383 8142		0.616 1858	9.987 6415		396	
605	9.371 4870	313	9.383 8474	332	0.616 1526	9.987 6397	18	395	
606	9.371 5184	314	9.383 8805	331	0.616 1195	9.987 6378	19	394	
		313		332			18		
607	9.371 5497		9.383 9137		0.616 0863	9.987 6360		393	
608	9.371 5810	313	9.383 9468	331	0.616 0532	9.987 6342	18	392	
609	9.371 6123	313	9.383 9800	332	0.616 0200	9.987 6323	19	391	
		313		331			18		
.610	9.371 6436		9.384 0131		0.615 9869	9.987 6305		.390	
		313		332			18		
611	9.371 6749		9.384 0463		0.615 9537	9.987 6287		389	
612	9.371 7062	313	9.384 0794	331	0.615 9206	9.987 6268	19	388	
613	9.371 7375	313	9.384 1125	331	0.615 8875	9.987 6250	18	387	
		313		332			18		
614	9.371 7688		9.384 1457		0.615 8543	9.987 6232		386	
615	9.371 8001	313	9.384 1788	331	0.615 8212	9.987 6213	19	385	
616	9.371 8314	313	9.384 2119	331	0.615 7881	9.987 6195	18	384	
		313		332			19		
617	9.371 8627		9.384 2451		0.615 7549	9.987 6176		383	
618	9.371 8940	313	9.384 2782	331	0.615 7218	9.987 6158	18	382	
619	9.371 9253	313	9.384 3113	331	0.615 6887	9.987 6140	18	381	
		313		331			19		
.620	9.371 9566		9.384 3444		0.615 6556	9.987 6121		.380	
		312		331			18		
621	9.371 9878		9.384 3775		0.615 6225	9.987 6103		379	
622	9.372 0191	313	9.384 4107	332	0.615 5893	9.987 6085	18	378	
623	9.372 0504	313	9.384 4438	331	0.615 5562	9.987 6066	19	377	
		313		331			18		
624	9.372 0817		9.384 4769		0.615 5231	9.987 6048		376	
625	9.372 1130	313	9.384 5100	331	0.615 4900	9.987 6030	18	375	
626	9.372 1442	312	9.384 5431	331	0.615 4569	9.987 6011	19	374	
		313		331			18		
627	9.372 1755		9.384 5762		0.615 4238	9.987 5993		373	
628	9.372 2068	313	9.384 6093	331	0.615 3907	9.987 5974	19	372	
629	9.372 2380	312	9.384 6424	331	0.615 3576	9.987 5956	18	371	
		313		331			18		
.630	9.372 2693		9.384 6755		0.615 3245	9.987 5938		.370	
		312		331			19		
631	9.372 3005		9.384 7086		0.615 2914	9.987 5919		369	
632	9.372 3318	313	9.384 7417	331	0.615 2583	9.987 5901	18	368	
633	9.372 3631	313	9.384 7748	331	0.615 2252	9.987 5882	19	367	
		312		331			18		
634	9.372 3943		9.384 8079		0.615 1921	9.987 5864		366	
635	9.372 4256	313	9.384 8410	331	0.615 1590	9.987 5846	18	365	
636	9.372 4568	312	9.384 8741	331	0.615 1259	9.987 5827	19	364	
		312		331			18		
637	9.372 4880		9.384 9072		0.615 0928	9.987 5809		363	
638	9.372 5193	313	9.384 9402	330	0.615 0598	9.987 5791	18	362	
639	9.372 5505	312	9.384 9733	331	0.615 0267	9.987 5772	19	361	
		313		331			18		
.640	9.372 5818		9.385 0064		0.614 9936	9.987 5754		.360	
		312		331			19		
641	9.372 6130		9.385 0395		0.614 9605	9.987 5735		359	
642	9.372 6442	312	9.385 0725	330	0.614 9275	9.987 5717	18	358	
643	9.372 6755	313	9.385 1056	331	0.614 8944	9.987 5699	18	357	
		312		331			19		
644	9.372 7067		9.385 1387		0.614 8613	9.987 5680		356	
645	9.372 7379	312	9.385 1717	330	0.614 8283	9.987 5662	18	355	
646	9.372 7691	312	9.385 2048	331	0.614 7952	9.987 5643	19	354	
		313		331			18		
647	9.372 8004		9.385 2379		0.614 7621	9.987 5625		353	
648	9.372 8316	312	9.385 2709	330	0.614 7291	9.987 5607	18	352	
649	9.372 8628	312	9.385 3040	331	0.614 6960	9.987 5588	19	351	
		312		330			18		
.650	9.372 8940		9.385 3370		0.614 6630	9.987 5570		.350	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	332	331
1	33.2	33.1
2	66.4	66.2
3	99.6	99.3
4	132.8	132.4
5	166.0	165.5
6	199.2	198.6
7	232.4	231.7
8	265.6	264.8
9	298.8	297.9

	330
1	33.0
2	66.0
3	99.0
4	132.0
5	165.0
6	198.0
7	231.0
8	264.0
9	297.0

	314	313
1	31.4	31.3
2	62.8	62.6
3	94.2	93.9
4	125.6	125.2
5	157.0	156.5
6	188.4	187.8
7	219.8	219.1
8	251.2	250.4
9	282.6	281.7

	312
1	31.2
2	62.4
3	93.6
4	124.8
5	156.0
6	187.2
7	218.4
8	249.6
9	280.8

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

76°.400 — 76°.350

13°.650 — 13°.700

13°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.372 8940		9.385 3370		0.614 6630	9.987 5570		.350	
		312		331			19		
651	9.372 9252		9.385 3701		0.614 6299	9.987 5551		349	
652	9.372 9564	312	9.385 4031	330	0.614 5969	9.987 5533	18	348	
653	9.372 9876	312	9.385 4362	331	0.614 5638	9.987 5515	18	347	
		312		330			19		
654	9.373 0188		9.385 4692		0.614 5308	9.987 5496		346	
655	9.373 0500	312	9.385 5023	331	0.614 4977	9.987 5478	18	345	
656	9.373 0812	312	9.385 5353	330	0.614 4647	9.987 5459	19	344	
		312		330			18		
657	9.373 1124		9.385 5683		0.614 4317	9.987 5441		343	
658	9.373 1436	312	9.385 6014	331	0.614 3986	9.987 5422	19	342	
659	9.373 1748	312	9.385 6344	330	0.614 3656	9.987 5404	18	341	
		312		330			18		
.660	9.373 2060		9.385 6674		0.614 3326	9.987 5386		.340	
		312		331			19		
661	9.373 2372		9.385 7005		0.614 2995	9.987 5367	18	339	
662	9.373 2684	312	9.385 7335	330	0.614 2665	9.987 5349		338	
663	9.373 2996	312	9.385 7665	330	0.614 2335	9.987 5330	19	337	
		311		331			18		
664	9.373 3307		9.385 7996		0.614 2004	9.987 5312		336	
665	9.373 3619	312	9.385 8326	330	0.614 1674	9.987 5293	19	335	
666	9.373 3931	312	9.385 8656	330	0.614 1344	9.987 5275	18	334	
		312		330			18		
667	9.373 4243		9.385 8986		0.614 1014	9.987 5257		333	
668	9.373 4554	311	9.385 9316	330	0.614 0684	9.987 5238	19	332	
669	9.373 4866	312	9.385 9646	330	0.614 0354	9.987 5220	18	331	
		312		330			19		
.670	9.373 5178		9.385 9976		0.614 0024	9.987 5201		.330	
		311		330			18		
671	9.373 5489		9.386 0306		0.613 9694	9.987 5183		329	
672	9.373 5801	312	9.386 0637	331	0.613 9363	9.987 5164	19	328	
673	9.373 6113	312	9.386 0967	330	0.613 9033	9.987 5146	18	327	
		311		330			18		
674	9.373 6424		9.386 1297		0.613 8703	9.987 5128		326	
675	9.373 6736	312	9.386 1627	330	0.613 8373	9.987 5109	19	325	
676	9.373 7047	311	9.386 1957	330	0.613 8043	9.987 5091	18	324	
		312		329			19		
677	9.373 7359		9.386 2286		0.613 7714	9.987 5072		323	
678	9.373 7670	311	9.386 2616	330	0.613 7384	9.987 5054	18	322	
679	9.373 7982	312	9.386 2946	330	0.613 7054	9.987 5035	19	321	
		311		330			18		
.680	9.373 8293		9.386 3276		0.613 6724	9.987 5017		.320	
		311		330			19		
681	9.373 8604		9.386 3606		0.613 6394	9.987 4998		319	
682	9.373 8916	312	9.386 3936	330	0.613 6064	9.987 4980	18	318	
683	9.373 9227	311	9.386 4266	330	0.613 5734	9.987 4962	18	317	
		311		329			19		
684	9.373 9538		9.386 4595		0.613 5405	9.987 4943		316	
685	9.373 9850	312	9.386 4925	330	0.613 5075	9.987 4925	18	315	
686	9.374 0161	311	9.386 5255	330	0.613 4745	9.987 4906	19	314	
		311		330			18		
687	9.374 0472		9.386 5585		0.613 4415	9.987 4888		313	
688	9.374 0784	312	9.386 5914	329	0.613 4086	9.987 4869	19	312	
689	9.374 1095	311	9.386 6244	330	0.613 3756	9.987 4851	18	311	
		311		330			19		
.690	9.374 1406		9.386 6574		0.613 3426	9.987 4832		.310	
		311		329			18		
691	9.374 1717		9.386 6903		0.613 3097	9.987 4814		309	
692	9.374 2028	311	9.386 7233	330	0.613 2767	9.987 4795	19	308	
693	9.374 2339	311	9.386 7562	329	0.613 2438	9.987 4777	18	307	
		311		330			19		
694	9.374 2650		9.386 7892		0.613 2108	9.987 4758		306	
695	9.374 2962	312	9.386 8222	330	0.613 1778	9.987 4740	18	305	
696	9.374 3273	311	9.386 8551	329	0.613 1449	9.987 4722	18	304	
		311		330			19		
697	9.374 3584		9.386 8881		0.613 1119	9.987 4703		303	
698	9.374 3895	311	9.386 9210	329	0.613 0790	9.987 4685	18	302	
699	9.374 4206	311	9.386 9539	329	0.613 0461	9.987 4666	19	301	
		311		330			18		
.700	9.374 4517		9.386 9869		0.613 0131	9.987 4648		.300	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	331	330
1	33.1	33.0
2	66.2	66.0
3	99.3	99.0
4	132.4	132.0
5	165.5	165.0
6	198.6	198.0
7	231.7	231.0
8	264.8	264.0
9	297.9	297.0

	329
1	32.9
2	65.8
3	98.7
4	131.6
5	164.5
6	197.4
7	230.3
8	263.2
9	296.1

	312	311
1	31.2	31.1
2	62.4	62.2
3	93.6	93.3
4	124.8	124.4
5	156.0	155.5
6	187.2	186.6
7	218.4	217.7
8	249.6	248.8
9	280.8	279.9

	19
1	1.9
2	3.8
3	5.7
4	7.6
5	9.5
6	11.4
7	13.3
8	15.2
9	17.1

	18
1	1.8
2	3.6
3	5.4
4	7.2
5	9.0
6	10.8
7	12.6
8	14.4
9	16.2

76°.350 — 76°.300

13°.700 — 13°.750

13°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.374 4517		9.386 9869		0.613 0131	9.987 4648		.300	
		310		329			19		
701	9.374 4827		9.387 0198		0.612 9802	9.987 4629		299	
702	9.374 5138	311	9.387 0528	330	0.612 9472	9.987 4611	18	298	
703	9.374 5449	311	9.387 0857	329	0.612 9143	9.987 4592	19	297	
		311		329			18		
704	9.374 5760		9.387 1186		0.612 8814	9.987 4574		296	
705	9.374 6071	311	9.387 1516	330	0.612 8484	9.987 4555	19	295	
706	9.374 6382	311	9.387 1845	329	0.612 8155	9.987 4537	18	294	
		311		329			19		
707	9.374 6693		9.387 2174		0.612 7826	9.987 4518		293	
708	9.374 7003	310	9.387 2504	330	0.612 7496	9.987 4500	18	292	
709	9.374 7314	311	9.387 2833	329	0.612 7167	9.987 4481	19	291	
		311		329			18		
.710	9.374 7625		9.387 3162		0.612 6838	9.987 4463		.290	
		310		329			19		
711	9.374 7935		9.387 3491		0.612 6509	9.987 4444		289	
712	9.374 8246	311	9.387 3820	329	0.612 6180	9.987 4426	18	288	
713	9.374 8557	311	9.387 4149	329	0.612 5851	9.987 4407	19	287	
		310		330			18		
714	9.374 8867		9.387 4479		0.612 5521	9.987 4389		286	
715	9.374 9178	311	9.387 4808	329	0.612 5192	9.987 4370	19	285	
716	9.374 9489	311	9.387 5137	329	0.612 4863	9.987 4352	18	284	
		310		329			19		
717	9.374 9799		9.387 5466		0.612 4534	9.987 4333		283	
718	9.375 0110	311	9.387 5795	329	0.612 4205	9.987 4315	18	282	
719	9.375 0420	310	9.387 6124	329	0.612 3876	9.987 4296	19	281	
		311		329			18		
.720	9.375 0731		9.387 6453		0.612 3547	9.987 4278		.280	
		310		329			19		
721	9.375 1041		9.387 6782		0.612 3218	9.987 4259		279	
722	9.375 1351	310	9.387 7111	329	0.612 2889	9.987 4241	18	278	
723	9.375 1662	311	9.387 7440	329	0.612 2560	9.987 4222	19	277	
		310		329			18		
724	9.375 1972		9.387 7769		0.612 2231	9.987 4204		276	
725	9.375 2283	311	9.387 8097	328	0.612 1903	9.987 4185	19	275	
726	9.375 2593	310	9.387 8426	329	0.612 1574	9.987 4167	18	274	
		310		329			19		
727	9.375 2903		9.387 8755		0.612 1245	9.987 4148		273	
728	9.375 3214	311	9.387 9084	329	0.612 0916	9.987 4130	18	272	
729	9.375 3524	310	9.387 9413	329	0.612 0587	9.987 4111	19	271	
		310		328			18		
.730	9.375 3834		9.387 9741		0.612 0259	9.987 4093		.270	
		310		329			19		
731	9.375 4144		9.388 0070		0.611 9930	9.987 4074		269	
732	9.375 4455	311	9.388 0399	329	0.611 9601	9.987 4056	18	268	
733	9.375 4765	310	9.388 0728	329	0.611 9272	9.987 4037	19	267	
		310		328			18		
734	9.375 5075		9.388 1056		0.611 8944	9.987 4019		266	
735	9.375 5385	310	9.388 1385	329	0.611 8615	9.987 4000	19	265	
736	9.375 5695	310	9.388 1714	329	0.611 8286	9.987 3982	18	264	
		310		328			19		
737	9.375 6005		9.388 2042		0.611 7958	9.987 3963		263	
738	9.375 6315	310	9.388 2371	329	0.611 7629	9.987 3944	19	262	
739	9.375 6625	310	9.388 2699	328	0.611 7301	9.987 3926	18	261	
		310		329			19		
.740	9.375 6935		9.388 3028		0.611 6972	9.987 3907		.260	
		310		328			18		
741	9.375 7245		9.388 3356		0.611 6644	9.987 3889		259	
742	9.375 7555	310	9.388 3685	329	0.611 6315	9.987 3870	19	258	
743	9.375 7865	310	9.388 4013	328	0.611 5987	9.987 3852	18	257	
		310		329			19		
744	9.375 8175		9.388 4342		0.611 5658	9.987 3833		256	
745	9.375 8485	310	9.388 4670	328	0.611 5330	9.987 3815	18	255	
746	9.375 8795	310	9.388 4999	329	0.611 5001	9.987 3796	19	254	
		310		328			18		
747	9.375 9105		9.388 5327		0.611 4673	9.987 3778		253	
748	9.375 9414	309	9.388 5655	328	0.611 4345	9.987 3759	19	252	
749	9.375 9724	310	9.388 5984	329	0.611 4016	9.987 3741	18	251	
		310		328			19		
.750	9.376 0034		9.388 6312		0.611 3688	9.987 3722		.250	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	330	329
1	33.0	32.9
2	66.0	65.8
3	99.0	98.7
4	132.0	131.6
5	165.0	164.5
6	198.0	197.4
7	231.0	230.3
8	264.0	263.2
9	297.0	296.1

	328
1	32.8
2	65.6
3	98.4
4	131.2
5	164.0
6	196.8
7	229.6
8	262.4
9	295.2

	311	310
1	31.1	31.0
2	62.2	62.0
3	93.3	93.0
4	124.4	124.0
5	155.5	155.0
6	186.6	186.0
7	217.7	217.0
8	248.8	248.0
9	279.9	279.0

	309
1	30.9
2	61.8
3	92.7
4	123.6
5	154.5
6	185.4
7	216.3
8	247.2
9	278.1

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

76°.300 — 76°.250

13°.750 — 13°.800

13°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.376 0034		9.388 6312		0.611 3688	9.987 3722		.250	
		310		328			19		
751	9.376 0344		9.388 6640		0.611 3360	9.987 3703		249	
752	9.376 0654	310	9.388 6969	329	0.611 3031	9.987 3685	18	248	
753	9.376 0963	309	9.388 7297	328	0.611 2703	9.987 3666	19	247	
		310		328			18		
754	9.376 1273		9.388 7625		0.611 2375	9.987 3648		246	
755	9.376 1583	310	9.388 7953	328	0.611 2047	9.987 3629	19	245	
756	9.376 1892	309	9.388 8282	329	0.611 1718	9.987 3611	18	244	
		310		328			19		
757	9.376 2202		9.388 8610		0.611 1390	9.987 3592		243	
758	9.376 2511	309	9.388 8938	328	0.611 1062	9.987 3574	18	242	
759	9.376 2821	310	9.388 9266	328	0.611 0734	9.987 3555	19	241	
		310		328			19		
.760	9.376 3131		9.388 9594		0.611 0406	9.987 3536		.240	
		309		328			18		
761	9.376 3440		9.388 9922		0.611 0078	9.987 3518		239	
762	9.376 3750	310	9.389 0250	328	0.610 9750	9.987 3499	19	238	
763	9.376 4059	309	9.389 0578	328	0.610 9422	9.987 3481	18	237	
		309		328			19		
764	9.376 4368		9.389 0906		0.610 9094	9.987 3462		236	
765	9.376 4678	310	9.389 1234	328	0.610 8766	9.987 3444	18	235	
766	9.376 4987	309	9.389 1562	328	0.610 8438	9.987 3425	19	234	
		310		328			19		
767	9.376 5297		9.389 1890		0.610 8110	9.987 3406		233	
768	9.376 5606	309	9.389 2218	328	0.610 7782	9.987 3388	18	232	
769	9.376 5915	309	9.389 2546	328	0.610 7454	9.987 3369	19	231	
		310		328			18		
.770	9.376 6225		9.389 2874		0.610 7126	9.987 3351		.230	
		309		328			19		
771	9.376 6534		9.389 3202		0.610 6798	9.987 3332		229	
772	9.376 6843	309	9.389 3530	328	0.610 6470	9.987 3314	18	228	
773	9.376 7152	309	9.389 3857	327	0.610 6143	9.987 3295	19	227	
		310		328			19		
774	9.376 7462		9.389 4185		0.610 5815	9.987 3276		226	
775	9.376 7771	309	9.389 4513	328	0.610 5487	9.987 3258	18	225	
776	9.376 8080	309	9.389 4841	328	0.610 5159	9.987 3239	19	224	
		309		327			18		
777	9.376 8389		9.389 5168		0.610 4832	9.987 3221		223	
778	9.376 8698	309	9.389 5496	328	0.610 4504	9.987 3202	19	222	
779	9.376 9007	309	9.389 5824	328	0.610 4176	9.987 3184	18	221	
		309		328			19		
.780	9.376 9316		9.389 6152		0.610 3848	9.987 3165		.220	
		309		327			19		
781	9.376 9625		9.389 6479		0.610 3521	9.987 3146		219	
782	9.376 9935	310	9.389 6807	328	0.610 3193	9.987 3128	18	218	
783	9.377 0244	309	9.389 7134	327	0.610 2866	9.987 3109	19	217	
		309		328			18		
784	9.377 0553		9.389 7462		0.610 2538	9.987 3091		216	
785	9.377 0861	308	9.389 7790	328	0.610 2210	9.987 3072	19	215	
786	9.377 1170	309	9.389 8117	327	0.610 1883	9.987 3053	19	214	
		309		328			18		
787	9.377 1479		9.389 8445		0.610 1555	9.987 3035		213	
788	9.377 1788	309	9.389 8772	327	0.610 1228	9.987 3016	19	212	
789	9.377 2097	309	9.389 9100	328	0.610 0900	9.987 2998	18	211	
		309		327			19		
.790	9.377 2406		9.389 9427		0.610 0573	9.987 2979		.210	
		309		327			19		
791	9.377 2715		9.389 9754		0.610 0246	9.987 2960		209	
792	9.377 3024	309	9.390 0082	328	0.609 9918	9.987 2942	18	208	
793	9.377 3332	308	9.390 0409	327	0.609 9591	9.987 2923	19	207	
		309		328			18		
794	9.377 3641		9.390 0737		0.609 9263	9.987 2905		206	
795	9.377 3950	309	9.390 1064	327	0.609 8936	9.987 2886	19	205	
796	9.377 4258	308	9.390 1391	327	0.609 8609	9.987 2867	19	204	
		309		327			18		
797	9.377 4567		9.390 1718		0.609 8282	9.987 2849		203	
798	9.377 4876	309	9.390 2046	328	0.609 7954	9.987 2830	19	202	
799	9.377 5184	308	9.390 2373	327	0.609 7627	9.987 2811	19	201	
		309		327			18		
.800	9.377 5493		9.390 2700		0.609 7300	9.987 2793		.200	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	329	328
1	32.9	32.8
2	65.8	65.6
3	98.7	98.4
4	131.6	131.2
5	164.5	164.0
6	197.4	196.8
7	230.3	229.6
8	263.2	262.4
9	296.1	295.2

	327
1	32.7
2	65.4
3	98.1
4	130.8
5	163.5
6	196.2
7	228.9
8	261.6
9	294.3

	310	309
1	31.0	30.9
2	62.0	61.8
3	93.0	92.7
4	124.0	123.6
5	155.0	154.5
6	186.0	185.4
7	217.0	216.3
8	248.0	247.2
9	279.0	278.1

	308
1	30.8
2	61.6
3	92.4
4	123.2
5	154.0
6	184.8
7	215.6
8	246.4
9	277.2

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

76°.250 — 76°.200

13°.800 — 13°.850

13°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.377 5493		9.390 2700		0.609 7300	9.987 2793		**.200**	
		309		327			19		
801	9.377 5802		9.390 3027		0.609 6973	9.987 2774		199	
802	9.377 6110	308	9.390 3355	328	0.609 6645	9.987 2756	18	198	
803	9.377 6419	309	9.390 3682	327	0.609 6318	9.987 2737	19	197	
		308		327			19		
804	9.377 6727		9.390 4009		0.609 5991	9.987 2718		196	
805	9.377 7036	309	9.390 4336	327	0.609 5664	9.987 2700	18	195	
806	9.377 7344	308	9.390 4663	327	0.609 5337	9.987 2681	19	194	
		309		327			19		
807	9.377 7653		9.390 4990		0.609 5010	9.987 2662		193	
808	9.377 7961	308	9.390 5317	327	0.609 4683	9.987 2644	18	192	
809	9.377 8269	308	9.390 5644	327	0.609 4356	9.987 2625	19	191	
		309		327			18		
.810	9.377 8578		9.390 5971		0.609 4029	9.987 2607		**.190**	
		308		327			19		
811	9.377 8886		9.390 6298		0.609 3702	9.987 2588		189	
812	9.377 9195	309	9.390 6625	327	0.609 3375	9.987 2569	19	188	
813	9.377 9503	308	9.390 6952	327	0.609 3048	9.987 2551	18	187	
		308		327			19		
814	9.377 9811		9.390 7279		0.609 2721	9.987 2532		186	
815	9.378 0119	308	9.390 7606	327	0.609 2394	9.987 2513	19	185	
816	9.378 0428	309	9.390 7933	327	0.609 2067	9.987 2495	18	184	
		308		327			19		
817	9.378 0736		9.390 8260		0.609 1740	9.987 2476		183	
818	9.378 1044	308	9.390 8587	327	0.609 1413	9.987 2457	19	182	
819	9.378 1352	308	9.390 8913	326	0.609 1087	9.987 2439	18	181	
		308		327			19		
.820	9.378 1660		9.390 9240		0.609 0760	9.987 2420		**.180**	
		308		327			18		
821	9.378 1968		9.390 9567		0.609 0433	9.987 2402		179	
822	9.378 2277	309	9.390 9894	327	0.609 0106	9.987 2383	19	178	
823	9.378 2585	308	9.391 0220	326	0.608 9780	9.987 2364	19	177	
		308		327			18		
824	9.378 2893		9.391 0547		0.608 9453	9.987 2346		176	
825	9.378 3201	308	9.391 0874	327	0.608 9126	9.987 2327	19	175	
826	9.378 3509	308	9.391 1200	326	0.608 8800	9.987 2308	19	174	
		308		327			18		
827	9.378 3817		9.391 1527		0.608 8473	9.987 2290		173	
828	9.378 4125	308	9.391 1854	327	0.608 8146	9.987 2271	19	172	
829	9.378 4433	308	9.391 2180	326	0.608 7820	9.987 2252	19	171	
		307		327			18		
.830	9.378 4740		9.391 2507		0.608 7493	9.987 2234		**.170**	
		308		326			19		
831	9.378 5048		9.391 2833		0.608 7167	9.987 2215		169	
832	9.378 5356	308	9.391 3160	327	0.608 6840	9.987 2196	19	168	
833	9.378 5664	308	9.391 3486	326	0.608 6514	9.987 2178	18	167	
		308		327			19		
834	9.378 5972		9.391 3813		0.608 6187	9.987 2159		166	
835	9.378 6280	308	9.391 4139	326	0.608 5861	9.987 2140	19	165	
836	9.378 6587	307	9.391 4466	327	0.608 5534	9.987 2122	18	164	
		308		326			19		
837	9.378 6895		9.391 4792		0.608 5208	9.987 2103		163	
838	9.378 7203	308	9.391 5119	327	0.608 4881	9.987 2084	19	162	
839	9.378 7511	308	9.391 5445	326	0.608 4555	9.987 2066	18	161	
		307		326			19		
.840	9.378 7818		9.391 5771		0.608 4229	9.987 2047		**.160**	
		308		327			19		
841	9.378 8126		9.391 6098		0.608 3902	9.987 2028		159	
842	9.378 8434	308	9.391 6424	326	0.608 3576	9.987 2010	18	158	
843	9.378 8741	307	9.391 6750	326	0.608 3250	9.987 1991	19	157	
		308		327			19		
844	9.378 9049		9.391 7077		0.608 2923	9.987 1972		156	
845	9.378 9356	307	9.391 7403	326	0.608 2597	9.987 1954	18	155	
846	9.378 9664	308	9.391 7729	326	0.608 2271	9.987 1935	19	154	
		307		326			19		
847	9.378 9971		9.391 8055		0.608 1945	9.987 1916		153	
848	9.379 0279	308	9.391 8381	326	0.608 1619	9.987 1898	18	152	
849	9.379 0586	307	9.391 8708	327	0.608 1292	9.987 1879	19	151	
		308		326			19		
.850	9.379 0894		9.391 9034		0.608 0966	9.987 1860		**.150**	
	cos	d	cotg	d	tang	sin	d	**76°**	P.P.

	328	327
1	32.8	32.7
2	65.6	65.4
3	98.4	98.1
4	131.2	130.8
5	164.0	163.5
6	196.8	196.2
7	229.6	228.9
8	262.4	261.6
9	295.2	294.3

	326
1	32.6
2	65.2
3	97.8
4	130.4
5	163.0
6	195.6
7	228.2
8	260.8
9	293.4

	309	308
1	30.9	30.8
2	61.8	61.6
3	92.7	92.4
4	123.6	123.2
5	154.5	154.0
6	185.4	184.8
7	216.3	215.6
8	247.2	246.4
9	278.1	277.2

	307
1	30.7
2	61.4
3	92.1
4	122.8
5	153.5
6	184.2
7	214.9
8	245.6
9	276.3

	19	18
1	1.9	1.8
2	3.8	3.6
3	5.7	5.4
4	7.6	7.2
5	9.5	9.0
6	11.4	10.8
7	13.3	12.6
8	15.2	14.4
9	17.1	16.2

76°.200 — 76°.150

13°.850 — 13°.900

13°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.379 0894		9.391 9034		0.608 0966	9.987 1860		.150	
		307		326			18		
851	9.379 1201		9.391 9360		0.608 0640	9.987 1842		149	
852	9.379 1509	308	9.391 9686	326	0.608 0314	9.987 1823	19	148	
853	9.379 1816	307	9.392 0012	326	0.607 9988	9.987 1804	19	147	
		307		326			19		
854	9.379 2123		9.392 0338		0.607 9662	9.987 1785		146	
855	9.379 2431	308	9.392 0664	326	0.607 9336	9.987 1767	18	145	
856	9.379 2738	307	9.392 0990	326	0.607 9010	9.987 1748	19	144	
		307		326			19		
857	9.379 3045		9.392 1316		0.607 8684	9.987 1729		143	
858	9.379 3353	308	9.392 1642	326	0.607 8358	9.987 1711	18	142	
859	9.379 3660	307	9.392 1968	326	0.607 8032	9.987 1692	19	141	
		307		326			19		
.860	9.379 3967		9.392 2294		0.607 7706	9.987 1673		.140	
		307		326			18		
861	9.379 4274		9.392 2620		0.607 7380	9.987 1655		139	
862	9.379 4581	307	9.392 2946	326	0.607 7054	9.987 1636	19	138	
863	9.379 4889	308	9.392 3272	326	0.607 6728	9.987 1617	19	137	
		307		325			19		
864	9.379 5196		9.392 3597		0.607 6403	9.987 1598		136	
865	9.379 5503	307	9.392 3923	326	0.607 6077	9.987 1580	18	135	
866	9.379 5810	307	9.392 4249	326	0.607 5751	9.987 1561	19	134	
		307		326			19		
867	9.379 6117		9.392 4575		0.607 5425	9.987 1542		133	
868	9.379 6424	307	9.392 4900	325	0.607 5100	9.987 1524	18	132	
869	9.379 6731	307	9.392 5226	326	0.607 4774	9.987 1505	19	131	
		307		326			19		
.870	9.379 7038		9.392 5552		0.607 4448	9.987 1486		.130	
		307		326			19		
871	9.379 7345		9.392 5878		0.607 4122	9.987 1467		129	
872	9.379 7652	307	9.392 6203	325	0.607 3797	9.987 1449	18	128	
873	9.379 7959	307	9.392 6529	326	0.607 3471	9.987 1430	19	127	
		307		325			19		
874	9.379 8266		9.392 6854		0.607 3146	9.987 1411		126	
875	9.379 8573	307	9.392 7180	326	0.607 2820	9.987 1393	18	125	
876	9.379 8879	306	9.392 7506	326	0.607 2494	9.987 1374	19	124	
		307		325			19		
877	9.379 9186		9.392 7831		0.607 2169	9.987 1355		123	
878	9.379 9493	307	9.392 8157	326	0.607 1843	9.987 1336	19	122	
879	9.379 9800	307	9.392 8482	325	0.607 1518	9.987 1318	18	121	
		307		326			19		
.880	9.380 0107		9.392 8808		0.607 1192	9.987 1299		.120	
		306		325			19		
881	9.380 0413		9.392 9133		0.607 0867	9.987 1280		119	
882	9.380 0720	307	9.392 9459	326	0.607 0541	9.987 1261	19	118	
883	9.380 1027	307	9.392 9784	325	0.607 0216	9.987 1243	18	117	
		306		325			19		
884	9.380 1333		9.393 0109		0.606 9891	9.987 1224		116	
885	9.380 1640	307	9.393 0435	326	0.606 9565	9.987 1205	19	115	
886	9.380 1947	307	9.393 0760	325	0.606 9240	9.987 1187	18	114	
		306		326			19		
887	9.380 2253		9.393 1086		0.606 8914	9.987 1168		113	
888	9.380 2560	307	9.393 1411	325	0.606 8589	9.987 1149	19	112	
889	9.380 2866	306	9.393 1736	325	0.606 8264	9.987 1130	19	111	
		307		325			18		
.890	9.380 3173		9.393 2061		0.606 7939	9.987 1112		.110	
		307		326			19		
891	9.380 3480		9.393 2387		0.606 7613	9.987 1093		109	
892	9.380 3786	306	9.393 2712	325	0.606 7288	9.987 1074	19	108	
893	9.380 4092	306	9.393 3037	325	0.606 6963	9.987 1055	19	107	
		307		325			18		
894	9.380 4399		9.393 3362		0.606 6638	9.987 1037		106	
895	9.380 4705	306	9.393 3687	325	0.606 6313	9.987 1018	19	105	
896	9.380 5012	307	9.393 4013	326	0.606 5987	9.987 0999	19	104	
		306		325			19		
897	9.380 5318		9.393 4338		0.606 5662	9.987 0980		103	
898	9.380 5624	306	9.393 4663	325	0.606 5337	9.987 0962	18	102	
899	9.380 5931	307	9.393 4988	325	0.606 5012	9.987 0943	19	101	
		306		325			19		
.900	9.380 6237		9.393 5313		0.606 4687	9.987 0924		.100	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	326	325
1	32.6	32.5
2	65.2	65.0
3	97.8	97.5
4	130.4	130.0
5	163.0	162.5
6	195.6	195.0
7	228.2	227.5
8	260.8	260.0
9	293.4	292.5

	308	307
1	30.8	30.7
2	61.6	61.4
3	92.4	92.1
4	123.2	122.8
5	154.0	153.5
6	184.8	184.2
7	215.6	214.9
8	246.4	245.6
9	277.2	276.3

	306
1	30.6
2	61.2
3	91.8
4	122.4
5	153.0
6	183.6
7	214.2
8	244.8
9	275.4

	19
1	1.9
2	3.8
3	5.7
4	7.6
5	9.5
6	11.4
7	13.3
8	15.2
9	17.1

	18
1	1.8
2	3.6
3	5.4
4	7.2
5	9.0
6	10.8
7	12.6
8	14.4
9	16.2

76°.150 — 76°.100

13°.900 — 13°.950

13°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.380 6237		9.393 5313		0.606 4687	9.987 0924		.100	
		306		325			19		
901	9.380 6543		9.393 5638		0.606 4362	9.987 0905		099	
902	9.380 6850	307	9.393 5963	325	0.606 4037	9.987 0887	18	098	
903	9.380 7156	306	9.393 6288	325	0.606 3712	9.987 0868	19	097	
		306		325			19		
904	9.380 7462		9.393 6613		0.606 3387	9.987 0849		096	
905	9.380 7768	306	9.393 6938	325	0.606 3062	9.987 0830	19	095	
906	9.380 8074	306	9.393 7263	325	0.606 2737	9.987 0811	19	094	
		306		325			18		
907	9.380 8380		9.393 7588		0.606 2412	9.987 0793		093	
908	9.380 8687	307	9.393 7913	325	0.606 2087	9.987 0774	19	092	
909	9.380 8993	306	9.393 8238	325	0.606 1762	9.987 0755	19	091	
		306		324			19		
.910	9.380 9299		9.393 8562		0.606 1438	9.987 0736		.090	
		306		325			18		
911	9.380 9605		9.393 8887		0.606 1113	9.987 0718		089	
912	9.380 9911	306	9.393 9212	325	0.606 0788	9.987 0699	19	088	
913	9.381 0217	306	9.393 9537	325	0.606 0463	9.987 0680	19	087	
		306		325			19		
914	9.381 0523		9.393 9862		0.606 0138	9.987 0661		086	
915	9.381 0829	306	9.394 0186	324	0.605 9814	9.987 0643	18	085	
916	9.381 1135	306	9.394 0511	325	0.605 9489	9.987 0624	19	084	
		306		325			19		
917	9.381 1441		9.394 0836		0.605 9164	9.987 0605		083	
918	9.381 1747	306	9.394 1160	324	0.605 8840	9.987 0586	19	082	
919	9.381 2052	305	9.394 1485	325	0.605 8515	9.987 0567	19	081	
		306		325			18		
.920	9.381 2358		9.394 1810		0.605 8190	9.987 0549		.080	
		306		324			19		
921	9.381 2664		9.394 2134		0.605 7866	9.987 0530		079	
922	9.381 2970	306	9.394 2459	325	0.605 7541	9.987 0511	19	078	
923	9.381 3276	306	9.394 2783	324	0.605 7217	9.987 0492	19	077	
		305		325			19		
924	9.381 3581		9.394 3108		0.605 6892	9.987 0473		076	
925	9.381 3887	306	9.394 3432	324	0.605 6568	9.987 0455	18	075	
926	9.381 4193	306	9.394 3757	325	0.605 6243	9.987 0436	19	074	
		305		324			19		
927	9.381 4498		9.394 4081		0.605 5919	9.987 0417		073	
928	9.381 4804	306	9.394 4406	325	0.605 5594	9.987 0398	19	072	
929	9.381 5110	306	9.394 4730	324	0.605 5270	9.987 0379	19	071	
		305		325			18		
.930	9.381 5415		9.394 5055		0.605 4945	9.987 0361		.070	
		306		324			19		
931	9.381 5721		9.394 5379		0.605 4621	9.987 0342		069	
932	9.381 6027	306	9.394 5703	324	0.605 4297	9.987 0323	19	068	
933	9.381 6332	305	9.394 6028	325	0.605 3972	9.987 0304	19	067	
		306		324			19		
934	9.381 6638		9.394 6352		0.605 3648	9.987 0285		066	
935	9.381 6943	305	9.394 6676	324	0.605 3324	9.987 0267	18	065	
936	9.381 7249	306	9.394 7001	325	0.605 2999	9.987 0248	19	064	
		305		324			19		
937	9.381 7554		9.394 7325		0.605 2675	9.987 0229		063	
938	9.381 7859	305	9.394 7649	324	0.605 2351	9.987 0210	19	062	
939	9.381 8165	306	9.394 7973	324	0.605 2027	9.987 0191	19	061	
		305		325			18		
.940	9.381 8470		9.394 8298		0.605 1702	9.987 0173		.060	
		306		324			19		
941	9.381 8776		9.394 8622		0.605 1378	9.987 0154		059	
942	9.381 9081	305	9.394 8946	324	0.605 1054	9.987 0135	19	058	
943	9.381 9386	305	9.394 9270	324	0.605 0730	9.987 0116	19	057	
		306		324			19		
944	9.381 9692		9.394 9594		0.605 0406	9.987 0097		056	
945	9.381 9997	305	9.394 9918	324	0.605 0082	9.987 0078	19	055	
946	9.382 0302	305	9.395 0242	324	0.604 9758	9.987 0060	18	054	
		305		324			19		
947	9.382 0607		9.395 0566		0.604 9434	9.987 0041		053	
948	9.382 0913	306	9.395 0890	324	0.604 9110	9.987 0022	19	052	
949	9.382 1218	305	9.395 1214	324	0.604 8786	9.987 0003	19	051	
		305		324			19		
.950	9.382 1523		9.395 1538		0.604 8462	9.986 9984		.050	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	325	324
1	32.5	32.4
2	65.0	64.8
3	97.5	97.2
4	130.0	129.6
5	162.5	162.0
6	195.0	194.4
7	227.5	226.8
8	260.0	259.2
9	292.5	291.6

	307	306
1	30.7	30.6
2	61.4	61.2
3	92.1	91.8
4	122.8	122.4
5	153.5	153.0
6	184.2	183.6
7	214.9	214.2
8	245.6	244.8
9	276.3	275.4

	305
1	30.5
2	61.0
3	91.5
4	122.0
5	152.5
6	183.0
7	213.5
8	244.0
9	274.5

	19
1	1.9
2	3.8
3	5.7
4	7.6
5	9.5
6	11.4
7	13.3
8	15.2
9	17.1

	18
1	1.8
2	3.6
3	5.4
4	7.2
5	9.0
6	10.8
7	12.6
8	14.4
9	16.2

76°.100 — 76°.050

13°.950 — 14°.000

13°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.382 1523		9.395 1538		0.604 8462	9.986 9984		.050	
		305		324			18		
951	9.382 1828		9.395 1862		0.604 8138	9.986 9966		049	
952	9.382 2133	305	9.395 2186	324	0.604 7814	9.986 9947	19	048	
953	9.382 2438	305	9.395 2510	324	0.604 7490	9.986 9928	19	047	
		305		324			19		
954	9.382 2743		9.395 2834		0.604 7166	9.986 9909		046	
955	9.382 3048	305	9.395 3158	324	0.604 6842	9.986 9890	19	045	
956	9.382 3353	305	9.395 3482	324	0.604 6518	9.986 9871	19	044	
		305		324			18		
957	9.382 3658		9.395 3806		0.604 6194	9.986 9853		043	
958	9.382 3963	305	9.395 4130	324	0.604 5870	9.986 9834	19	042	
959	9.382 4268	305	9.395 4453	323	0.604 5547	9.986 9815	19	041	
		305		324			19		
.960	9.382 4573		9.395 4777		0.604 5223	9.986 9796		.040	
		305		324			19		
961	9.382 4878		9.395 5101		0.604 4899	9.986 9777		039	
962	9.382 5183	305	9.395 5425	324	0.604 4575	9.986 9758	19	038	
963	9.382 5488	305	9.395 5748	323	0.604 4252	9.986 9739	19	037	
		305		324			18		
964	9.382 5793		9.395 6072		0.604 3928	9.986 9721		036	
965	9.382 6097	304	9.395 6396	324	0.604 3604	9.986 9702	19	035	
966	9.382 6402	305	9.395 6719	323	0.604 3281	9.986 9683	19	034	
		305		324			19		
967	9.382 6707		9.395 7043		0.604 2957	9.986 9664		033	
968	9.382 7012	305	9.395 7367	324	0.604 2633	9.986 9645	19	032	
969	9.382 7317	305	9.395 7690	323	0.604 2310	9.986 9626	19	031	
		304		324			18		
.970	9.382 7621		9.395 8014		0.604 1986	9.986 9608		.030	
		305		323			19		
971	9.382 7926		9.395 8337		0.604 1663	9.986 9589		029	
972	9.382 8231	305	9.395 8661	324	0.604 1339	9.986 9570	19	028	
973	9.382 8535	304	9.395 8984	323	0.604 1016	9.986 9551	19	027	
		305		324			19		
974	9.382 8840		9.395 9308		0.604 0692	9.986 9532		026	
975	9.382 9144	304	9.395 9631	323	0.604 0369	9.986 9513	19	025	
976	9.382 9449	305	9.395 9955	324	0.604 0045	9.986 9494	19	024	
		305		323			19		
977	9.382 9754		9.396 0278		0.603 9722	9.986 9475		023	
978	9.383 0058	304	9.396 0601	323	0.603 9399	9.986 9457	18	022	
979	9.383 0363	305	9.396 0925	324	0.603 9075	9.986 9438	19	021	
		304		323			19		
.980	9.383 0667		9.396 1248		0.603 8752	9.986 9419		.020	
		304		323			19		
981	9.383 0971		9.396 1571		0.603 8429	9.986 9400		019	
982	9.383 1276	305	9.396 1895	324	0.603 8105	9.986 9381	19	018	
983	9.383 1580	304	9.396 2218	323	0.603 7782	9.986 9362	19	017	
		305		323			19		
984	9.383 1885		9.396 2541		0.603 7459	9.986 9343		016	
985	9.383 2189	304	9.396 2865	324	0.603 7135	9.986 9325	18	015	
986	9.383 2493	304	9.396 3188	323	0.603 6812	9.986 9306	19	014	
		305		323			19		
987	9.383 2798		9.396 3511		0.603 6489	9.986 9287		013	
988	9.383 3102	304	9.396 3834	323	0.603 6166	9.986 9268	19	012	
989	9.383 3406	304	9.396 4157	323	0.603 5843	9.986 9249	19	011	
		305		323			19		
.990	9.383 3711		9.396 4480		0.603 5520	9.986 9230		.010	
		304		324			19		
991	9.383 4015		9.396 4804		0.603 5196	9.986 9211		009	
992	9.383 4319	304	9.396 5127	323	0.603 4873	9.986 9192	19	008	
993	9.383 4623	304	9.396 5450	323	0.603 4550	9.986 9173	19	007	
		304		323			18		
994	9.383 4927		9.396 5773		0.603 4227	9.986 9155		006	
995	9.383 5231	304	9.396 6096	323	0.603 3904	9.986 9136	19	005	
996	9.383 5536	305	9.396 6419	323	0.603 3581	9.986 9117	19	004	
		304		323			19		
997	9.383 5840		9.396 6742		0.603 3258	9.986 9098		003	
998	9.383 6144	304	9.396 7065	323	0.603 2935	9.986 9079	19	002	
999	9.383 6448	304	9.396 7388	323	0.603 2612	9.986 9060	19	001	
		304		323			19		
*.000	9.383 6752		9.396 7711		0.603 2289	9.986 9041		.000	
	cos	d	cotg	d	tang	sin	d	76°	P.P.

	324	323
1	32.4	32.3
2	64.8	64.6
3	97.2	96.9
4	129.6	129.2
5	162.0	161.5
6	194.4	193.8
7	226.8	226.1
8	259.2	258.4
9	291.6	290.7

	305
1	30.5
2	61.0
3	91.5
4	122.0
5	152.5
6	183.0
7	213.5
8	244.0
9	274.5

	304
1	30.4
2	60.8
3	91.2
4	121.6
5	152.0
6	182.4
7	212.8
8	243.2
9	273.6

	19
1	1.9
2	3.8
3	5.7
4	7.6
5	9.5
6	11.4
7	13.3
8	15.2
9	17.1

	18
1	1.8
2	3.6
3	5.4
4	7.2
5	9.0
6	10.8
7	12.6
8	14.4
9	16.2

76°.050 — 76°.000

14°.000 — 14°.050

14°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.383 6752		9.396 7711		0.603 2289	9.986 9041		*000	
		304		322			19		
001	9.383 7056		9.396 8033		0.603 1967	9.986 9022		999	
002	9.383 7360	304	9.396 8356	323	0.603 1644	9.986 9003	19	998	
003	9.383 7664	304	9.396 8679	323	0.603 1321	9.986 8984	19	997	
		304		323			18		
004	9.383 7968		9.396 9002		0.603 0998	9.986 8966		996	
005	9.383 8272	304	9.396 9325	323	0.603 0675	9.986 8947	19	995	
006	9.383 8575	303	9.396 9648	323	0.603 0352	9.986 8928	19	994	
		304		322			19		
007	9.383 8879		9.396 9970		0.603 0030	9.986 8909		993	
008	9.383 9183	304	9.397 0293	323	0.602 9707	9.986 8890	19	992	
009	9.383 9487	304	9.397 0616	323	0.602 9384	9.986 8871	19	991	
		304		323			19		
.010	9.383 9791		9.397 0939		0.602 9061	9.986 8852		.990	
		304		322			19		
011	9.384 0095		9.397 1261		0.602 8739	9.986 8833		989	
012	9.384 0398	303	9.397 1584	323	0.602 8416	9.986 8814	19	988	
013	9.384 0702	304	9.397 1907	323	0.602 8093	9.986 8795	19	987	
		304		322			19		
014	9.384 1006		9.397 2229		0.602 7771	9.986 8776		986	
015	9.384 1309	303	9.397 2552	323	0.602 7448	9.986 8758	18	985	
016	9.384 1613	304	9.397 2874	322	0.602 7126	9.986 8739	19	984	
		304		323			19		
017	9.384 1917		9.397 3197		0.602 6803	9.986 8720		983	
018	9.384 2220	303	9.397 3520	323	0.602 6480	9.986 8701	19	982	
019	9.384 2524	304	9.397 3842	322	0.602 6158	9.986 8682	19	981	
		303		323			19		
.020	9.384 2827		9.397 4165		0.602 5835	9.986 8663		.980	
		304		322			19		
021	9.384 3131		9.397 4487		0.602 5513	9.986 8644		979	
022	9.384 3435	304	9.397 4809	322	0.602 5191	9.986 8625	19	978	
023	9.384 3738	303	9.397 5132	323	0.602 4868	9.986 8606	19	977	
		304		322			19		
024	9.384 4042		9.397 5454		0.602 4546	9.986 8587		976	
025	9.384 4345	303	9.397 5777	323	0.602 4223	9.986 8568	19	975	
026	9.384 4648	303	9.397 6099	322	0.602 3901	9.986 8549	19	974	
		304		322			19		
027	9.384 4952		9.397 6421		0.602 3579	9.986 8530		973	
028	9.384 5255	303	9.397 6744	323	0.602 3256	9.986 8511	19	972	
029	9.384 5559	304	9.397 7066	322	0.602 2934	9.986 8493	18	971	
		303		322			19		
.030	9.384 5862		9.397 7388		0.602 2612	9.986 8474		.970	
		303		323			19		
031	9.384 6165		9.397 7711		0.602 2289	9.986 8455		969	
032	9.384 6469	304	9.397 8033	322	0.602 1967	9.986 8436	19	968	
033	9.384 6772	303	9.397 8355	322	0.602 1645	9.986 8417	19	967	
		303		322			19		
034	9.384 7075		9.397 8677		0.602 1323	9.986 8398		966	
035	9.384 7378	303	9.397 8999	322	0.602 1001	9.986 8379	19	965	
036	9.384 7682	304	9.397 9322	323	0.602 0678	9.986 8360	19	964	
		303		322			19		
037	9.384 7985		9.397 9644		0.602 0356	9.986 8341		963	
038	9.384 8288	303	9.397 9966	322	0.602 0034	9.986 8322	19	962	
039	9.384 8591	303	9.398 0288	322	0.601 9712	9.986 8303	19	961	
		303		322			19		
.040	9.384 8894		9.398 0610		0.601 9390	9.986 8284		.960	
		303		322			19		
041	9.384 9197		9.398 0932		0.601 9068	9.986 8265		959	
042	9.384 9500	303	9.398 1254	322	0.601 8746	9.986 8246	19	958	
043	9.384 9803	303	9.398 1576	322	0.601 8424	9.986 8227	19	957	
		303		322			19		
044	9.385 0106		9.398 1898		0.601 8102	9.986 8208		956	
045	9.385 0409	303	9.398 2220	322	0.601 7780	9.986 8189	19	955	
046	9.385 0712	303	9.398 2542	322	0.601 7458	9.986 8170	19	954	
		303		322			19		
047	9.385 1015		9.398 2864		0.601 7136	9.986 8151		953	
048	9.385 1318	303	9.398 3186	322	0.601 6814	9.986 8132	19	952	
049	9.385 1621	303	9.398 3508	322	0.601 6492	9.986 8113	19	951	
		303		322			19		
.050	9.385 1924		9.398 3830		0.601 6170	9.986 8094		.950	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	323	322
1	32.3	32.2
2	64.6	64.4
3	96.9	96.6
4	129.2	128.8
5	161.5	161.0
6	193.8	193.2
7	226.1	225.4
8	258.4	257.6
9	290.7	289.8

	304
1	30.4
2	60.8
3	91.2
4	121.6
5	152.0
6	182.4
7	212.8
8	243.2
9	273.6

	303
1	30.3
2	60.6
3	90.9
4	121.2
5	151.5
6	181.8
7	212.1
8	242.4
9	272.7

	19
1	1.9
2	3.8
3	5.7
4	7.6
5	9.5
6	11.4
7	13.3
8	15.2
9	17.1

	18
1	1.8
2	3.6
3	5.4
4	7.2
5	9.0
6	10.8
7	12.6
8	14.4
9	16.2

76°.000 — 75°.950

14°.050 — 14°.100

14°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.385 1924		9.398 3830		0.601 6170	9.986 8094		.950	
		303		322			18		
051	9.385 2227		9.398 4152		0.601 5848	9.986 8076		949	
052	9.385 2530	303	9.398 4473	321	0.601 5527	9.986 8057	19	948	
053	9.385 2833	303	9.398 4795	322	0.601 5205	9.986 8038	19	947	
		303		322			19		
054	9.385 3136		9.398 5117		0.601 4883	9.986 8019		946	
055	9.385 3438	302	9.398 5439	322	0.601 4561	9.986 8000	19	945	
056	9.385 3741	303	9.398 5760	321	0.601 4240	9.986 7981	19	944	
		303		322			19		
057	9.385 4044		9.398 6082		0.601 3918	9.986 7962		943	
058	9.385 4347	303	9.398 6404	322	0.601 3596	9.986 7943	19	942	
059	9.385 4649	302	9.398 6726	322	0.601 3274	9.986 7924	19	941	
		303		321			19		
.060	9.385 4952		9.398 7047		0.601 2953	9.986 7905		.940	
		303		322			19		
061	9.385 5255		9.398 7369		0.601 2631	9.986 7886		939	
062	9.385 5557	302	9.398 7690	321	0.601 2310	9.986 7867	19	938	
063	9.385 5860	303	9.398 8012	322	0.601 1988	9.986 7848	19	937	
		302		322			19		
064	9.385 6162		9.398 8334		0.601 1666	9.986 7829		936	
065	9.385 6465	303	9.398 8655	321	0.601 1345	9.986 7810	19	935	
066	9.385 6767	302	9.398 8977	322	0.601 1023	9.986 7791	19	934	
		303		321			19		
067	9.385 7070		9.398 9298		0.601 0702	9.986 7772		933	
068	9.385 7372	302	9.398 9620	322	0.601 0380	9.986 7753	19	932	
069	9.385 7675	303	9.398 9941	321	0.601 0059	9.986 7734	19	931	
		302		322			19		
.070	9.385 7977		9.399 0263		0.600 9737	9.986 7715		.930	
		303		321			19		
071	9.385 8280		9.399 0584		0.600 9416	9.986 7696		929	
072	9.385 8582	302	9.399 0905	321	0.600 9095	9.986 7677	19	928	
073	9.385 8885	303	9.399 1227	322	0.600 8773	9.986 7658	19	927	
		302		321			19		
074	9.385 9187		9.399 1548		0.600 8452	9.986 7639		926	
075	9.385 9489	302	9.399 1869	321	0.600 8131	9.986 7620	19	925	
076	9.385 9792	303	9.399 2191	322	0.600 7809	9.986 7601	19	924	
		302		321			19		
077	9.386 0094		9.399 2512		0.600 7488	9.986 7582		923	
078	9.386 0396	302	9.399 2833	321	0.600 7167	9.986 7563	19	922	
079	9.386 0698	302	9.399 3155	322	0.600 6845	9.986 7544	19	921	
		303		321			19		
.080	9.386 1001		9.399 3476		0.600 6524	9.986 7525		.920	
		302		321			19		
081	9.386 1303		9.399 3797		0.600 6203	9.986 7506		919	
082	9.386 1605	302	9.399 4118	321	0.600 5882	9.986 7487	19	918	
083	9.386 1907	302	9.399 4439	321	0.600 5561	9.986 7468	19	917	
		302		322			19		
084	9.386 2209		9.399 4761		0.600 5239	9.986 7449		916	
085	9.386 2511	302	9.399 5082	321	0.600 4918	9.986 7430	19	915	
086	9.386 2814	303	9.399 5403	321	0.600 4597	9.986 7411	19	914	
		302		321			19		
087	9.386 3116		9.399 5724		0.600 4276	9.986 7392		913	
088	9.386 3418	302	9.399 6045	321	0.600 3955	9.986 7373	19	912	
089	9.386 3720	302	9.399 6366	321	0.600 3634	9.986 7354	19	911	
		302		321			19		
.090	9.386 4022		9.399 6687		0.600 3313	9.986 7335		.910	
		302		321			19		
091	9.386 4324		9.399 7008		0.600 2992	9.986 7316		909	
092	9.386 4626	302	9.399 7329	321	0.600 2671	9.986 7297	19	908	
093	9.386 4928	302	9.399 7650	321	0.600 2350	9.986 7278	19	907	
		301		321			20		
094	9.386 5229		9.399 7971		0.600 2029	9.986 7258		906	
095	9.386 5531	302	9.399 8292	321	0.600 1708	9.986 7239	19	905	
096	9.386 5833	302	9.399 8613	321	0.600 1387	9.986 7220	19	904	
		302		321			19		
097	9.386 6135		9.399 8934		0.600 1066	9.986 7201		903	
098	9.386 6437	302	9.399 9255	321	0.600 0745	9.986 7182	19	902	
099	9.386 6739	302	9.399 9575	320	0.600 0425	9.986 7163	19	901	
		301		321			19		
.100	9.386 7040		9.399 9896		0.600 0104	9.986 7144		.900	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	322	321
1	32.2	32.1
2	64.4	64.2
3	96.6	96.3
4	128.8	128.4
5	161.0	160.5
6	193.2	192.6
7	225.4	224.7
8	257.6	256.8
9	289.8	288.9

	320	303
1	32.0	30.3
2	64.0	60.6
3	96.0	90.9
4	128.0	121.2
5	160.0	151.5
6	192.0	181.8
7	224.0	212.1
8	256.0	242.4
9	288.0	272.7

	302	301
1	30.2	30.1
2	60.4	60.2
3	90.6	90.3
4	120.8	120.4
5	151.0	150.5
6	181.2	180.6
7	211.4	210.7
8	241.6	240.8
9	271.8	270.9

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

	18
1	1.8
2	3.6
3	5.4
4	7.2
5	9.0
6	10.8
7	12.6
8	14.4
9	16.2

75°.950 — 75°.900

14°.100 — 14°.150

14°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.386 7040		9.399 9896		0.600 0104	9.986 7144		.900	
		302		321			19		
101	9.386 7342		9.400 0217		0.599 9783	9.986 7125		899	
102	9.386 7644	302	9.400 0538	321	0.599 9462	9.986 7106	19	898	
103	9.386 7946	302	9.400 0859	321	0.599 9141	9.986 7087	19	897	
		301		320			19		
104	9.386 8247		9.400 1179		0.599 8821	9.986 7068		896	
105	9.386 8549	302	9.400 1500	321	0.599 8500	9.986 7049	19	895	
106	9.386 8851	302	9.400 1821	321	0.599 8179	9.986 7030	19	894	
		301		320			19		
107	9.386 9152		9.400 2141		0.599 7859	9.986 7011		893	
108	9.386 9454	302	9.400 2462	321	0.599 7538	9.986 6992	19	892	
109	9.386 9755	301	9.400 2783	321	0.599 7217	9.986 6973	19	891	
		302		320			19		
.110	9.387 0057		9.400 3103		0.599 6897	9.986 6954		.890	
		302		321			19		
111	9.387 0359		9.400 3424		0.599 6576	9.986 6935		889	
112	9.387 0660	301	9.400 3744	320	0.599 6256	9.986 6916	19	888	
113	9.387 0962	302	9.400 4065	321	0.599 5935	9.986 6897	19	887	
		301		320			19		
114	9.387 1263		9.400 4385		0.599 5615	9.986 6878		886	
115	9.387 1564	301	9.400 4706	321	0.599 5294	9.986 6859	19	885	
116	9.387 1866	302	9.400 5026	320	0.599 4974	9.986 6839	20	884	
		301		321			19		
117	9.387 2167		9.400 5347		0.599 4653	9.986 6820		883	
118	9.387 2469	302	9.400 5667	320	0.599 4333	9.986 6801	19	882	
119	9.387 2770	301	9.400 5988	321	0.599 4012	9.986 6782	19	881	
		301		320			19		
.120	9.387 3071		9.400 6308		0.599 3692	9.986 6763		.880	
		302		321			19		
121	9.387 3373		9.400 6629		0.599 3371	9.986 6744		879	
122	9.387 3674	301	9.400 6949	320	0.599 3051	9.986 6725	19	878	
123	9.387 3975	301	9.400 7269	320	0.599 2731	9.986 6706	19	877	
		301		321			19		
124	9.387 4276		9.400 7590		0.599 2410	9.986 6687		876	
125	9.387 4578	302	9.400 7910	320	0.599 2090	9.986 6668	19	875	
126	9.387 4879	301	9.400 8230	320	0.599 1770	9.986 6649	19	874	
		301		320			19		
127	9.387 5180		9.400 8550		0.599 1450	9.986 6630		873	
128	9.387 5481	301	9.400 8871	321	0.599 1129	9.986 6611	19	872	
129	9.387 5782	301	9.400 9191	320	0.599 0809	9.986 6592	19	871	
		301		320			20		
.130	9.387 6083		9.400 9511		0.599 0489	9.986 6572		.870	
		302		320			19		
131	9.387 6385		9.400 9831		0.599 0169	9.986 6553		869	
132	9.387 6686	301	9.401 0151	320	0.598 9849	9.986 6534	19	868	
133	9.387 6987	301	9.401 0471	320	0.598 9529	9.986 6515	19	867	
		301		321			19		
134	9.387 7288		9.401 0792		0.598 9208	9.986 6496		866	
135	9.387 7589	301	9.401 1112	320	0.598 8888	9.986 6477	19	865	
136	9.387 7890	301	9.401 1432	320	0.598 8568	9.986 6458	19	864	
		301		320			19		
137	9.387 8191		9.401 1752		0.598 8248	9.986 6439		863	
138	9.387 8492	301	9.401 2072	320	0.598 7928	9.986 6420	19	862	
139	9.387 8792	300	9.401 2392	320	0.598 7608	9.986 6401	19	861	
		301		320			19		
.140	9.387 9093		9.401 2712		0.598 7288	9.986 6382		.860	
		301		320			20		
141	9.387 9394		9.401 3032		0.598 6968	9.986 6362		859	
142	9.387 9695	301	9.401 3352	320	0.598 6648	9.986 6343	19	858	
143	9.387 9996	301	9.401 3672	320	0.598 6328	9.986 6324	19	857	
		301		319			19		
144	9.388 0297		9.401 3991		0.598 6009	9.986 6305		856	
145	9.388 0597	300	9.401 4311	320	0.598 5689	9.986 6286	19	855	
146	9.388 0898	301	9.401 4631	320	0.598 5369	9.986 6267	19	854	
		301		320			19		
147	9.388 1199		9.401 4951		0.598 5049	9.986 6248		853	
148	9.388 1500	301	9.401 5271	320	0.598 4729	9.986 6229	19	852	
149	9.388 1800	300	9.401 5591	320	0.598 4409	9.986 6210	19	851	
		301		319			19		
.150	9.388 2101		9.401 5910		0.598 4090	9.986 6191		.850	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	321	320
1	32.1	32.0
2	64.2	64.0
3	96.3	96.0
4	128.4	128.0
5	160.5	160.0
6	192.6	192.0
7	224.7	224.0
8	256.8	256.0
9	288.9	288.0

	319
1	31.9
2	63.8
3	95.7
4	127.6
5	159.5
6	191.4
7	223.3
8	255.2
9	287.1

	302	301
1	30.2	30.1
2	60.4	60.2
3	90.6	90.3
4	120.8	120.4
5	151.0	150.5
6	181.2	180.6
7	211.4	210.7
8	241.6	240.8
9	271.8	270.9

	300
1	30.0
2	60.0
3	90.0
4	120.0
5	150.0
6	180.0
7	210.0
8	240.0
9	270.0

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

75°.900 — 75°.850

$14^\circ.150 - 14^\circ.200$

14°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.388 2101		9.401 5910		0.598 4090	9.986 6191		**.850**	
		301		320			20		
151	9.388 2402		9.401 6230		0.598 3770	9.986 6171		849	
152	9.388 2702	300	9.401 6550	320	0.598 3450	9.986 6152	19	848	
153	9.388 3003	301	9.401 6870	320	0.598 3130	9.986 6133	19	847	
		300		319			19		
154	9.388 3303		9.401 7189		0.598 2811	9.986 6114		846	
155	9.388 3604	301	9.401 7509	320	0.598 2491	9.986 6095	19	845	
156	9.388 3905	301	9.401 7829	320	0.598 2171	9.986 6076	19	844	
		300		319			19		
157	9.388 4205		9.401 8148		0.598 1852	9.986 6057		843	
158	9.388 4506	301	9.401 8468	320	0.598 1532	9.986 6038	19	842	
159	9.388 4806	300	9.401 8788	320	0.598 1212	9.986 6019	19	841	
		300		319			20		
.160	9.388 5106		9.401 9107		0.598 0893	9.986 5999		**.840**	
		301		320			19		
161	9.388 5407		9.401 9427		0.598 0573	9.986 5980		839	
162	9.388 5707	300	9.401 9746	319	0.598 0254	9.986 5961	19	838	
163	9.388 6008	301	9.402 0066	320	0.597 9934	9.986 5942	19	837	
		300		319			19		
164	9.388 6308		9.402 0385		0.597 9615	9.986 5923		836	
165	9.388 6608	300	9.402 0705	320	0.597 9295	9.986 5904	19	835	
166	9.388 6909	301	9.402 1024	319	0.597 8976	9.986 5885	19	834	
		300		319			20		
167	9.388 7209		9.402 1343		0.597 8657	9.986 5865		833	
168	9.388 7509	300	9.402 1663	320	0.597 8337	9.986 5846	19	832	
169	9.388 7810	301	9.402 1982	319	0.597 8018	9.986 5827	19	831	
		300		320			19		
.170	9.388 8110		9.402 2302		0.597 7698	9.986 5808		**.830**	
		300		319			19		
171	9.388 8410		9.402 2621		0.597 7379	9.986 5789		829	
172	9.388 8710	300	9.402 2940	319	0.597 7060	9.986 5770	19	828	
173	9.388 9010	300	9.402 3260	320	0.597 6740	9.986 5751	19	827	
		300		319			19		
174	9.388 9310		9.402 3579		0.597 6421	9.986 5732		826	
175	9.388 9611	301	9.402 3898	319	0.597 6102	9.986 5712	20	825	
176	9.388 9911	300	9.402 4217	319	0.597 5783	9.986 5693	19	824	
		300		320			19		
177	9.389 0211		9.402 4537		0.597 5463	9.986 5674		823	
178	9.389 0511	300	9.402 4856	319	0.597 5144	9.986 5655	19	822	
179	9.389 0811	300	9.402 5175	319	0.597 4825	9.986 5636	19	821	
		300		319			19		
.180	9.389 1111		9.402 5494		0.597 4506	9.986 5617		**.820**	
		300		319			20		
181	9.389 1411		9.402 5813		0.597 4187	9.986 5597		819	
182	9.389 1711	300	9.402 6132	319	0.597 3868	9.986 5578	19	818	
183	9.389 2011	300	9.402 6451	319	0.597 3549	9.986 5559	19	817	
		300		320			19		
184	9.389 2311		9.402 6771		0.597 3229	9.986 5540		816	
185	9.389 2610	299	9.402 7090	319	0.597 2910	9.986 5521	19	815	
186	9.389 2910	300	9.402 7409	319	0.597 2591	9.986 5502	19	814	
		300		319			19		
187	9.389 3210		9.402 7728		0.597 2272	9.986 5483		813	
188	9.389 3510	300	9.402 8047	319	0.597 1953	9.986 5463	20	812	
189	9.389 3810	300	9.402 8366	319	0.597 1634	9.986 5444	19	811	
		300		319			19		
.190	9.389 4110		9.402 8685		0.597 1315	9.986 5425		**.810**	
		299		318			19		
191	9.389 4409		9.402 9003		0.597 0997	9.986 5406		809	
192	9.389 4709	300	9.402 9322	319	0.597 0678	9.986 5387	19	808	
193	9.389 5009	300	9.402 9641	319	0.597 0359	9.986 5368	19	807	
		300		319			20		
194	9.389 5309		9.402 9960		0.597 0040	9.986 5348		806	
195	9.389 5608	299	9.403 0279	319	0.596 9721	9.986 5329	19	805	
196	9.389 5908	300	9.403 0598	319	0.596 9402	9.986 5310	19	804	
		299		319			19		
197	9.389 6207		9.403 0917		0.596 9083	9.986 5291		803	
198	9.389 6507	300	9.403 1235	318	0.596 8765	9.986 5272	19	802	
199	9.389 6807	300	9.403 1554	319	0.596 8446	9.986 5252	20	801	
		299		319			19		
.200	9.389 7106		9.403 1873		0.596 8127	9.986 5233		**.800**	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	320	319
1	32.0	31.9
2	64.0	63.8
3	96.0	95.7
4	128.0	127.6
5	160.0	159.5
6	192.0	191.4
7	224.0	223.3
8	256.0	255.2
9	288.0	287.1

	318
1	31.8
2	63.6
3	95.4
4	127.2
5	159.0
6	190.8
7	222.6
8	254.4
9	286.2

	301	300
1	30.1	30.0
2	60.2	60.0
3	90.3	90.0
4	120.4	120.0
5	150.5	150.0
6	180.6	180.0
7	210.7	210.0
8	240.8	240.0
9	270.9	270.0

	299
1	29.9
2	59.8
3	89.7
4	119.6
5	149.5
6	179.4
7	209.3
8	239.2
9	269.1

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

$75^\circ.850 - 75^\circ.800$

$14^\circ.200 - 14^\circ.250$

14°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.389 7106		9.403 1873		0.596 8127	9.986 5233		.800	
		300		319			19		
201	9.389 7406		9.403 2192		0.596 7808	9.986 5214		799	
		299		318			19		
202	9.389 7705		9.403 2510		0.596 7490	9.986 5195		798	
		300		319			19		
203	9.389 8005		9.403 2829		0.596 7171	9.986 5176		797	
		299		319			19		
204	9.389 8304		9.403 3148		0.596 6852	9.986 5157		796	
		300		318			20		
205	9.389 8604		9.403 3466		0.596 6534	9.986 5137		795	
		299		319			19		
206	9.389 8903		9.403 3785		0.596 6215	9.986 5118		794	
		300		319			19		
207	9.389 9203		9.403 4104		0.596 5896	9.986 5099		793	
		299		318			19		
208	9.389 9502		9.403 4422		0.596 5578	9.986 5080		792	
		299		319			19		
209	9.389 9801		9.403 4741		0.596 5259	9.986 5061		791	
		300		318			20		
.210	9.390 0101		9.403 5059		0.596 4941	9.986 5041		.790	
		299		319			19		
211	9.390 0400		9.403 5378		0.596 4622	9.986 5022		789	
		299		318			19		
212	9.390 0699		9.403 5696		0.596 4304	9.986 5003		788	
		300		319			19		
213	9.390 0999		9.403 6015		0.596 3985	9.986 4984		787	
		299		318			19		
214	9.390 1298		9.403 6333		0.596 3667	9.986 4965		786	
		299		319			20		
215	9.390 1597		9.403 6652		0.596 3348	9.986 4945		785	
		299		318			19		
216	9.390 1896		9.403 6970		0.596 3030	9.986 4926		784	
		299		318			19		
217	9.390 2195		9.403 7288		0.596 2712	9.986 4907		783	
		300		319			19		
218	9.390 2495		9.403 7607		0.596 2393	9.986 4888		782	
		299		318			19		
219	9.390 2794		9.403 7925		0.596 2075	9.986 4869		781	
		299		318			20		
.220	9.390 3093		9.403 8243		0.596 1757	9.986 4849		.780	
		299		319			19		
221	9.390 3392		9.403 8562		0.596 1438	9.986 4830		779	
		299		318			19		
222	9.390 3691		9.403 8880		0.596 1120	9.986 4811		778	
		299		318			19		
223	9.390 3990		9.403 9198		0.596 0802	9.986 4792		777	
		299		319			19		
224	9.390 4289		9.403 9517		0.596 0483	9.986 4773		776	
		299		318			20		
225	9.390 4588		9.403 9835		0.596 0165	9.986 4753		775	
		299		318			19		
226	9.390 4887		9.404 0153		0.595 9847	9.986 4734		774	
		299		318			19		
227	9.390 5186		9.404 0471		0.595 9529	9.986 4715		773	
		299		318			19		
228	9.390 5485		9.404 0789		0.595 9211	9.986 4696		772	
		299		319			19		
229	9.390 5784		9.404 1108		0.595 8892	9.986 4677		771	
		299		318			20		
.230	9.390 6083		9.404 1426		0.595 8574	9.986 4657		.770	
		299		318			19		
231	9.390 6382		9.404 1744		0.595 8256	9.986 4638		769	
		299		318			19		
232	9.390 6681		9.404 2062		0.595 7938	9.986 4619		768	
		299		318			19		
233	9.390 6980		9.404 2380		0.595 7620	9.986 4600		767	
		298		318			20		
234	9.390 7278		9.404 2698		0.595 7302	9.986 4580		766	
		299		318			19		
235	9.390 7577		9.404 3016		0.595 6984	9.986 4561		765	
		299		318			19		
236	9.390 7876		9.404 3334		0.595 6666	9.986 4542		764	
		299		318			19		
237	9.390 8175		9.404 3652		0.595 6348	9.986 4523		763	
		298		318			20		
238	9.390 8473		9.404 3970		0.595 6030	9.986 4503		762	
		299		318			19		
239	9.390 8772		9.404 4288		0.595 5712	9.986 4484		761	
		299		318			19		
.240	9.390 9071		9.404 4606		0.595 5394	9.986 4465		.760	
		298		318			19		
241	9.390 9369		9.404 4924		0.595 5076	9.986 4446		759	
		299		318			19		
242	9.390 9668		9.404 5242		0.595 4758	9.986 4427		758	
		299		317			20		
243	9.390 9967		9.404 5559		0.595 4441	9.986 4407		757	
		298		318			19		
244	9.391 0265		9.404 5877		0.595 4123	9.986 4388		756	
		299		318			19		
245	9.391 0564		9.404 6195		0.595 3805	9.986 4369		755	
		298		318			19		
246	9.391 0862		9.404 6513		0.595 3487	9.986 4350		754	
		299		318			20		
247	9.391 1161		9.404 6831		0.595 3169	9.986 4330		753	
		299		317			19		
248	9.391 1460		9.404 7148		0.595 2852	9.986 4311		752	
		298		318			19		
249	9.391 1758		9.404 7466		0.595 2534	9.986 4292		751	
		299		318			19		
.250	9.391 2057		9.404 7784		0.595 2216	9.986 4273		.750	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	319	318
1	31.9	31.8
2	63.8	63.6
3	95.7	95.4
4	127.6	127.2
5	159.5	159.0
6	191.4	190.8
7	223.3	222.6
8	255.2	254.4
9	287.1	286.2

	317
1	31.7
2	63.4
3	95.1
4	126.8
5	158.5
6	190.2
7	221.9
8	253.6
9	285.3

	300	299
1	30.0	29.9
2	60.0	59.8
3	90.0	89.7
4	120.0	119.6
5	150.0	149.5
6	180.0	179.4
7	210.0	209.3
8	240.0	239.2
9	270.0	269.1

	298
1	29.8
2	59.6
3	89.4
4	119.2
5	149.0
6	178.8
7	208.6
8	238.4
9	268.2

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

$75^\circ.800 - 75^\circ.750$

14°.250 — 14°.300

14°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.391 2057		9.404 7784		0.595 2216	9.986 4273		.750	
		298		318			20		
251	9.391 2355		9.404 8102		0.595 1898	9.986 4253		749	
252	9.391 2653	298	9.404 8419	317	0.595 1581	9.986 4234	19	748	
253	9.391 2952	299	9.404 8737	318	0.595 1263	9.986 4215	19	747	
		298		318			19		
254	9.391 3250		9.404 9055		0.595 0945	9.986 4196		746	
255	9.391 3549	299	9.404 9372	317	0.595 0628	9.986 4176	20	745	
256	9.391 3847	298	9.404 9690	318	0.595 0310	9.986 4157	19	744	
		298		317			19		
257	9.391 4145		9.405 0007		0.594 9993	9.986 4138		743	
258	9.391 4443	298	9.405 0325	318	0.594 9675	9.986 4119	19	742	
259	9.391 4742	299	9.405 0642	317	0.594 9358	9.986 4099	20	741	
		298		318			19		
.260	9.391 5040		9.405 0960		0.594 9040	9.986 4080		.740	
		298		318			19		
261	9.391 5338		9.405 1278		0.594 8722	9.986 4061		739	
262	9.391 5636	298	9.405 1595	317	0.594 8405	9.986 4041	20	738	
263	9.391 5935	299	9.405 1912	317	0.594 8088	9.986 4022	19	737	
		298		318			19		
264	9.391 6233		9.405 2230		0.594 7770	9.986 4003		736	
265	9.391 6531	298	9.405 2547	317	0.594 7453	9.986 3984	19	735	
266	9.391 6829	298	9.405 2865	318	0.594 7135	9.986 3964	20	734	
		298		317			19		
267	9.391 7127		9.405 3182		0.594 6818	9.986 3945		733	
268	9.391 7425	298	9.405 3499	317	0.594 6501	9.986 3926	19	732	
269	9.391 7723	298	9.405 3817	318	0.594 6183	9.986 3907	19	731	
		298		317			20		
.270	9.391 8021		9.405 4134		0.594 5866	9.986 3887		.730	
		298		317			19		
271	9.391 8319		9.405 4451		0.594 5549	9.986 3868		729	
272	9.391 8617	298	9.405 4769	318	0.594 5231	9.986 3849	19	728	
273	9.391 8915	298	9.405 5086	317	0.594 4914	9.986 3829	20	727	
		298		317			19		
274	9.391 9213		9.405 5403		0.594 4597	9.986 3810		726	
275	9.391 9511	298	9.405 5720	317	0.594 4280	9.986 3791	19	725	
276	9.391 9809	298	9.405 6037	317	0.594 3963	9.986 3772	19	724	
		298		318			20		
277	9.392 0107		9.405 6355		0.594 3645	9.986 3752		723	
278	9.392 0405	298	9.405 6672	317	0.594 3328	9.986 3733	19	722	
279	9.392 0703	298	9.405 6989	317	0.594 3011	9.986 3714	19	721	
		297		317			20		
.280	9.392 1000		9.405 7306		0.594 2694	9.986 3694		.720	
		298		317			19		
281	9.392 1298		9.405 7623		0.594 2377	9.986 3675		719	
282	9.392 1596	298	9.405 7940	317	0.594 2060	9.986 3656	19	718	
283	9.392 1894	298	9.405 8257	317	0.594 1743	9.986 3637	19	717	
		297		317			20		
284	9.392 2191		9.405 8574		0.594 1426	9.986 3617		716	
285	9.392 2489	298	9.405 8891	317	0.594 1109	9.986 3598	19	715	
286	9.392 2787	298	9.405 9208	317	0.594 0792	9.986 3579	19	714	
		298		317			20		
287	9.392 3085		9.405 9525		0.594 0475	9.986 3559		713	
288	9.392 3382	297	9.405 9842	317	0.594 0158	9.986 3540	19	712	
289	9.392 3680	298	9.406 0159	317	0.593 9841	9.986 3521	19	711	
		297		317			20		
.290	9.392 3977		9.406 0476		0.593 9524	9.986 3501		.710	
		298		317			19		
291	9.392 4275		9.406 0793		0.593 9207	9.986 3482		709	
292	9.392 4573	298	9.406 1110	317	0.593 8890	9.986 3463	19	708	
293	9.392 4870	297	9.406 1427	317	0.593 8573	9.986 3443	20	707	
		298		316			19		
294	9.392 5168		9.406 1743		0.593 8257	9.986 3424		706	
295	9.392 5465	297	9.406 2060	317	0.593 7940	9.986 3405	19	705	
296	9.392 5763	298	9.406 2377	317	0.593 7623	9.986 3386	19	704	
		297		317			20		
297	9.392 6060		9.406 2694		0.593 7306	9.986 3366		703	
298	9.392 6357	297	9.406 3010	316	0.593 6990	9.986 3347	19	702	
299	9.392 6655	298	9.406 3327	317	0.593 6673	9.986 3328	19	701	
		297		317			20		
.300	9.392 6952		9.406 3644		0.593 6356	9.986 3308		.700	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	318	317
1	31.8	31.7
2	63.6	63.4
3	95.4	95.1
4	127.2	126.8
5	159.0	158.5
6	190.8	190.2
7	222.6	221.9
8	254.4	253.6
9	286.2	285.3

	316
1	31.6
2	63.2
3	94.8
4	126.4
5	158.0
6	189.6
7	221.2
8	252.8
9	284.4

	299	298
1	29.9	29.8
2	59.8	59.6
3	89.7	89.4
4	119.6	119.2
5	149.5	149.0
6	179.4	178.8
7	209.3	208.6
8	239.2	238.4
9	269.1	268.2

	297
1	29.7
2	59.4
3	89.1
4	118.8
5	148.5
6	178.2
7	207.9
8	237.6
9	267.3

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

75°.750 — 75°.700

$14^\circ.300 - 14^\circ.350$

14°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.392 6952		9.406 3644		0.593 6356	9.986 3308		.700	
		298		317			19		
301	9.392 7250		9.406 3961		0.593 6039	9.986 3289		699	
302	9.392 7547	297	9.406 4277	316	0.593 5723	9.986 3270	19	698	
303	9.392 7844	297	9.406 4594	317	0.593 5406	9.986 3250	20	697	
		297		316			19		
304	9.392 8141		9.406 4910		0.593 5090	9.986 3231		696	
305	9.392 8439	298	9.406 5227	317	0.593 4773	9.986 3212	19	695	
306	9.392 8736	297	9.406 5544	317	0.593 4456	9.986 3192	20	694	
		297		316			19		
307	9.392 9033		9.406 5860		0.593 4140	9.986 3173		693	
308	9.392 9330	297	9.406 6177	317	0.593 3823	9.986 3154	19	692	
309	9.392 9628	298	9.406 6493	316	0.593 3507	9.986 3134	20	691	
		297		317			19		
.310	9.392 9925		9.406 6810		0.593 3190	9.986 3115		.690	
		297		316			19		
311	9.393 0222		9.406 7126		0.593 2874	9.986 3096		689	
312	9.393 0519	297	9.406 7443	317	0.593 2557	9.986 3076	20	688	
313	9.393 0816	297	9.406 7759	316	0.593 2241	9.986 3057	19	687	
		297		317			19		
314	9.393 1113		9.406 8076		0.593 1924	9.986 3038		686	
315	9.393 1410	297	9.406 8392	316	0.593 1608	9.986 3018	20	685	
316	9.393 1707	297	9.406 8708	316	0.593 1292	9.986 2999	19	684	
		297		317			19		
317	9.393 2004		9.406 9025		0.593 0975	9.986 2980		683	
318	9.393 2301	297	9.406 9341	316	0.593 0659	9.986 2960	20	682	
319	9.393 2598	297	9.406 9657	316	0.593 0343	9.986 2941	19	681	
		297		317			19		
.320	9.393 2895		9.406 9974		0.593 0026	9.986 2922		.680	
		297		316			20		
321	9.393 3192		9.407 0290		0.592 9710	9.986 2902		679	
322	9.393 3489	297	9.407 0606	316	0.592 9394	9.986 2883	19	678	
323	9.393 3786	297	9.407 0922	316	0.592 9078	9.986 2864	19	677	
		297		317			20		
324	9.393 4083		9.407 1239		0.592 8761	9.986 2844		676	
325	9.393 4380	297	9.407 1555	316	0.592 8445	9.986 2825	19	675	
326	9.393 4676	296	9.407 1871	316	0.592 8129	9.986 2805	20	674	
		297		316			19		
327	9.393 4973		9.407 2187		0.592 7813	9.986 2786		673	
328	9.393 5270	297	9.407 2503	316	0.592 7497	9.986 2767	19	672	
329	9.393 5567	297	9.407 2819	316	0.592 7181	9.986 2747	20	671	
		297		317			19		
.330	9.393 5864		9.407 3136		0.592 6864	9.986 2728		.670	
		296		316			19		
331	9.393 6160		9.407 3452		0.592 6548	9.986 2709		669	
332	9.393 6457	297	9.407 3768	316	0.592 6232	9.986 2689	20	668	
333	9.393 6754	297	9.407 4084	316	0.592 5916	9.986 2670	19	667	
		296		316			19		
334	9.393 7050		9.407 4400		0.592 5600	9.986 2651		666	
335	9.393 7347	297	9.407 4716	316	0.592 5284	9.986 2631	20	665	
336	9.393 7643	296	9.407 5032	316	0.592 4968	9.986 2612	19	664	
		297		316			20		
337	9.393 7940		9.407 5348		0.592 4652	9.986 2592		663	
338	9.393 8237	297	9.407 5664	316	0.592 4336	9.986 2573	19	662	
339	9.393 8533	296	9.407 5979	315	0.592 4021	9.986 2554	19	661	
		297		316			20		
.340	9.393 8830		9.407 6295		0.592 3705	9.986 2534		.660	
		296		316			19		
341	9.393 9126		9.407 6611		0.592 3389	9.986 2515		659	
342	9.393 9423	297	9.407 6927	316	0.592 3073	9.986 2496	19	658	
343	9.393 9719	296	9.407 7243	316	0.592 2757	9.986 2476	20	657	
		297		316			19		
344	9.394 0016		9.407 7559		0.592 2441	9.986 2457		656	
345	9.394 0312	296	9.407 7875	316	0.592 2125	9.986 2437	20	655	
346	9.394 0608	296	9.407 8190	315	0.592 1810	9.986 2418	19	654	
		297		316			19		
347	9.394 0905		9.407 8506		0.592 1494	9.986 2399		653	
348	9.394 1201	296	9.407 8822	316	0.592 1178	9.986 2379	20	652	
349	9.394 1497	296	9.407 9137	315	0.592 0863	9.986 2360	19	651	
		297		316			20		
.350	9.394 1794		9.407 9453		0.592 0547	9.986 2340		.650	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	317	316
1	31.7	31.6
2	63.4	63.2
3	95.1	94.8
4	126.8	126.4
5	158.5	158.0
6	190.2	189.6
7	221.9	221.2
8	253.6	252.8
9	285.3	284.4

	315
1	31.5
2	63.0
3	94.5
4	126.0
5	157.5
6	189.0
7	220.5
8	252.0
9	283.5

	298	297
1	29.8	29.7
2	59.6	59.4
3	89.4	89.1
4	119.2	118.8
5	149.0	148.5
6	178.8	178.2
7	208.6	207.9
8	238.4	237.6
9	268.2	267.3

	296
1	29.6
2	59.2
3	88.8
4	118.4
5	148.0
6	177.6
7	207.2
8	236.8
9	266.4

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

$75^\circ.700 - 75^\circ.650$

$14^\circ.350 - 14^\circ.400$

14°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.394 1794		9.407 9453		0.592 0547	9.986 2340		**.650**	
		296		316			19		
351	9.394 2090		9.407 9769		0.592 0231	9.986 2321		649	
352	9.394 2386	296	9.408 0084	315	0.591 9916	9.986 2302	19	648	
353	9.394 2682	296	9.408 0400	316	0.591 9600	9.986 2282	20	647	
		297		316			19		
354	9.394 2979		9.408 0716		0.591 9284	9.986 2263		646	
355	9.394 3275	296	9.408 1031	315	0.591 8969	9.986 2243	20	645	
356	9.394 3571	296	9.408 1347	316	0.591 8653	9.986 2224	19	644	
		296		315			19		
357	9.394 3867		9.408 1662		0.591 8338	9.986 2205		643	
358	9.394 4163	296	9.408 1978	316	0.591 8022	9.986 2185	20	642	
359	9.394 4459	296	9.408 2293	315	0.591 7707	9.986 2166	19	641	
		296		316			20		
.360	9.394 4755		9.408 2609		0.591 7391	9.986 2146		**.640**	
		297		315			19		
361	9.394 5052		9.408 2924		0.591 7076	9.986 2127		639	
362	9.394 5348	296	9.408 3240	316	0.591 6760	9.986 2108	19	638	
363	9.394 5644	296	9.408 3555	315	0.591 6445	9.986 2088	20	637	
		296		316			19		
364	9.394 5940		9.408 3871		0.591 6129	9.986 2069		636	
365	9.394 6236	296	9.408 4186	315	0.591 5814	9.986 2049	20	635	
366	9.394 6532	296	9.408 4501	315	0.591 5499	9.986 2030	19	634	
		295		316			19		
367	9.394 6827		9.408 4817		0.591 5183	9.986 2011		633	
368	9.394 7123	296	9.408 5132	315	0.591 4868	9.986 1991	20	632	
369	9.394 7419	296	9.408 5447	315	0.591 4553	9.986 1972	19	631	
		296		316			20		
.370	9.394 7715		9.408 5763		0.591 4237	9.986 1952		**.630**	
		296		315			19		
371	9.394 8011		9.408 6078		0.591 3922	9.986 1933		629	
372	9.394 8307	296	9.408 6393	315	0.591 3607	9.986 1914	19	628	
373	9.394 8603	296	9.408 6709	316	0.591 3291	9.986 1894	20	627	
		295		315			19		
374	9.394 8898		9.408 7024		0.591 2976	9.986 1875		626	
375	9.394 9194	296	9.408 7339	315	0.591 2661	9.986 1855	20	625	
376	9.394 9490	296	9.408 7654	315	0.591 2346	9.986 1836	19	624	
		296		315			20		
377	9.394 9786		9.408 7969		0.591 2031	9.986 1816		623	
378	9.395 0081	295	9.408 8284	315	0.591 1716	9.986 1797	19	622	
379	9.395 0377	296	9.408 8599	315	0.591 1401	9.986 1778	19	621	
		296		316			20		
.380	9.395 0673		9.408 8915		0.591 1085	9.986 1758		**.620**	
		295		315			19		
381	9.395 0968		9.408 9230		0.591 0770	9.986 1739		619	
382	9.395 1264	296	9.408 9545	315	0.591 0455	9.986 1719	20	618	
383	9.395 1559	295	9.408 9860	315	0.591 0140	9.986 1700	19	617	
		296		315			20		
384	9.395 1855		9.409 0175		0.590 9825	9.986 1680		616	
385	9.395 2151	296	9.409 0490	315	0.590 9510	9.986 1661	19	615	
386	9.395 2446	295	9.409 0805	315	0.590 9195	9.986 1641	20	614	
		296		315			19		
387	9.395 2742		9.409 1120		0.590 8880	9.986 1622		613	
388	9.395 3037	295	9.409 1435	315	0.590 8565	9.986 1603	19	612	
389	9.395 3333	296	9.409 1749	314	0.590 8251	9.986 1583	20	611	
		295		315			19		
.390	9.395 3628		9.409 2064		0.590 7936	9.986 1564		**.610**	
		295		315			20		
391	9.395 3923		9.409 2379		0.590 7621	9.986 1544		609	
392	9.395 4219	296	9.409 2694	315	0.590 7306	9.986 1525	19	608	
393	9.395 4514	295	9.409 3009	315	0.590 6991	9.986 1505	20	607	
		296		315			19		
394	9.395 4810		9.409 3324		0.590 6676	9.986 1486		606	
395	9.395 5105	295	9.409 3638	314	0.590 6362	9.986 1466	20	605	
396	9.395 5400	295	9.409 3953	315	0.590 6047	9.986 1447	19	604	
		296		315			19		
397	9.395 5696		9.409 4268		0.590 5732	9.986 1428		603	
398	9.395 5991	295	9.409 4583	315	0.590 5417	9.986 1408	20	602	
399	9.395 6286	295	9.409 4897	314	0.590 5103	9.986 1389	19	601	
		295		315			20		
.400	9.395 6581		9.409 5212		0.590 4788	9.986 1369		**.600**	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	316	315
1	31.6	31.5
2	63.2	63.0
3	94.8	94.5
4	126.4	126.0
5	158.0	157.5
6	189.6	189.0
7	221.2	220.5
8	252.8	252.0
9	284.4	283.5

	314
1	31.4
2	62.8
3	94.2
4	125.6
5	157.0
6	188.4
7	219.8
8	251.2
9	282.6

	297	296
1	29.7	29.6
2	59.4	59.2
3	89.1	88.8
4	118.8	118.4
5	148.5	148.0
6	178.2	177.6
7	207.9	207.2
8	237.6	236.8
9	267.3	266.4

	295
1	29.5
2	59.0
3	88.5
4	118.0
5	147.5
6	177.0
7	206.5
8	236.0
9	265.5

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

$75^\circ.650 - 75^\circ.600$

$14^\circ.400 - 14^\circ.450$

14°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.395 6581		9.409 5212		0.590 4788	9.986 1369		**.600**	
		295		315			19		
401	9.395 6876		9.409 5527		0.590 4473	9.986 1350		599	
402	9.395 7172	296	9.409 5841	314	0.590 4159	9.986 1330	20	598	
403	9.395 7467	295	9.409 6156	315	0.590 3844	9.986 1311	19	597	
		295		315			20		
404	9.395 7762		9.409 6471		0.590 3529	9.986 1291		596	
405	9.395 8057	295	9.409 6785	314	0.590 3215	9.986 1272	19	595	
406	9.395 8352	295	9.409 7100	315	0.590 2900	9.986 1252	20	594	
		295		314			19		
407	9.395 8647		9.409 7414		0.590 2586	9.986 1233		593	
408	9.395 8942	295	9.409 7729	315	0.590 2271	9.986 1213	20	592	
409	9.395 9237	295	9.409 8043	314	0.590 1957	9.986 1194	19	591	
		295		315			20		
.410	9.395 9532		9.409 8358		0.590 1642	9.986 1174		**.590**	
		295		314			19		
411	9.395 9827		9.409 8672		0.590 1328	9.986 1155		589	
412	9.396 0122	295	9.409 8987	315	0.590 1013	9.986 1136	19	588	
413	9.396 0417	295	9.409 9301	314	0.590 0699	9.986 1116	20	587	
		295		315			19		
414	9.396 0712		9.409 9616		0.590 0384	9.986 1097		586	
415	9.396 1007	295	9.409 9930	314	0.590 0070	9.986 1077	20	585	
416	9.396 1302	295	9.410 0244	314	0.589 9756	9.986 1058	19	584	
		295		315			20		
417	9.396 1597		9.410 0559		0.589 9441	9.986 1038		583	
418	9.396 1892	295	9.410 0873	314	0.589 9127	9.986 1019	19	582	
419	9.396 2187	295	9.410 1187	314	0.589 8813	9.986 0999	20	581	
		294		315			19		
.420	9.396 2481		9.410 1502		0.589 8498	9.986 0980		**.580**	
		295		314			20		
421	9.396 2776		9.410 1816		0.589 8184	9.986 0960		579	
422	9.396 3071	295	9.410 2130	314	0.589 7870	9.986 0941	19	578	
423	9.396 3366	295	9.410 2444	314	0.589 7556	9.986 0921	20	577	
		294		315			19		
424	9.396 3660		9.410 2759		0.589 7241	9.986 0902		576	
425	9.396 3955	295	9.410 3073	314	0.589 6927	9.986 0882	20	575	
426	9.396 4250	295	9.410 3387	314	0.589 6613	9.986 0863	19	574	
		294		314			20		
427	9.396 4544		9.410 3701		0.589 6299	9.986 0843		573	
428	9.396 4839	295	9.410 4015	314	0.589 5985	9.986 0824	19	572	
429	9.396 5134	295	9.410 4329	314	0.589 5671	9.986 0804	20	571	
		294		314			19		
.430	9.396 5428		9.410 4643		0.589 5357	9.986 0785		**.570**	
		295		315			20		
431	9.396 5723		9.410 4958		0.589 5042	9.986 0765		569	
432	9.396 6017	294	9.410 5272	314	0.589 4728	9.986 0746	19	568	
433	9.396 6312	295	9.410 5586	314	0.589 4414	9.986 0726	20	567	
		294		314			19		
434	9.396 6606		9.410 5900		0.589 4100	9.986 0707		566	
435	9.396 6901	295	9.410 6214	314	0.589 3786	9.986 0687	20	565	
436	9.396 7195	294	9.410 6528	314	0.589 3472	9.986 0668	19	564	
		295		314			20		
437	9.396 7490		9.410 6842		0.589 3158	9.986 0648		563	
438	9.396 7784	294	9.410 7155	313	0.589 2845	9.986 0629	19	562	
439	9.396 8078	294	9.410 7469	314	0.589 2531	9.986 0609	20	561	
		295		314			19		
.440	9.396 8373		9.410 7783		0.589 2217	9.986 0590		**.560**	
		294		314			20		
441	9.396 8667		9.410 8097		0.589 1903	9.986 0570		559	
442	9.396 8962	295	9.410 8411	314	0.589 1589	9.986 0551	19	558	
443	9.396 9256	294	9.410 8725	314	0.589 1275	9.986 0531	20	557	
		294		314			20		
444	9.396 9550		9.410 9039		0.589 0961	9.986 0511		556	
445	9.396 9844	294	9.410 9352	313	0.589 0648	9.986 0492	19	555	
446	9.397 0139	295	9.410 9666	314	0.589 0334	9.986 0472	20	554	
		294		314			19		
447	9.397 0433		9.410 9980		0.589 0020	9.986 0453		553	
448	9.397 0727	294	9.411 0294	314	0.588 9706	9.986 0433	20	552	
449	9.397 1021	294	9.411 0607	313	0.588 9393	9.986 0414	19	551	
		294		314			20		
.450	9.397 1315		9.411 0921		0.588 9079	9.986 0394		**.550**	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	315	314
1	31.5	31.4
2	63.0	62.8
3	94.5	94.2
4	126.0	125.6
5	157.5	157.0
6	189.0	188.4
7	220.5	219.8
8	252.0	251.2
9	283.5	282.6

	313
1	31.3
2	62.6
3	93.9
4	125.2
5	156.5
6	187.8
7	219.1
8	250.4
9	281.7

	296	295
1	29.6	29.5
2	59.2	59.0
3	88.8	88.5
4	118.4	118.0
5	148.0	147.5
6	177.6	177.0
7	207.2	206.5
8	236.8	236.0
9	266.4	265.5

	294
1	29.4
2	58.8
3	88.2
4	117.6
5	147.0
6	176.4
7	205.8
8	235.2
9	264.6

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

$75^\circ.600 - 75^\circ.550$

$14^\circ.450 - 14^\circ.500$

14°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.397 1315		9.411 0921		0.588 9079	9.986 0394		·550	
		295		314			19		
451	9.397 1610		9.411 1235		0.588 8765	9.986 0375		549	
452	9.397 1904	294	9.411 1548	313	0.588 8452	9.986 0355	20	548	
453	9.397 2198	294	9.411 1862	314	0.588 8138	9.986 0336	19	547	
		294		314			20		
454	9.397 2492		9.411 2176		0.588 7824	9.986 0316		546	
455	9.397 2786	294	9.411 2489	313	0.588 7511	9.986 0297	19	545	
456	9.397 3080	294	9.411 2803	314	0.588 7197	9.986 0277	20	544	
		294		313			19		
457	9.397 3374		9.411 3116		0.588 6884	9.986 0258		543	
458	9.397 3668	294	9.411 3430	314	0.588 6570	9.986 0238	20	542	
459	9.397 3962	294	9.411 3743	313	0.588 6257	9.986 0218	20	541	
		294		314			19		
·460	9.397 4256		9.411 4057		0.588 5943	9.986 0199		·540	
		294		313			20		
461	9.397 4550		9.411 4370		0.588 5630	9.986 0179		539	
462	9.397 4844	294	9.411 4684	314	0.588 5316	9.986 0160	19	538	
463	9.397 5138	294	9.411 4997	313	0.588 5003	9.986 0140	20	537	
		293		314			19		
464	9.397 5431		9.411 5311		0.588 4689	9.986 0121		536	
465	9.397 5725	294	9.411 5624	313	0.588 4376	9.986 0101	20	535	
466	9.397 6019	294	9.411 5937	313	0.588 4063	9.986 0082	19	534	
		294		314			20		
467	9.397 6313		9.411 6251		0.588 3749	9.986 0062		533	
468	9.397 6607	294	9.411 6564	313	0.588 3436	9.986 0042	20	532	
469	9.397 6900	293	9.411 6877	313	0.588 3123	9.986 0023	19	531	
		294		314			20		
·470	9.397 7194		9.411 7191		0.588 2809	9.986 0003		·530	
		294		313			19		
471	9.397 7488		9.411 7504		0.588 2496	9.985 9984		529	
472	9.397 7782	294	9.411 7817	313	0.588 2183	9.985 9964	20	528	
473	9.397 8075	293	9.411 8131	314	0.588 1869	9.985 9945	19	527	
		294		313			20		
474	9.397 8369		9.411 8444		0.588 1556	9.985 9925		526	
475	9.397 8663	294	9.411 8757	313	0.588 1243	9.985 9906	19	525	
476	9.397 8956	293	9.411 9070	313	0.588 0930	9.985 9886	20	524	
		294		313			20		
477	9.397 9250		9.411 9383		0.588 0617	9.985 9866		523	
478	9.397 9543	293	9.411 9696	313	0.588 0304	9.985 9847	19	522	
479	9.397 9837	294	9.412 0010	314	0.587 9990	9.985 9827	20	521	
		293		313			19		
·480	9.398 0130		9.412 0323		0.587 9677	9.985 9808		·520	
		294		313			20		
481	9.398 0424		9.412 0636		0.587 9364	9.985 9788		519	
482	9.398 0717	293	9.412 0949	313	0.587 9051	9.985 9769	19	518	
483	9.398 1011	294	9.412 1262	313	0.587 8738	9.985 9749	20	517	
		293		313			20		
484	9.398 1304		9.412 1575		0.587 8425	9.985 9729		516	
485	9.398 1598	294	9.412 1888	313	0.587 8112	9.985 9710	19	515	
486	9.398 1891	293	9.412 2201	313	0.587 7799	9.985 9690	20	514	
		293		313			19		
487	9.398 2184		9.412 2514		0.587 7486	9.985 9671		513	
488	9.398 2478	294	9.412 2827	313	0.587 7173	9.985 9651	20	512	
489	9.398 2771	293	9.412 3140	313	0.587 6860	9.985 9631	20	511	
		293		313			19		
·490	9.398 3064		9.412 3453		0.587 6547	9.985 9612		·510	
		294		312			20		
491	9.398 3358		9.412 3765		0.587 6235	9.985 9592		509	
492	9.398 3651	293	9.412 4078	313	0.587 5922	9.985 9573	19	508	
493	9.398 3944	293	9.412 4391	313	0.587 5609	9.985 9553	20	507	
		293		313			19		
494	9.398 4237		9.412 4704		0.587 5296	9.985 9534		506	
495	9.398 4531	294	9.412 5017	313	0.587 4983	9.985 9514	20	505	
496	9.398 4824	293	9.412 5330	313	0.587 4670	9.985 9494	20	504	
		293		312			19		
497	9.398 5117		9.412 5642		0.587 4358	9.985 9475		503	
498	9.398 5410	293	9.412 5955	313	0.587 4045	9.985 9455	20	502	
499	9.398 5703	293	9.412 6268	313	0.587 3732	9.985 9436	19	501	
		293		313			20		
·500	9.398 5996		9.412 6581		0.587 3419	9.985 9416		·500	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	314	313
1	31.4	31.3
2	62.8	62.6
3	94.2	93.9
4	125.6	125.2
5	157.0	156.5
6	188.4	187.8
7	219.8	219.1
8	251.2	250.4
9	282.6	281.7

	312
1	31.2
2	62.4
3	93.6
4	124.8
5	156.0
6	187.2
7	218.4
8	249.6
9	280.8

	295	294
1	29.5	29.4
2	59.0	58.8
3	88.5	88.2
4	118.0	117.6
5	147.5	147.0
6	177.0	176.4
7	206.5	205.8
8	236.0	235.2
9	265.5	264.6

	293
1	29.3
2	58.6
3	87.9
4	117.2
5	146.5
6	175.8
7	205.1
8	234.4
9	263.7

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

$75^\circ.550 - 75^\circ.500$

14°.500 — 14°.550

14°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.398 5996		9.412 6581		0.587 3419	9.985 9416		.500	
		294		312			20		
501	9.398 6290		9.412 6893		0.587 3107	9.985 9396		499	
502	9.398 6583	293	9.412 7206	313	0.587 2794	9.985 9377	19	498	
503	9.398 6876	293	9.412 7519	313	0.587 2481	9.985 9357	20	497	
		293		312			20		
504	9.398 7169		9.412 7831		0.587 2169	9.985 9337		496	
505	9.398 7462	293	9.412 8144	313	0.587 1856	9.985 9318	19	495	
506	9.398 7755	293	9.412 8456	312	0.587 1544	9.985 9298	20	494	
		293		313			19		
507	9.398 8048		9.412 8769		0.587 1231	9.985 9279		493	
508	9.398 8340	292	9.412 9081	312	0.587 0919	9.985 9259	20	492	
509	9.398 8633	293	9.412 9394	313	0.587 0606	9.985 9239	20	491	
		293		312			19		
.510	9.398 8926		9.412 9706		0.587 0294	9.985 9220		.490	
		293		313			20		
511	9.398 9219		9.413 0019		0.586 9981	9.985 9200		489	
512	9.398 9512	293	9.413 0331	312	0.586 9669	9.985 9181	19	488	
513	9.398 9805	293	9.413 0644	313	0.586 9356	9.985 9161	20	487	
		293		312			20		
514	9.399 0098		9.413 0956		0.586 9044	9.985 9141		486	
515	9.399 0390	292	9.413 1269	313	0.586 8731	9.985 9122	19	485	
516	9.399 0683	293	9.413 1581	312	0.586 8419	9.985 9102	20	484	
		293		312			20		
517	9.399 0976		9.413 1893		0.586 8107	9.985 9082		483	
518	9.399 1269	293	9.413 2206	313	0.586 7794	9.985 9063	19	482	
519	9.399 1561	292	9.413 2518	312	0.586 7482	9.985 9043	20	481	
		293		312			19		
.520	9.399 1854		9.413 2830		0.586 7170	9.985 9024		.480	
		293		313			20		
521	9.399 2147		9.413 3143		0.586 6857	9.985 9004		479	
522	9.399 2439	292	9.413 3455	312	0.586 6545	9.985 8984	20	478	
523	9.399 2732	293	9.413 3767	312	0.586 6233	9.985 8965	19	477	
		293		313			20		
524	9.399 3025		9.413 4080		0.586 5920	9.985 8945		476	
525	9.399 3317	292	9.413 4392	312	0.586 5608	9.985 8925	20	475	
526	9.399 3610	293	9.413 4704	312	0.586 5296	9.985 8906	19	474	
		292		312			20		
527	9.399 3902		9.413 5016		0.586 4984	9.985 8886		473	
528	9.399 4195	293	9.413 5328	312	0.586 4672	9.985 8866	20	472	
529	9.399 4487	292	9.413 5640	312	0.586 4360	9.985 8847	19	471	
		293		312			20		
.530	9.399 4780		9.413 5952		0.586 4048	9.985 8827		.470	
		292		313			19		
531	9.399 5072		9.413 6265		0.586 3735	9.985 8808		469	
532	9.399 5365	293	9.413 6577	312	0.586 3423	9.985 8788	20	468	
533	9.399 5657	292	9.413 6889	312	0.586 3111	9.985 8768	20	467	
		292		312			19		
534	9.399 5949		9.413 7201		0.586 2799	9.985 8749		466	
535	9.399 6242	293	9.413 7513	312	0.586 2487	9.985 8729	20	465	
536	9.399 6534	292	9.413 7825	312	0.586 2175	9.985 8709	20	464	
		292		312			19		
537	9.399 6826		9.413 8137		0.586 1863	9.985 8690		463	
538	9.399 7119	293	9.413 8449	312	0.586 1551	9.985 8670	20	462	
539	9.399 7411	292	9.413 8761	312	0.586 1239	9.985 8650	20	461	
		292		312			19		
.540	9.399 7703		9.413 9073		0.586 0927	9.985 8631		.460	
		292		311			20		
541	9.399 7995		9.413 9384		0.586 0616	9.985 8611		459	
542	9.399 8288	293	9.413 9696	312	0.586 0304	9.985 8591	20	458	
543	9.399 8580	292	9.414 0008	312	0.585 9992	9.985 8572	19	457	
		292		312			20		
544	9.399 8872		9.414 0320		0.585 9680	9.985 8552		456	
545	9.399 9164	292	9.414 0632	312	0.585 9368	9.985 8532	20	455	
546	9.399 9456	292	9.414 0944	312	0.585 9056	9.985 8513	19	454	
		292		311			20		
547	9.399 9748		9.414 1255		0.585 8745	9.985 8493		453	
548	9.400 0041	293	9.414 1567	312	0.585 8433	9.985 8473	20	452	
549	9.400 0333	292	9.414 1879	312	0.585 8121	9.985 8454	19	451	
		292		312			20		
.550	9.400 0625		9.414 2191		0.585 7809	9.985 8434		.450	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	313	312
1	31.3	31.2
2	62.6	62.4
3	93.9	93.6
4	125.2	124.8
5	156.5	156.0
6	187.8	187.2
7	219.1	218.4
8	250.4	249.6
9	281.7	280.8

	311
1	31.1
2	62.2
3	93.3
4	124.4
5	155.5
6	186.6
7	217.7
8	248.8
9	279.9

	294	293
1	29.4	29.3
2	58.8	58.6
3	88.2	87.9
4	117.6	117.2
5	147.0	146.5
6	176.4	175.8
7	205.8	205.1
8	235.2	234.4
9	264.6	263.7

	292
1	29.2
2	58.4
3	87.6
4	116.8
5	146.0
6	175.2
7	204.4
8	233.6
9	262.8

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

75°.500 — 75°.450

$14^\circ.550 - 14^\circ.600$

14°	sin	d	tang	d	cotg	cos	d		P.P.
·550	9.400 0625		9.414 2191		0.585 7809	9.985 8434		**·450**	
		292		311			20		
551	9.400 0917		9.414 2502		0.585 7498	9.985 8414		449	
552	9.400 1209	292	9.414 2814	312	0.585 7186	9.985 8395	19	448	
553	9.400 1501	292	9.414 3126	312	0.585 6874	9.985 8375	20	447	
		292		311			20		
554	9.400 1793		9.414 3437		0.585 6563	9.985 8355		446	
555	9.400 2085	292	9.414 3749	312	0.585 6251	9.985 8336	19	445	
556	9.400 2377	292	9.414 4061	312	0.585 5939	9.985 8316	20	444	
		291		311			20		
557	9.400 2668		9.414 4372		0.585 5628	9.985 8296		443	
558	9.400 2960	292	9.414 4684	312	0.585 5316	9.985 8277	19	442	
559	9.400 3252	292	9.414 4995	311	0.585 5005	9.985 8257	20	441	
		292		312			20		
·560	9.400 3544		9.414 5307		0.585 4693	9.985 8237		**·440**	
		292		311			19		
561	9.400 3836		9.414 5618		0.585 4382	9.985 8218		439	
562	9.400 4128	292	9.414 5930	312	0.585 4070	9.985 8198	20	438	
563	9.400 4419	291	9.414 6241	311	0.585 3759	9.985 8178	20	437	
		292		312			20		
564	9.400 4711		9.414 6553		0.585 3447	9.985 8158		436	
565	9.400 5003	292	9.414 6864	311	0.585 3136	9.985 8139	19	435	
566	9.400 5295	292	9.414 7176	312	0.585 2824	9.985 8119	20	434	
		291		311			20		
567	9.400 5586		9.414 7487		0.585 2513	9.985 8099		433	
568	9.400 5878	292	9.414 7798	311	0.585 2202	9.985 8080	19	432	
569	9.400 6170	292	9.414 8110	312	0.585 1890	9.985 8060	20	431	
		291		311			20		
·570	9.400 6461		9.414 8421		0.585 1579	9.985 8040		**·430**	
		292		311			19		
571	9.400 6753		9.414 8732		0.585 1268	9.985 8021		429	
572	9.400 7045	292	9.414 9044	312	0.585 0956	9.985 8001	20	428	
573	9.400 7336	291	9.414 9355	311	0.585 0645	9.985 7981	20	427	
		292		311			20		
574	9.400 7628		9.414 9666		0.585 0334	9.985 7961		426	
575	9.400 7919	291	9.414 9977	311	0.585 0023	9.985 7942	19	425	
576	9.400 8211	292	9.415 0289	312	0.584 9711	9.985 7922	20	424	
		291		311			20		
577	9.400 8502		9.415 0600		0.584 9400	9.985 7902		423	
578	9.400 8794	292	9.415 0911	311	0.584 9089	9.985 7883	19	422	
579	9.400 9085	291	9.415 1222	311	0.584 8778	9.985 7863	20	421	
		291		311			20		
·580	9.400 9376		9.415 1533		0.584 8467	9.985 7843		**·420**	
		292		311			20		
581	9.400 9668		9.415 1844		0.584 8156	9.985 7823		419	
582	9.400 9959	291	9.415 2156	312	0.584 7844	9.985 7804	19	418	
583	9.401 0251	292	9.415 2467	311	0.584 7533	9.985 7784	20	417	
		291		311			20		
584	9.401 0542		9.415 2778		0.584 7222	9.985 7764		416	
585	9.401 0833	291	9.415 3089	311	0.584 6911	9.985 7745	19	415	
586	9.401 1125	292	9.415 3400	311	0.584 6600	9.985 7725	20	414	
		291		311			20		
587	9.401 1416		9.415 3711		0.584 6289	9.985 7705		413	
588	9.401 1707	291	9.415 4022	311	0.584 5978	9.985 7685	20	412	
589	9.401 1998	291	9.415 4333	311	0.584 5667	9.985 7666	19	411	
		292		311			20		
·590	9.401 2290		9.415 4644		0.584 5356	9.985 7646		**·410**	
		291		311			20		
591	9.401 2581		9.415 4955		0.584 5045	9.985 7626		409	
592	9.401 2872	291	9.415 5265	310	0.584 4735	9.985 7606	20	408	
593	9.401 3163	291	9.415 5576	311	0.584 4424	9.985 7587	19	407	
		291		311			20		
594	9.401 3454		9.415 5887		0.584 4113	9.985 7567		406	
595	9.401 3745	291	9.415 6198	311	0.584 3802	9.985 7547	20	405	
596	9.401 4036	291	9.415 6509	311	0.584 3491	9.985 7528	19	404	
		291		311			20		
597	9.401 4327		9.415 6820		0.584 3180	9.985 7508		403	
598	9.401 4619	292	9.415 7130	310	0.584 2870	9.985 7488	20	402	
599	9.401 4910	291	9.415 7441	311	0.584 2559	9.985 7468	20	401	
		291		311			19		
.600	9.401 5201		9.415 7752		0.584 2248	9.985 7449		**·400**	
	cos	d	cotg	d	tang	sin	d	**75°**	P.P.

	312	311
1	31.2	31.1
2	62.4	62.2
3	93.6	93.3
4	124.8	124.4
5	156.0	155.5
6	187.2	186.6
7	218.4	217.7
8	249.6	248.8
9	280.8	279.9

	310
1	31.0
2	62.0
3	93.0
4	124.0
5	155.0
6	186.0
7	217.0
8	248.0
9	279.0

	292	291
1	29.2	29.1
2	58.4	58.2
3	87.6	87.3
4	116.8	116.4
5	146.0	145.5
6	175.2	174.6
7	204.4	203.7
8	233.6	232.8
9	262.8	261.9

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

$75^\circ.450 - 75^\circ.400$

14°.600 — 14°.650

14°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.401 5201		9.415 7752		0.584 2248	9.985 7449		.400	
		291		311			20		
601	9.401 5492		9.415 8063		0.584 1937	9.985 7429		399	
602	9.401 5783	291	9.415 8373	310	0.584 1627	9.985 7409	20	398	
603	9.401 6073	290	9.415 8684	311	0.584 1316	9.985 7389	20	397	
		291		311			19		
604	9.401 6364		9.415 8995		0.584 1005	9.985 7370		396	
605	9.401 6655	291	9.415 9305	310	0.584 0695	9.985 7350	20	395	
606	9.401 6946	291	9.415 9616	311	0.584 0384	9.985 7330	20	394	
		291		311			20		
607	9.401 7237		9.415 9927		0.584 0073	9.985 7310		393	
608	9.401 7528	291	9.416 0237	310	0.583 9763	9.985 7291	19	392	
609	9.401 7819	291	9.416 0548	311	0.583 9452	9.985 7271	20	391	
		290		310			20		
.610	9.401 8109		9.416 0858		0.583 9142	9.985 7251		.390	
		291		311			20		
611	9.401 8400		9.416 1169		0.583 8831	9.985 7231		389	
612	9.401 8691	291	9.416 1479	310	0.583 8521	9.985 7212	19	388	
613	9.401 8982	291	9.416 1790	311	0.583 8210	9.985 7192	20	387	
		290		310			20		
614	9.401 9272		9.416 2100		0.583 7900	9.985 7172		386	
615	9.401 9563	291	9.416 2411	311	0.583 7589	9.985 7152	20	385	
616	9.401 9854	291	9.416 2721	310	0.583 7279	9.985 7132	20	384	
		290		311			19		
617	9.402 0144		9.416 3032		0.583 6968	9.985 7113		383	
618	9.402 0435	291	9.416 3342	310	0.583 6658	9.985 7093	20	382	
619	9.402 0726	291	9.416 3653	311	0.583 6347	9.985 7073	20	381	
		290		310			20		
.620	9.402 1016		9.416 3963		0.583 6037	9.985 7053		.380	
		291		310			19		
621	9.402 1307		9.416 4273		0.583 5727	9.985 7034		379	
622	9.402 1597	290	9.416 4584	311	0.583 5416	9.985 7014	20	378	
623	9.402 1888	291	9.416 4894	310	0.583 5106	9.985 6994	20	377	
		290		310			20		
624	9.402 2178		9.416 5204		0.583 4796	9.985 6974		376	
625	9.402 2469	291	9.416 5514	310	0.583 4486	9.985 6955	19	375	
626	9.402 2759	290	9.416 5825	311	0.583 4175	9.985 6935	20	374	
		291		310			20		
627	9.402 3050		9.416 6135		0.583 3865	9.985 6915		373	
628	9.402 3340	290	9.416 6445	310	0.583 3555	9.985 6895	20	372	
629	9.402 3631	291	9.416 6755	310	0.583 3245	9.985 6875	20	371	
		290		310			19		
.630	9.402 3921		9.416 7065		0.583 2935	9.985 6856		.370	
		290		311			20		
631	9.402 4211		9.416 7376		0.583 2624	9.985 6836		369	
632	9.402 4502	291	9.416 7686	310	0.583 2314	9.985 6816	20	368	
633	9.402 4792	290	9.416 7996	310	0.583 2004	9.985 6796	20	367	
		290		310			20		
634	9.402 5082		9.416 8306		0.583 1694	9.985 6776		366	
635	9.402 5373	291	9.416 8616	310	0.583 1384	9.985 6757	19	365	
636	9.402 5663	290	9.416 8926	310	0.583 1074	9.985 6737	20	364	
		290		310			20		
637	9.402 5953		9.416 9236		0.583 0764	9.985 6717		363	
638	9.402 6243	290	9.416 9546	310	0.583 0454	9.985 6697	20	362	
639	9.402 6534	291	9.416 9856	310	0.583 0144	9.985 6677	20	361	
		290		310			19		
.640	9.402 6824		9.417 0166		0.582 9834	9.985 6658		.360	
		290		310			20		
641	9.402 7114		9.417 0476		0.582 9524	9.985 6638		359	
642	9.402 7404	290	9.417 0786	310	0.582 9214	9.985 6618	20	358	
643	9.402 7694	290	9.417 1096	310	0.582 8904	9.985 6598	20	357	
		290		310			20		
644	9.402 7984		9.417 1406		0.582 8594	9.985 6578		356	
645	9.402 8274	290	9.417 1716	310	0.582 8284	9.985 6559	19	355	
646	9.402 8564	290	9.417 2026	310	0.582 7974	9.985 6539	20	354	
		290		309			20		
647	9.402 8854		9.417 2335		0.582 7665	9.985 6519		353	
648	9.402 9144	290	9.417 2645	310	0.582 7355	9.985 6499	20	352	
649	9.402 9434	290	9.417 2955	310	0.582 7045	9.985 6479	20	351	
		290		310			19		
.650	9.402 9724		9.417 3265		0.582 6735	9.985 6460		.350	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	311	310
1	31.1	31.0
2	62.2	62.0
3	93.3	93.0
4	124.4	124.0
5	155.5	155.0
6	186.6	186.0
7	217.7	217.0
8	248.8	248.0
9	279.9	279.0

	309
1	30.9
2	61.8
3	92.7
4	123.6
5	154.5
6	185.4
7	216.3
8	247.2
9	278.1

	291	290
1	29.1	29.0
2	58.2	58.0
3	87.3	87.0
4	116.4	116.0
5	145.5	145.0
6	174.6	174.0
7	203.7	203.0
8	232.8	232.0
9	261.9	261.0

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

75°.400 — 75°.350

14°.650 — 14°.700

14°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.402 9724		9.417 3265		0.582 6735	9.985 6460		**.350**	
		290		310			20		
651	9.403 0014		9.417 3575		0.582 6425	9.985 6440		349	
652	9.403 0304	290	9.417 3884	309	0.582 6116	9.985 6420	20	348	
653	9.403 0594	290	9.417 4194	310	0.582 5806	9.985 6400	20	347	
		290		310			20		
654	9.403 0884		9.417 4504		0.582 5496	9.985 6380		346	
655	9.403 1174	290	9.417 4813	309	0.582 5187	9.985 6361	19	345	
656	9.403 1464	290	9.417 5123	310	0.582 4877	9.985 6341	20	344	
		290		310			20		
657	9.403 1754		9.417 5433		0.582 4567	9.985 6321		343	
658	9.403 2043	289	9.417 5742	309	0.582 4258	9.985 6301	20	342	
659	9.403 2333	290	9.417 6052	310	0.582 3948	9.985 6281	20	341	
		290		310			20		
.660	9.403 2623		9.417 6362		0.582 3638	9.985 6261		**.340**	
		290		309			19		
661	9.403 2913		9.417 6671		0.582 3329	9.985 6242		339	
662	9.403 3202	289	9.417 6981	310	0.582 3019	9.985 6222	20	338	
663	9.403 3492	290	9.417 7290	309	0.582 2710	9.985 6202	20	337	
		290		310			20		
664	9.403 3782		9.417 7600		0.582 2400	9.985 6182		336	
665	9.403 4071	289	9.417 7909	309	0.582 2091	9.985 6162	20	335	
666	9.403 4361	290	9.417 8219	310	0.582 1781	9.985 6142	20	334	
		290		309			19		
667	9.403 4651		9.417 8528		0.582 1472	9.985 6123		333	
668	9.403 4940	289	9.417 8838	310	0.582 1162	9.985 6103	20	332	
669	9.403 5230	290	9.417 9147	309	0.582 0853	9.985 6083	20	331	
		289		309			20		
.670	9.403 5519		9.417 9456		0.582 0544	9.985 6063		**.330**	
		290		310			20		
671	9.403 5809		9.417 9766		0.582 0234	9.985 6043		329	
672	9.403 6098	289	9.418 0075	309	0.581 9925	9.985 6023	20	328	
673	9.403 6388	290	9.418 0384	309	0.581 9616	9.985 6003	20	327	
		289		310			19		
674	9.403 6677		9.418 0694		0.581 9306	9.985 5984		326	
675	9.403 6967	290	9.418 1003	309	0.581 8997	9.985 5964	20	325	
676	9.403 7256	289	9.418 1312	309	0.581 8688	9.985 5944	20	324	
		290		310			20		
677	9.403 7546		9.418 1622		0.581 8378	9.985 5924		323	
678	9.403 7835	289	9.418 1931	309	0.581 8069	9.985 5904	20	322	
679	9.403 8124	289	9.418 2240	309	0.581 7760	9.985 5884	20	321	
		290		309			19		
.680	9.403 8414		9.418 2549		0.581 7451	9.985 5865		**.320**	
		289		309			20		
681	9.403 8703		9.418 2858		0.581 7142	9.985 5845		319	
682	9.403 8992	289	9.418 3168	310	0.581 6832	9.985 5825	20	318	
683	9.403 9282	290	9.418 3477	309	0.581 6523	9.985 5805	20	317	
		289		309			20		
684	9.403 9571		9.418 3786		0.581 6214	9.985 5785		316	
685	9.403 9860	289	9.418 4095	309	0.581 5905	9.985 5765	20	315	
686	9.404 0149	289	9.418 4404	309	0.581 5596	9.985 5745	20	314	
		290		309			20		
687	9.404 0439		9.418 4713		0.581 5287	9.985 5725		313	
688	9.404 0728	289	9.418 5022	309	0.581 4978	9.985 5706	19	312	
689	9.404 1017	289	9.418 5331	309	0.581 4669	9.985 5686	20	311	
		289		309			20		
.690	9.404 1306		9.418 5640		0.581 4360	9.985 5666		**.310**	
		289		309			20		
691	9.404 1595		9.418 5949		0.581 4051	9.985 5646		309	
692	9.404 1884	289	9.418 6258	309	0.581 3742	9.985 5626	20	308	
693	9.404 2173	289	9.418 6567	309	0.581 3433	9.985 5606	20	307	
		290		309			20		
694	9.404 2463		9.418 6876		0.581 3124	9.985 5586		306	
695	9.404 2752	289	9.418 7185	309	0.581 2815	9.985 5567	19	305	
696	9.404 3041	289	9.418 7494	309	0.581 2506	9.985 5547	20	304	
		289		309			20		
697	9.404 3330		9.418 7803		0.581 2197	9.985 5527		303	
698	9.404 3619	289	9.418 8112	309	0.581 1888	9.985 5507	20	302	
699	9.404 3908	289	9.418 8421	309	0.581 1579	9.985 5487	20	301	
		288		308			20		
.700	9.404 4196		9.418 8729		0.581 1271	9.985 5467		**.300**	
	cos	d	cotg	d	tang	sin	d	**75°**	P.P.

	310	309
1	31.0	30.9
2	62.0	61.8
3	93.0	92.7
4	124.0	123.6
5	155.0	154.5
6	186.0	185.4
7	217.0	216.3
8	248.0	247.2
9	279.0	278.1

	308
1	30.8
2	61.6
3	92.4
4	123.2
5	154.0
6	184.8
7	215.6
8	246.4
9	277.2

	290	289
1	29.0	28.9
2	58.0	57.8
3	87.0	86.7
4	116.0	115.6
5	145.0	144.5
6	174.0	173.4
7	203.0	202.3
8	232.0	231.2
9	261.0	260.1

	288
1	28.8
2	57.6
3	86.4
4	115.2
5	144.0
6	172.8
7	201.6
8	230.4
9	259.2

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

75°.350 — 75°.300

$14^\circ.700 - 14^\circ.750$

14°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.404 4196		9.418 8729		0.581 1271	9.985 5467		**.300**	
		289		309			20		
701	9.404 4485		9.418 9038		0.581 0962	9.985 5447		299	
702	9.404 4774	289	9.418 9347	309	0.581 0653	9.985 5427	20	298	
703	9.404 5063	289	9.418 9656	309	0.581 0344	9.985 5407	20	297	
		289		308			19		
704	9.404 5352		9.418 9964		0.581 0036	9.985 5388		296	
705	9.404 5641	289	9.419 0273	309	0.580 9727	9.985 5368	20	295	
706	9.404 5930	289	9.419 0582	309	0.580 9418	9.985 5348	20	294	
		288		309			20		
707	9.404 6218		9.419 0891		0.580 9109	9.985 5328		293	
708	9.404 6507	289	9.419 1199	308	0.580 8801	9.985 5308	20	292	
709	9.404 6796	289	9.419 1508	309	0.580 8492	9.985 5288	20	291	
		289		309			20		
.710	9.404 7085		9.419 1817		0.580 8183	9.985 5268		**.290**	
		288		308			20		
711	9.404 7373		9.419 2125		0.580 7875	9.985 5248		289	
712	9.404 7662	289	9.419 2434	309	0.580 7566	9.985 5228	20	288	
713	9.404 7951	289	9.419 2742	308	0.580 7258	9.985 5208	20	287	
		288		309			19		
714	9.404 8239		9.419 3051		0.580 6949	9.985 5189		286	
715	9.404 8528	289	9.419 3359	308	0.580 6641	9.985 5169	20	285	
716	9.404 8817	289	9.419 3668	309	0.580 6332	9.985 5149	20	284	
		288		308			20		
717	9.404 9105		9.419 3976		0.580 6024	9.985 5129		283	
718	9.404 9394	289	9.419 4285	309	0.580 5715	9.985 5109	20	282	
719	9.404 9682	288	9.419 4593	308	0.580 5407	9.985 5089	20	281	
		289		309			20		
.720	9.404 9971		9.419 4902		0.580 5098	9.985 5069		**.280**	
		288		308			20		
721	9.405 0259		9.419 5210		0.580 4790	9.985 5049		279	
722	9.405 0548	289	9.419 5519	309	0.580 4481	9.985 5029	20	278	
723	9.405 0836	288	9.419 5827	308	0.580 4173	9.985 5009	20	277	
		289		308			20		
724	9.405 1125		9.419 6135		0.580 3865	9.985 4989		276	
725	9.405 1413	288	9.419 6444	309	0.580 3556	9.985 4970	19	275	
726	9.405 1702	289	9.419 6752	308	0.580 3248	9.985 4950	20	274	
		288		308			20		
727	9.405 1990		9.419 7060		0.580 2940	9.985 4930		273	
728	9.405 2278	288	9.419 7369	309	0.580 2631	9.985 4910	20	272	
729	9.405 2567	289	9.419 7677	308	0.580 2323	9.985 4890	20	271	
		288		308			20		
.730	9.405 2855		9.419 7985		0.580 2015	9.985 4870		**.270**	
		288		308			20		
731	9.405 3143		9.419 8293		0.580 1707	9.985 4850		269	
732	9.405 3432	289	9.419 8602	309	0.580 1398	9.985 4830	20	268	
733	9.405 3720	288	9.419 8910	308	0.580 1090	9.985 4810	20	267	
		288		308			20		
734	9.405 4008		9.419 9218		0.580 0782	9.985 4790		266	
735	9.405 4296	288	9.419 9526	308	0.580 0474	9.985 4770	20	265	
736	9.405 4585	289	9.419 9834	308	0.580 0166	9.985 4750	20	264	
		288		308			20		
737	9.405 4873		9.420 0142		0.579 9858	9.985 4730		263	
738	9.405 5161	288	9.420 0450	308	0.579 9550	9.985 4710	20	262	
739	9.405 5449	288	9.420 0759	309	0.579 9241	9.985 4690	20	261	
		288		308			19		
.740	9.405 5737		9.420 1067		0.579 8933	9.985 4671		**.260**	
		288		308			20		
741	9.405 6025		9.420 1375		0.579 8625	9.985 4651		259	
742	9.405 6313	288	9.420 1683	308	0.579 8317	9.985 4631	20	258	
743	9.405 6601	288	9.420 1991	308	0.579 8009	9.985 4611	20	257	
		288		308			20		
744	9.405 6889		9.420 2299		0.579 7701	9.985 4591		256	
745	9.405 7177	288	9.420 2607	308	0.579 7393	9.985 4571	20	255	
746	9.405 7465	288	9.420 2915	308	0.579 7085	9.985 4551	20	254	
		288		308			20		
747	9.405 7753		9.420 3223		0.579 6777	9.985 4531		253	
748	9.405 8041	288	9.420 3530	307	0.579 6470	9.985 4511	20	252	
749	9.405 8329	288	9.420 3838	308	0.579 6162	9.985 4491	20	251	
		288		308			20		
.750	9.405 8617		9.420 4146		0.579 5854	9.985 4471		**.250**	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	309	308
1	30.9	30.8
2	61.8	61.6
3	92.7	92.4
4	123.6	123.2
5	154.5	154.0
6	185.4	184.8
7	216.3	215.6
8	247.2	246.4
9	278.1	277.2

	307
1	30.7
2	61.4
3	92.1
4	122.8
5	153.5
6	184.2
7	214.9
8	245.6
9	276.3

	289	288
1	28.9	28.8
2	57.8	57.6
3	86.7	86.4
4	115.6	115.2
5	144.5	144.0
6	173.4	172.8
7	202.3	201.6
8	231.2	230.4
9	260.1	259.2

	20	19
1	2.0	1.9
2	4.0	3.8
3	6.0	5.7
4	8.0	7.6
5	10.0	9.5
6	12.0	11.4
7	14.0	13.3
8	16.0	15.2
9	18.0	17.1

$75^\circ.300 - 75^\circ.250$

14°.750 — 14°.800

14°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.405 8617		9.420 4146		0.579 5854	9.985 4471		.250	
		288		308			20		
751	9.405 8905		9.420 4454		0.579 5546	9.985 4451		249	
		288		308			20		
752	9.405 9193		9.420 4762		0.579 5238	9.985 4431		248	
		288		308			20		
753	9.405 9481		9.420 5070		0.579 4930	9.985 4411		247	
		288		307			20		
754	9.405 9769		9.420 5377		0.579 4623	9.985 4391		246	
		287		308			20		
755	9.406 0056		9.420 5685		0.579 4315	9.985 4371		245	
		288		308			20		
756	9.406 0344		9.420 5993		0.579 4007	9.985 4351		244	
		288		308			20		
757	9.406 0632		9.420 6301		0.579 3699	9.985 4331		243	
		288		307			20		
758	9.406 0920		9.420 6608		0.579 3392	9.985 4311		242	
		288		308			20		
759	9.406 1208		9.420 6916		0.579 3084	9.985 4291		241	
		287		308			20		
.760	9.406 1495		9.420 7224		0.579 2776	9.985 4271		.240	
		288		307			20		
761	9.406 1783		9.420 7531		0.579 2469	9.985 4251		239	
		288		308			20		
762	9.406 2071		9.420 7839		0.579 2161	9.985 4231		238	
		287		308			19		
763	9.406 2358		9.420 8147		0.579 1853	9.985 4212		237	
		288		307			20		
764	9.406 2646		9.420 8454		0.579 1546	9.985 4192		236	
		287		308			20		
765	9.406 2933		9.420 8762		0.579 1238	9.985 4172		235	
		288		307			20		
766	9.406 3221		9.420 9069		0.579 0931	9.985 4152		234	
		288		308			20		
767	9.406 3509		9.420 9377		0.579 0623	9.985 4132		233	
		287		308			20		
768	9.406 3796		9.420 9685		0.579 0315	9.985 4112		232	
		288		307			20		
769	9.406 4084		9.420 9992		0.579 0008	9.985 4092		231	
		287		308			20		
.770	9.406 4371		9.421 0300		0.578 9700	9.985 4072		.230	
		288		307			20		
771	9.406 4659		9.421 0607		0.578 9393	9.985 4052		229	
		287		307			20		
772	9.406 4946		9.421 0914		0.578 9086	9.985 4032		228	
		288		308			20		
773	9.406 5234		9.421 1222		0.578 8778	9.985 4012		227	
		287		307			20		
774	9.406 5521		9.421 1529		0.578 8471	9.985 3992		226	
		287		308			20		
775	9.406 5808		9.421 1837		0.578 8163	9.985 3972		225	
		288		307			20		
776	9.406 6096		9.421 2144		0.578 7856	9.985 3952		224	
		287		307			20		
777	9.406 6383		9.421 2451		0.578 7549	9.985 3932		223	
		288		308			20		
778	9.406 6671		9.421 2759		0.578 7241	9.985 3912		222	
		287		307			20		
779	9.406 6958		9.421 3066		0.578 6934	9.985 3892		221	
		287		307			20		
.780	9.406 7245		9.421 3373		0.578 6627	9.985 3872		.220	
		287		308			20		
781	9.406 7532		9.421 3681		0.578 6319	9.985 3852		219	
		288		307			20		
782	9.406 7820		9.421 3988		0.578 6012	9.985 3832		218	
		287		307			20		
783	9.406 8107		9.421 4295		0.578 5705	9.985 3812		217	
		287		307			20		
784	9.406 8394		9.421 4602		0.578 5398	9.985 3792		216	
		287		308			20		
785	9.406 8681		9.421 4910		0.578 5090	9.985 3772		215	
		288		307			20		
786	9.406 8969		9.421 5217		0.578 4783	9.985 3752		214	
		287		307			20		
787	9.406 9256		9.421 5524		0.578 4476	9.985 3732		213	
		287		307			20		
788	9.406 9543		9.421 5831		0.578 4169	9.985 3712		212	
		287		307			20		
789	9.406 9830		9.421 6138		0.578 3862	9.985 3692		211	
		287		307			20		
.790	9.407 0117		9.421 6445		0.578 3555	9.985 3672		.210	
		287		307			20		
791	9.407 0404		9.421 6752		0.578 3248	9.985 3652		209	
		287		308			20		
792	9.407 0691		9.421 7060		0.578 2940	9.985 3632		208	
		287		307			20		
793	9.407 0978		9.421 7367		0.578 2633	9.985 3612		207	
		287		307			20		
794	9.407 1265		9.421 7674		0.578 2326	9.985 3592		206	
		287		307			20		
795	9.407 1552		9.421 7981		0.578 2019	9.985 3572		205	
		287		307			20		
796	9.407 1839		9.421 8288		0.578 1712	9.985 3552		204	
		287		307			20		
797	9.407 2126		9.421 8595		0.578 1405	9.985 3532		203	
		287		307			20		
798	9.407 2413		9.421 8902		0.578 1098	9.985 3512		202	
		287		307			20		
799	9.407 2700		9.421 9209		0.578 0791	9.985 3492		201	
		287		306			21		
.800	9.407 2987		9.421 9515		0.578 0485	9.985 3471		.200	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	308	307
1	30.8	30.7
2	61.6	61.4
3	92.4	92.1
4	123.2	122.8
5	154.0	153.5
6	184.8	184.2
7	215.6	214.9
8	246.4	245.6
9	277.2	276.3

	306
1	30.6
2	61.2
3	91.8
4	122.4
5	153.0
6	183.6
7	214.2
8	244.8
9	275.4

	288	287
1	28.8	28.7
2	57.6	57.4
3	86.4	86.1
4	115.2	114.8
5	144.0	143.5
6	172.8	172.2
7	201.6	200.9
8	230.4	229.6
9	259.2	258.3

	21	20
1	2.1	2.0
2	4.2	4.0
3	6.3	6.0
4	8.4	8.0
5	10.5	10.0
6	12.6	12.0
7	14.7	14.0
8	16.8	16.0
9	18.9	18.0

	19
1	1.9
2	3.8
3	5.7
4	7.6
5	9.5
6	11.4
7	13.3
8	15.2
9	17.1

75°.250 — 75°.200

14°.800 — 14°.850

14°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.407 2987		9.421 9515		0.578 0485	9.985 3471		.200	
		287		307			20		
801	9.407 3274		9.421 9822		0.578 0178	9.985 3451		199	
802	9.407 3561	287	9.422 0129	307	0.577 9871	9.985 3431	20	198	
803	9.407 3848	287	9.422 0436	307	0.577 9564	9.985 3411	20	197	
		286		307			20		
804	9.407 4134		9.422 0743		0.577 9257	9.985 3391		196	
805	9.407 4421	287	9.422 1050	307	0.577 8950	9.985 3371	20	195	
806	9.407 4708	287	9.422 1357	307	0.577 8643	9.985 3351	20	194	
		287		306			20		
807	9.407 4995		9.422 1663		0.577 8337	9.985 3331		193	
808	9.407 5281	286	9.422 1970	307	0.577 8030	9.985 3311	20	192	
809	9.407 5568	287	9.422 2277	307	0.577 7723	9.985 3291	20	191	
		287		307			20		
.810	9.407 5855		9.422 2584		0.577 7416	9.985 3271		.190	
		286		306			20		
811	9.407 6141		9.422 2890		0.577 7110	9.985 3251		189	
812	9.407 6428	287	9.422 3197	307	0.577 6803	9.985 3231	20	188	
813	9.407 6715	287	9.422 3504	307	0.577 6496	9.985 3211	20	187	
		286		306			20		
814	9.407 7001		9.422 3810		0.577 6190	9.985 3191		186	
815	9.407 7288	287	9.422 4117	307	0.577 5883	9.985 3171	20	185	
816	9.407 7575	287	9.422 4424	307	0.577 5576	9.985 3151	20	184	
		286		306			20		
817	9.407 7861		9.422 4730		0.577 5270	9.985 3131		183	
818	9.407 8148	287	9.422 5037	307	0.577 4963	9.985 3111	20	182	
819	9.407 8434	286	9.422 5343	306	0.577 4657	9.985 3091	20	181	
		287		307			20		
.820	9.407 8721		9.422 5650		0.577 4350	9.985 3071		.180	
		286		306			20		
821	9.407 9007		9.422 5956		0.577 4044	9.985 3051		179	
822	9.407 9294	287	9.422 6263	307	0.577 3737	9.985 3031	20	178	
823	9.407 9580	286	9.422 6569	306	0.577 3431	9.985 3010	21	177	
		286		307			20		
824	9.407 9866		9.422 6876		0.577 3124	9.985 2990		176	
825	9.408 0153	287	9.422 7182	306	0.577 2818	9.985 2970	20	175	
826	9.408 0439	286	9.422 7489	307	0.577 2511	9.985 2950	20	174	
		287		306			20		
827	9.408 0726		9.422 7795		0.577 2205	9.985 2930		173	
828	9.408 1012	286	9.422 8102	307	0.577 1898	9.985 2910	20	172	
829	9.408 1298	286	9.422 8408	306	0.577 1592	9.985 2890	20	171	
		286		306			20		
.830	9.408 1584		9.422 8714		0.577 1286	9.985 2870		.170	
		287		307			20		
831	9.408 1871		9.422 9021		0.577 0979	9.985 2850		169	
832	9.408 2157	286	9.422 9327	306	0.577 0673	9.985 2830	20	168	
833	9.408 2443	286	9.422 9633	306	0.577 0367	9.985 2810	20	167	
		286		307			20		
834	9.408 2729		9.422 9940		0.577 0060	9.985 2790		166	
835	9.408 3016	287	9.423 0246	306	0.576 9754	9.985 2770	20	165	
836	9.408 3302	286	9.423 0552	306	0.576 9448	9.985 2750	20	164	
		286		306			20		
837	9.408 3588		9.423 0858		0.576 9142	9.985 2730		163	
838	9.408 3874	286	9.423 1165	307	0.576 8835	9.985 2709	21	162	
839	9.408 4160	286	9.423 1471	306	0.576 8529	9.985 2689	20	161	
		286		306			20		
.840	9.408 4446		9.423 1777		0.576 8223	9.985 2669		.160	
		286		306			20		
841	9.408 4732		9.423 2083		0.576 7917	9.985 2649		159	
842	9.408 5018	286	9.423 2389	306	0.576 7611	9.985 2629	20	158	
843	9.408 5304	286	9.423 2695	306	0.576 7305	9.985 2609	20	157	
		286		306			20		
844	9.408 5590		9.423 3001		0.576 6999	9.985 2589		156	
845	9.408 5876	286	9.423 3308	307	0.576 6692	9.985 2569	20	155	
846	9.408 6162	286	9.423 3614	306	0.576 6386	9.985 2549	20	154	
		286		306			20		
847	9.408 6448		9.423 3920		0.576 6080	9.985 2529		153	
848	9.408 6734	286	9.423 4226	306	0.576 5774	9.985 2509	20	152	
849	9.408 7020	286	9.423 4532	306	0.576 5468	9.985 2488	21	151	
		286		306			20		
.850	9.408 7306		9.423 4838		0.576 5162	9.985 2468		.150	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	307	306
1	30.7	30.6
2	61.4	61.2
3	92.1	91.8
4	122.8	122.4
5	153.5	153.0
6	184.2	183.6
7	214.9	214.2
8	245.6	244.8
9	276.3	275.4

	287	286
1	28.7	28.6
2	57.4	57.2
3	86.1	85.8
4	114.8	114.4
5	143.5	143.0
6	172.2	171.6
7	200.9	200.2
8	229.6	228.8
9	258.3	257.4

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

	20
1	2.0
2	4.0
3	6.0
4	8.0
5	10.0
6	12.0
7	14.0
8	16.0
9	18.0

75°.200 — 75°.150

$14^\circ.850 - 14^\circ.900$

14°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.408 7306		9.423 4838		0.576 5162	9.985 2468		**.150**	
		286		306			20		
851	9.408 7592		9.423 5144		0.576 4856	9.985 2448		149	
852	9.408 7878	286	9.423 5450	306	0.576 4550	9.985 2428	20	148	
853	9.408 8164	286	9.423 5755	305	0.576 4245	9.985 2408	20	147	
		285		306			20		
854	9.408 8449		9.423 6061		0.576 3939	9.985 2388		146	
855	9.408 8735	286	9.423 6367	306	0.576 3633	9.985 2368	20	145	
856	9.408 9021	286	9.423 6673	306	0.576 3327	9.985 2348	20	144	
		286		306			20		
857	9.408 9307		9.423 6979		0.576 3021	9.985 2328		143	
858	9.408 9592	285	9.423 7285	306	0.576 2715	9.985 2308	20	142	
859	9.408 9878	286	9.423 7591	306	0.576 2409	9.985 2287	21	141	
		286		305			20		
.860	9.409 0164		9.423 7896		0.576 2104	9.985 2267		**.140**	
		285		306			20		
861	9.409 0449		9.423 8202		0.576 1798	9.985 2247		139	
862	9.409 0735	286	9.423 8508	306	0.576 1492	9.985 2227	20	138	
863	9.409 1021	286	9.423 8814	306	0.576 1186	9.985 2207	20	137	
		285		305			20		
864	9.409 1306		9.423 9119		0.576 0881	9.985 2187		136	
865	9.409 1592	286	9.423 9425	306	0.576 0575	9.985 2167	20	135	
866	9.409 1877	285	9.423 9731	306	0.576 0269	9.985 2147	20	134	
		286		305			20		
867	9.409 2163		9.424 0036		0.575 9964	9.985 2127		133	
868	9.409 2448	285	9.424 0342	306	0.575 9658	9.985 2106	21	132	
869	9.409 2734	286	9.424 0648	306	0.575 9352	9.985 2086	20	131	
		285		305			20		
.870	9.409 3019		9.424 0953		0.575 9047	9.985 2066		**.130**	
		286		306			20		
871	9.409 3305		9.424 1259		0.575 8741	9.985 2046		129	
872	9.409 3590	285	9.424 1565	306	0.575 8435	9.985 2026	20	128	
873	9.409 3876	286	9.424 1870	305	0.575 8130	9.985 2006	20	127	
		285		306			20		
874	9.409 4161		9.424 2176		0.575 7824	9.985 1986		126	
875	9.409 4447	286	9.424 2481	305	0.575 7519	9.985 1965	21	125	
876	9.409 4732	285	9.424 2787	306	0.575 7213	9.985 1945	20	124	
		285		305			20		
877	9.409 5017		9.424 3092		0.575 6908	9.985 1925		123	
878	9.409 5303	286	9.424 3398	306	0.575 6602	9.985 1905	20	122	
879	9.409 5588	285	9.424 3703	305	0.575 6297	9.985 1885	20	121	
		285		305			20		
.880	9.409 5873		9.424 4008		0.575 5992	9.985 1865		**.120**	
		285		306			20		
881	9.409 6158		9.424 4314		0.575 5686	9.985 1845		119	
882	9.409 6444	286	9.424 4619	305	0.575 5381	9.985 1825	20	118	
883	9.409 6729	285	9.424 4925	306	0.575 5075	9.985 1804	21	117	
		285		305			20		
884	9.409 7014		9.424 5230		0.575 4770	9.985 1784		116	
885	9.409 7299	285	9.424 5535	305	0.575 4465	9.985 1764	20	115	
886	9.409 7584	285	9.424 5841	306	0.575 4159	9.985 1744	20	114	
		286		305			20		
887	9.409 7870		9.424 6146		0.575 3854	9.985 1724		113	
888	9.409 8155	285	9.424 6451	305	0.575 3549	9.985 1704	20	112	
889	9.409 8440	285	9.424 6756	305	0.575 3244	9.985 1683	21	111	
		285		306			20		
.890	9.409 8725		9.424 7062		0.575 2938	9.985 1663		**.110**	
		285		305			20		
891	9.409 9010		9.424 7367		0.575 2633	9.985 1643		109	
892	9.409 9295	285	9.424 7672	305	0.575 2328	9.985 1623	20	108	
893	9.409 9580	285	9.424 7977	305	0.575 2023	9.985 1603	20	107	
		285		305			20		
894	9.409 9865		9.424 8282		0.575 1718	9.985 1583		106	
895	9.410 0150	285	9.424 8588	306	0.575 1412	9.985 1563	20	105	
896	9.410 0435	285	9.424 8893	305	0.575 1107	9.985 1542	21	104	
		285		305			20		
897	9.410 0720		9.424 9198		0.575 0802	9.985 1522		103	
898	9.410 1005	285	9.424 9503	305	0.575 0497	9.985 1502	20	102	
899	9.410 1290	285	9.424 9808	305	0.575 0192	9.985 1482	20	101	
		285		305			20		
.900	9.410 1575		9.425 0113		0.574 9887	9.985 1462		**.100**	
	cos	d	cotg	d	tang	sin	d	**75°**	P.P.

	306	305
1	30.6	30.5
2	61.2	61.0
3	91.8	91.5
4	122.4	122.0
5	153.0	152.5
6	183.6	183.0
7	214.2	213.5
8	244.8	244.0
9	275.4	274.5

	286	285
1	28.6	28.5
2	57.2	57.0
3	85.8	85.5
4	114.4	114.0
5	143.0	142.5
6	171.6	171.0
7	200.2	199.5
8	228.8	228.0
9	257.4	256.5

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

	20
1	2.0
2	4.0
3	6.0
4	8.0
5	10.0
6	12.0
7	14.0
8	16.0
9	18.0

$75^\circ.150 - 75^\circ.100$

14°.900 — 14°.950

14°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.410 1575		9.425 0113		0.574 9887	9.985 1462		.100	
		285		305			20		
901	9.410 1860		9.425 0418		0.574 9582	9.985 1442		099	
902	9.410 2144	284	9.425 0723	305	0.574 9277	9.985 1421	21	098	
903	9.410 2429	285	9.425 1028	305	0.574 8972	9.985 1401	20	097	
		285		305			20		
904	9.410 2714		9.425 1333		0.574 8667	9.985 1381		096	
905	9.410 2999	285	9.425 1638	305	0.574 8362	9.985 1361	20	095	
906	9.410 3284	285	9.425 1943	305	0.574 8057	9.985 1341	20	094	
		284		305			21		
907	9.410 3568		9.425 2248		0.574 7752	9.985 1320		093	
908	9.410 3853	285	9.425 2553	305	0.574 7447	9.985 1300	20	092	
909	9.410 4138	285	9.425 2858	305	0.574 7142	9.985 1280	20	091	
		284		304			20		
.910	9.410 4422		9.425 3162		0.574 6838	9.985 1260		.090	
		285		305			20		
911	9.410 4707		9.425 3467		0.574 6533	9.985 1240		089	
912	9.410 4992	285	9.425 3772	305	0.574 6228	9.985 1220	20	088	
913	9.410 5276	284	9.425 4077	305	0.574 5923	9.985 1199	21	087	
		285		305			20		
914	9.410 5561		9.425 4382		0.574 5618	9.985 1179		086	
915	9.410 5846	285	9.425 4686	304	0.574 5314	9.985 1159	20	085	
916	9.410 6130	284	9.425 4991	305	0.574 5009	9.985 1139	20	084	
		285		305			20		
917	9.410 6415		9.425 5296		0.574 4704	9.985 1119		083	
918	9.410 6699	284	9.425 5601	305	0.574 4399	9.985 1098	21	082	
919	9.410 6984	285	9.425 5905	304	0.574 4095	9.985 1078	20	081	
		284		305			20		
.920	9.410 7268		9.425 6210		0.574 3790	9.985 1058		.080	
		285		305			20		
921	9.410 7553		9.425 6515		0.574 3485	9.985 1038		079	
922	9.410 7837	284	9.425 6819	304	0.574 3181	9.985 1018	20	078	
923	9.410 8121	284	9.425 7124	305	0.574 2876	9.985 0997	21	077	
		285		305			20		
924	9.410 8406		9.425 7429		0.574 2571	9.985 0977		076	
925	9.410 8690	284	9.425 7733	304	0.574 2267	9.985 0957	20	075	
926	9.410 8975	285	9.425 8038	305	0.574 1962	9.985 0937	20	074	
		284		304			20		
927	9.410 9259		9.425 8342		0.574 1658	9.985 0917		073	
928	9.410 9543	284	9.425 8647	305	0.574 1353	9.985 0896	21	072	
929	9.410 9828	285	9.425 8951	304	0.574 1049	9.985 0876	20	071	
		284		305			20		
.930	9.411 0112		9.425 9256		0.574 0744	9.985 0856		.070	
		284		304			20		
931	9.411 0396		9.425 9560		0.574 0440	9.985 0836		069	
932	9.411 0680	284	9.425 9865	305	0.574 0135	9.985 0816	20	068	
933	9.411 0965	285	9.426 0169	304	0.573 9831	9.985 0795	21	067	
		284		305			20		
934	9.411 1249		9.426 0474		0.573 9526	9.985 0775		066	
935	9.411 1533	284	9.426 0778	304	0.573 9222	9.985 0755	20	065	
936	9.411 1817	284	9.426 1082	304	0.573 8918	9.985 0735	20	064	
		284		305			20		
937	9.411 2101		9.426 1387		0.573 8613	9.985 0715		063	
938	9.411 2385	284	9.426 1691	304	0.573 8309	9.985 0694	21	062	
939	9.411 2670	285	9.426 1995	304	0.573 8005	9.985 0674	20	061	
		284		305			20		
.940	9.411 2954		9.426 2300		0.573 7700	9.985 0654		.060	
		284		304			20		
941	9.411 3238		9.426 2604		0.573 7396	9.985 0634		059	
942	9.411 3522	284	9.426 2908	304	0.573 7092	9.985 0613	21	058	
943	9.411 3806	284	9.426 3213	305	0.573 6787	9.985 0593	20	057	
		284		304			20		
944	9.411 4090		9.426 3517		0.573 6483	9.985 0573		056	
945	9.411 4374	284	9.426 3821	304	0.573 6179	9.985 0553	20	055	
946	9.411 4658	284	9.426 4125	304	0.573 5875	9.985 0532	21	054	
		284		304			20		
947	9.411 4942		9.426 4429		0.573 5571	9.985 0512		053	
948	9.411 5226	284	9.426 4734	305	0.573 5266	9.985 0492	20	052	
949	9.411 5509	283	9.426 5038	304	0.573 4962	9.985 0472	20	051	
		284		304			20		
.950	9.411 5793		9.426 5342		0.573 4658	9.985 0452		.050	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	305	304
1	30.5	30.4
2	61.0	60.8
3	91.5	91.2
4	122.0	121.6
5	152.5	152.0
6	183.0	182.4
7	213.5	212.8
8	244.0	243.2
9	274.5	273.6

	285	284
1	28.5	28.4
2	57.0	56.8
3	85.5	85.2
4	114.0	113.6
5	142.5	142.0
6	171.0	170.4
7	199.5	198.8
8	228.0	227.2
9	256.5	255.6

	283
1	28.3
2	56.6
3	84.9
4	113.2
5	141.5
6	169.8
7	198.1
8	226.4
9	254.7

	21	20
1	2.1	2.0
2	4.2	4.0
3	6.3	6.0
4	8.4	8.0
5	10.5	10.0
6	12.6	12.0
7	14.7	14.0
8	16.8	16.0
9	18.9	18.0

75°.100 — 75°.050

14°.950 — 15°.000

14°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.411 5793		9.426 5342		0.573 4658	9.985 0452		.050	
		284		304			21		
951	9.411 6077		9.426 5646		0.573 4354	9.985 0431		049	
952	9.411 6361	284	9.426 5950	304	0.573 4050	9.985 0411	20	048	
953	9.411 6645	284	9.426 6254	304	0.573 3746	9.985 0391	20	047	
		284		304			20		
954	9.411 6929		9.426 6558		0.573 3442	9.985 0371		046	
955	9.411 7212	283	9.426 6862	304	0.573 3138	9.985 0350	21	045	
956	9.411 7496	284	9.426 7166	304	0.573 2834	9.985 0330	20	044	
		284		304			20		
957	9.411 7780		9.426 7470		0.573 2530	9.985 0310		043	
958	9.411 8064	284	9.426 7774	304	0.573 2226	9.985 0290	20	042	
959	9.411 8347	283	9.426 8078	304	0.573 1922	9.985 0269	21	041	
		284		304			20		
.960	9.411 8631		9.426 8382		0.573 1618	9.985 0249		.040	
		284		304			20		
961	9.411 8915		9.426 8686		0.573 1314	9.985 0229		039	
962	9.411 9198	283	9.426 8990	304	0.573 1010	9.985 0209	20	038	
963	9.411 9482	284	9.426 9294	304	0.573 0706	9.985 0188	21	037	
		284		304			20		
964	9.411 9766		9.426 9598		0.573 0402	9.985 0168		036	
965	9.412 0049	283	9.426 9901	303	0.573 0099	9.985 0148	20	035	
966	9.412 0333	284	9.427 0205	304	0.572 9795	9.985 0128	20	034	
		283		304			21		
967	9.412 0616		9.427 0509		0.572 9491	9.985 0107		033	
968	9.412 0900	284	9.427 0813	304	0.572 9187	9.985 0087	20	032	
969	9.412 1183	283	9.427 1117	304	0.572 8883	9.985 0067	20	031	
		284		303			21		
.970	9.412 1467		9.427 1420		0.572 8580	9.985 0046		.030	
		283		304			20		
971	9.412 1750		9.427 1724		0.572 8276	9.985 0026		029	
972	9.412 2034	284	9.427 2028	304	0.572 7972	9.985 0006	20	028	
973	9.412 2317	283	9.427 2332	304	0.572 7668	9.984 9986	20	027	
		284		303			21		
974	9.412 2601		9.427 2635		0.572 7365	9.984 9965		026	
975	9.412 2884	283	9.427 2939	304	0.572 7061	9.984 9945	20	025	
976	9.412 3167	283	9.427 3243	304	0.572 6757	9.984 9925	20	024	
		284		303			20		
977	9.412 3451		9.427 3546		0.572 6454	9.984 9905		023	
978	9.412 3734	283	9.427 3850	304	0.572 6150	9.984 9884	21	022	
979	9.412 4017	283	9.427 4153	303	0.572 5847	9.984 9864	20	021	
		284		304			20		
.980	9.412 4301		9.427 4457		0.572 5543	9.984 9844		.020	
		283		304			21		
981	9.412 4584		9.427 4761		0.572 5239	9.984 9823		019	
982	9.412 4867	283	9.427 5064	303	0.572 4936	9.984 9803	20	018	
983	9.412 5150	283	9.427 5368	304	0.572 4632	9.984 9783	20	017	
		284		303			20		
984	9.412 5434		9.427 5671		0.572 4329	9.984 9763		016	
985	9.412 5717	283	9.427 5975	304	0.572 4025	9.984 9742	21	015	
986	9.412 6000	283	9.427 6278	303	0.572 3722	9.984 9722	20	014	
		283		303			20		
987	9.412 6283		9.427 6581		0.572 3419	9.984 9702		013	
988	9.412 6566	283	9.427 6885	304	0.572 3115	9.984 9681	21	012	
989	9.412 6849	283	9.427 7188	303	0.572 2812	9.984 9661	20	011	
		283		304			20		
.990	9.412 7132		9.427 7492		0.572 2508	9.984 9641		.010	
		284		303			20		
991	9.412 7416		9.427 7795		0.572 2205	9.984 9621		009	
992	9.412 7699	283	9.427 8098	303	0.572 1902	9.984 9600	21	008	
993	9.412 7982	283	9.427 8402	304	0.572 1598	9.984 9580	20	007	
		283		303			20		
994	9.412 8265		9.427 8705		0.572 1295	9.984 9560		006	
995	9.412 8548	283	9.427 9008	303	0.572 0992	9.984 9539	21	005	
996	9.412 8831	283	9.427 9312	304	0.572 0688	9.984 9519	20	004	
		283		303			20		
997	9.412 9114		9.427 9615		0.572 0385	9.984 9499		003	
998	9.412 9396	282	9.427 9918	303	0.572 0082	9.984 9478	21	002	
999	9.412 9679	283	9.428 0221	303	0.571 9779	9.984 9458	20	001	
		283		304			20		
*.000	9.412 9962		9.428 0525		0.571 9475	9.984 9438		.000	
	cos	d	cotg	d	tang	sin	d	75°	P.P.

	304	303
1	30.4	30.3
2	60.8	60.6
3	91.2	90.9
4	121.6	121.2
5	152.0	151.5
6	182.4	181.8
7	212.8	212.1
8	243.2	242.4
9	273.6	272.7

	284	283
1	28.4	28.3
2	56.8	56.6
3	85.2	84.9
4	113.6	113.2
5	142.0	141.5
6	170.4	169.8
7	198.8	198.1
8	227.2	226.4
9	255.6	254.7

	282
1	28.2
2	56.4
3	84.6
4	112.8
5	141.0
6	169.2
7	197.4
8	225.6
9	253.8

	21	20
1	2.1	2.0
2	4.2	4.0
3	6.3	6.0
4	8.4	8.0
5	10.5	10.0
6	12.6	12.0
7	14.7	14.0
8	16.8	16.0
9	18.9	18.0

75°.050 — 75°.000

15°.000 — 15°.050

15°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.412 9962		9.428 0525		0.571 9475	9.984 9438		*000	
		283		303			21		
001	9.413 0245		9.428 0828		0.571 9172	9.984 9417		999	
002	9.413 0528	283	9.428 1131	303	0.571 8869	9.984 9397	20	998	
003	9.413 0811	283	9.428 1434	303	0.571 8566	9.984 9377	20	997	
		283		303			20		
004	9.413 1094		9.428 1737		0.571 8263	9.984 9357		996	
005	9.413 1376	282	9.428 2040	303	0.571 7960	9.984 9336	21	995	
006	9.413 1659	283	9.428 2343	303	0.571 7657	9.984 9316	20	994	
		283		303			20		
007	9.413 1942		9.428 2646		0.571 7354	9.984 9296		993	
008	9.413 2225	283	9.428 2949	303	0.571 7051	9.984 9275	21	992	
009	9.413 2507	282	9.428 3253	304	0.571 6747	9.984 9255	20	991	
		283		303			20		
.010	9.413 2790		9.428 3556		0.571 6444	9.984 9235		.990	
		283		303			21		
011	9.413 3073		9.428 3859		0.571 6141	9.984 9214		989	
012	9.413 3355	282	9.428 4162	303	0.571 5838	9.984 9194	20	988	
013	9.413 3638	283	9.428 4465	303	0.571 5535	9.984 9174	20	987	
		283		302			21		
014	9.413 3921		9.428 4767		0.571 5233	9.984 9153		986	
015	9.413 4203	282	9.428 5070	303	0.571 4930	9.984 9133	20	985	
016	9.413 4486	283	9.428 5373	303	0.571 4627	9.984 9113	20	984	
		282		303			21		
017	9.413 4768		9.428 5676		0.571 4324	9.984 9092		983	
018	9.413 5051	283	9.428 5979	303	0.571 4021	9.984 9072	20	982	
019	9.413 5334	283	9.428 6282	303	0.571 3718	9.984 9052	20	981	
		282		303			21		
.020	9.413 5616		9.428 6585		0.571 3415	9.984 9031		.980	
		283		303			20		
021	9.413 5899		9.428 6888		0.571 3112	9.984 9011		979	
022	9.413 6181	282	9.428 7190	302	0.571 2810	9.984 8991	20	978	
023	9.413 6463	282	9.428 7493	303	0.571 2507	9.984 8970	21	977	
		283		303			20		
024	9.413 6746		9.428 7796		0.571 2204	9.984 8950		976	
025	9.413 7028	282	9.428 8099	303	0.571 1901	9.984 8930	20	975	
026	9.413 7311	283	9.428 8401	302	0.571 1599	9.984 8909	21	974	
		282		303			20		
027	9.413 7593		9.428 8704		0.571 1296	9.984 8889		973	
028	9.413 7875	282	9.428 9007	303	0.571 0993	9.984 8869	20	972	
029	9.413 8158	283	9.428 9309	302	0.571 0691	9.984 8848	21	971	
		282		303			20		
.030	9.413 8440		9.428 9612		0.571 0388	9.984 8828		.970	
		282		303			21		
031	9.413 8722		9.428 9915		0.571 0085	9.984 8807		969	
032	9.413 9005	283	9.429 0217	302	0.570 9783	9.984 8787	20	968	
033	9.413 9287	282	9.429 0520	303	0.570 9480	9.984 8767	20	967	
		282		303			21		
034	9.413 9569		9.429 0823		0.570 9177	9.984 8746		966	
035	9.413 9851	282	9.429 1125	302	0.570 8875	9.984 8726	20	965	
036	9.414 0133	282	9.429 1428	303	0.570 8572	9.984 8706	20	964	
		283		302			21		
037	9.414 0416		9.429 1730		0.570 8270	9.984 8685		963	
038	9.414 0698	282	9.429 2033	303	0.570 7967	9.984 8665	20	962	
039	9.414 0980	282	9.429 2335	302	0.570 7665	9.984 8645	20	961	
		282		303			21		
.040	9.414 1262		9.429 2638		0.570 7362	9.984 8624		.960	
		282		302			20		
041	9.414 1544		9.429 2940		0.570 7060	9.984 8604		959	
042	9.414 1826	282	9.429 3243	303	0.570 6757	9.984 8584	20	958	
043	9.414 2108	282	9.429 3545	302	0.570 6455	9.984 8563	21	957	
		282		302			20		
044	9.414 2390		9.429 3847		0.570 6153	9.984 8543		956	
045	9.414 2672	282	9.429 4150	303	0.570 5850	9.984 8522	21	955	
046	9.414 2954	282	9.429 4452	302	0.570 5548	9.984 8502	20	954	
		282		302			20		
047	9.414 3236		9.429 4754		0.570 5246	9.984 8482		953	
048	9.414 3518	282	9.429 5057	303	0.570 4943	9.984 8461	21	952	
049	9.414 3800	282	9.429 5359	302	0.570 4641	9.984 8441	20	951	
		282		302			21		
.050	9.414 4082		9.429 5661		0.570 4339	9.984 8420		.950	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	304	303
1	30.4	30.3
2	60.8	60.6
3	91.2	90.9
4	121.6	121.2
5	152.0	151.5
6	182.4	181.8
7	212.8	212.1
8	243.2	242.4
9	273.6	272.7

	302
1	30.2
2	60.4
3	90.6
4	120.8
5	151.0
6	181.2
7	211.4
8	241.6
9	271.8

	283	282
1	28.3	28.2
2	56.6	56.4
3	84.9	84.6
4	113.2	112.8
5	141.5	141.0
6	169.8	169.2
7	198.1	197.4
8	226.4	225.6
9	254.7	253.8

	21	20
1	2.1	2.0
2	4.2	4.0
3	6.3	6.0
4	8.4	8.0
5	10.5	10.0
6	12.6	12.0
7	14.7	14.0
8	16.8	16.0
9	18.9	18.0

75°.000 — 74°.950

15°.050 — 15°.100

15°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.414 4082		9.429 5661		0.570 4339	9.984 8420		.950	
		282		303			20		
051	9.414 4364		9.429 5964		0.570 4036	9.984 8400		949	
052	9.414 4646	282	9.429 6266	302	0.570 3734	9.984 8380	20	948	
053	9.414 4928	282	9.429 6568	302	0.570 3432	9.984 8359	21	947	
		281		302			20		
054	9.414 5209		9.429 6870		0.570 3130	9.984 8339		946	
055	9.414 5491	282	9.429 7173	303	0.570 2827	9.984 8319	20	945	
056	9.414 5773	282	9.429 7475	302	0.570 2525	9.984 8298	21	944	
		282		302			20		
057	9.414 6055		9.429 7777		0.570 2223	9.984 8278		943	
058	9.414 6336	281	9.429 8079	302	0.570 1921	9.984 8257	21	942	
059	9.414 6618	282	9.429 8381	302	0.570 1619	9.984 8237	20	941	
		282		302			20		
.060	9.414 6900		9.429 8683		0.570 1317	9.984 8217		.940	
		282		302			21		
061	9.414 7182		9.429 8985		0.570 1015	9.984 8196		939	
062	9.414 7463	281	9.429 9287	302	0.570 0713	9.984 8176	20	938	
063	9.414 7745	282	9.429 9590	303	0.570 0410	9.984 8155	21	937	
		282		302			20		
064	9.414 8027		9.429 9892		0.570 0108	9.984 8135		936	
065	9.414 8308	281	9.430 0194	302	0.569 9806	9.984 8115	20	935	
066	9.414 8590	282	9.430 0496	302	0.569 9504	9.984 8094	21	934	
		281		302			20		
067	9.414 8871		9.430 0798		0.569 9202	9.984 8074		933	
068	9.414 9153	282	9.430 1100	302	0.569 8900	9.984 8053	21	932	
069	9.414 9434	281	9.430 1401	301	0.569 8599	9.984 8033	20	931	
		282		302			20		
.070	9.414 9716		9.430 1703		0.569 8297	9.984 8013		.930	
		281		302			21		
071	9.414 9997		9.430 2005		0.569 7995	9.984 7992		929	
072	9.415 0279	282	9.430 2307	302	0.569 7693	9.984 7972	20	928	
073	9.415 0560	281	9.430 2609	302	0.569 7391	9.984 7951	21	927	
		282		302			20		
074	9.415 0842		9.430 2911		0.569 7089	9.984 7931		926	
075	9.415 1123	281	9.430 3213	302	0.569 6787	9.984 7911	20	925	
076	9.415 1405	282	9.430 3515	302	0.569 6485	9.984 7890	21	924	
		281		301			20		
077	9.415 1686		9.430 3816		0.569 6184	9.984 7870		923	
078	9.415 1967	281	9.430 4118	302	0.569 5882	9.984 7849	21	922	
079	9.415 2249	282	9.430 4420	302	0.569 5580	9.984 7829	20	921	
		281		302			21		
.080	9.415 2530		9.430 4722		0.569 5278	9.984 7808		.920	
		281		301			20		
081	9.415 2811		9.430 5023		0.569 4977	9.984 7788		919	
082	9.415 3093	282	9.430 5325	302	0.569 4675	9.984 7768	20	918	
083	9.415 3374	281	9.430 5627	302	0.569 4373	9.984 7747	21	917	
		281		301			20		
084	9.415 3655		9.430 5928		0.569 4072	9.984 7727		916	
085	9.415 3936	281	9.430 6230	302	0.569 3770	9.984 7706	21	915	
086	9.415 4218	282	9.430 6532	302	0.569 3468	9.984 7686	20	914	
		281		301			21		
087	9.415 4499		9.430 6833		0.569 3167	9.984 7665		913	
088	9.415 4780	281	9.430 7135	302	0.569 2865	9.984 7645	20	912	
089	9.415 5061	281	9.430 7437	302	0.569 2563	9.984 7625	20	911	
		281		301			21		
.090	9.415 5342		9.430 7738		0.569 2262	9.984 7604		.910	
		281		302			20		
091	9.415 5623		9.430 8040		0.569 1960	9.984 7584		909	
092	9.415 5904	281	9.430 8341	301	0.569 1659	9.984 7563	21	908	
093	9.415 6186	282	9.430 8643	302	0.569 1357	9.984 7543	20	907	
		281		301			21		
094	9.415 6467		9.430 8944		0.569 1056	9.984 7522		906	
095	9.415 6748	281	9.430 9246	302	0.569 0754	9.984 7502	20	905	
096	9.415 7029	281	9.430 9547	301	0.569 0453	9.984 7481	21	904	
		281		302			20		
097	9.415 7310		9.430 9849		0.569 0151	9.984 7461		903	
098	9.415 7591	281	9.431 0150	301	0.568 9850	9.984 7441	20	902	
099	9.415 7872	281	9.431 0451	301	0.568 9549	9.984 7420	21	901	
		280		302			20		
.100	9.415 8152		9.431 0753		0.568 9247	9.984 7400		.900	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	303	302
1	30.3	30.2
2	60.6	60.4
3	90.9	90.6
4	121.2	120.8
5	151.5	151.0
6	181.8	181.2
7	212.1	211.4
8	242.4	241.6
9	272.7	271.8

	301
1	30.1
2	60.2
3	90.3
4	120.4
5	150.5
6	180.6
7	210.7
8	240.8
9	270.9

	282	281
1	28.2	28.1
2	56.4	56.2
3	84.6	84.3
4	112.8	112.4
5	141.0	140.5
6	169.2	168.6
7	197.4	196.7
8	225.6	224.8
9	253.8	252.9

	280
1	28.0
2	56.0
3	84.0
4	112.0
5	140.0
6	168.0
7	196.0
8	224.0
9	252.0

	21	20
1	2.1	2.0
2	4.2	4.0
3	6.3	6.0
4	8.4	8.0
5	10.5	10.0
6	12.6	12.0
7	14.7	14.0
8	16.8	16.0
9	18.9	18.0

74°.950 — 74°.900

15°.100 — 15°.150

15°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.415 8152		9.431 0753		0.568 9247	9.984 7400		.900	
		281		301			21		
101	9.415 8433		9.431 1054		0.568 8946	9.984 7379		899	
102	9.415 8714	281	9.431 1355	301	0.568 8645	9.984 7359	20	898	
103	9.415 8995	281	9.431 1657	302	0.568 8343	9.984 7338	21	897	
		281		301			20		
104	9.415 9276		9.431 1958		0.568 8042	9.984 7318		896	
105	9.415 9557	281	9.431 2259	301	0.568 7741	9.984 7297	21	895	
106	9.415 9838	281	9.431 2561	302	0.568 7439	9.984 7277	20	894	
		280		301			21		
107	9.416 0118		9.431 2862		0.568 7138	9.984 7256		893	
108	9.416 0399	281	9.431 3163	301	0.568 6837	9.984 7236	20	892	
109	9.416 0680	281	9.431 3464	301	0.568 6536	9.984 7216	20	891	
		281		302			21		
.110	9.416 0961		9.431 3766		0.568 6234	9.984 7195		.890	
		280		301			20		
111	9.416 1241		9.431 4067		0.568 5933	9.984 7175		889	
112	9.416 1522	281	9.431 4368	301	0.568 5632	9.984 7154	21	888	
113	9.416 1803	281	9.431 4669	301	0.568 5331	9.984 7134	20	887	
		280		301			21		
114	9.416 2083		9.431 4970		0.568 5030	9.984 7113		886	
115	9.416 2364	281	9.431 5271	301	0.568 4729	9.984 7093	20	885	
116	9.416 2645	281	9.431 5572	301	0.568 4428	9.984 7072	21	884	
		280		302			20		
117	9.416 2925		9.431 5874		0.568 4126	9.984 7052		883	
118	9.416 3206	281	9.431 6175	301	0.568 3825	9.984 7031	21	882	
119	9.416 3486	280	9.431 6476	301	0.568 3524	9.984 7011	20	881	
		281		301			21		
.120	9.416 3767		9.431 6777		0.568 3223	9.984 6990		.880	
		281		301			20		
121	9.416 4048		9.431 7078		0.568 2922	9.984 6970		879	
122	9.416 4328	280	9.431 7379	301	0.568 2621	9.984 6949	21	878	
123	9.416 4609	281	9.431 7680	301	0.568 2320	9.984 6929	20	877	
		280		301			21		
124	9.416 4889		9.431 7981		0.568 2019	9.984 6908		876	
125	9.416 5169	280	9.431 8281	300	0.568 1719	9.984 6888	20	875	
126	9.416 5450	281	9.431 8582	301	0.568 1418	9.984 6867	21	874	
		280		301			20		
127	9.416 5730		9.431 8883		0.568 1117	9.984 6847		873	
128	9.416 6011	281	9.431 9184	301	0.568 0816	9.984 6826	21	872	
129	9.416 6291	280	9.431 9485	301	0.568 0515	9.984 6806	20	871	
		280		301			21		
.130	9.416 6571		9.431 9786		0.568 0214	9.984 6785		.870	
		281		301			20		
131	9.416 6852		9.432 0087		0.567 9913	9.984 6765		869	
132	9.416 7132	280	9.432 0388	301	0.567 9612	9.984 6744	21	868	
133	9.416 7412	280	9.432 0688	300	0.567 9312	9.984 6724	20	867	
		281		301			21		
134	9.416 7693		9.432 0989		0.567 9011	9.984 6703		866	
135	9.416 7973	280	9.432 1290	301	0.567 8710	9.984 6683	20	865	
136	9.416 8253	280	9.432 1591	301	0.567 8409	9.984 6662	21	864	
		280		300			20		
137	9.416 8533		9.432 1891		0.567 8109	9.984 6642		863	
138	9.416 8813	280	9.432 2192	301	0.567 7808	9.984 6621	21	862	
139	9.416 9094	281	9.432 2493	301	0.567 7507	9.984 6601	20	861	
		280		300			21		
.140	9.416 9374		9.432 2793		0.567 7207	9.984 6580		.860	
		280		301			20		
141	9.416 9654		9.432 3094		0.567 6906	9.984 6560		859	
142	9.416 9934	280	9.432 3395	301	0.567 6605	9.984 6539	21	858	
143	9.417 0214	280	9.432 3695	300	0.567 6305	9.984 6519	20	857	
		280		301			21		
144	9.417 0494		9.432 3996		0.567 6004	9.984 6498		856	
145	9.417 0774	280	9.432 4296	300	0.567 5704	9.984 6478	20	855	
146	9.417 1054	280	9.432 4597	301	0.567 5403	9.984 6457	21	854	
		280		300			20		
147	9.417 1334		9.432 4897		0.567 5103	9.984 6437		853	
148	9.417 1614	280	9.432 5198	301	0.567 4802	9.984 6416	21	852	
149	9.417 1894	280	9.432 5498	300	0.567 4502	9.984 6396	20	851	
		280		301			21		
.150	9.417 2174		9.432 5799		0.567 4201	9.984 6375		.850	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	302	301
1	30.2	30.1
2	60.4	60.2
3	90.6	90.3
4	120.8	120.4
5	151.0	150.5
6	181.2	180.6
7	211.4	210.7
8	241.6	240.8
9	271.8	270.9

	300
1	30.0
2	60.0
3	90.0
4	120.0
5	150.0
6	180.0
7	210.0
8	240.0
9	270.0

	281	280
1	28.1	28.0
2	56.2	56.0
3	84.3	84.0
4	112.4	112.0
5	140.5	140.0
6	168.6	168.0
7	196.7	196.0
8	224.8	224.0
9	252.9	252.0

	21	20
1	2.1	2.0
2	4.2	4.0
3	6.3	6.0
4	8.4	8.0
5	10.5	10.0
6	12.6	12.0
7	14.7	14.0
8	16.8	16.0
9	18.9	18.0

74°.900 — 74°.850

15°.150 — 15°.200

15°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.417 2174		9.432 5799		0.567 4201	9.984 6375		.850	
		280		300			20		
151	9.417 2454		9.432 6099		0.567 3901	9.984 6355		849	
		280		301			21		
152	9.417 2734		9.432 6400		0.567 3600	9.984 6334		848	
		280		300			20		
153	9.417 3014		9.432 6700		0.567 3300	9.984 6314		847	
		280		301			21		
154	9.417 3294		9.432 7001		0.567 2999	9.984 6293		846	
		280		300			20		
155	9.417 3574		9.432 7301		0.567 2699	9.984 6273		845	
		280		300			21		
156	9.417 3854		9.432 7601		0.567 2399	9.984 6252		844	
		279		301			20		
157	9.417 4133		9.432 7902		0.567 2098	9.984 6232		843	
		280		300			21		
158	9.417 4413		9.432 8202		0.567 1798	9.984 6211		842	
		280		300			20		
159	9.417 4693		9.432 8502		0.567 1498	9.984 6191		841	
		280		301			21		
.160	9.417 4973		9.432 8803		0.567 1197	9.984 6170		.840	
		280		300			21		
161	9.417 5253		9.432 9103		0.567 0897	9.984 6149		839	
		279		300			20		
162	9.417 5532		9.432 9403		0.567 0597	9.984 6129		838	
		280		301			21		
163	9.417 5812		9.432 9704		0.567 0296	9.984 6108		837	
		280		300			20		
164	9.417 6092		9.433 0004		0.566 9996	9.984 6088		836	
		279		300			21		
165	9.417 6371		9.433 0304		0.566 9696	9.984 6067		835	
		280		300			20		
166	9.417 6651		9.433 0604		0.566 9396	9.984 6047		834	
		280		300			21		
167	9.417 6931		9.433 0904		0.566 9096	9.984 6026		833	
		279		301			20		
168	9.417 7210		9.433 1205		0.566 8795	9.984 6006		832	
		280		300			21		
169	9.417 7490		9.433 1505		0.566 8495	9.984 5985		831	
		279		300			20		
.170	9.417 7769		9.433 1805		0.566 8195	9.984 5965		.830	
		280		300			21		
171	9.417 8049		9.433 2105		0.566 7895	9.984 5944		829	
		279		300			21		
172	9.417 8328		9.433 2405		0.566 7595	9.984 5923		828	
		280		300			20		
173	9.417 8608		9.433 2705		0.566 7295	9.984 5903		827	
		279		300			21		
174	9.417 8887		9.433 3005		0.566 6995	9.984 5882		826	
		280		300			20		
175	9.417 9167		9.433 3305		0.566 6695	9.984 5862		825	
		279		300			21		
176	9.417 9446		9.433 3605		0.566 6395	9.984 5841		824	
		280		300			20		
177	9.417 9726		9.433 3905		0.566 6095	9.984 5821		823	
		279		300			21		
178	9.418 0005		9.433 4205		0.566 5795	9.984 5800		822	
		280		300			20		
179	9.418 0285		9.433 4505		0.566 5495	9.984 5780		821	
		279		300			21		
.180	9.418 0564		9.433 4805		0.566 5195	9.984 5759		.820	
		279		300			21		
181	9.418 0843		9.433 5105		0.566 4895	9.984 5738		819	
		280		300			20		
182	9.418 1123		9.433 5405		0.566 4595	9.984 5718		818	
		279		300			21		
183	9.418 1402		9.433 5705		0.566 4295	9.984 5697		817	
		279		300			20		
184	9.418 1681		9.433 6005		0.566 3995	9.984 5677		816	
		280		300			21		
185	9.418 1961		9.433 6305		0.566 3695	9.984 5656		815	
		279		299			20		
186	9.418 2240		9.433 6604		0.566 3396	9.984 5636		814	
		279		300			21		
187	9.418 2519		9.433 6904		0.566 3096	9.984 5615		813	
		279		300			21		
188	9.418 2798		9.433 7204		0.566 2796	9.984 5594		812	
		280		300			20		
189	9.418 3078		9.433 7504		0.566 2496	9.984 5574		811	
		279		300			21		
.190	9.418 3357		9.433 7804		0.566 2196	9.984 5553		.810	
		279		299			20		
191	9.418 3636		9.433 8103		0.566 1897	9.984 5533		809	
		279		300			21		
192	9.418 3915		9.433 8403		0.566 1597	9.984 5512		808	
		279		300			21		
193	9.418 4194		9.433 8703		0.566 1297	9.984 5491		807	
		279		299			20		
194	9.418 4473		9.433 9002		0.566 0998	9.984 5471		806	
		279		300			21		
195	9.418 4752		9.433 9302		0.566 0698	9.984 5450		805	
		280		300			20		
196	9.418 5032		9.433 9602		0.566 0398	9.984 5430		804	
		279		299			21		
197	9.418 5311		9.433 9901		0.566 0099	9.984 5409		803	
		279		300			20		
198	9.418 5590		9.434 0201		0.565 9799	9.984 5389		802	
		279		300			21		
199	9.418 5869		9.434 0501		0.565 9499	9.984 5368		801	
		279		299			21		
.200	9.418 6148		9.434 0800		0.565 9200	9.984 5347		.800	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	301	300
1	30.1	30.0
2	60.2	60.0
3	90.3	90.0
4	120.4	120.0
5	150.5	150.0
6	180.6	180.0
7	210.7	210.0
8	240.8	240.0
9	270.9	270.0

	299
1	29.9
2	59.8
3	89.7
4	119.6
5	149.5
6	179.4
7	209.3
8	239.2
9	269.1

	280	279
1	28.0	27.9
2	56.0	55.8
3	84.0	83.7
4	112.0	111.6
5	140.0	139.5
6	168.0	167.4
7	196.0	195.3
8	224.0	223.2
9	252.0	251.1

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

	20
1	2.0
2	4.0
3	6.0
4	8.0
5	10.0
6	12.0
7	14.0
8	16.0
9	18.0

74°.850 — 74°.800

15°.200 — 15°.250

15°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.418 6148		9.434 0800		0.565 9200	9.984 5347		.800	
		279		300			20		
201	9.418 6427		9.434 1100		0.565 8900	9.984 5327		799	
202	9.418 6706	279	9.434 1399	299	0.565 8601	9.984 5306	21	798	
203	9.418 6985	279	9.434 1699	300	0.565 8301	9.984 5286	20	797	
		278		299			21		
204	9.418 7263		9.434 1998		0.565 8002	9.984 5265		796	
205	9.418 7542	279	9.434 2298	300	0.565 7702	9.984 5244	21	795	
206	9.418 7821	279	9.434 2597	299	0.565 7403	9.984 5224	20	794	
		279		300			21		
207	9.418 8100		9.434 2897		0.565 7103	9.984 5203		793	
208	9.418 8379	279	9.434 3196	299	0.565 6804	9.984 5183	20	792	
209	9.418 8658	279	9.434 3496	300	0.565 6504	9.984 5162	21	791	
		279		299			21		
.210	9.418 8937		9.434 3795		0.565 6205	9.984 5141		.790	
		278		300			20		
211	9.418 9215		9.434 4095		0.565 5905	9.984 5121		789	
212	9.418 9494	279	9.434 4394	299	0.565 5606	9.984 5100	21	788	
213	9.418 9773	279	9.434 4693	299	0.565 5307	9.984 5080	20	787	
		279		300			21		
214	9.419 0052		9.434 4993		0.565 5007	9.984 5059		786	
215	9.419 0330	278	9.434 5292	299	0.565 4708	9.984 5038	21	785	
216	9.419 0609	279	9.434 5591	299	0.565 4409	9.984 5018	20	784	
		279		300			21		
217	9.419 0888		9.434 5891		0.565 4109	9.984 4997		783	
218	9.419 1166	278	9.434 6190	299	0.565 3810	9.984 4976	21	782	
219	9.419 1445	279	9.434 6489	299	0.565 3511	9.984 4956	20	781	
		278		299			21		
.220	9.419 1723		9.434 6788		0.565 3212	9.984 4935		.780	
		279		300			20		
221	9.419 2002		9.434 7088		0.565 2912	9.984 4915		779	
222	9.419 2281	279	9.434 7387	299	0.565 2613	9.984 4894	21	778	
223	9.419 2559	278	9.434 7686	299	0.565 2314	9.984 4873	21	777	
		279		299			20		
224	9.419 2838		9.434 7985		0.565 2015	9.984 4853		776	
225	9.419 3116	278	9.434 8284	299	0.565 1716	9.984 4832	21	775	
226	9.419 3395	279	9.434 8583	299	0.565 1417	9.984 4811	21	774	
		278		299			20		
227	9.419 3673		9.434 8882		0.565 1118	9.984 4791		773	
228	9.419 3952	279	9.434 9182	300	0.565 0818	9.984 4770	21	772	
229	9.419 4230	278	9.434 9481	299	0.565 0519	9.984 4750	20	771	
		279		299			21		
.230	9.419 4509		9.434 9780		0.565 0220	9.984 4729		.770	
		278		299			21		
231	9.419 4787		9.435 0079		0.564 9921	9.984 4708		769	
232	9.419 5065	278	9.435 0378	299	0.564 9622	9.984 4688	20	768	
233	9.419 5344	279	9.435 0677	299	0.564 9323	9.984 4667	21	767	
		278		299			21		
234	9.419 5622		9.435 0976		0.564 9024	9.984 4646		766	
235	9.419 5900	278	9.435 1275	299	0.564 8725	9.984 4626	20	765	
236	9.419 6179	279	9.435 1574	299	0.564 8426	9.984 4605	21	764	
		278		299			21		
237	9.419 6457		9.435 1873		0.564 8127	9.984 4584		763	
238	9.419 6735	278	9.435 2171	298	0.564 7829	9.984 4564	20	762	
239	9.419 7013	278	9.435 2470	299	0.564 7530	9.984 4543	21	761	
		279		299			21		
.240	9.419 7292		9.435 2769		0.564 7231	9.984 4522		.760	
		278		299			20		
241	9.419 7570		9.435 3068		0.564 6932	9.984 4502		759	
242	9.419 7848	278	9.435 3367	299	0.564 6633	9.984 4481	21	758	
243	9.419 8126	278	9.435 3666	299	0.564 6334	9.984 4461	20	757	
		278		299			21		
244	9.419 8404		9.435 3965		0.564 6035	9.984 4440		756	
245	9.419 8683	279	9.435 4263	298	0.564 5737	9.984 4419	21	755	
246	9.419 8961	278	9.435 4562	299	0.564 5438	9.984 4399	20	754	
		278		299			21		
247	9.419 9239		9.435 4861		0.564 5139	9.984 4378		753	
248	9.419 9517	278	9.435 5160	299	0.564 4840	9.984 4357	21	752	
249	9.419 9795	278	9.435 5458	298	0.564 4542	9.984 4337	20	751	
		278		299			21		
.250	9.420 0073		9.435 5757		0.564 4243	9.984 4316		.750	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	300	299
1	30.0	29.9
2	60.0	59.8
3	90.0	89.7
4	120.0	119.6
5	150.0	149.5
6	180.0	179.4
7	210.0	209.3
8	240.0	239.2
9	270.0	269.1

	298
1	29.8
2	59.6
3	89.4
4	119.2
5	149.0
6	178.8
7	208.6
8	238.4
9	268.2

	279	278
1	27.9	27.8
2	55.8	55.6
3	83.7	83.4
4	111.6	111.2
5	139.5	139.0
6	167.4	166.8
7	195.3	194.6
8	223.2	222.4
9	251.1	250.2

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

	20
1	2.0
2	4.0
3	6.0
4	8.0
5	10.0
6	12.0
7	14.0
8	16.0
9	18.0

74°.800 — 74°.750

15°.250 — 15°.300

15°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.420 0073		9.435 5757		0.564 4243	9.984 4316		.750	
		278		299			21		
251	9.420 0351		9.435 6056		0.564 3944	9.984 4295		749	
252	9.420 0629	278	9.435 6354	298	0.564 3646	9.984 4275	20	748	
253	9.420 0907	278	9.435 6653	299	0.564 3347	9.984 4254	21	747	
		278		299			21		
254	9.420 1185		9.435 6952		0.564 3048	9.984 4233		746	
255	9.420 1463	278	9.435 7250	298	0.564 2750	9.984 4213	20	745	
256	9.420 1741	278	9.435 7549	299	0.564 2451	9.984 4192	21	744	
		278		298			21		
257	9.420 2019		9.435 7847		0.564 2153	9.984 4171		743	
258	9.420 2297	278	9.435 8146	299	0.564 1854	9.984 4151	20	742	
259	9.420 2574	277	9.435 8445	299	0.564 1555	9.984 4130	21	741	
		278		298			21		
.260	9.420 2852		9.435 8743		0.564 1257	9.984 4109		.740	
		278		299			21		
261	9.420 3130		9.435 9042		0.564 0958	9.984 4088		739	
262	9.420 3408	278	9.435 9340	298	0.564 0660	9.984 4068	20	738	
263	9.420 3686	278	9.435 9639	299	0.564 0361	9.984 4047	21	737	
		277		298			21		
264	9.420 3963		9.435 9937		0.564 0063	9.984 4026		736	
265	9.420 4241	278	9.436 0235	298	0.563 9765	9.984 4006	20	735	
266	9.420 4519	278	9.436 0534	299	0.563 9466	9.984 3985	21	734	
		278		298			21		
267	9.420 4797		9.436 0832		0.563 9168	9.984 3964		733	
268	9.420 5074	277	9.436 1131	299	0.563 8869	9.984 3944	20	732	
269	9.420 5352	278	9.436 1429	298	0.563 8571	9.984 3923	21	731	
		278		298			21		
.270	9.420 5630		9.436 1727		0.563 8273	9.984 3902		.730	
		277		299			20		
271	9.420 5907		9.436 2026		0.563 7974	9.984 3882		729	
272	9.420 6185	278	9.436 2324	298	0.563 7676	9.984 3861	21	728	
273	9.420 6462	277	9.436 2622	298	0.563 7378	9.984 3840	21	727	
		278		299			20		
274	9.420 6740		9.436 2921		0.563 7079	9.984 3820		726	
275	9.420 7018	278	9.436 3219	298	0.563 6781	9.984 3799	21	725	
276	9.420 7295	277	9.436 3517	298	0.563 6483	9.984 3778	21	724	
		278		298			21		
277	9.420 7573		9.436 3815		0.563 6185	9.984 3757		723	
278	9.420 7850	277	9.436 4113	298	0.563 5887	9.984 3737	20	722	
279	9.420 8128	278	9.436 4412	299	0.563 5588	9.984 3716	21	721	
		277		298			21		
.280	9.420 8405		9.436 4710		0.563 5290	9.984 3695		.720	
		278		298			20		
281	9.420 8683		9.436 5008		0.563 4992	9.984 3675		719	
282	9.420 8960	277	9.436 5306	298	0.563 4694	9.984 3654	21	718	
283	9.420 9237	277	9.436 5604	298	0.563 4396	9.984 3633	21	717	
		278		298			21		
284	9.420 9515		9.436 5902		0.563 4098	9.984 3612		716	
285	9.420 9792	277	9.436 6200	298	0.563 3800	9.984 3592	20	715	
286	9.421 0069	277	9.436 6498	298	0.563 3502	9.984 3571	21	714	
		278		299			21		
287	9.421 0347		9.436 6797		0.563 3203	9.984 3550		713	
288	9.421 0624	277	9.436 7095	298	0.563 2905	9.984 3530	20	712	
289	9.421 0901	277	9.436 7393	298	0.563 2607	9.984 3509	21	711	
		278		298			21		
.290	9.421 1179		9.436 7691		0.563 2309	9.984 3488		.710	
		277		298			21		
291	9.421 1456		9.436 7989		0.563 2011	9.984 3467		709	
292	9.421 1733	277	9.436 8286	297	0.563 1714	9.984 3447	20	708	
293	9.421 2010	277	9.436 8584	298	0.563 1416	9.984 3426	21	707	
		278		298			21		
294	9.421 2288		9.436 8882		0.563 1118	9.984 3405		706	
295	9.421 2565	277	9.436 9180	298	0.563 0820	9.984 3385	20	705	
296	9.421 2842	277	9.436 9478	298	0.563 0522	9.984 3364	21	704	
		277		298			21		
297	9.421 3119		9.436 9776		0.563 0224	9.984 3343		703	
298	9.421 3396	277	9.437 0074	298	0.562 9926	9.984 3322	21	702	
299	9.421 3673	277	9.437 0372	298	0.562 9628	9.984 3302	20	701	
		277		298			21		
.300	9.421 3950		9.437 0670		0.562 9330	9.984 3281		.700	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	299	298
1	29.9	29.8
2	59.8	59.6
3	89.7	89.4
4	119.6	119.2
5	149.5	149.0
6	179.4	178.8
7	209.3	208.6
8	239.2	238.4
9	269.1	268.2

	297
1	29.7
2	59.4
3	89.1
4	118.8
5	148.5
6	178.2
7	207.9
8	237.6
9	267.3

	278	277
1	27.8	27.7
2	55.6	55.4
3	83.4	83.1
4	111.2	110.8
5	139.0	138.5
6	166.8	166.2
7	194.6	193.9
8	222.4	221.6
9	250.2	249.3

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

	20
1	2.0
2	4.0
3	6.0
4	8.0
5	10.0
6	12.0
7	14.0
8	16.0
9	18.0

74°.750 — 74°.700

15°.300 — 15°.350

15°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.421 3950		9.437 0670		0.562 9330	9.984 3281		**.700**	
		277		297			21		
301	9.421 4227		9.437 0967		0.562 9033	9.984 3260		699	
302	9.421 4504	277	9.437 1265	298	0.562 8735	9.984 3239	21	698	
303	9.421 4782	278	9.437 1563	298	0.562 8437	9.984 3219	20	697	
		277		298			21		
304	9.421 5059		9.437 1861		0.562 8139	9.984 3198		696	
305	9.421 5335	276	9.437 2158	297	0.562 7842	9.984 3177	21	695	
306	9.421 5612	277	9.437 2456	298	0.562 7544	9.984 3156	21	694	
		277		298			20		
307	9.421 5889		9.437 2754		0.562 7246	9.984 3136		693	
308	9.421 6166	277	9.437 3051	297	0.562 6949	9.984 3115	21	692	
309	9.421 6443	277	9.437 3349	298	0.562 6651	9.984 3094	21	691	
		277		298			21		
.310	9.421 6720		9.437 3647		0.562 6353	9.984 3073		**.690**	
		277		297			20		
311	9.421 6997		9.437 3944		0.562 6056	9.984 3053		689	
312	9.421 7274	277	9.437 4242	298	0.562 5758	9.984 3032	21	688	
313	9.421 7551	277	9.437 4540	298	0.562 5460	9.984 3011	21	687	
		277		297			21		
314	9.421 7828		9.437 4837		0.562 5163	9.984 2990		686	
315	9.421 8104	276	9.437 5135	298	0.562 4865	9.984 2970	20	685	
316	9.421 8381	277	9.437 5432	297	0.562 4568	9.984 2949	21	684	
		277		298			21		
317	9.421 8658		9.437 5730		0.562 4270	9.984 2928		683	
318	9.421 8935	277	9.437 6027	297	0.562 3973	9.984 2907	21	682	
319	9.421 9211	276	9.437 6325	298	0.562 3675	9.984 2887	20	681	
		277		297			21		
.320	9.421 9488		9.437 6622		0.562 3378	9.984 2866		**.680**	
		277		298			21		
321	9.421 9765		9.437 6920		0.562 3080	9.984 2845		679	
322	9.422 0041	276	9.437 7217	297	0.562 2783	9.984 2824	21	678	
323	9.422 0318	277	9.437 7514	297	0.562 2486	9.984 2804	20	677	
		277		298			21		
324	9.422 0595		9.437 7812		0.562 2188	9.984 2783		676	
325	9.422 0871	276	9.437 8109	297	0.562 1891	9.984 2762	21	675	
326	9.422 1148	277	9.437 8407	298	0.562 1593	9.984 2741	21	674	
		276		297			21		
327	9.422 1424		9.437 8704		0.562 1296	9.984 2720		673	
328	9.422 1701	277	9.437 9001	297	0.562 0999	9.984 2700	20	672	
329	9.422 1978	277	9.437 9299	298	0.562 0701	9.984 2679	21	671	
		276		297			21		
.330	9.422 2254		9.437 9596		0.562 0404	9.984 2658		**.670**	
		277		297			21		
331	9.422 2531		9.437 9893		0.562 0107	9.984 2637		669	
332	9.422 2807	276	9.438 0190	297	0.561 9810	9.984 2617	20	668	
333	9.422 3083	276	9.438 0488	298	0.561 9512	9.984 2596	21	667	
		277		297			21		
334	9.422 3360		9.438 0785		0.561 9215	9.984 2575		666	
335	9.422 3636	276	9.438 1082	297	0.561 8918	9.984 2554	21	665	
336	9.422 3913	277	9.438 1379	297	0.561 8621	9.984 2533	21	664	
		276		297			20		
337	9.422 4189		9.438 1676		0.561 8324	9.984 2513		663	
338	9.422 4465	276	9.438 1974	298	0.561 8026	9.984 2492	21	662	
339	9.422 4742	277	9.438 2271	297	0.561 7729	9.984 2471	21	661	
		276		297			21		
.340	9.422 5018		9.438 2568		0.561 7432	9.984 2450		**.660**	
		276		297			21		
341	9.422 5294		9.438 2865		0.561 7135	9.984 2429		659	
342	9.422 5571	277	9.438 3162	297	0.561 6838	9.984 2409	20	658	
343	9.422 5847	276	9.438 3459	297	0.561 6541	9.984 2388	21	657	
		276		297			21		
344	9.422 6123		9.438 3756		0.561 6244	9.984 2367		656	
345	9.422 6399	276	9.438 4053	297	0.561 5947	9.984 2346	21	655	
346	9.422 6676	277	9.438 4350	297	0.561 5650	9.984 2325	21	654	
		276		297			20		
347	9.422 6952		9.438 4647		0.561 5353	9.984 2305		653	
348	9.422 7228	276	9.438 4944	297	0.561 5056	9.984 2284	21	652	
349	9.422 7504	276	9.438 5241	297	0.561 4759	9.984 2263	21	651	
		276		297			21		
.350	9.422 7780		9.438 5538		0.561 4462	9.984 2242		**.650**	
	cos	d	cotg	d	tang	sin	d	**74°**	P.P.

	298	297
1	29.8	29.7
2	59.6	59.4
3	89.4	89.1
4	119.2	118.8
5	149.0	148.5
6	178.8	178.2
7	208.6	207.9
8	238.4	237.6
9	268.2	267.3

	278	277
1	27.8	27.7
2	55.6	55.4
3	83.4	83.1
4	111.2	110.8
5	139.0	138.5
6	166.8	166.2
7	194.6	193.9
8	222.4	221.6
9	250.2	249.3

	276
1	27.6
2	55.2
3	82.8
4	110.4
5	138.0
6	165.6
7	193.2
8	220.8
9	248.4

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

	20
1	2.0
2	4.0
3	6.0
4	8.0
5	10.0
6	12.0
7	14.0
8	16.0
9	18.0

74°.700 — 74°.650

15°.350 — 15°.400

15°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.422 7780		9.438 5538		0.561 4462	9.984 2242		.650	
		276		297			21		
351	9.422 8056		9.438 5835		0.561 4165	9.984 2221		649	
352	9.422 8333	277	9.438 6132	297	0.561 3868	9.984 2201	20	648	
353	9.422 8609	276	9.438 6429	297	0.561 3571	9.984 2180	21	647	
		276		297			21		
354	9.422 8885		9.438 6726		0.561 3274	9.984 2159		646	
355	9.422 9161	276	9.438 7023	297	0.561 2977	9.984 2138	21	645	
356	9.422 9437	276	9.438 7319	296	0.561 2681	9.984 2117	21	644	
		276		297			20		
357	9.422 9713		9.438 7616		0.561 2384	9.984 2097		643	
358	9.422 9989	276	9.438 7913	297	0.561 2087	9.984 2076	21	642	
359	9.423 0265	276	9.438 8210	297	0.561 1790	9.984 2055	21	641	
		276		297			21		
.360	9.423 0541		9.438 8507		0.561 1493	9.984 2034		.640	
		276		296			21		
361	9.423 0817		9.438 8803		0.561 1197	9.984 2013		639	
362	9.423 1092	275	9.438 9100	297	0.561 0900	9.984 1992	21	638	
363	9.423 1368	276	9.438 9397	297	0.561 0603	9.984 1972	20	637	
		276		296			21		
364	9.423 1644		9.438 9693		0.561 0307	9.984 1951		636	
365	9.423 1920	276	9.438 9990	297	0.561 0010	9.984 1930	21	635	
366	9.423 2196	276	9.439 0287	297	0.560 9713	9.984 1909	21	634	
		276		296			21		
367	9.423 2472		9.439 0583		0.560 9417	9.984 1888		633	
368	9.423 2748	276	9.439 0880	297	0.560 9120	9.984 1868	20	632	
369	9.423 3023	275	9.439 1177	297	0.560 8823	9.984 1847	21	631	
		276		296			21		
.370	9.423 3299		9.439 1473		0.560 8527	9.984 1826		.630	
		276		297			21		
371	9.423 3575		9.439 1770		0.560 8230	9.984 1805		629	
372	9.423 3851	276	9.439 2066	296	0.560 7934	9.984 1784	21	628	
373	9.423 4126	275	9.439 2363	297	0.560 7637	9.984 1763	21	627	
		276		296			21		
374	9.423 4402		9.439 2659		0.560 7341	9.984 1742		626	
375	9.423 4678	276	9.439 2956	297	0.560 7044	9.984 1722	20	625	
376	9.423 4953	275	9.439 3252	296	0.560 6748	9.984 1701	21	624	
		276		297			21		
377	9.423 5229		9.439 3549		0.560 6451	9.984 1680		623	
378	9.423 5504	275	9.439 3845	296	0.560 6155	9.984 1659	21	622	
379	9.423 5780	276	9.439 4142	297	0.560 5858	9.984 1638	21	621	
		276		296			21		
.380	9.423 6056		9.439 4438		0.560 5562	9.984 1617		.620	
		275		297			20		
381	9.423 6331		9.439 4735		0.560 5265	9.984 1597		619	
382	9.423 6607	276	9.439 5031	296	0.560 4969	9.984 1576	21	618	
383	9.423 6882	275	9.439 5327	296	0.560 4673	9.984 1555	21	617	
		276		297			21		
384	9.423 7158		9.439 5624		0.560 4376	9.984 1534		616	
385	9.423 7433	275	9.439 5920	296	0.560 4080	9.984 1513	21	615	
386	9.423 7709	276	9.439 6216	296	0.560 3784	9.984 1492	21	614	
		275		297			21		
387	9.423 7984		9.439 6513		0.560 3487	9.984 1471		613	
388	9.423 8260	276	9.439 6809	296	0.560 3191	9.984 1451	20	612	
389	9.423 8535	275	9.439 7105	296	0.560 2895	9.984 1430	21	611	
		275		296			21		
.390	9.423 8810		9.439 7401		0.560 2599	9.984 1409		.610	
		276		297			21		
391	9.423 9086		9.439 7698		0.560 2302	9.984 1388		609	
392	9.423 9361	275	9.439 7994	296	0.560 2006	9.984 1367	21	608	
393	9.423 9636	275	9.439 8290	296	0.560 1710	9.984 1346	21	607	
		276		296			21		
394	9.423 9912		9.439 8586		0.560 1414	9.984 1325		606	
395	9.424 0187	275	9.439 8882	296	0.560 1118	9.984 1305	20	605	
396	9.424 0462	275	9.439 9179	297	0.560 0821	9.984 1284	21	604	
		275		296			21		
397	9.424 0737		9.439 9475		0.560 0525	9.984 1263		603	
398	9.424 1013	276	9.439 9771	296	0.560 0229	9.984 1242	21	602	
399	9.424 1288	275	9.440 0067	296	0.559 9933	9.984 1221	21	601	
		275		296			21		
.400	9.424 1563		9.440 0363		0.559 9637	9.984 1200		.600	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	297	296
1	29.7	29.6
2	59.4	59.2
3	89.1	88.8
4	118.8	118.4
5	148.5	148.0
6	178.2	177.6
7	207.9	207.2
8	237.6	236.8
9	267.3	266.4

	277	276
1	27.7	27.6
2	55.4	55.2
3	83.1	82.8
4	110.8	110.4
5	138.5	138.0
6	166.2	165.6
7	193.9	193.2
8	221.6	220.8
9	249.3	248.4

	275
1	27.5
2	55.0
3	82.5
4	110.0
5	137.5
6	165.0
7	192.5
8	220.0
9	247.5

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

	20
1	2.0
2	4.0
3	6.0
4	8.0
5	10.0
6	12.0
7	14.0
8	16.0
9	18.0

74°.650 — 74°.600

15°.400 — 15°.450

15°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.424 1563		9.440 0363		0.559 9637	9.984 1200		.600	
		275		296			21		
401	9.424 1838		9.440 0659		0.559 9341	9.984 1179		599	
402	9.424 2113	275	9.440 0955	296	0.559 9045	9.984 1158	21	598	
403	9.424 2389	276	9.440 1251	296	0.559 8749	9.984 1137	21	597	
		275		296			20		
404	9.424 2664		9.440 1547		0.559 8453	9.984 1117		596	
405	9.424 2939	275	9.440 1843	296	0.559 8157	9.984 1096	21	595	
406	9.424 3214	275	9.440 2139	296	0.559 7861	9.984 1075	21	594	
		275		296			21		
407	9.424 3489		9.440 2435		0.559 7565	9.984 1054		593	
408	9.424 3764	275	9.440 2731	296	0.559 7269	9.984 1033	21	592	
409	9.424 4039	275	9.440 3027	296	0.559 6973	9.984 1012	21	591	
		275		296			21		
.410	9.424 4314		9.440 3323		0.559 6677	9.984 0991		.590	
		275		296			21		
411	9.424 4589		9.440 3619		0.559 6381	9.984 0970		589	
412	9.424 4864	275	9.440 3914	295	0.559 6086	9.984 0949	21	588	
413	9.424 5139	275	9.440 4210	296	0.559 5790	9.984 0929	20	587	
		275		296			21		
414	9.424 5414		9.440 4506		0.559 5494	9.984 0908		586	
415	9.424 5689	275	9.440 4802	296	0.559 5198	9.984 0887	21	585	
416	9.424 5964	275	9.440 5098	296	0.559 4902	9.984 0866	21	584	
		275		296			21		
417	9.424 6239		9.440 5394		0.559 4606	9.984 0845		583	
418	9.424 6513	274	9.440 5689	295	0.559 4311	9.984 0824	21	582	
419	9.424 6788	275	9.440 5985	296	0.559 4015	9.984 0803	21	581	
		275		296			21		
.420	9.424 7063		9.440 6281		0.559 3719	9.984 0782		.580	
		275		296			21		
421	9.424 7338		9.440 6577		0.559 3423	9.984 0761		579	
422	9.424 7613	275	9.440 6872	295	0.559 3128	9.984 0740	21	578	
423	9.424 7887	274	9.440 7168	296	0.559 2832	9.984 0720	20	577	
		275		296			21		
424	9.424 8162		9.440 7464		0.559 2536	9.984 0699		576	
425	9.424 8437	275	9.440 7759	295	0.559 2241	9.984 0678	21	575	
426	9.424 8712	275	9.440 8055	296	0.559 1945	9.984 0657	21	574	
		274		295			21		
427	9.424 8986		9.440 8350		0.559 1650	9.984 0636		573	
428	9.424 9261	275	9.440 8646	296	0.559 1354	9.984 0615	21	572	
429	9.424 9536	275	9.440 8942	296	0.559 1058	9.984 0594	21	571	
		274		295			21		
.430	9.424 9810		9.440 9237		0.559 0763	9.984 0573		.570	
		275		296			21		
431	9.425 0085		9.440 9533		0.559 0467	9.984 0552		569	
432	9.425 0359	274	9.440 9828	295	0.559 0172	9.984 0531	21	568	
433	9.425 0634	275	9.441 0124	296	0.558 9876	9.984 0510	21	567	
		275		295			21		
434	9.425 0909		9.441 0419		0.558 9581	9.984 0489		566	
435	9.425 1183	274	9.441 0715	296	0.558 9285	9.984 0469	20	565	
436	9.425 1458	275	9.441 1010	295	0.558 8990	9.984 0448	21	564	
		274		295			21		
437	9.425 1732		9.441 1305		0.558 8695	9.984 0427		563	
438	9.425 2007	275	9.441 1601	296	0.558 8399	9.984 0406	21	562	
439	9.425 2281	274	9.441 1896	295	0.558 8104	9.984 0385	21	561	
		275		296			21		
.440	9.425 2556		9.441 2192		0.558 7808	9.984 0364		.560	
		274		295			21		
441	9.425 2830		9.441 2487		0.558 7513	9.984 0343		559	
442	9.425 3104	274	9.441 2782	295	0.558 7218	9.984 0322	21	558	
443	9.425 3379	275	9.441 3078	296	0.558 6922	9.984 0301	21	557	
		274		295			21		
444	9.425 3653		9.441 3373		0.558 6627	9.984 0280		556	
445	9.425 3927	274	9.441 3668	295	0.558 6332	9.984 0259	21	555	
446	9.425 4202	275	9.441 3964	296	0.558 6036	9.984 0238	21	554	
		274		295			21		
447	9.425 4476		9.441 4259		0.558 5741	9.984 0217		553	
448	9.425 4750	274	9.441 4554	295	0.558 5446	9.984 0196	21	552	
449	9.425 5025	275	9.441 4849	295	0.558 5151	9.984 0175	21	551	
		274		296			21		
.450	9.425 5299		9.441 5145		0.558 4855	9.984 0154		.550	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	296	295
1	29.6	29.5
2	59.2	59.0
3	88.8	88.5
4	118.4	118.0
5	148.0	147.5
6	177.6	177.0
7	207.2	206.5
8	236.8	236.0
9	266.4	265.5

	276	275
1	27.6	27.5
2	55.2	55.0
3	82.8	82.5
4	110.4	110.0
5	138.0	137.5
6	165.6	165.0
7	193.2	192.5
8	220.8	220.0
9	248.4	247.5

	274
1	27.4
2	54.8
3	82.2
4	109.6
5	137.0
6	164.4
7	191.8
8	219.2
9	246.6

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

	20
1	2.0
2	4.0
3	6.0
4	8.0
5	10.0
6	12.0
7	14.0
8	16.0
9	18.0

74°.600 — 74°.550

15°.450 — 15°.500

15°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.425 5299		9.441 5145		0.558 4855	9.984 0154		.550	
		274		295			21		
451	9.425 5573		9.441 5440		0.558 4560	9.984 0133		549	
452	9.425 5847	274	9.441 5735	295	0.558 4265	9.984 0113	20	548	
453	9.425 6122	275	9.441 6030	295	0.558 3970	9.984 0092	21	547	
		274		295			21		
454	9.425 6396		9.441 6325		0.558 3675	9.984 0071		546	
455	9.425 6670	274	9.441 6620	295	0.558 3380	9.984 0050	21	545	
456	9.425 6944	274	9.441 6915	295	0.558 3085	9.984 0029	21	544	
		274		296			21		
457	9.425 7218		9.441 7211		0.558 2789	9.984 0008		543	
458	9.425 7492	274	9.441 7506	295	0.558 2494	9.983 9987	21	542	
459	9.425 7766	274	9.441 7801	295	0.558 2199	9.983 9966	21	541	
		275		295			21		
.460	9.425 8041		9.441 8096		0.558 1904	9.983 9945		.540	
		274		295			21		
461	9.425 8315		9.441 8391		0.558 1609	9.983 9924		539	
462	9.425 8589	274	9.441 8686	295	0.558 1314	9.983 9903	21	538	
463	9.425 8863	274	9.441 8981	295	0.558 1019	9.983 9882	21	537	
		274		295			21		
464	9.425 9137		9.441 9276		0.558 0724	9.983 9861		536	
465	9.425 9411	274	9.441 9571	295	0.558 0429	9.983 9840	21	535	
466	9.425 9685	274	9.441 9866	295	0.558 0134	9.983 9819	21	534	
		274		294			21		
467	9.425 9959		9.442 0160		0.557 9840	9.983 9798		533	
468	9.426 0232	273	9.442 0455	295	0.557 9545	9.983 9777	21	532	
469	9.426 0506	274	9.442 0750	295	0.557 9250	9.983 9756	21	531	
		274		295			21		
.470	9.426 0780		9.442 1045		0.557 8955	9.983 9735		.530	
		274		295			21		
471	9.426 1054		9.442 1340		0.557 8660	9.983 9714		529	
472	9.426 1328	274	9.442 1635	295	0.557 8365	9.983 9693	21	528	
473	9.426 1602	274	9.442 1930	295	0.557 8070	9.983 9672	21	527	
		274		294			21		
474	9.426 1876		9.442 2224		0.557 7776	9.983 9651		526	
475	9.426 2149	273	9.442 2519	295	0.557 7481	9.983 9630	21	525	
476	9.426 2423	274	9.442 2814	295	0.557 7186	9.983 9609	21	524	
		274		295			21		
477	9.426 2697		9.442 3109		0.557 6891	9.983 9588		523	
478	9.426 2971	274	9.442 3403	294	0.557 6597	9.983 9567	21	522	
479	9.426 3244	273	9.442 3698	295	0.557 6302	9.983 9546	21	521	
		274		295			21		
.480	9.426 3518		9.442 3993		0.557 6007	9.983 9525		.520	
		274		294			21		
481	9.426 3792		9.442 4287		0.557 5713	9.983 9504		519	
482	9.426 4065	273	9.442 4582	295	0.557 5418	9.983 9483	21	518	
483	9.426 4339	274	9.442 4877	295	0.557 5123	9.983 9462	21	517	
		274		294			21		
484	9.426 4613		9.442 5171		0.557 4829	9.983 9441		516	
485	9.426 4886	273	9.442 5466	295	0.557 4534	9.983 9420	21	515	
486	9.426 5160	274	9.442 5761	295	0.557 4239	9.983 9399	21	514	
		273		294			21		
487	9.426 5433		9.442 6055		0.557 3945	9.983 9378		513	
488	9.426 5707	274	9.442 6350	295	0.557 3650	9.983 9357	21	512	
489	9.426 5981	274	9.442 6644	294	0.557 3356	9.983 9336	21	511	
		273		295			21		
.490	9.426 6254		9.442 6939		0.557 3061	9.983 9315		.510	
		274		294			21		
491	9.426 6528		9.442 7233		0.557 2767	9.983 9294		509	
492	9.426 6801	273	9.442 7528	295	0.557 2472	9.983 9273	21	508	
493	9.426 7075	274	9.442 7822	294	0.557 2178	9.983 9252	21	507	
		273		295			21		
494	9.426 7348		9.442 8117		0.557 1883	9.983 9231		506	
495	9.426 7621	273	9.442 8411	294	0.557 1589	9.983 9210	21	505	
496	9.426 7895	274	9.442 8706	295	0.557 1294	9.983 9189	21	504	
		273		294			21		
497	9.426 8168		9.442 9000		0.557 1000	9.983 9168		503	
498	9.426 8442	274	9.442 9294	294	0.557 0706	9.983 9147	21	502	
499	9.426 8715	273	9.442 9589	295	0.557 0411	9.983 9126	21	501	
		273		294			21		
.500	9.426 8988		9.442 9883		0.557 0117	9.983 9105		.500	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	296	295
1	29.6	29.5
2	59.2	59.0
3	88.8	88.5
4	118.4	118.0
5	148.0	147.5
6	177.6	177.0
7	207.2	206.5
8	236.8	236.0
9	266.4	265.5

	294
1	29.4
2	58.8
3	88.2
4	117.6
5	147.0
6	176.4
7	205.8
8	235.2
9	264.6

	275	274
1	27.5	27.4
2	55.0	54.8
3	82.5	82.2
4	110.0	109.6
5	137.5	137.0
6	165.0	164.4
7	192.5	191.8
8	220.0	219.2
9	247.5	246.6

	273
1	27.3
2	54.6
3	81.9
4	109.2
5	136.5
6	163.8
7	191.1
8	218.4
9	245.7

	21	20
1	2.1	2.0
2	4.2	4.0
3	6.3	6.0
4	8.4	8.0
5	10.5	10.0
6	12.6	12.0
7	14.7	14.0
8	16.8	16.0
9	18.9	18.0

74°.550 — 74°.500

15°.500 — 15°.550

15°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.426 8988		9.442 9883		0.557 0117	9.983 9105		.500	
		274		294			21		
501	9.426 9262		9.443 0177		0.556 9823	9.983 9084		499	
502	9.426 9535	273	9.443 0472	295	0.556 9528	9.983 9063	21	498	
503	9.426 9808	273	9.443 0766	294	0.556 9234	9.983 9042	21	497	
		273		294			21		
504	9.427 0081		9.443 1060		0.556 8940	9.983 9021		496	
505	9.427 0355	274	9.443 1355	295	0.556 8645	9.983 9000	21	495	
506	9.427 0628	273	9.443 1649	294	0.556 8351	9.983 8979	21	494	
		273		294			21		
507	9.427 0901		9.443 1943		0.556 8057	9.983 8958		493	
508	9.427 1174	273	9.443 2237	294	0.556 7763	9.983 8937	21	492	
509	9.427 1447	273	9.443 2531	294	0.556 7469	9.983 8916	21	491	
		274		295			21		
.510	9.427 1721		9.443 2826		0.556 7174	9.983 8895		.490	
		273		294			21		
511	9.427 1994		9.443 3120		0.556 6880	9.983 8874		489	
512	9.427 2267	273	9.443 3414	294	0.556 6586	9.983 8853	21	488	
513	9.427 2540	273	9.443 3708	294	0.556 6292	9.983 8832	21	487	
		273		294			21		
514	9.427 2813		9.443 4002		0.556 5998	9.983 8811		486	
515	9.427 3086	273	9.443 4296	294	0.556 5704	9.983 8790	21	485	
516	9.427 3359	273	9.443 4590	294	0.556 5410	9.983 8769	21	484	
		273		294			21		
517	9.427 3632		9.443 4884		0.556 5116	9.983 8748		483	
518	9.427 3905	273	9.443 5178	294	0.556 4822	9.983 8727	21	482	
519	9.427 4178	273	9.443 5472	294	0.556 4528	9.983 8706	21	481	
		273		295			22		
.520	9.427 4451		9.443 5767		0.556 4233	9.983 8684		.480	
		273		293			21		
521	9.427 4724		9.443 6060		0.556 3940	9.983 8663		479	
522	9.427 4997	273	9.443 6354	294	0.556 3646	9.983 8642	21	478	
523	9.427 5270	273	9.443 6648	294	0.556 3352	9.983 8621	21	477	
		273		294			21		
524	9.427 5543		9.443 6942		0.556 3058	9.983 8600		476	
525	9.427 5815	272	9.443 7236	294	0.556 2764	9.983 8579	21	475	
526	9.427 6088	273	9.443 7530	294	0.556 2470	9.983 8558	21	474	
		273		294			21		
527	9.427 6361		9.443 7824		0.556 2176	9.983 8537		473	
528	9.427 6634	273	9.443 8118	294	0.556 1882	9.983 8516	21	472	
529	9.427 6907	273	9.443 8412	294	0.556 1588	9.983 8495	21	471	
		273		294			21		
.530	9.427 7180		9.443 8706		0.556 1294	9.983 8474		.470	
		272		293			21		
531	9.427 7452		9.443 8999		0.556 1001	9.983 8453		469	
532	9.427 7725	273	9.443 9293	294	0.556 0707	9.983 8432	21	468	
533	9.427 7998	273	9.443 9587	294	0.556 0413	9.983 8411	21	467	
		272		294			21		
534	9.427 8270		9.443 9881		0.556 0119	9.983 8390		466	
535	9.427 8543	273	9.444 0175	294	0.555 9825	9.983 8369	21	465	
536	9.427 8816	273	9.444 0468	293	0.555 9532	9.983 8347	22	464	
		272		294			21		
537	9.427 9088		9.444 0762		0.555 9238	9.983 8326		463	
538	9.427 9361	273	9.444 1056	294	0.555 8944	9.983 8305	21	462	
539	9.427 9634	273	9.444 1349	293	0.555 8651	9.983 8284	21	461	
		272		294			21		
.540	9.427 9906		9.444 1643		0.555 8357	9.983 8263		.460	
		273		294			21		
541	9.428 0179		9.444 1937		0.555 8063	9.983 8242		459	
542	9.428 0451	272	9.444 2230	293	0.555 7770	9.983 8221	21	458	
543	9.428 0724	273	9.444 2524	294	0.555 7476	9.983 8200	21	457	
		272		294			21		
544	9.428 0996		9.444 2818		0.555 7182	9.983 8179		456	
545	9.428 1269	273	9.444 3111	293	0.555 6889	9.983 8158	21	455	
546	9.428 1541	272	9.444 3405	294	0.555 6595	9.983 8137	21	454	
		273		293			21		
547	9.428 1814		9.444 3698		0.555 6302	9.983 8116		453	
548	9.428 2086	272	9.444 3992	294	0.555 6008	9.983 8095	21	452	
549	9.428 2359	273	9.444 4285	293	0.555 5715	9.983 8073	22	451	
		272		294			21		
.550	9.428 2631		9.444 4579		0.555 5421	9.983 8052		.450	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	295	294
1	29.5	29.4
2	59.0	58.8
3	88.5	88.2
4	118.0	117.6
5	147.5	147.0
6	177.0	176.4
7	206.5	205.8
8	236.0	235.2
9	265.5	264.6

	293
1	29.3
2	58.6
3	87.9
4	117.2
5	146.5
6	175.8
7	205.1
8	234.4
9	263.7

	274	273
1	27.4	27.3
2	54.8	54.6
3	82.2	81.9
4	109.6	109.2
5	137.0	136.5
6	164.4	163.8
7	191.8	191.1
8	219.2	218.4
9	246.6	245.7

	272
1	27.2
2	54.4
3	81.6
4	108.8
5	136.0
6	163.2
7	190.4
8	217.6
9	244.8

	22	21
1	2.2	2.1
2	4.4	4.2
3	6.6	6.3
4	8.8	8.4
5	11.0	10.5
6	13.2	12.6
7	15.4	14.7
8	17.6	16.8
9	19.8	18.9

74°.500 — 74°.450

15°.550 — 15°.600

15°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.428 2631		9.444 4579		0.555 5421	9.983 8052		**.450**	
		273		293			21		
551	9.428 2904		9.444 4872		0.555 5128	9.983 8031		449	
		272		294			21		
552	9.428 3176		9.444 5166		0.555 4834	9.983 8010		448	
		272		293			21		
553	9.428 3448		9.444 5459		0.555 4541	9.983 7989		447	
		273		294			21		
554	9.428 3721		9.444 5753		0.555 4247	9.983 7968		446	
		272		293			21		
555	9.428 3993		9.444 6046		0.555 3954	9.983 7947		445	
		272		293			21		
556	9.428 4265		9.444 6339		0.555 3661	9.983 7926		444	
		273		294			21		
557	9.428 4538		9.444 6633		0.555 3367	9.983 7905		443	
		272		293			21		
558	9.428 4810		9.444 6926		0.555 3074	9.983 7884		442	
		272		294			22		
559	9.428 5082		9.444 7220		0.555 2780	9.983 7862		441	
		272		293			21		
.560	9.428 5354		9.444 7513		0.555 2487	9.983 7841		**.440**	
		272		293			21		
561	9.428 5626		9.444 7806		0.555 2194	9.983 7820		439	
		273		294			21		
562	9.428 5899		9.444 8100		0.555 1900	9.983 7799		438	
		272		293			21		
563	9.428 6171		9.444 8393		0.555 1607	9.983 7778		437	
		272		293			21		
564	9.428 6443		9.444 8686		0.555 1314	9.983 7757		436	
		272		293			21		
565	9.428 6715		9.444 8979		0.555 1021	9.983 7736		435	
		272		294			21		
566	9.428 6987		9.444 9273		0.555 0727	9.983 7715		434	
		272		293			21		
567	9.428 7259		9.444 9566		0.555 0434	9.983 7694		433	
		272		293			22		
568	9.428 7531		9.444 9859		0.555 0141	9.983 7672		432	
		272		293			21		
569	9.428 7803		9.445 0152		0.554 9848	9.983 7651		431	
		272		293			21		
.570	9.428 8075		9.445 0445		0.554 9555	9.983 7630		**.430**	
		272		293			21		
571	9.428 8347		9.445 0738		0.554 9262	9.983 7609		429	
		272		294			21		
572	9.428 8619		9.445 1032		0.554 8968	9.983 7588		428	
		272		293			21		
573	9.428 8891		9.445 1325		0.554 8675	9.983 7567		427	
		272		293			21		
574	9.428 9163		9.445 1618		0.554 8382	9.983 7546		426	
		272		293			21		
575	9.428 9435		9.445 1911		0.554 8089	9.983 7525		425	
		272		293			22		
576	9.428 9707		9.445 2204		0.554 7796	9.983 7503		424	
		272		293			21		
577	9.428 9979		9.445 2497		0.554 7503	9.983 7482		423	
		272		293			21		
578	9.429 0251		9.445 2790		0.554 7210	9.983 7461		422	
		272		293			21		
579	9.429 0523		9.445 3083		0.554 6917	9.983 7440		421	
		272		293			21		
.580	9.429 0795		9.445 3376		0.554 6624	9.983 7419		**.420**	
		272		293			21		
581	9.429 1067		9.445 3669		0.554 6331	9.983 7398		419	
		272		293			21		
582	9.429 1339		9.445 3962		0.554 6038	9.983 7377		418	
		271		293			21		
583	9.429 1610		9.445 4255		0.554 5745	9.983 7356		417	
		272		293			22		
584	9.429 1882		9.445 4548		0.554 5452	9.983 7334		416	
		272		293			21		
585	9.429 2154		9.445 4841		0.554 5159	9.983 7313		415	
		272		293			21		
586	9.429 2426		9.445 5134		0.554 4866	9.983 7292		414	
		271		292			21		
587	9.429 2697		9.445 5426		0.554 4574	9.983 7271		413	
		272		293			21		
588	9.429 2969		9.445 5719		0.554 4281	9.983 7250		412	
		272		293			21		
589	9.429 3241		9.445 6012		0.554 3988	9.983 7229		411	
		271		293			21		
.590	9.429 3512		9.445 6305		0.554 3695	9.983 7208		**.410**	
		272		293			22		
591	9.429 3784		9.445 6598		0.554 3402	9.983 7186		409	
		272		292			21		
592	9.429 4056		9.445 6890		0.554 3110	9.983 7165		408	
		271		293			21		
593	9.429 4327		9.445 7183		0.554 2817	9.983 7144		407	
		272		293			21		
594	9.429 4599		9.445 7476		0.554 2524	9.983 7123		406	
		271		293			21		
595	9.429 4870		9.445 7769		0.554 2231	9.983 7102		405	
		272		292			21		
596	9.429 5142		9.445 8061		0.554 1939	9.983 7081		404	
		272		293			22		
597	9.429 5414		9.445 8354		0.554 1646	9.983 7059		403	
		271		293			21		
598	9.429 5685		9.445 8647		0.554 1353	9.983 7038		402	
		272		293			21		
599	9.429 5957		9.445 8940		0.554 1060	9.983 7017		401	
		271		292			21		
.600	9.429 6228		9.445 9232		0.554 0768	9.983 6996		**.400**	
	cos	d	cotg	d	tang	sin	d	**74°**	P.P.

	294	293
1	29.4	29.3
2	58.8	58.6
3	88.2	87.9
4	117.6	117.2
5	147.0	146.5
6	176.4	175.8
7	205.8	205.1
8	235.2	234.4
9	264.6	263.7

	292
1	29.2
2	58.4
3	87.6
4	116.8
5	146.0
6	175.2
7	204.4
8	233.6
9	262.8

	273	272
1	27.3	27.2
2	54.6	54.4
3	81.9	81.6
4	109.2	108.8
5	136.5	136.0
6	163.8	163.2
7	191.1	190.4
8	218.4	217.6
9	245.7	244.8

	271
1	27.1
2	54.2
3	81.3
4	108.4
5	135.5
6	162.6
7	189.7
8	216.8
9	243.9

	22	21
1	2.2	2.1
2	4.4	4.2
3	6.6	6.3
4	8.8	8.4
5	11.0	10.5
6	13.2	12.6
7	15.4	14.7
8	17.6	16.8
9	19.8	18.9

74°.450 — 74°.400

15°.600 — 15°.650

15°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.429 6228		9.445 9232		0.554 0768	9.983 6996		.400	
		272		293			21		
601	9.429 6500		9.445 9525		0.554 0475	9.983 6975		399	
602	9.429 6771	271	9.445 9817	292	0.554 0183	9.983 6954	21	398	
603	9.429 7042	271	9.446 0110	293	0.553 9890	9.983 6932	22	397	
		272		293			21		
604	9.429 7314		9.446 0403		0.553 9597	9.983 6911		396	
605	9.429 7585	271	9.446 0695	292	0.553 9305	9.983 6890	21	395	
606	9.429 7857	272	9.446 0988	293	0.553 9012	9.983 6869	21	394	
		271		292			21		
607	9.429 8128		9.446 1280		0.553 8720	9.983 6848		393	
608	9.429 8399	271	9.446 1573	293	0.553 8427	9.983 6827	21	392	
609	9.429 8671	272	9.446 1865	292	0.553 8135	9.983 6805	22	391	
		271		293			21		
.610	9.429 8942		9.446 2158		0.553 7842	9.983 6784		.390	
		271		292			21		
611	9.429 9213		9.446 2450		0.553 7550	9.983 6763		389	
612	9.429 9485	272	9.446 2743	293	0.553 7257	9.983 6742	21	388	
613	9.429 9756	271	9.446 3035	292	0.553 6965	9.983 6721	21	387	
		271		293			21		
614	9.430 0027		9.446 3328		0.553 6672	9.983 6700		386	
615	9.430 0298	271	9.446 3620	292	0.553 6380	9.983 6678	22	385	
616	9.430 0569	271	9.446 3912	292	0.553 6088	9.983 6657	21	384	
		272		293			21		
617	9.430 0841		9.446 4205		0.553 5795	9.983 6636		383	
618	9.430 1112	271	9.446 4497	292	0.553 5503	9.983 6615	21	382	
619	9.430 1383	271	9.446 4789	292	0.553 5211	9.983 6594	21	381	
		271		293			22		
.620	9.430 1654		9.446 5082		0.553 4918	9.983 6572		.380	
		271		292			21		
621	9.430 1925		9.446 5374		0.553 4626	9.983 6551		379	
622	9.430 2196	271	9.446 5666	292	0.553 4334	9.983 6530	21	378	
623	9.430 2467	271	9.446 5959	293	0.553 4041	9.983 6509	21	377	
		271		292			21		
624	9.430 2738		9.446 6251		0.553 3749	9.983 6488		376	
625	9.430 3009	271	9.446 6543	292	0.553 3457	9.983 6466	22	375	
626	9.430 3280	271	9.446 6835	292	0.553 3165	9.983 6445	21	374	
		271		292			21		
627	9.430 3551		9.446 7127		0.553 2873	9.983 6424		373	
628	9.430 3822	271	9.446 7420	293	0.553 2580	9.983 6403	21	372	
629	9.430 4093	271	9.446 7712	292	0.553 2288	9.983 6382	21	371	
		271		292			22		
.630	9.430 4364		9.446 8004		0.553 1996	9.983 6360		.370	
		271		292			21		
631	9.430 4635		9.446 8296		0.553 1704	9.983 6339		369	
632	9.430 4906	271	9.446 8588	292	0.553 1412	9.983 6318	21	368	
633	9.430 5177	271	9.446 8880	292	0.553 1120	9.983 6297	21	367	
		271		292			21		
634	9.430 5448		9.446 9172		0.553 0828	9.983 6276		366	
635	9.430 5719	271	9.446 9464	292	0.553 0536	9.983 6254	22	365	
636	9.430 5990	271	9.446 9756	292	0.553 0244	9.983 6233	21	364	
		270		292			21		
637	9.430 6260		9.447 0048		0.552 9952	9.983 6212		363	
638	9.430 6531	271	9.447 0340	292	0.552 9660	9.983 6191	21	362	
639	9.430 6802	271	9.447 0632	292	0.552 9368	9.983 6169	22	361	
		271		292			21		
.640	9.430 7073		9.447 0924		0.552 9076	9.983 6148		.360	
		270		292			21		
641	9.430 7343		9.447 1216		0.552 8784	9.983 6127		359	
642	9.430 7614	271	9.447 1508	292	0.552 8492	9.983 6106	21	358	
643	9.430 7885	271	9.447 1800	292	0.552 8200	9.983 6085	21	357	
		271		292			22		
644	9.430 8156		9.447 2092		0.552 7908	9.983 6063		356	
645	9.430 8426	270	9.447 2384	292	0.552 7616	9.983 6042	21	355	
646	9.430 8697	271	9.447 2676	292	0.552 7324	9.983 6021	21	354	
		271		292			21		
647	9.430 8968		9.447 2968		0.552 7032	9.983 6000		353	
648	9.430 9238	270	9.447 3260	292	0.552 6740	9.983 5978	22	352	
649	9.430 9509	271	9.447 3552	292	0.552 6448	9.983 5957	21	351	
		270		291			21		
.650	9.430 9779		9.447 3843		0.552 6157	9.983 5936		.350	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	293	292
1	29.3	29.2
2	58.6	58.4
3	87.9	87.6
4	117.2	116.8
5	146.5	146.0
6	175.8	175.2
7	205.1	204.4
8	234.4	233.6
9	263.7	262.8

	291
1	29.1
2	58.2
3	87.3
4	116.4
5	145.5
6	174.6
7	203.7
8	232.8
9	261.9

	272	271
1	27.2	27.1
2	54.4	54.2
3	81.6	81.3
4	108.8	108.4
5	136.0	135.5
6	163.2	162.6
7	190.4	189.7
8	217.6	216.8
9	244.8	243.9

	270
1	27.0
2	54.0
3	81.0
4	108.0
5	135.0
6	162.0
7	189.0
8	216.0
9	243.0

	22	21
1	2.2	2.1
2	4.4	4.2
3	6.6	6.3
4	8.8	8.4
5	11.0	10.5
6	13.2	12.6
7	15.4	14.7
8	17.6	16.8
9	19.8	18.9

74°.400 — 74°.350

15°.650 — 15°.700

15°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.430 9779		9.447 3843		0.552 6157	9.983 5936		.350	
		271		292			21		
651	9.431 0050		9.447 4135		0.552 5865	9.983 5915		349	
652	9.431 0320	270	9.447 4427	292	0.552 5573	9.983 5894	21	348	
653	9.431 0591	271	9.447 4719	292	0.552 5281	9.983 5872	22	347	
		270		291			21		
654	9.431 0861		9.447 5010		0.552 4990	9.983 5851		346	
655	9.431 1132	271	9.447 5302	292	0.552 4698	9.983 5830	21	345	
656	9.431 1402	270	9.447 5594	292	0.552 4406	9.983 5809	21	344	
		271		292			22		
657	9.431 1673		9.447 5886		0.552 4114	9.983 5787		343	
658	9.431 1943	270	9.447 6177	291	0.552 3823	9.983 5766	21	342	
659	9.431 2214	271	9.447 6469	292	0.552 3531	9.983 5745	21	341	
		270		292			21		
.660	9.431 2484		9.447 6761		0.552 3239	9.983 5724		.340	
		270		291			22		
661	9.431 2754		9.447 7052		0.552 2948	9.983 5702		339	
662	9.431 3025	271	9.447 7344	292	0.552 2656	9.983 5681	21	338	
663	9.431 3295	270	9.447 7635	291	0.552 2365	9.983 5660	21	337	
		271		292			21		
664	9.431 3566		9.447 7927		0.552 2073	9.983 5639		336	
665	9.431 3836	270	9.447 8218	291	0.552 1782	9.983 5617	22	335	
666	9.431 4106	270	9.447 8510	292	0.552 1490	9.983 5596	21	334	
		270		292			21		
667	9.431 4376		9.447 8802		0.552 1198	9.983 5575		333	
668	9.431 4647	271	9.447 9093	291	0.552 0907	9.983 5554	21	332	
669	9.431 4917	270	9.447 9385	292	0.552 0615	9.983 5532	22	331	
		270		291			21		
.670	9.431 5187		9.447 9676		0.552 0324	9.983 5511		.330	
		270		292			21		
671	9.431 5457		9.447 9968		0.552 0032	9.983 5490		329	
672	9.431 5727	270	9.448 0259	291	0.551 9741	9.983 5468	22	328	
673	9.431 5998	271	9.448 0550	291	0.551 9450	9.983 5447	21	327	
		270		292			21		
674	9.431 6268		9.448 0842		0.551 9158	9.983 5426		326	
675	9.431 6538	270	9.448 1133	291	0.551 8867	9.983 5405	21	325	
676	9.431 6808	270	9.448 1425	292	0.551 8575	9.983 5383	22	324	
		270		291			21		
677	9.431 7078		9.448 1716		0.551 8284	9.983 5362		323	
678	9.431 7348	270	9.448 2007	291	0.551 7993	9.983 5341	21	322	
679	9.431 7618	270	9.448 2299	292	0.551 7701	9.983 5320	21	321	
		270		291			22		
.680	9.431 7888		9.448 2590		0.551 7410	9.983 5298		.320	
		270		291			21		
681	9.431 8158		9.448 2881		0.551 7119	9.983 5277		319	
682	9.431 8428	270	9.448 3172	291	0.551 6828	9.983 5256	21	318	
683	9.431 8698	270	9.448 3464	292	0.551 6536	9.983 5234	22	317	
		270		291			21		
684	9.431 8968		9.448 3755		0.551 6245	9.983 5213		316	
685	9.431 9238	270	9.448 4046	291	0.551 5954	9.983 5192	21	315	
686	9.431 9508	270	9.448 4337	291	0.551 5663	9.983 5171	21	314	
		270		292			22		
687	9.431 9778		9.448 4629		0.551 5371	9.983 5149		313	
688	9.432 0048	270	9.448 4920	291	0.551 5080	9.983 5128	21	312	
689	9.432 0318	270	9.448 5211	291	0.551 4789	9.983 5107	21	311	
		270		291			22		
.690	9.432 0588		9.448 5502		0.551 4498	9.983 5085		.310	
		269		291			21		
691	9.432 0857		9.448 5793		0.551 4207	9.983 5064		309	
692	9.432 1127	270	9.448 6084	291	0.551 3916	9.983 5043	21	308	
693	9.432 1397	270	9.448 6375	291	0.551 3625	9.983 5022	21	307	
		270		291			22		
694	9.432 1667		9.448 6666		0.551 3334	9.983 5000		306	
695	9.432 1937	270	9.448 6958	292	0.551 3042	9.983 4979	21	305	
696	9.432 2206	269	9.448 7249	291	0.551 2751	9.983 4958	21	304	
		270		291			22		
697	9.432 2476		9.448 7540		0.551 2460	9.983 4936		303	
698	9.432 2746	270	9.448 7831	291	0.551 2169	9.983 4915	21	302	
699	9.432 3015	269	9.448 8122	291	0.551 1878	9.983 4894	21	301	
		270		291			22		
.700	9.432 3285		9.448 8413		0.551 1587	9.983 4872		.300	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	292	291
1	29.2	29.1
2	58.4	58.2
3	87.6	87.3
4	116.8	116.4
5	146.0	145.5
6	175.2	174.6
7	204.4	203.7
8	233.6	232.8
9	262.8	261.9

	271	270
1	27.1	27.0
2	54.2	54.0
3	81.3	81.0
4	108.4	108.0
5	135.5	135.0
6	162.6	162.0
7	189.7	189.0
8	216.8	216.0
9	243.9	243.0

	269
1	26.9
2	53.8
3	80.7
4	107.6
5	134.5
6	161.4
7	188.3
8	215.2
9	242.1

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

74°.350 — 74°.300

15°.700 — 15°.750

15°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.432 3285		9.448 8413		0.551 1587	9.983 4872		.300	
		270		291			21		
701	9.432 3555		9.448 8704		0.551 1296	9.983 4851		299	
		269		290			21		
702	9.432 3824		9.448 8994		0.551 1006	9.983 4830		298	
		270		291			21		
703	9.432 4094		9.448 9285		0.551 0715	9.983 4809		297	
		270		291			22		
704	9.432 4364		9.448 9576		0.551 0424	9.983 4787		296	
		269		291			21		
705	9.432 4633		9.448 9867		0.551 0133	9.983 4766		295	
		270		291			21		
706	9.432 4903		9.449 0158		0.550 9842	9.983 4745		294	
		269		291			22		
707	9.432 5172		9.449 0449		0.550 9551	9.983 4723		293	
		270		291			21		
708	9.432 5442		9.449 0740		0.550 9260	9.983 4702		292	
		269		291			21		
709	9.432 5711		9.449 1031		0.550 8969	9.983 4681		291	
		270		290			22		
.710	9.432 5981		9.449 1321		0.550 8679	9.983 4659		.290	
		269		291			21		
711	9.432 6250		9.449 1612		0.550 8388	9.983 4638		289	
		270		291			21		
712	9.432 6520		9.449 1903		0.550 8097	9.983 4617		288	
		269		291			22		
713	9.432 6789		9.449 2194		0.550 7806	9.983 4595		287	
		270		291			21		
714	9.432 7059		9.449 2485		0.550 7515	9.983 4574		286	
		269		290			21		
715	9.432 7328		9.449 2775		0.550 7225	9.983 4553		285	
		269		291			22		
716	9.432 7597		9.449 3066		0.550 6934	9.983 4531		284	
		270		291			21		
717	9.432 7867		9.449 3357		0.550 6643	9.983 4510		283	
		269		290			21		
718	9.432 8136		9.449 3647		0.550 6353	9.983 4489		282	
		269		291			22		
719	9.432 8405		9.449 3938		0.550 6062	9.983 4467		281	
		270		291			21		
.720	9.432 8675		9.449 4229		0.550 5771	9.983 4446		.280	
		269		290			21		
721	9.432 8944		9.449 4519		0.550 5481	9.983 4425		279	
		269		291			22		
722	9.432 9213		9.449 4810		0.550 5190	9.983 4403		278	
		270		290			21		
723	9.432 9483		9.449 5100		0.550 4900	9.983 4382		277	
		269		291			21		
724	9.432 9752		9.449 5391		0.550 4609	9.983 4361		276	
		269		291			22		
725	9.433 0021		9.449 5682		0.550 4318	9.983 4339		275	
		269		290			21		
726	9.433 0290		9.449 5972		0.550 4028	9.983 4318		274	
		269		291			21		
727	9.433 0559		9.449 6263		0.550 3737	9.983 4297		273	
		270		290			22		
728	9.433 0829		9.449 6553		0.550 3447	9.983 4275		272	
		269		291			21		
729	9.433 1098		9.449 6844		0.550 3156	9.983 4254		271	
		269		290			21		
.730	9.433 1367		9.449 7134		0.550 2866	9.983 4233		.270	
		269		291			22		
731	9.433 1636		9.449 7425		0.550 2575	9.983 4211		269	
		269		290			21		
732	9.433 1905		9.449 7715		0.550 2285	9.983 4190		268	
		269		291			21		
733	9.433 2174		9.449 8006		0.550 1994	9.983 4169		267	
		269		290			22		
734	9.433 2443		9.449 8296		0.550 1704	9.983 4147		266	
		269		290			21		
735	9.433 2712		9.449 8586		0.550 1414	9.983 4126		265	
		269		291			21		
736	9.433 2981		9.449 8877		0.550 1123	9.983 4105		264	
		269		290			22		
737	9.433 3250		9.449 9167		0.550 0833	9.983 4083		263	
		269		290			21		
738	9.433 3519		9.449 9457		0.550 0543	9.983 4062		262	
		269		291			22		
739	9.433 3788		9.449 9748		0.550 0252	9.983 4040		261	
		269		290			21		
.740	9.433 4057		9.450 0038		0.549 9962	9.983 4019		.260	
		269		290			21		
741	9.433 4326		9.450 0328		0.549 9672	9.983 3998		259	
		269		291			22		
742	9.433 4595		9.450 0619		0.549 9381	9.983 3976		258	
		269		290			21		
743	9.433 4864		9.450 0909		0.549 9091	9.983 3955		257	
		269		290			21		
744	9.433 5133		9.450 1199		0.549 8801	9.983 3934		256	
		269		290			22		
745	9.433 5402		9.450 1489		0.549 8511	9.983 3912		255	
		268		291			21		
746	9.433 5670		9.450 1780		0.549 8220	9.983 3891		254	
		269		290			21		
747	9.433 5939		9.450 2070		0.549 7930	9.983 3870		253	
		269		290			22		
748	9.433 6208		9.450 2360		0.549 7640	9.983 3848		252	
		269		290			21		
749	9.433 6477		9.450 2650		0.549 7350	9.983 3827		251	
		269		290			22		
.750	9.433 6746		9.450 2940		0.549 7060	9.983 3805		.250	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	291	290
1	29.1	29.0
2	58.2	58.0
3	87.3	87.0
4	116.4	116.0
5	145.5	145.0
6	174.6	174.0
7	203.7	203.0
8	232.8	232.0
9	261.9	261.0

	270	269
1	27.0	26.9
2	54.0	53.8
3	81.0	80.7
4	108.0	107.6
5	135.0	134.5
6	162.0	161.4
7	189.0	188.3
8	216.0	215.2
9	243.0	242.1

	268
1	26.8
2	53.6
3	80.4
4	107.2
5	134.0
6	160.8
7	187.6
8	214.4
9	241.2

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

74°.300 — 74°.250

15°.750 — 15°.800

15°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.433 6746		9.450 2940		0.549 7060	9.983 3805		.250	
		268		290			21		
751	9.433 7014		9.450 3230		0.549 6770	9.983 3784		249	
752	9.433 7283	269	9.450 3521	291	0.549 6479	9.983 3763	21	248	
753	9.433 7552	269	9.450 3811	290	0.549 6189	9.983 3741	22	247	
		269		290			21		
754	9.433 7821		9.450 4101		0.549 5899	9.983 3720		246	
755	9.433 8089	268	9.450 4391	290	0.549 5609	9.983 3698	22	245	
756	9.433 8358	269	9.450 4681	290	0.549 5319	9.983 3677	21	244	
		269		290			21		
757	9.433 8627		9.450 4971		0.549 5029	9.983 3656		243	
758	9.433 8895	268	9.450 5261	290	0.549 4739	9.983 3634	22	242	
759	9.433 9164	269	9.450 5551	290	0.549 4449	9.983 3613	21	241	
		268		290			21		
.760	9.433 9432		9.450 5841		0.549 4159	9.983 3592		.240	
		269		290			22		
761	9.433 9701		9.450 6131		0.549 3869	9.983 3570		239	
762	9.433 9970	269	9.450 6421	290	0.549 3579	9.983 3549	21	238	
763	9.434 0238	268	9.450 6711	290	0.549 3289	9.983 3527	22	237	
		269		290			21		
764	9.434 0507		9.450 7001		0.549 2999	9.983 3506		236	
765	9.434 0775	268	9.450 7290	289	0.549 2710	9.983 3485	21	235	
766	9.434 1044	269	9.450 7580	290	0.549 2420	9.983 3463	22	234	
		268		290			21		
767	9.434 1312		9.450 7870		0.549 2130	9.983 3442		233	
768	9.434 1580	268	9.450 8160	290	0.549 1840	9.983 3420	22	232	
769	9.434 1849	269	9.450 8450	290	0.549 1550	9.983 3399	21	231	
		268		290			21		
.770	9.434 2117		9.450 8740		0.549 1260	9.983 3378		.230	
		269		290			22		
771	9.434 2386		9.450 9030		0.549 0970	9.983 3356		229	
772	9.434 2654	268	9.450 9319	289	0.549 0681	9.983 3335	21	228	
773	9.434 2922	268	9.450 9609	290	0.549 0391	9.983 3313	22	227	
		269		290			21		
774	9.434 3191		9.450 9899		0.549 0101	9.983 3292		226	
775	9.434 3459	268	9.451 0189	290	0.548 9811	9.983 3271	21	225	
776	9.434 3727	268	9.451 0478	289	0.548 9522	9.983 3249	22	224	
		269		290			21		
777	9.434 3996		9.451 0768		0.548 9232	9.983 3228		223	
778	9.434 4264	268	9.451 1058	290	0.548 8942	9.983 3206	22	222	
779	9.434 4532	268	9.451 1347	289	0.548 8653	9.983 3185	21	221	
		268		290			22		
.780	9.434 4800		9.451 1637		0.548 8363	9.983 3163		.220	
		269		290			21		
781	9.434 5069		9.451 1927		0.548 8073	9.983 3142		219	
782	9.434 5337	268	9.451 2216	289	0.548 7784	9.983 3121	21	218	
783	9.434 5605	268	9.451 2506	290	0.548 7494	9.983 3099	22	217	
		268		289			21		
784	9.434 5873		9.451 2795		0.548 7205	9.983 3078		216	
785	9.434 6141	268	9.451 3085	290	0.548 6915	9.983 3056	22	215	
786	9.434 6409	268	9.451 3375	290	0.548 6625	9.983 3035	21	214	
		269		289			22		
787	9.434 6678		9.451 3664		0.548 6336	9.983 3013		213	
788	9.434 6946	268	9.451 3954	290	0.548 6046	9.983 2992	21	212	
789	9.434 7214	268	9.451 4243	289	0.548 5757	9.983 2971	21	211	
		268		290			22		
.790	9.434 7482		9.451 4533		0.548 5467	9.983 2949		.210	
		268		289			21		
791	9.434 7750		9.451 4822		0.548 5178	9.983 2928		209	
792	9.434 8018	268	9.451 5112	290	0.548 4888	9.983 2906	22	208	
793	9.434 8286	268	9.451 5401	289	0.548 4599	9.983 2885	21	207	
		268		289			22		
794	9.434 8554		9.451 5690		0.548 4310	9.983 2863		206	
795	9.434 8822	268	9.451 5980	290	0.548 4020	9.983 2842	21	205	
796	9.434 9090	268	9.451 6269	289	0.548 3731	9.983 2821	21	204	
		268		290			22		
797	9.434 9358		9.451 6559		0.548 3441	9.983 2799		203	
798	9.434 9626	268	9.451 6848	289	0.548 3152	9.983 2778	21	202	
799	9.434 9893	267	9.451 7137	289	0.548 2863	9.983 2756	22	201	
		268		290			21		
.800	9.435 0161		9.451 7427		0.548 2573	9.983 2735		.200	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	291	290
1	29.1	29.0
2	58.2	58.0
3	87.3	87.0
4	116.4	116.0
5	145.5	145.0
6	174.6	174.0
7	203.7	203.0
8	232.8	232.0
9	261.9	261.0

	289
1	28.9
2	57.8
3	86.7
4	115.6
5	144.5
6	173.4
7	202.3
8	231.2
9	260.1

	269	268
1	26.9	26.8
2	53.8	53.6
3	80.7	80.4
4	107.6	107.2
5	134.5	134.0
6	161.4	160.8
7	188.3	187.6
8	215.2	214.4
9	242.1	241.2

	267
1	26.7
2	53.4
3	80.1
4	106.8
5	133.5
6	160.2
7	186.9
8	213.6
9	240.3

	22	21
1	2.2	2.1
2	4.4	4.2
3	6.6	6.3
4	8.8	8.4
5	11.0	10.5
6	13.2	12.6
7	15.4	14.7
8	17.6	16.8
9	19.8	18.9

74°.250 — 74°.200

15°.800 — 15°.850

15°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.435 0161		9.451 7427		0.548 2573	9.983 2735		**.200**	
		268		289			22		
801	9.435 0429		9.451 7716		0.548 2284	9.983 2713		199	
802	9.435 0697	268	9.451 8005	289	0.548 1995	9.983 2692	21	198	
803	9.435 0965	268	9.451 8294	289	0.548 1706	9.983 2670	22	197	
		268		290			21		
804	9.435 1233		9.451 8584		0.548 1416	9.983 2649		196	
805	9.435 1500	267	9.451 8873	289	0.548 1127	9.983 2627	22	195	
806	9.435 1768	268	9.451 9162	289	0.548 0838	9.983 2606	21	194	
		268		289			21		
807	9.435 2036		9.451 9451		0.548 0549	9.983 2585		193	
808	9.435 2304	268	9.451 9741	290	0.548 0259	9.983 2563	22	192	
809	9.435 2571	267	9.452 0030	289	0.547 9970	9.983 2542	21	191	
		268		289			22		
.810	9.435 2839		9.452 0319		0.547 9681	9.983 2520		**.190**	
		268		289			21		
811	9.435 3107		9.452 0608		0.547 9392	9.983 2499		189	
812	9.435 3374	267	9.452 0897	289	0.547 9103	9.983 2477	22	188	
813	9.435 3642	268	9.452 1186	289	0.547 8814	9.983 2456	21	187	
		268		289			22		
814	9.435 3910		9.452 1475		0.547 8525	9.983 2434		186	
815	9.435 4177	267	9.452 1765	290	0.547 8235	9.983 2413	21	185	
816	9.435 4445	268	9.452 2054	289	0.547 7946	9.983 2391	22	184	
		268		289			21		
817	9.435 4713		9.452 2343		0.547 7657	9.983 2370		183	
818	9.435 4980	267	9.452 2632	289	0.547 7368	9.983 2348	22	182	
819	9.435 5248	268	9.452 2921	289	0.547 7079	9.983 2327	21	181	
		267		289			22		
.820	9.435 5515		9.452 3210		0.547 6790	9.983 2305		**.180**	
		268		289			21		
821	9.435 5783		9.452 3499		0.547 6501	9.983 2284		179	
822	9.435 6050	267	9.452 3788	289	0.547 6212	9.983 2263	21	178	
823	9.435 6318	268	9.452 4077	289	0.547 5923	9.983 2241	22	177	
		267		288			21		
824	9.435 6585		9.452 4365		0.547 5635	9.983 2220		176	
825	9.435 6852	267	9.452 4654	289	0.547 5346	9.983 2198	22	175	
826	9.435 7120	268	9.452 4943	289	0.547 5057	9.983 2177	21	174	
		267		289			22		
827	9.435 7387		9.452 5232		0.547 4768	9.983 2155		173	
828	9.435 7655	268	9.452 5521	289	0.547 4479	9.983 2134	21	172	
829	9.435 7922	267	9.452 5810	289	0.547 4190	9.983 2112	22	171	
		267		289			21		
.830	9.435 8189		9.452 6099		0.547 3901	9.983 2091		**.170**	
		268		289			22		
831	9.435 8457		9.452 6388		0.547 3612	9.983 2069		169	
832	9.435 8724	267	9.452 6676	288	0.547 3324	9.983 2048	21	168	
833	9.435 8991	267	9.452 6965	289	0.547 3035	9.983 2026	22	167	
		268		289			21		
834	9.435 9259		9.452 7254		0.547 2746	9.983 2005		166	
835	9.435 9526	267	9.452 7543	289	0.547 2457	9.983 1983	22	165	
836	9.435 9793	267	9.452 7831	288	0.547 2169	9.983 1962	21	164	
		267		289			22		
837	9.436 0060		9.452 8120		0.547 1880	9.983 1940		163	
838	9.436 0327	267	9.452 8409	289	0.547 1591	9.983 1919	21	162	
839	9.436 0595	268	9.452 8697	288	0.547 1303	9.983 1897	22	161	
		267		289			21		
.840	9.436 0862		9.452 8986		0.547 1014	9.983 1876		**.160**	
		267		289			22		
841	9.436 1129		9.452 9275		0.547 0725	9.983 1854		159	
842	9.436 1396	267	9.452 9563	288	0.547 0437	9.983 1833	21	158	
843	9.436 1663	267	9.452 9852	289	0.547 0148	9.983 1811	22	157	
		267		289			21		
844	9.436 1930		9.453 0141		0.546 9859	9.983 1790		156	
845	9.436 2197	267	9.453 0429	288	0.546 9571	9.983 1768	22	155	
846	9.436 2464	267	9.453 0718	289	0.546 9282	9.983 1747	21	154	
		267		288			22		
847	9.436 2731		9.453 1006		0.546 8994	9.983 1725		153	
848	9.436 2998	267	9.453 1295	289	0.546 8705	9.983 1704	21	152	
849	9.436 3265	267	9.453 1583	288	0.546 8417	9.983 1682	22	151	
		267		289			21		
.850	9.436 3532		9.453 1872		0.546 8128	9.983 1661		**.150**	
	cos	d	cotg	d	tang	sin	d	**74°**	P.P.

	290	289
1	29.0	28.9
2	58.0	57.8
3	87.0	86.7
4	116.0	115.6
5	145.0	144.5
6	174.0	173.4
7	203.0	202.3
8	232.0	231.2
9	261.0	260.1

	288
1	28.8
2	57.6
3	86.4
4	115.2
5	144.0
6	172.8
7	201.6
8	230.4
9	259.2

	268	267
1	26.8	26.7
2	53.6	53.4
3	80.4	80.1
4	107.2	106.8
5	134.0	133.5
6	160.8	160.2
7	187.6	186.9
8	214.4	213.6
9	241.2	240.3

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

74°.200 — 74°.150

15°.850 — 15°.900

15°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.436 3532		9.453 1872		0.546 8128	9.983 1661		.150	
		267		288			22		
851	9.436 3799		9.453 2160		0.546 7840	9.983 1639		149	
		267		289			22		
852	9.436 4066		9.453 2449		0.546 7551	9.983 1617		148	
		267		288			21		
853	9.436 4333		9.453 2737		0.546 7263	9.983 1596		147	
		267		289			22		
854	9.436 4600		9.453 3026		0.546 6974	9.983 1574		146	
		267		288			21		
855	9.436 4867		9.453 3314		0.546 6686	9.983 1553		145	
		267		289			22		
856	9.436 5134		9.453 3603		0.546 6397	9.983 1531		144	
		267		288			21		
857	9.436 5401		9.453 3891		0.546 6109	9.983 1510		143	
		267		288			22		
858	9.436 5668		9.453 4179		0.546 5821	9.983 1488		142	
		267		289			21		
859	9.436 5935		9.453 4468		0.546 5532	9.983 1467		141	
		266		288			22		
.860	9.436 6201		9.453 4756		0.546 5244	9.983 1445		.140	
		267		288			21		
861	9.436 6468		9.453 5044		0.546 4956	9.983 1424		139	
		267		289			22		
862	9.436 6735		9.453 5333		0.546 4667	9.983 1402		138	
		267		288			21		
863	9.436 7002		9.453 5621		0.546 4379	9.983 1381		137	
		266		288			22		
864	9.436 7268		9.453 5909		0.546 4091	9.983 1359		136	
		267		289			21		
865	9.436 7535		9.453 6198		0.546 3802	9.983 1338		135	
		267		288			22		
866	9.436 7802		9.453 6486		0.546 3514	9.983 1316		134	
		266		288			22		
867	9.436 8068		9.453 6774		0.546 3226	9.983 1294		133	
		267		288			21		
868	9.436 8335		9.453 7062		0.546 2938	9.983 1273		132	
		267		288			22		
869	9.436 8602		9.453 7350		0.546 2650	9.983 1251		131	
		266		289			21		
.870	9.436 8868		9.453 7639		0.546 2361	9.983 1230		.130	
		267		288			22		
871	9.436 9135		9.453 7927		0.546 2073	9.983 1208		129	
		267		288			21		
872	9.436 9402		9.453 8215		0.546 1785	9.983 1187		128	
		266		288			22		
873	9.436 9668		9.453 8503		0.546 1497	9.983 1165		127	
		267		288			21		
874	9.436 9935		9.453 8791		0.546 1209	9.983 1144		126	
		266		288			22		
875	9.437 0201		9.453 9079		0.546 0921	9.983 1122		125	
		267		288			22		
876	9.437 0468		9.453 9367		0.546 0633	9.983 1100		124	
		266		288			21		
877	9.437 0734		9.453 9655		0.546 0345	9.983 1079		123	
		267		288			22		
878	9.437 1001		9.453 9943		0.546 0057	9.983 1057		122	
		266		289			21		
879	9.437 1267		9.454 0232		0.545 9768	9.983 1036		121	
		267		288			22		
.880	9.437 1534		9.454 0520		0.545 9480	9.983 1014		.120	
		266		288			21		
881	9.437 1800		9.454 0808		0.545 9192	9.983 0993		119	
		267		288			22		
882	9.437 2067		9.454 1096		0.545 8904	9.983 0971		118	
		266		287			21		
883	9.437 2333		9.454 1383		0.545 8617	9.983 0950		117	
		266		288			22		
884	9.437 2599		9.454 1671		0.545 8329	9.983 0928		116	
		267		288			22		
885	9.437 2866		9.454 1959		0.545 8041	9.983 0906		115	
		266		288			21		
886	9.437 3132		9.454 2247		0.545 7753	9.983 0885		114	
		266		288			22		
887	9.437 3398		9.454 2535		0.545 7465	9.983 0863		113	
		267		288			21		
888	9.437 3665		9.454 2823		0.545 7177	9.983 0842		112	
		266		288			22		
889	9.437 3931		9.454 3111		0.545 6889	9.983 0820		111	
		266		288			21		
.890	9.437 4197		9.454 3399		0.545 6601	9.983 0799		.110	
		267		288			22		
891	9.437 4464		9.454 3687		0.545 6313	9.983 0777		109	
		266		287			22		
892	9.437 4730		9.454 3974		0.545 6026	9.983 0755		108	
		266		288			21		
893	9.437 4996		9.454 4262		0.545 5738	9.983 0734		107	
		266		288			22		
894	9.437 5262		9.454 4550		0.545 5450	9.983 0712		106	
		267		288			21		
895	9.437 5529		9.454 4838		0.545 5162	9.983 0691		105	
		266		288			22		
896	9.437 5795		9.454 5126		0.545 4874	9.983 0669		104	
		266		287			22		
897	9.437 6061		9.454 5413		0.545 4587	9.983 0647		103	
		266		288			21		
898	9.437 6327		9.454 5701		0.545 4299	9.983 0626		102	
		266		288			22		
899	9.437 6593		9.454 5989		0.545 4011	9.983 0604		101	
		266		287			21		
.900	9.437 6859		9.454 6276		0.545 3724	9.983 0583		.100	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	289	288
1	28.9	28.8
2	57.8	57.6
3	86.7	86.4
4	115.6	115.2
5	144.5	144.0
6	173.4	172.8
7	202.3	201.6
8	231.2	230.4
9	260.1	259.2

	287
1	28.7
2	57.4
3	86.1
4	114.8
5	143.5
6	172.2
7	200.9
8	229.6
9	258.3

	267	266
1	26.7	26.6
2	53.4	53.2
3	80.1	79.8
4	106.8	106.4
5	133.5	133.0
6	160.2	159.6
7	186.9	186.2
8	213.6	212.8
9	240.3	239.4

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

74°.150 — 74°.100

15°.900 — 15°.950

15°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.437 6859		9.454 6276		0.545 3724	9.983 0583		.100	
		266		288			22		
901	9.437 7125		9.454 6564		0.545 3436	9.983 0561		099	
902	9.437 7391	266	9.454 6852	288	0.545 3148	9.983 0540	21	098	
903	9.437 7657	266	9.454 7139	287	0.545 2861	9.983 0518	22	097	
		266		288			22		
904	9.437 7923		9.454 7427		0.545 2573	9.983 0496		096	
905	9.437 8189	266	9.454 7715	288	0.545 2285	9.983 0475	21	095	
906	9.437 8455	266	9.454 8002	287	0.545 1998	9.983 0453	22	094	
		266		288			21		
907	9.437 8721		9.454 8290		0.545 1710	9.983 0432		093	
908	9.437 8987	266	9.454 8577	287	0.545 1423	9.983 0410	22	092	
909	9.437 9253	266	9.454 8865	288	0.545 1135	9.983 0388	22	091	
		266		288			21		
.910	9.437 9519		9.454 9153		0.545 0847	9.983 0367		.090	
		266		287			22		
911	9.437 9785		9.454 9440		0.545 0560	9.983 0345		089	
912	9.438 0051	266	9.454 9728	288	0.545 0272	9.983 0324	21	088	
913	9.438 0317	266	9.455 0015	287	0.544 9985	9.983 0302	22	087	
		266		287			22		
914	9.438 0583		9.455 0302		0.544 9698	9.983 0280		086	
915	9.438 0849	266	9.455 0590	288	0.544 9410	9.983 0259	21	085	
916	9.438 1114	265	9.455 0877	287	0.544 9123	9.983 0237	22	084	
		266		288			22		
917	9.438 1380		9.455 1165		0.544 8835	9.983 0215		083	
918	9.438 1646	266	9.455 1452	287	0.544 8548	9.983 0194	21	082	
919	9.438 1912	266	9.455 1740	288	0.544 8260	9.983 0172	22	081	
		266		287			21		
.920	9.438 2178		9.455 2027		0.544 7973	9.983 0151		.080	
		265		287			22		
921	9.438 2443		9.455 2314		0.544 7686	9.983 0129		079	
922	9.438 2709	266	9.455 2602	288	0.544 7398	9.983 0107	22	078	
923	9.438 2975	266	9.455 2889	287	0.544 7111	9.983 0086	21	077	
		265		287			22		
924	9.438 3240		9.455 3176		0.544 6824	9.983 0064		076	
925	9.438 3506	266	9.455 3464	288	0.544 6536	9.983 0042	22	075	
926	9.438 3772	266	9.455 3751	287	0.544 6249	9.983 0021	21	074	
		265		287			22		
927	9.438 4037		9.455 4038		0.544 5962	9.982 9999		073	
928	9.438 4303	266	9.455 4325	287	0.544 5675	9.982 9978	21	072	
929	9.438 4568	265	9.455 4613	288	0.544 5387	9.982 9956	22	071	
		266		287			22		
.930	9.438 4834		9.455 4900		0.544 5100	9.982 9934		.070	
		266		287			21		
931	9.438 5100		9.455 5187		0.544 4813	9.982 9913		069	
932	9.438 5365	265	9.455 5474	287	0.544 4526	9.982 9891	22	068	
933	9.438 5631	266	9.455 5761	287	0.544 4239	9.982 9869	22	067	
		265		287			21		
934	9.438 5896		9.455 6048		0.544 3952	9.982 9848		066	
935	9.438 6162	266	9.455 6336	288	0.544 3664	9.982 9826	22	065	
936	9.438 6427	265	9.455 6623	287	0.544 3377	9.982 9804	22	064	
		266		287			21		
937	9.438 6693		9.455 6910		0.544 3090	9.982 9783		063	
938	9.438 6958	265	9.455 7197	287	0.544 2803	9.982 9761	22	062	
939	9.438 7223	265	9.455 7484	287	0.544 2516	9.982 9740	21	061	
		266		287			22		
.940	9.438 7489		9.455 7771		0.544 2229	9.982 9718		.060	
		265		287			22		
941	9.438 7754		9.455 8058		0.544 1942	9.982 9696		059	
942	9.438 8020	266	9.455 8345	287	0.544 1655	9.982 9675	21	058	
943	9.438 8285	265	9.455 8632	287	0.544 1368	9.982 9653	22	057	
		265		287			22		
944	9.438 8550		9.455 8919		0.544 1081	9.982 9631		056	
945	9.438 8816	266	9.455 9206	287	0.544 0794	9.982 9610	21	055	
946	9.438 9081	265	9.455 9493	287	0.544 0507	9.982 9588	22	054	
		265		287			22		
947	9.438 9346		9.455 9780		0.544 0220	9.982 9566		053	
948	9.438 9611	265	9.456 0067	287	0.543 9933	9.982 9545	21	052	
949	9.438 9877	266	9.456 0354	287	0.543 9646	9.982 9523	22	051	
		265		287			22		
.950	9.439 0142		9.456 0641		0.543 9359	9.982 9501		.050	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	288	287
1	28.8	28.7
2	57.6	57.4
3	86.4	86.1
4	115.2	114.8
5	144.0	143.5
6	172.8	172.2
7	201.6	200.9
8	230.4	229.6
9	259.2	258.3

	266	265
1	26.6	26.5
2	53.2	53.0
3	79.8	79.5
4	106.4	106.0
5	133.0	132.5
6	159.6	159.0
7	186.2	185.5
8	212.8	212.0
9	239.4	238.5

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

74°.100 — 74°.050

15°.950 — 16°.000

15°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.439 0142		9.456 0641		0.543 9359	9.982 9501		.050	
		265		286			21		
951	9.439 0407		9.456 0927		0.543 9073	9.982 9480		049	
952	9.439 0672	265	9.456 1214	287	0.543 8786	9.982 9458	22	048	
953	9.439 0937	265	9.456 1501	287	0.543 8499	9.982 9436	22	047	
		266		287			21		
954	9.439 1203		9.456 1788		0.543 8212	9.982 9415		046	
955	9.439 1468	265	9.456 2075	287	0.543 7925	9.982 9393	22	045	
956	9.439 1733	265	9.456 2362	287	0.543 7638	9.982 9371	22	044	
		265		286			21		
957	9.439 1998		9.456 2648		0.543 7352	9.982 9350		043	
958	9.439 2263	265	9.456 2935	287	0.543 7065	9.982 9328	22	042	
959	9.439 2528	265	9.456 3222	287	0.543 6778	9.982 9306	22	041	
		265		287			21		
.960	9.439 2793		9.456 3509		0.543 6491	9.982 9285		.040	
		265		286			22		
961	9.439 3058		9.456 3795		0.543 6205	9.982 9263		039	
962	9.439 3323	265	9.456 4082	287	0.543 5918	9.982 9241	22	038	
963	9.439 3588	265	9.456 4369	287	0.543 5631	9.982 9220	21	037	
		265		286			22		
964	9.439 3853		9.456 4655		0.543 5345	9.982 9198		036	
965	9.439 4118	265	9.456 4942	287	0.543 5058	9.982 9176	22	035	
966	9.439 4383	265	9.456 5229	287	0.543 4771	9.982 9155	21	034	
		265		286			22		
967	9.439 4648		9.456 5515		0.543 4485	9.982 9133		033	
968	9.439 4913	265	9.456 5802	287	0.543 4198	9.982 9111	22	032	
969	9.439 5178	265	9.456 6088	286	0.543 3912	9.982 9089	22	031	
		265		287			21		
.970	9.439 5443		9.456 6375		0.543 3625	9.982 9068		.030	
		265		286			22		
971	9.439 5708		9.456 6661		0.543 3339	9.982 9046		029	
972	9.439 5972	264	9.456 6948	287	0.543 3052	9.982 9024	22	028	
973	9.439 6237	265	9.456 7234	286	0.543 2766	9.982 9003	21	027	
		265		287			22		
974	9.439 6502		9.456 7521		0.543 2479	9.982 8981		026	
975	9.439 6767	265	9.456 7807	286	0.543 2193	9.982 8959	22	025	
976	9.439 7032	265	9.456 8094	287	0.543 1906	9.982 8938	21	024	
		264		286			22		
977	9.439 7296		9.456 8380		0.543 1620	9.982 8916		023	
978	9.439 7561	265	9.456 8667	287	0.543 1333	9.982 8894	22	022	
979	9.439 7826	265	9.456 8953	286	0.543 1047	9.982 8872	22	021	
		264		287			21		
.980	9.439 8090		9.456 9240		0.543 0760	9.982 8851		.020	
		265		286			22		
981	9.439 8355		9.456 9526		0.543 0474	9.982 8829		019	
982	9.439 8620	265	9.456 9812	286	0.543 0188	9.982 8807	22	018	
983	9.439 8884	264	9.457 0099	287	0.542 9901	9.982 8786	21	017	
		265		286			22		
984	9.439 9149		9.457 0385		0.542 9615	9.982 8764		016	
985	9.439 9414	265	9.457 0671	286	0.542 9329	9.982 8742	22	015	
986	9.439 9678	264	9.457 0958	287	0.542 9042	9.982 8721	21	014	
		265		286			22		
987	9.439 9943		9.457 1244		0.542 8756	9.982 8699		013	
988	9.440 0207	264	9.457 1530	286	0.542 8470	9.982 8677	22	012	
989	9.440 0472	265	9.457 1817	287	0.542 8183	9.982 8655	22	011	
		264		286			21		
.990	9.440 0736		9.457 2103		0.542 7897	9.982 8634		.010	
		265		286			22		
991	9.440 1001		9.457 2389		0.542 7611	9.982 8612		009	
992	9.440 1265	264	9.457 2675	286	0.542 7325	9.982 8590	22	008	
993	9.440 1530	265	9.457 2961	286	0.542 7039	9.982 8568	22	007	
		264		287			21		
994	9.440 1794		9.457 3248		0.542 6752	9.982 8547		006	
995	9.440 2059	265	9.457 3534	286	0.542 6466	9.982 8525	22	005	
996	9.440 2323	264	9.457 3820	286	0.542 6180	9.982 8503	22	004	
		265		286			21		
997	9.440 2588		9.457 4106		0.542 5894	9.982 8482		003	
998	9.440 2852	264	9.457 4392	286	0.542 5608	9.982 8460	22	002	
999	9.440 3116	264	9.457 4678	286	0.542 5322	9.982 8438	22	001	
		265		286			22		
*.000	9.440 3381		9.457 4964		0.542 5036	9.982 8416		.000	
	cos	d	cotg	d	tang	sin	d	74°	P.P.

	287	286
1	28.7	28.6
2	57.4	57.2
3	86.1	85.8
4	114.8	114.4
5	143.5	143.0
6	172.2	171.6
7	200.9	200.2
8	229.6	228.8
9	258.3	257.4

	266	265
1	26.6	26.5
2	53.2	53.0
3	79.8	79.5
4	106.4	106.0
5	133.0	132.5
6	159.6	159.0
7	186.2	185.5
8	212.8	212.0
9	239.4	238.5

	264
1	26.4
2	52.8
3	79.2
4	105.6
5	132.0
6	158.4
7	184.8
8	211.2
9	237.6

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

74°.050 — 74°.000

16°.000 — 16°.050

16°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.440 3381		9.457 4964		0.542 5036	9.982 8416		*000	
		264		286			21		
001	9.440 3645		9.457 5250		0.542 4750	9.982 8395		999	
002	9.440 3909	264	9.457 5537	287	0.542 4463	9.982 8373	22	998	
003	9.440 4174	265	9.457 5823	286	0.542 4177	9.982 8351	22	997	
		264		286			22		
004	9.440 4438		9.457 6109		0.542 3891	9.982 8329		996	
005	9.440 4702	264	9.457 6395	286	0.542 3605	9.982 8308	21	995	
006	9.440 4966	264	9.457 6681	286	0.542 3319	9.982 8286	22	994	
		265		286			22		
007	9.440 5231		9.457 6967		0.542 3033	9.982 8264		993	
008	9.440 5495	264	9.457 7252	285	0.542 2748	9.982 8242	22	992	
009	9.440 5759	264	9.457 7538	286	0.542 2462	9.982 8221	21	991	
		264		286			22		
.010	9.440 6023		9.457 7824		0.542 2176	9.982 8199		.990	
		264		286			22		
011	9.440 6287		9.457 8110		0.542 1890	9.982 8177		989	
012	9.440 6552	265	9.457 8396	286	0.542 1604	9.982 8155	22	988	
013	9.440 6816	264	9.457 8682	286	0.542 1318	9.982 8134	21	987	
		264		286			22		
014	9.440 7080		9.457 8968		0.542 1032	9.982 8112		986	
015	9.440 7344	264	9.457 9254	286	0.542 0746	9.982 8090	22	985	
016	9.440 7608	264	9.457 9540	286	0.542 0460	9.982 8068	22	984	
		264		285			21		
017	9.440 7872		9.457 9825		0.542 0175	9.982 8047		983	
018	9.440 8136	264	9.458 0111	286	0.541 9889	9.982 8025	22	982	
019	9.440 8400	264	9.458 0397	286	0.541 9603	9.982 8003	22	981	
		264		286			22		
.020	9.440 8664		9.458 0683		0.541 9317	9.982 7981		.980	
		264		285			21		
021	9.440 8928		9.458 0968		0.541 9032	9.982 7960		979	
022	9.440 9192	264	9.458 1254	286	0.541 8746	9.982 7938	22	978	
023	9.440 9456	264	9.458 1540	286	0.541 8460	9.982 7916	22	977	
		264		286			22		
024	9.440 9720		9.458 1826		0.541 8174	9.982 7894		976	
025	9.440 9984	264	9.458 2111	285	0.541 7889	9.982 7873	21	975	
026	9.441 0248	264	9.458 2397	286	0.541 7603	9.982 7851	22	974	
		264		286			22		
027	9.441 0512		9.458 2683		0.541 7317	9.982 7829		973	
028	9.441 0775	263	9.458 2968	285	0.541 7032	9.982 7807	22	972	
029	9.441 1039	264	9.458 3254	286	0.541 6746	9.982 7785	22	971	
		264		285			21		
.030	9.441 1303		9.458 3539		0.541 6461	9.982 7764		.970	
		264		286			22		
031	9.441 1567		9.458 3825		0.541 6175	9.982 7742		969	
032	9.441 1831	264	9.458 4111	286	0.541 5889	9.982 7720	22	968	
033	9.441 2095	264	9.458 4396	285	0.541 5604	9.982 7698	22	967	
		263		286			21		
034	9.441 2358		9.458 4682		0.541 5318	9.982 7677		966	
035	9.441 2622	264	9.458 4967	285	0.541 5033	9.982 7655	22	965	
036	9.441 2886	264	9.458 5253	286	0.541 4747	9.982 7633	22	964	
		263		285			22		
037	9.441 3149		9.458 5538		0.541 4462	9.982 7611		963	
038	9.441 3413	264	9.458 5824	286	0.541 4176	9.982 7589	22	962	
039	9.441 3677	264	9.458 6109	285	0.541 3891	9.982 7568	21	961	
		264		286			22		
.040	9.441 3941		9.458 6395		0.541 3605	9.982 7546		.960	
		263		285			22		
041	9.441 4204		9.458 6680		0.541 3320	9.982 7524		959	
042	9.441 4468	264	9.458 6966	286	0.541 3034	9.982 7502	22	958	
043	9.441 4731	263	9.458 7251	285	0.541 2749	9.982 7480	22	957	
		264		285			21		
044	9.441 4995		9.458 7536		0.541 2464	9.982 7459		956	
045	9.441 5259	264	9.458 7822	286	0.541 2178	9.982 7437	22	955	
046	9.441 5522	263	9.458 8107	285	0.541 1893	9.982 7415	22	954	
		264		285			22		
047	9.441 5786		9.458 8392		0.541 1608	9.982 7393		953	
048	9.441 6049	263	9.458 8678	286	0.541 1322	9.982 7371	22	952	
049	9.441 6313	264	9.458 8963	285	0.541 1037	9.982 7350	21	951	
		263		285			22		
.050	9.441 6576		9.458 9248		0.541 0752	9.982 7328		.950	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	287	286
1	28.7	28.6
2	57.4	57.2
3	86.1	85.8
4	114.8	114.4
5	143.5	143.0
6	172.2	171.6
7	200.9	200.2
8	229.6	228.8
9	258.3	257.4

	285
1	28.5
2	57.0
3	85.5
4	114.0
5	142.5
6	171.0
7	199.5
8	228.0
9	256.5

	265	264
1	26.5	26.4
2	53.0	52.8
3	79.5	79.2
4	106.0	105.6
5	132.5	132.0
6	159.0	158.4
7	185.5	184.8
8	212.0	211.2
9	238.5	237.6

	263
1	26.3
2	52.6
3	78.9
4	105.2
5	131.5
6	157.8
7	184.1
8	210.4
9	236.7

	22	21
1	2.2	2.1
2	4.4	4.2
3	6.6	6.3
4	8.8	8.4
5	11.0	10.5
6	13.2	12.6
7	15.4	14.7
8	17.6	16.8
9	19.8	18.9

74°.000 — 73°.950

16°.050 — 16°.100

16°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.441 6576		9.458 9248		0.541 0752	9.982 7328		.950	
		264		286			22		
051	9.441 6840		9.458 9534		0.541 0466	9.982 7306		949	
052	9.441 7103	263	9.458 9819	285	0.541 0181	9.982 7284	22	948	
053	9.441 7366	263	9.459 0104	285	0.540 9896	9.982 7262	22	947	
		264		285			22		
054	9.441 7630		9.459 0389		0.540 9611	9.982 7241	21	946	
055	9.441 7893	263	9.459 0674	285	0.540 9326	9.982 7219	22	945	
056	9.441 8157	264	9.459 0960	286	0.540 9040	9.982 7197	22	944	
		263		285			22		
057	9.441 8420		9.459 1245		0.540 8755	9.982 7175	22	943	
058	9.441 8683	263	9.459 1530	285	0.540 8470	9.982 7153	21	942	
059	9.441 8947	264	9.459 1815	285	0.540 8185	9.982 7132	22	941	
		263		285			22		
.060	9.441 9210		9.459 2100		0.540 7900	9.982 7110	22	.940	
		263		285			22		
061	9.441 9473		9.459 2385		0.540 7615	9.982 7088	22	939	
062	9.441 9737	264	9.459 2670	285	0.540 7330	9.982 7066	22	938	
063	9.442 0000	263	9.459 2956	286	0.540 7044	9.982 7044	22	937	
		263		285			22		
064	9.442 0263		9.459 3241		0.540 6759	9.982 7022	21	936	
065	9.442 0526	263	9.459 3526	285	0.540 6474	9.982 7001	22	935	
066	9.442 0789	263	9.459 3811	285	0.540 6189	9.982 6979	22	934	
		264		285			22		
067	9.442 1053		9.459 4096		0.540 5904	9.982 6957	22	933	
068	9.442 1316	263	9.459 4381	285	0.540 5619	9.982 6935	22	932	
069	9.442 1579	263	9.459 4666	285	0.540 5334	9.982 6913	22	931	
		263		285			22		
.070	9.442 1842		9.459 4951		0.540 5049	9.982 6891	22	.930	
		263		285			21		
071	9.442 2105		9.459 5236		0.540 4764	9.982 6870	22	929	
072	9.442 2368	263	9.459 5521	285	0.540 4479	9.982 6848	22	928	
073	9.442 2631	263	9.459 5806	285	0.540 4194	9.982 6826	22	927	
		263		284			22		
074	9.442 2894		9.459 6090		0.540 3910	9.982 6804	22	926	
075	9.442 3158	264	9.459 6375	285	0.540 3625	9.982 6782	22	925	
076	9.442 3421	263	9.459 6660	285	0.540 3340	9.982 6760	22	924	
		263		285			21		
077	9.442 3684		9.459 6945		0.540 3055	9.982 6739	22	923	
078	9.442 3947	263	9.459 7230	285	0.540 2770	9.982 6717	22	922	
079	9.442 4210	263	9.459 7515	285	0.540 2485	9.982 6695	22	921	
		263		285			22		
.080	9.442 4473		9.459 7800		0.540 2200	9.982 6673	22	.920	
		262		284			22		
081	9.442 4735		9.459 8084		0.540 1916	9.982 6651	22	919	
082	9.442 4998	263	9.459 8369	285	0.540 1631	9.982 6629	22	918	
083	9.442 5261	263	9.459 8654	285	0.540 1346	9.982 6607	22	917	
		263		285			21		
084	9.442 5524		9.459 8939		0.540 1061	9.982 6586	22	916	
085	9.442 5787	263	9.459 9223	284	0.540 0777	9.982 6564	22	915	
086	9.442 6050	263	9.459 9508	285	0.540 0492	9.982 6542	22	914	
		263		285			22		
087	9.442 6313		9.459 9793		0.540 0207	9.982 6520	22	913	
088	9.442 6576	263	9.460 0077	284	0.539 9923	9.982 6498	22	912	
089	9.442 6838	262	9.460 0362	285	0.539 9638	9.982 6476	22	911	
		263		285			22		
.090	9.442 7101		9.460 0647		0.539 9353	9.982 6454	22	.910	
		263		284			21		
091	9.442 7364		9.460 0931		0.539 9069	9.982 6433	22	909	
092	9.442 7627	263	9.460 1216	285	0.539 8784	9.982 6411	22	908	
093	9.442 7889	262	9.460 1501	285	0.539 8499	9.982 6389	22	907	
		263		284			22		
094	9.442 8152		9.460 1785		0.539 8215	9.982 6367	22	906	
095	9.442 8415	263	9.460 2070	285	0.539 7930	9.982 6345	22	905	
096	9.442 8678	263	9.460 2354	284	0.539 7646	9.982 6323	22	904	
		262		285			22		
097	9.442 8940		9.460 2639		0.539 7361	9.982 6301	22	903	
098	9.442 9203	263	9.460 2923	284	0.539 7077	9.982 6279	22	902	
099	9.442 9466	263	9.460 3208	285	0.539 6792	9.982 6258	21	901	
		262		284			22		
.100	9.442 9728		9.460 3492		0.539 6508	9.982 6236		.900	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	286	285
1	28.6	28.5
2	57.2	57.0
3	85.8	85.5
4	114.4	114.0
5	143.0	142.5
6	171.6	171.0
7	200.2	199.5
8	228.8	228.0
9	257.4	256.5

	284
1	28.4
2	56.8
3	85.2
4	113.6
5	142.0
6	170.4
7	198.8
8	227.2
9	255.6

	264	263
1	26.4	26.3
2	52.8	52.6
3	79.2	78.9
4	105.6	105.2
5	132.0	131.5
6	158.4	157.8
7	184.8	184.1
8	211.2	210.4
9	237.6	236.7

	262
1	26.2
2	52.4
3	78.6
4	104.8
5	131.0
6	157.2
7	183.4
8	209.6
9	235.8

	22	21
1	2.2	2.1
2	4.4	4.2
3	6.6	6.3
4	8.8	8.4
5	11.0	10.5
6	13.2	12.6
7	15.4	14.7
8	17.6	16.8
9	19.8	18.9

73°.950 — 73°.900

16°.100 — 16°.150

16°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.442 9728		9.460 3492		0.539 6508	9.982 6236		.900	
		263		285			22		
101	9.442 9991		9.460 3777		0.539 6223	9.982 6214		899	
102	9.443 0253	262	9.460 4061	284	0.539 5939	9.982 6192	22	898	
103	9.443 0516	263	9.460 4346	285	0.539 5654	9.982 6170	22	897	
		262		284			22		
104	9.443 0778		9.460 4630		0.539 5370	9.982 6148		896	
105	9.443 1041	263	9.460 4915	285	0.539 5085	9.982 6126	22	895	
106	9.443 1304	263	9.460 5199	284	0.539 4801	9.982 6104	22	894	
		262		285			21		
107	9.443 1566		9.460 5484		0.539 4516	9.982 6083		893	
108	9.443 1829	263	9.460 5768	284	0.539 4232	9.982 6061	22	892	
109	9.443 2091	262	9.460 6052	284	0.539 3948	9.982 6039	22	891	
		262		285			22		
.110	9.443 2353		9.460 6337		0.539 3663	9.982 6017		.890	
		263		284			22		
111	9.443 2616		9.460 6621		0.539 3379	9.982 5995		889	
112	9.443 2878	262	9.460 6905	284	0.539 3095	9.982 5973	22	888	
113	9.443 3141	263	9.460 7189	284	0.539 2811	9.982 5951	22	887	
		262		285			22		
114	9.443 3403		9.460 7474		0.539 2526	9.982 5929		886	
115	9.443 3665	262	9.460 7758	284	0.539 2242	9.982 5907	22	885	
116	9.443 3928	263	9.460 8042	284	0.539 1958	9.982 5885	22	884	
		262		284			21		
117	9.443 4190		9.460 8326		0.539 1674	9.982 5864		883	
118	9.443 4452	262	9.460 8611	285	0.539 1389	9.982 5842	22	882	
119	9.443 4715	263	9.460 8895	284	0.539 1105	9.982 5820	22	881	
		262		284			22		
.120	9.443 4977		9.460 9179		0.539 0821	9.982 5798		.880	
		262		284			22		
121	9.443 5239		9.460 9463		0.539 0537	9.982 5776		879	
122	9.443 5501	262	9.460 9747	284	0.539 0253	9.982 5754	22	878	
123	9.443 5764	263	9.461 0032	285	0.538 9968	9.982 5732	22	877	
		262		284			22		
124	9.443 6026		9.461 0316		0.538 9684	9.982 5710		876	
125	9.443 6288	262	9.461 0600	284	0.538 9400	9.982 5688	22	875	
126	9.443 6550	262	9.461 0884	284	0.538 9116	9.982 5666	22	874	
		262		284			22		
127	9.443 6812		9.461 1168		0.538 8832	9.982 5644		873	
128	9.443 7075	263	9.461 1452	284	0.538 8548	9.982 5623	21	872	
129	9.443 7337	262	9.461 1736	284	0.538 8264	9.982 5601	22	871	
		262		284			22		
.130	9.443 7599		9.461 2020		0.538 7980	9.982 5579		.870	
		262		284			22		
131	9.443 7861		9.461 2304		0.538 7696	9.982 5557		869	
132	9.443 8123	262	9.461 2588	284	0.538 7412	9.982 5535	22	868	
133	9.443 8385	262	9.461 2872	284	0.538 7128	9.982 5513	22	867	
		262		284			22		
134	9.443 8647		9.461 3156		0.538 6844	9.982 5491		866	
135	9.443 8909	262	9.461 3440	284	0.538 6560	9.982 5469	22	865	
136	9.443 9171	262	9.461 3724	284	0.538 6276	9.982 5447	22	864	
		262		284			22		
137	9.443 9433		9.461 4008		0.538 5992	9.982 5425		863	
138	9.443 9695	262	9.461 4292	284	0.538 5708	9.982 5403	22	862	
139	9.443 9957	262	9.461 4576	284	0.538 5424	9.982 5381	22	861	
		262		283			22		
.140	9.444 0219		9.461 4859		0.538 5141	9.982 5359		.860	
		262		284			21		
141	9.444 0481		9.461 5143		0.538 4857	9.982 5338		859	
142	9.444 0743	262	9.461 5427	284	0.538 4573	9.982 5316	22	858	
143	9.444 1005	262	9.461 5711	284	0.538 4289	9.982 5294	22	857	
		261		284			22		
144	9.444 1266		9.461 5995		0.538 4005	9.982 5272		856	
145	9.444 1528	262	9.461 6279	284	0.538 3721	9.982 5250	22	855	
146	9.444 1790	262	9.461 6562	283	0.538 3438	9.982 5228	22	854	
		262		284			22		
147	9.444 2052		9.461 6846		0.538 3154	9.982 5206		853	
148	9.444 2314	262	9.461 7130	284	0.538 2870	9.982 5184	22	852	
149	9.444 2575	261	9.461 7414	284	0.538 2586	9.982 5162	22	851	
		262		283			22		
.150	9.444 2837		9.461 7697		0.538 2303	9.982 5140		.850	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	285	284
1	28.5	28.4
2	57.0	56.8
3	85.5	85.2
4	114.0	113.6
5	142.5	142.0
6	171.0	170.4
7	199.5	198.8
8	228.0	227.2
9	256.5	255.6

	283
1	28.3
2	56.6
3	84.9
4	113.2
5	141.5
6	169.8
7	198.1
8	226.4
9	254.7

	263	262
1	26.3	26.2
2	52.6	52.4
3	78.9	78.6
4	105.2	104.8
5	131.5	131.0
6	157.8	157.2
7	184.1	183.4
8	210.4	209.6
9	236.7	235.8

	261
1	26.1
2	52.2
3	78.3
4	104.4
5	130.5
6	156.6
7	182.7
8	208.8
9	234.9

	22	21
1	2.2	2.1
2	4.4	4.2
3	6.6	6.3
4	8.8	8.4
5	11.0	10.5
6	13.2	12.6
7	15.4	14.7
8	17.6	16.8
9	19.8	18.9

73°.900 — 73°.850

$16^\circ.150$ — $16^\circ.200$

16°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.444 2837		9.461 7697		0.538 2303	9.982 5140		**.850**	
		262		284			22		
151	9.444 3099		9.461 7981		0.538 2019	9.982 5118		849	
152	9.444 3361	262	9.461 8265	284	0.538 1735	9.982 5096	22	848	
153	9.444 3622	261	9.461 8548	283	0.538 1452	9.982 5074	22	847	
		262		284			22		
154	9.444 3884		9.461 8832		0.538 1168	9.982 5052		846	
155	9.444 4146	262	9.461 9116	284	0.538 0884	9.982 5030	22	845	
156	9.444 4407	261	9.461 9399	283	0.538 0601	9.982 5008	22	844	
		262		284			22		
157	9.444 4669		9.461 9683		0.538 0317	9.982 4986		843	
158	9.444 4931	262	9.461 9966	283	0.538 0034	9.982 4964	22	842	
159	9.444 5192	261	9.462 0250	284	0.537 9750	9.982 4942	22	841	
		262		283			22		
.160	9.444 5454		9.462 0533		0.537 9467	9.982 4920		**.840**	
		262		284			22		
161	9.444 5716		9.462 0817		0.537 9183	9.982 4898		839	
162	9.444 5977	261	9.462 1101	284	0.537 8899	9.982 4877	21	838	
163	9.444 6239	262	9.462 1384	283	0.537 8616	9.982 4855	22	837	
		261		284			22		
164	9.444 6500		9.462 1668		0.537 8332	9.982 4833		836	
165	9.444 6762	262	9.462 1951	283	0.537 8049	9.982 4811	22	835	
166	9.444 7023	261	9.462 2234	283	0.537 7766	9.982 4789	22	834	
		262		284			22		
167	9.444 7285		9.462 2518		0.537 7482	9.982 4767		833	
168	9.444 7546	261	9.462 2801	283	0.537 7199	9.982 4745	22	832	
169	9.444 7807	261	9.462 3085	284	0.537 6915	9.982 4723	22	831	
		262		283			22		
.170	9.444 8069		9.462 3368		0.537 6632	9.982 4701		**.830**	
		261		284			22		
171	9.444 8330		9.462 3652		0.537 6348	9.982 4679		829	
172	9.444 8592	262	9.462 3935	283	0.537 6065	9.982 4657	22	828	
173	9.444 8853	261	9.462 4218	283	0.537 5782	9.982 4635	22	827	
		261		284			22		
174	9.444 9114		9.462 4502		0.537 5498	9.982 4613		826	
175	9.444 9376	262	9.462 4785	283	0.537 5215	9.982 4591	22	825	
176	9.444 9637	261	9.462 5068	283	0.537 4932	9.982 4569	22	824	
		261		284			22		
177	9.444 9898		9.462 5352		0.537 4648	9.982 4547		823	
178	9.445 0160	262	9.462 5635	283	0.537 4365	9.982 4525	22	822	
179	9.445 0421	261	9.462 5918	283	0.537 4082	9.982 4503	22	821	
		261		283			22		
.180	9.445 0682		9.462 6201		0.537 3799	9.982 4481		**.820**	
		261		284			22		
181	9.445 0943		9.462 6485		0.537 3515	9.982 4459		819	
182	9.445 1205	262	9.462 6768	283	0.537 3232	9.982 4437	22	818	
183	9.445 1466	261	9.462 7051	283	0.537 2949	9.982 4415	22	817	
		261		283			22		
184	9.445 1727		9.462 7334		0.537 2666	9.982 4393		816	
185	9.445 1988	261	9.462 7617	283	0.537 2383	9.982 4371	22	815	
186	9.445 2249	261	9.462 7900	283	0.537 2100	9.982 4349	22	814	
		261		284			22		
187	9.445 2510		9.462 8184		0.537 1816	9.982 4327		813	
188	9.445 2772	262	9.462 8467	283	0.537 1533	9.982 4305	22	812	
189	9.445 3033	261	9.462 8750	283	0.537 1250	9.982 4283	22	811	
		261		283			22		
.190	9.445 3294		9.462 9033		0.537 0967	9.982 4261		**.810**	
		261		283			22		
191	9.445 3555		9.462 9316		0.537 0684	9.982 4239		809	
192	9.445 3816	261	9.462 9599	283	0.537 0401	9.982 4217	22	808	
193	9.445 4077	261	9.462 9882	283	0.537 0118	9.982 4195	22	807	
		261		283			22		
194	9.445 4338		9.463 0165		0.536 9835	9.982 4173		806	
195	9.445 4599	261	9.463 0448	283	0.536 9552	9.982 4151	22	805	
196	9.445 4860	261	9.463 0731	283	0.536 9269	9.982 4129	22	804	
		261		283			22		
197	9.445 5121		9.463 1014		0.536 8986	9.982 4107		803	
198	9.445 5382	261	9.463 1297	283	0.536 8703	9.982 4085	22	802	
199	9.445 5643	261	9.463 1580	283	0.536 8420	9.982 4063	22	801	
		261		283			22		
.200	9.445 5904		9.463 1863		0.536 8137	9.982 4041		**.800**	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	284	283
1	28.4	28.3
2	56.8	56.6
3	85.2	84.9
4	113.6	113.2
5	142.0	141.5
6	170.4	169.8
7	198.8	198.1
8	227.2	226.4
9	255.6	254.7

	282
1	28.2
2	56.4
3	84.6
4	112.8
5	141.0
6	169.2
7	197.4
8	225.6
9	253.8

	262	261
1	26.2	26.1
2	52.4	52.2
3	78.6	78.3
4	104.8	104.4
5	131.0	130.5
6	157.2	156.6
7	183.4	182.7
8	209.6	208.8
9	235.8	234.9

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

	21
1	2.1
2	4.2
3	6.3
4	8.4
5	10.5
6	12.6
7	14.7
8	16.8
9	18.9

$73^\circ.850$ — $73^\circ.800$

16°.200 — 16°.250

16°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.445 5904		9.463 1863		0.536 8137	9.982 4041		.800	
		260		283			22		
201	9.445 6164		9.463 2146		0.536 7854	9.982 4019		799	
202	9.445 6425	261	9.463 2429	283	0.536 7571	9.982 3997	22	798	
203	9.445 6686	261	9.463 2712	283	0.536 7288	9.982 3975	22	797	
		261		282			22		
204	9.445 6947		9.463 2994		0.536 7006	9.982 3953		796	
205	9.445 7208	261	9.463 3277	283	0.536 6723	9.982 3931	22	795	
206	9.445 7469	261	9.463 3560	283	0.536 6440	9.982 3909	22	794	
		260		283			22		
207	9.445 7729		9.463 3843		0.536 6157	9.982 3887		793	
208	9.445 7990	261	9.463 4126	283	0.536 5874	9.982 3865	22	792	
209	9.445 8251	261	9.463 4409	283	0.536 5591	9.982 3842	23	791	
		261		282			22		
.210	9.445 8512		9.463 4691		0.536 5309	9.982 3820		.790	
		260		283			22		
211	9.445 8772		9.463 4974		0.536 5026	9.982 3798		789	
212	9.445 9033	261	9.463 5257	283	0.536 4743	9.982 3776	22	788	
213	9.445 9294	261	9.463 5540	283	0.536 4460	9.982 3754	22	787	
		261		282			22		
214	9.445 9555		9.463 5822		0.536 4178	9.982 3732		786	
215	9.445 9815	260	9.463 6105	283	0.536 3895	9.982 3710	22	785	
216	9.446 0076	261	9.463 6388	283	0.536 3612	9.982 3688	22	784	
		260		282			22		
217	9.446 0336		9.463 6670		0.536 3330	9.982 3666		783	
218	9.446 0597	261	9.463 6953	283	0.536 3047	9.982 3644	22	782	
219	9.446 0858	261	9.463 7236	283	0.536 2764	9.982 3622	22	781	
		260		282			22		
.220	9.446 1118		9.463 7518		0.536 2482	9.982 3600		.780	
		261		283			22		
221	9.446 1379		9.463 7801		0.536 2199	9.982 3578		779	
222	9.446 1639	260	9.463 8083	282	0.536 1917	9.982 3556	22	778	
223	9.446 1900	261	9.463 8366	283	0.536 1634	9.982 3534	22	777	
		260		283			22		
224	9.446 2160		9.463 8649		0.536 1351	9.982 3512		776	
225	9.446 2421	261	9.463 8931	282	0.536 1069	9.982 3490	22	775	
226	9.446 2681	260	9.463 9214	283	0.536 0786	9.982 3468	22	774	
		261		282			22		
227	9.446 2942		9.463 9496		0.536 0504	9.982 3446		773	
228	9.446 3202	260	9.463 9779	283	0.536 0221	9.982 3424	22	772	
229	9.446 3463	261	9.464 0061	282	0.535 9939	9.982 3402	22	771	
		260		283			23		
.230	9.446 3723		9.464 0344		0.535 9656	9.982 3379		.770	
		260		282			22		
231	9.446 3983		9.464 0626		0.535 9374	9.982 3357		769	
232	9.446 4244	261	9.464 0908	282	0.535 9092	9.982 3335	22	768	
233	9.446 4504	260	9.464 1191	283	0.535 8809	9.982 3313	22	767	
		260		282			22		
234	9.446 4764		9.464 1473		0.535 8527	9.982 3291		766	
235	9.446 5025	261	9.464 1756	283	0.535 8244	9.982 3269	22	765	
236	9.446 5285	260	9.464 2038	282	0.535 7962	9.982 3247	22	764	
		260		282			22		
237	9.446 5545		9.464 2320		0.535 7680	9.982 3225		763	
238	9.446 5806	261	9.464 2603	283	0.535 7397	9.982 3203	22	762	
239	9.446 6066	260	9.464 2885	282	0.535 7115	9.982 3181	22	761	
		260		282			22		
.240	9.446 6326		9.464 3167		0.535 6833	9.982 3159		.760	
		260		283			22		
241	9.446 6586		9.464 3450		0.535 6550	9.982 3137		759	
242	9.446 6846	260	9.464 3732	282	0.535 6268	9.982 3115	22	758	
243	9.446 7107	261	9.464 4014	282	0.535 5986	9.982 3092	23	757	
		260		282			22		
244	9.446 7367		9.464 4296		0.535 5704	9.982 3070		756	
245	9.446 7627	260	9.464 4579	283	0.535 5421	9.982 3048	22	755	
246	9.446 7887	260	9.464 4861	282	0.535 5139	9.982 3026	22	754	
		260		282			22		
247	9.446 8147		9.464 5143		0.535 4857	9.982 3004		753	
248	9.446 8407	260	9.464 5425	282	0.535 4575	9.982 2982	22	752	
249	9.446 8667	260	9.464 5707	282	0.535 4293	9.982 2960	22	751	
		260		283			22		
.250	9.446 8927		9.464 5990		0.535 4010	9.982 2938		.750	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	283	282
1	28.3	28.2
2	56.6	56.4
3	84.9	84.6
4	113.2	112.8
5	141.5	141.0
6	169.8	169.2
7	198.1	197.4
8	226.4	225.6
9	254.7	253.8

	261
1	26.1
2	52.2
3	78.3
4	104.4
5	130.5
6	156.6
7	182.7
8	208.8
9	234.9

	260
1	26.0
2	52.0
3	78.0
4	104.0
5	130.0
6	156.0
7	182.0
8	208.0
9	234.0

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.800 — 73°.750

16°.250 — 16°.300

16°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.446 8927		9.464 5990		0.535 4010	9.982 2938		.750	
		260		282			22		
251	9.446 9187		9.464 6272		0.535 3728	9.982 2916		749	
252	9.446 9447	260	9.464 6554	282	0.535 3446	9.982 2894	22	748	
253	9.446 9708	261	9.464 6836	282	0.535 3164	9.982 2872	22	747	
		260		282			23		
254	9.446 9968		9.464 7118		0.535 2882	9.982 2849		746	
255	9.447 0227	259	9.464 7400	282	0.535 2600	9.982 2827	22	745	
256	9.447 0487	260	9.464 7682	282	0.535 2318	9.982 2805	22	744	
		260		282			22		
257	9.447 0747		9.464 7964		0.535 2036	9.982 2783		743	
258	9.447 1007	260	9.464 8246	282	0.535 1754	9.982 2761	22	742	
259	9.447 1267	260	9.464 8528	282	0.535 1472	9.982 2739	22	741	
		260		282			22		
.260	9.447 1527		9.464 8810		0.535 1190	9.982 2717		.740	
		260		282			22		
261	9.447 1787		9.464 9092		0.535 0908	9.982 2695		739	
262	9.447 2047	260	9.464 9374	282	0.535 0626	9.982 2673	22	738	
263	9.447 2307	260	9.464 9656	282	0.535 0344	9.982 2651	22	737	
		260		282			23		
264	9.447 2567		9.464 9938		0.535 0062	9.982 2628		736	
265	9.447 2826	259	9.465 0220	282	0.534 9780	9.982 2606	22	735	
266	9.447 3086	260	9.465 0502	282	0.534 9498	9.982 2584	22	734	
		260		282			22		
267	9.447 3346		9.465 0784		0.534 9216	9.982 2562		733	
268	9.447 3606	260	9.465 1066	282	0.534 8934	9.982 2540	22	732	
269	9.447 3865	259	9.465 1348	282	0.534 8652	9.982 2518	22	731	
		260		281			22		
.270	9.447 4125		9.465 1629		0.534 8371	9.982 2496		.730	
		260		282			22		
271	9.447 4385		9.465 1911		0.534 8089	9.982 2474		729	
272	9.447 4645	260	9.465 2193	282	0.534 7807	9.982 2451	23	728	
273	9.447 4904	259	9.465 2475	282	0.534 7525	9.982 2429	22	727	
		260		282			22		
274	9.447 5164		9.465 2757		0.534 7243	9.982 2407		726	
275	9.447 5423	259	9.465 3038	281	0.534 6962	9.982 2385	22	725	
276	9.447 5683	260	9.465 3320	282	0.534 6680	9.982 2363	22	724	
		260		282			22		
277	9.447 5943		9.465 3602		0.534 6398	9.982 2341		723	
278	9.447 6202	259	9.465 3884	282	0.534 6116	9.982 2319	22	722	
279	9.447 6462	260	9.465 4165	281	0.534 5835	9.982 2297	22	721	
		259		282			23		
.280	9.447 6721		9.465 4447		0.534 5553	9.982 2274		.720	
		260		282			22		
281	9.447 6981		9.465 4729		0.534 5271	9.982 2252		719	
282	9.447 7240	259	9.465 5010	281	0.534 4990	9.982 2230	22	718	
283	9.447 7500	260	9.465 5292	282	0.534 4708	9.982 2208	22	717	
		259		282			22		
284	9.447 7759		9.465 5574		0.534 4426	9.982 2186		716	
285	9.447 8019	260	9.465 5855	281	0.534 4145	9.982 2164	22	715	
286	9.447 8278	259	9.465 6137	282	0.534 3863	9.982 2142	22	714	
		260		281			23		
287	9.447 8538		9.465 6418		0.534 3582	9.982 2119		713	
288	9.447 8797	259	9.465 6700	282	0.534 3300	9.982 2097	22	712	
289	9.447 9057	260	9.465 6982	282	0.534 3018	9.982 2075	22	711	
		259		281			22		
.290	9.447 9316		9.465 7263		0.534 2737	9.982 2053		.710	
		259		282			22		
291	9.447 9575		9.465 7545		0.534 2455	9.982 2031		709	
292	9.447 9835	260	9.465 7826	281	0.534 2174	9.982 2009	22	708	
293	9.448 0094	259	9.465 8108	282	0.534 1892	9.982 1987	22	707	
		259		281			23		
294	9.448 0353		9.465 8389		0.534 1611	9.982 1964		706	
295	9.448 0613	260	9.465 8671	282	0.534 1329	9.982 1942	22	705	
296	9.448 0872	259	9.465 8952	281	0.534 1048	9.982 1920	22	704	
		259		281			22		
297	9.448 1131		9.465 9233		0.534 0767	9.982 1898		703	
298	9.448 1391	260	9.465 9515	282	0.534 0485	9.982 1876	22	702	
299	9.448 1650	259	9.465 9796	281	0.534 0204	9.982 1854	22	701	
		259		282			23		
.300	9.448 1909		9.466 0078		0.533 9922	9.982 1831		.700	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	282	281
1	28.2	28.1
2	56.4	56.2
3	84.6	84.3
4	112.8	112.4
5	141.0	140.5
6	169.2	168.6
7	197.4	196.7
8	225.6	224.8
9	253.8	252.9

	261	260
1	26.1	26.0
2	52.2	52.0
3	78.3	78.0
4	104.4	104.0
5	130.5	130.0
6	156.6	156.0
7	182.7	182.0
8	208.8	208.0
9	234.9	234.0

	259
1	25.9
2	51.8
3	77.7
4	103.6
5	129.5
6	155.4
7	181.3
8	207.2
9	233.1

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.750 — 73°.700

$16^\circ.300 - 16^\circ.350$

16°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.448 1909		9.466 0078		0.533 9922	9.982 1831		**.700**	
		259		281			22		
301	9.448 2168		9.466 0359		0.533 9641	9.982 1809		699	
		259		281			22		
302	9.448 2427		9.466 0640		0.533 9360	9.982 1787		698	
		260		282			22		
303	9.448 2687		9.466 0922		0.533 9078	9.982 1765		697	
		259		281			22		
304	9.448 2946		9.466 1203		0.533 8797	9.982 1743		696	
		259		281			22		
305	9.448 3205		9.466 1484		0.533 8516	9.982 1721		695	
		259		282			23		
306	9.448 3464		9.466 1766		0.533 8234	9.982 1698		694	
		259		281			22		
307	9.448 3723		9.466 2047		0.533 7953	9.982 1676		693	
		259		281			22		
308	9.448 3982		9.466 2328		0.533 7672	9.982 1654		692	
		259		281			22		
309	9.448 4241		9.466 2609		0.533 7391	9.982 1632		691	
		259		282			22		
.310	9.448 4500		9.466 2891		0.533 7109	9.982 1610		**.690**	
		259		281			23		
311	9.448 4759		9.466 3172		0.533 6828	9.982 1587		689	
		259		281			22		
312	9.448 5018		9.466 3453		0.533 6547	9.982 1565		688	
		259		281			22		
313	9.448 5277		9.466 3734		0.533 6266	9.982 1543		687	
		259		281			22		
314	9.448 5536		9.466 4015		0.533 5985	9.982 1521		686	
		259		282			22		
315	9.448 5795		9.466 4297		0.533 5703	9.982 1499		685	
		259		281			22		
316	9.448 6054		9.466 4578		0.533 5422	9.982 1477		684	
		259		281			23		
317	9.448 6313		9.466 4859		0.533 5141	9.982 1454		683	
		259		281			22		
318	9.448 6572		9.466 5140		0.533 4860	9.982 1432		682	
		259		281			22		
319	9.448 6831		9.466 5421		0.533 4579	9.982 1410		681	
		259		281			22		
.320	9.448 7090		9.466 5702		0.533 4298	9.982 1388		**.680**	
		259		281			22		
321	9.448 7349		9.466 5983		0.533 4017	9.982 1366		679	
		259		281			23		
322	9.448 7608		9.466 6264		0.533 3736	9.982 1343		678	
		258		281			22		
323	9.448 7866		9.466 6545		0.533 3455	9.982 1321		677	
		259		281			22		
324	9.448 8125		9.466 6826		0.533 3174	9.982 1299		676	
		259		281			22		
325	9.448 8384		9.466 7107		0.533 2893	9.982 1277		675	
		259		281			22		
326	9.448 8643		9.466 7388		0.533 2612	9.982 1255		674	
		259		281			23		
327	9.448 8902		9.466 7669		0.533 2331	9.982 1232		673	
		258		281			22		
328	9.448 9160		9.466 7950		0.533 2050	9.982 1210		672	
		259		281			22		
329	9.448 9419		9.466 8231		0.533 1769	9.982 1188		671	
		259		281			22		
.330	9.448 9678		9.466 8512		0.533 1488	9.982 1166		**.670**	
		259		281			22		
331	9.448 9937		9.466 8793		0.533 1207	9.982 1144		669	
		258		281			23		
332	9.449 0195		9.466 9074		0.533 0926	9.982 1121		668	
		259		281			22		
333	9.449 0454		9.466 9355		0.533 0645	9.982 1099		667	
		259		281			22		
334	9.449 0713		9.466 9636		0.533 0364	9.982 1077		666	
		258		280			22		
335	9.449 0971		9.466 9916		0.533 0084	9.982 1055		665	
		259		281			22		
336	9.449 1230		9.467 0197		0.532 9803	9.982 1033		664	
		258		281			23		
337	9.449 1488		9.467 0478		0.532 9522	9.982 1010		663	
		259		281			22		
338	9.449 1747		9.467 0759		0.532 9241	9.982 0988		662	
		259		281			22		
339	9.449 2006		9.467 1040		0.532 8960	9.982 0966		661	
		258		280			22		
.340	9.449 2264		9.467 1320		0.532 8680	9.982 0944		**.660**	
		259		281			23		
341	9.449 2523		9.467 1601		0.532 8399	9.982 0921		659	
		258		281			22		
342	9.449 2781		9.467 1882		0.532 8118	9.982 0899		658	
		259		281			22		
343	9.449 3040		9.467 2163		0.532 7837	9.982 0877		657	
		258		280			22		
344	9.449 3298		9.467 2443		0.532 7557	9.982 0855		656	
		259		281			22		
345	9.449 3557		9.467 2724		0.532 7276	9.982 0833		655	
		258		281			23		
346	9.449 3815		9.467 3005		0.532 6995	9.982 0810		654	
		258		280			22		
347	9.449 4073		9.467 3285		0.532 6715	9.982 0788		653	
		259		281			22		
348	9.449 4332		9.467 3566		0.532 6434	9.982 0766		652	
		258		281			22		
349	9.449 4590		9.467 3847		0.532 6153	9.982 0744		651	
		259		280			23		
.350	9.449 4849		9.467 4127		0.532 5873	9.982 0721		**.650**	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	282	281
1	28.2	28.1
2	56.4	56.2
3	84.6	84.3
4	112.8	112.4
5	141.0	140.5
6	169.2	168.6
7	197.4	196.7
8	225.6	224.8
9	253.8	252.9

	280
1	28.0
2	56.0
3	84.0
4	112.0
5	140.0
6	168.0
7	196.0
8	224.0
9	252.0

	260	259
1	26.0	25.9
2	52.0	51.8
3	78.0	77.7
4	104.0	103.6
5	130.0	129.5
6	156.0	155.4
7	182.0	181.3
8	208.0	207.2
9	234.0	233.1

	258
1	25.8
2	51.6
3	77.4
4	103.2
5	129.0
6	154.8
7	180.6
8	206.4
9	232.2

	23	22
1	2.3	2.2
2	4.6	4.4
3	6.9	6.6
4	9.2	8.8
5	11.5	11.0
6	13.8	13.2
7	16.1	15.4
8	18.4	17.6
9	20.7	19.8

$73^\circ.700 - 73^\circ.650$

16°.350 — 16°.400

16°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.449 4849		9.467 4127		0.532 5873	9.982 0721		.650	
		258		281			22		
351	9.449 5107		9.467 4408		0.532 5592	9.982 0699		649	
352	9.449 5365	258	9.467 4688	280	0.532 5312	9.982 0677	22	648	
353	9.449 5624	259	9.467 4969	281	0.532 5031	9.982 0655	22	647	
		258		281			23		
354	9.449 5882		9.467 5250		0.532 4750	9.982 0632		646	
355	9.449 6140	258	9.467 5530	280	0.532 4470	9.982 0610	22	645	
356	9.449 6399	259	9.467 5811	281	0.532 4189	9.982 0588	22	644	
		258		280			22		
357	9.449 6657		9.467 6091		0.532 3909	9.982 0566		643	
358	9.449 6915	258	9.467 6372	281	0.532 3628	9.982 0543	23	642	
359	9.449 7173	258	9.467 6652	280	0.532 3348	9.982 0521	22	641	
		259		281			22		
.360	9.449 7432		9.467 6933		0.532 3067	9.982 0499		.640	
		258		280			22		
361	9.449 7690		9.467 7213		0.532 2787	9.982 0477		639	
362	9.449 7948	258	9.467 7494	281	0.532 2506	9.982 0454	23	638	
363	9.449 8206	258	9.467 7774	280	0.532 2226	9.982 0432	22	637	
		258		280			22		
364	9.449 8464		9.467 8054		0.532 1946	9.982 0410		636	
365	9.449 8722	258	9.467 8335	281	0.532 1665	9.982 0388	22	635	
366	9.449 8980	258	9.467 8615	280	0.532 1385	9.982 0365	23	634	
		259		280			22		
367	9.449 9239		9.467 8895		0.532 1105	9.982 0343		633	
368	9.449 9497	258	9.467 9176	281	0.532 0824	9.982 0321	22	632	
369	9.449 9755	258	9.467 9456	280	0.532 0544	9.982 0299	22	631	
		258		280			23		
.370	9.450 0013		9.467 9736		0.532 0264	9.982 0276		.630	
		258		281			22		
371	9.450 0271		9.468 0017		0.531 9983	9.982 0254		629	
372	9.450 0529	258	9.468 0297	280	0.531 9703	9.982 0232	22	628	
373	9.450 0787	258	9.468 0577	280	0.531 9423	9.982 0210	22	627	
		258		281			23		
374	9.450 1045		9.468 0858		0.531 9142	9.982 0187		626	
375	9.450 1303	258	9.468 1138	280	0.531 8862	9.982 0165	22	625	
376	9.450 1561	258	9.468 1418	280	0.531 8582	9.982 0143	22	624	
		258		280			23		
377	9.450 1819		9.468 1698		0.531 8302	9.982 0120		623	
378	9.450 2077	258	9.468 1978	280	0.531 8022	9.982 0098	22	622	
379	9.450 2334	257	9.468 2259	281	0.531 7741	9.982 0076	22	621	
		258		280			22		
.380	9.450 2592		9.468 2539		0.531 7461	9.982 0054		.620	
		258		280			23		
381	9.450 2850		9.468 2819		0.531 7181	9.982 0031		619	
382	9.450 3108	258	9.468 3099	280	0.531 6901	9.982 0009	22	618	
383	9.450 3366	258	9.468 3379	280	0.531 6621	9.981 9987	22	617	
		258		280			23		
384	9.450 3624		9.468 3659		0.531 6341	9.981 9964		616	
385	9.450 3882	258	9.468 3939	280	0.531 6061	9.981 9942	22	615	
386	9.450 4139	257	9.468 4219	280	0.531 5781	9.981 9920	22	614	
		258		280			22		
387	9.450 4397		9.468 4499		0.531 5501	9.981 9898		613	
388	9.450 4655	258	9.468 4780	281	0.531 5220	9.981 9875	23	612	
389	9.450 4913	258	9.468 5060	280	0.531 4940	9.981 9853	22	611	
		257		280			22		
.390	9.450 5170		9.468 5340		0.531 4660	9.981 9831		.610	
		258		280			23		
391	9.450 5428		9.468 5620		0.531 4380	9.981 9808		609	
392	9.450 5686	258	9.468 5900	280	0.531 4100	9.981 9786	22	608	
393	9.450 5943	257	9.468 6179	279	0.531 3821	9.981 9764	22	607	
		258		280			22		
394	9.450 6201		9.468 6459		0.531 3541	9.981 9742		606	
395	9.450 6459	258	9.468 6739	280	0.531 3261	9.981 9719	23	605	
396	9.450 6716	257	9.468 7019	280	0.531 2981	9.981 9697	22	604	
		258		280			22		
397	9.450 6974		9.468 7299		0.531 2701	9.981 9675		603	
398	9.450 7231	257	9.468 7579	280	0.531 2421	9.981 9652	23	602	
399	9.450 7489	258	9.468 7859	280	0.531 2141	9.981 9630	22	601	
		258		280			22		
.400	9.450 7747		9.468 8139		0.531 1861	9.981 9608		.600	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	281	280
1	28.1	28.0
2	56.2	56.0
3	84.3	84.0
4	112.4	112.0
5	140.5	140.0
6	168.6	168.0
7	196.7	196.0
8	224.8	224.0
9	252.9	252.0

	279
1	27.9
2	55.8
3	83.7
4	111.6
5	139.5
6	167.4
7	195.3
8	223.2
9	251.1

	259	258
1	25.9	25.8
2	51.8	51.6
3	77.7	77.4
4	103.6	103.2
5	129.5	129.0
6	155.4	154.8
7	181.3	180.6
8	207.2	206.4
9	233.1	232.2

	257
1	25.7
2	51.4
3	77.1
4	102.8
5	128.5
6	154.2
7	179.9
8	205.6
9	231.3

	23	22
1	2.3	2.2
2	4.6	4.4
3	6.9	6.6
4	9.2	8.8
5	11.5	11.0
6	13.8	13.2
7	16.1	15.4
8	18.4	17.6
9	20.7	19.8

73°.650 — 73°.600

16°.400 — 16°.450

16°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.450 7747		9.468 8139		0.531 1861	9.981 9608		.600	
		257		280			23		
401	9.450 8004		9.468 8419		0.531 1581	9.981 9585		599	
402	9.450 8262	258	9.468 8698	279	0.531 1302	9.981 9563	22	598	
403	9.450 8519	257	9.468 8978	280	0.531 1022	9.981 9541	22	597	
		258		280			23		
404	9.450 8777		9.468 9258		0.531 0742	9.981 9518		596	
405	9.450 9034	257	9.468 9538	280	0.531 0462	9.981 9496	22	595	
406	9.450 9291	257	9.468 9818	280	0.531 0182	9.981 9474	22	594	
		258		279			22		
407	9.450 9549		9.469 0097		0.530 9903	9.981 9452		593	
408	9.450 9806	257	9.469 0377	280	0.530 9623	9.981 9429	23	592	
409	9.451 0064	258	9.469 0657	280	0.530 9343	9.981 9407	22	591	
		257		280			22		
.410	9.451 0321		9.469 0937		0.530 9063	9.981 9385		.590	
		257		279			23		
411	9.451 0578		9.469 1216		0.530 8784	9.981 9362		589	
412	9.451 0836	258	9.469 1496	280	0.530 8504	9.981 9340	22	588	
413	9.451 1093	257	9.469 1776	280	0.530 8224	9.981 9318	22	587	
		257		279			23		
414	9.451 1350		9.469 2055		0.530 7945	9.981 9295		586	
415	9.451 1608	258	9.469 2335	280	0.530 7665	9.981 9273	22	585	
416	9.451 1865	257	9.469 2614	279	0.530 7386	9.981 9251	22	584	
		257		280			23		
417	9.451 2122		9.469 2894		0.530 7106	9.981 9228		583	
418	9.451 2380	258	9.469 3174	280	0.530 6826	9.981 9206	22	582	
419	9.451 2637	257	9.469 3453	279	0.530 6547	9.981 9184	22	581	
		257		280			23		
.420	9.451 2894		9.469 3733		0.530 6267	9.981 9161		.580	
		257		279			22		
421	9.451 3151		9.469 4012		0.530 5988	9.981 9139		579	
422	9.451 3408	257	9.469 4292	280	0.530 5708	9.981 9117	22	578	
423	9.451 3666	258	9.469 4571	279	0.530 5429	9.981 9094	23	577	
		257		280			22		
424	9.451 3923		9.469 4851		0.530 5149	9.981 9072		576	
425	9.451 4180	257	9.469 5130	279	0.530 4870	9.981 9050	22	575	
426	9.451 4437	257	9.469 5410	280	0.530 4590	9.981 9027	23	574	
		257		279			22		
427	9.451 4694		9.469 5689		0.530 4311	9.981 9005		573	
428	9.451 4951	257	9.469 5969	280	0.530 4031	9.981 8983	22	572	
429	9.451 5208	257	9.469 6248	279	0.530 3752	9.981 8960	23	571	
		257		280			22		
.430	9.451 5465		9.469 6528		0.530 3472	9.981 8938		.570	
		257		279			23		
431	9.451 5722		9.469 6807		0.530 3193	9.981 8915		569	
432	9.451 5979	257	9.469 7086	279	0.530 2914	9.981 8893	22	568	
433	9.451 6236	257	9.469 7366	280	0.530 2634	9.981 8871	22	567	
		257		279			23		
434	9.451 6493		9.469 7645		0.530 2355	9.981 8848		566	
435	9.451 6750	257	9.469 7924	279	0.530 2076	9.981 8826	22	565	
436	9.451 7007	257	9.469 8204	280	0.530 1796	9.981 8804	22	564	
		257		279			23		
437	9.451 7264		9.469 8483		0.530 1517	9.981 8781		563	
438	9.451 7521	257	9.469 8762	279	0.530 1238	9.981 8759	22	562	
439	9.451 7778	257	9.469 9041	279	0.530 0959	9.981 8737	22	561	
		257		280			23		
.440	9.451 8035		9.469 9321		0.530 0679	9.981 8714		.560	
		257		279			22		
441	9.451 8292		9.469 9600		0.530 0400	9.981 8692		559	
442	9.451 8549	257	9.469 9879	279	0.530 0121	9.981 8669	23	558	
443	9.451 8805	256	9.470 0158	279	0.529 9842	9.981 8647	22	557	
		257		280			22		
444	9.451 9062		9.470 0438		0.529 9562	9.981 8625		556	
445	9.451 9319	257	9.470 0717	279	0.529 9283	9.981 8602	23	555	
446	9.451 9576	257	9.470 0996	279	0.529 9004	9.981 8580	22	554	
		257		279			22		
447	9.451 9833		9.470 1275		0.529 8725	9.981 8558		553	
448	9.452 0089	256	9.470 1554	279	0.529 8446	9.981 8535	23	552	
449	9.452 0346	257	9.470 1833	279	0.529 8167	9.981 8513	22	551	
		257		279			23		
.450	9.452 0603		9.470 2112		0.529 7888	9.981 8490		.550	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	280	279
1	28.0	27.9
2	56.0	55.8
3	84.0	83.7
4	112.0	111.6
5	140.0	139.5
6	168.0	167.4
7	196.0	195.3
8	224.0	223.2
9	252.0	251.1

	258	257
1	25.8	25.7
2	51.6	51.4
3	77.4	77.1
4	103.2	102.8
5	129.0	128.5
6	154.8	154.2
7	180.6	179.9
8	206.4	205.6
9	232.2	231.3

	256
1	25.6
2	51.2
3	76.8
4	102.4
5	128.0
6	153.6
7	179.2
8	204.8
9	230.4

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.600 — 73°.550

$16^\circ.450 - 16^\circ.500$

16°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.452 0603		9.470 2112		0.529 7888	9.981 8490		·550	
		257		280			22		
451	9.452 0860		9.470 2392		0.529 7608	9.981 8468		549	
452	9.452 1116	256	9.470 2671	279	0.529 7329	9.981 8446	22	548	
453	9.452 1373	257	9.470 2950	279	0.529 7050	9.981 8423	23	547	
		257		279			22		
454	9.452 1630		9.470 3229		0.529 6771	9.981 8401		546	
455	9.452 1886	256	9.470 3508	279	0.529 6492	9.981 8379	22	545	
456	9.452 2143	257	9.470 3787	279	0.529 6213	9.981 8356	23	544	
		256		279			22		
457	9.452 2399		9.470 4066		0.529 5934	9.981 8334		543	
458	9.452 2656	257	9.470 4345	279	0.529 5655	9.981 8311	23	542	
459	9.452 2913	257	9.470 4624	279	0.529 5376	9.981 8289	22	541	
		256		279			22		
·460	9.452 3169		9.470 4903		0.529 5097	9.981 8267		·540	
		257		279			23		
461	9.452 3426		9.470 5182		0.529 4818	9.981 8244		539	
462	9.452 3682	256	9.470 5460	278	0.529 4540	9.981 8222	22	538	
463	9.452 3939	257	9.470 5739	279	0.529 4261	9.981 8199	23	537	
		256		279			22		
464	9.452 4195		9.470 6018		0.529 3982	9.981 8177		536	
465	9.452 4452	257	9.470 6297	279	0.529 3703	9.981 8155	22	535	
466	9.452 4708	256	9.470 6576	279	0.529 3424	9.981 8132	23	534	
		257		279			22		
467	9.452 4965		9.470 6855		0.529 3145	9.981 8110		533	
468	9.452 5221	256	9.470 7134	279	0.529 2866	9.981 8087	23	532	
469	9.452 5478	257	9.470 7413	279	0.529 2587	9.981 8065	22	531	
		256		278			22		
·470	9.452 5734		9.470 7691		0.529 2309	9.981 8043		·530	
		256		279			23		
471	9.452 5990		9.470 7970		0.529 2030	9.981 8020		529	
472	9.452 6247	257	9.470 8249	279	0.529 1751	9.981 7998	22	528	
473	9.452 6503	256	9.470 8528	279	0.529 1472	9.981 7975	23	527	
		256		278			22		
474	9.452 6759		9.470 8806		0.529 1194	9.981 7953		526	
475	9.452 7016	257	9.470 9085	279	0.529 0915	9.981 7931	22	525	
476	9.452 7272	256	9.470 9364	279	0.529 0636	9.981 7908	23	524	
		256		279			22		
477	9.452 7528		9.470 9643		0.529 0357	9.981 7886		523	
478	9.452 7784	256	9.470 9921	278	0.529 0079	9.981 7863	23	522	
479	9.452 8041	257	9.471 0200	279	0.528 9800	9.981 7841	22	521	
		256		279			23		
·480	9.452 8297		9.471 0479		0.528 9521	9.981 7818		·520	
		256		278			22		
481	9.452 8553		9.471 0757		0.528 9243	9.981 7796		519	
482	9.452 8809	256	9.471 1036	279	0.528 8964	9.981 7774	22	518	
483	9.452 9066	257	9.471 1314	278	0.528 8686	9.981 7751	23	517	
		256		279			22		
484	9.452 9322		9.471 1593		0.528 8407	9.981 7729		516	
485	9.452 9578	256	9.471 1872	279	0.528 8128	9.981 7706	23	515	
486	9.452 9834	256	9.471 2150	278	0.528 7850	9.981 7684	22	514	
		256		279			23		
487	9.453 0090		9.471 2429		0.528 7571	9.981 7661		513	
488	9.453 0346	256	9.471 2707	278	0.528 7293	9.981 7639	22	512	
489	9.453 0602	256	9.471 2986	279	0.528 7014	9.981 7617	22	511	
		256		278			23		
·490	9.453 0858		9.471 3264		0.528 6736	9.981 7594		·510	
		256		279			22		
491	9.453 1114		9.471 3543		0.528 6457	9.981 7572		509	
492	9.453 1370	256	9.471 3821	278	0.528 6179	9.981 7549	23	508	
493	9.453 1626	256	9.471 4100	279	0.528 5900	9.981 7527	22	507	
		256		278			23		
494	9.453 1882		9.471 4378		0.528 5622	9.981 7504		506	
495	9.453 2138	256	9.471 4656	278	0.528 5344	9.981 7482	22	505	
496	9.453 2394	256	9.471 4935	279	0.528 5065	9.981 7459	23	504	
		256		278			22		
497	9.453 2650		9.471 5213		0.528 4787	9.981 7437		503	
498	9.453 2906	256	9.471 5492	279	0.528 4508	9.981 7415	22	502	
499	9.453 3162	256	9.471 5770	278	0.528 4230	9.981 7392	23	501	
		256		278			22		
·500	9.453 3418		9.471 6048		0.528 3952	9.981 7370		·500	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	280	279
1	28.0	27.9
2	56.0	55.8
3	84.0	83.7
4	112.0	111.6
5	140.0	139.5
6	168.0	167.4
7	196.0	195.3
8	224.0	223.2
9	252.0	251.1

	278
1	27.8
2	55.6
3	83.4
4	111.2
5	139.0
6	166.8
7	194.6
8	222.4
9	250.2

	257	256
1	25.7	25.6
2	51.4	51.2
3	77.1	76.8
4	102.8	102.4
5	128.5	128.0
6	154.2	153.6
7	179.9	179.2
8	205.6	204.8
9	231.3	230.4

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

$73^\circ.550 - 73^\circ.500$

$16^\circ.500 - 16^\circ.550$

16°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.453 3418		9.471 6048		0.528 3952	9.981 7370		**.500**	
		256		279			23		
501	9.453 3674		9.471 6327		0.528 3673	9.981 7347		499	
502	9.453 3930	256	9.471 6605	278	0.528 3395	9.981 7325	22	498	
503	9.453 4186	256	9.471 6883	278	0.528 3117	9.981 7302	23	497	
		255		279			22		
504	9.453 4441		9.471 7162		0.528 2838	9.981 7280		496	
505	9.453 4697	256	9.471 7440	278	0.528 2560	9.981 7257	23	495	
506	9.453 4953	256	9.471 7718	278	0.528 2282	9.981 7235	22	494	
		256		278			23		
507	9.453 5209		9.471 7996		0.528 2004	9.981 7212		493	
508	9.453 5465	256	9.471 8275	279	0.528 1725	9.981 7190	22	492	
509	9.453 5720	255	9.471 8553	278	0.528 1447	9.981 7168	22	491	
		256		278			23		
.510	9.453 5976		9.471 8831		0.528 1169	9.981 7145		**.490**	
		256		278			22		
511	9.453 6232		9.471 9109		0.528 0891	9.981 7123		489	
512	9.453 6488	256	9.471 9387	278	0.528 0613	9.981 7100	23	488	
513	9.453 6743	255	9.471 9666	279	0.528 0334	9.981 7078	22	487	
		256		278			23		
514	9.453 6999		9.471 9944		0.528 0056	9.981 7055		486	
515	9.453 7255	256	9.472 0222	278	0.527 9778	9.981 7033	22	485	
516	9.453 7510	255	9.472 0500	278	0.527 9500	9.981 7010	23	484	
		256		278			22		
517	9.453 7766		9.472 0778		0.527 9222	9.981 6988		483	
518	9.453 8021	255	9.472 1056	278	0.527 8944	9.981 6965	23	482	
519	9.453 8277	256	9.472 1334	278	0.527 8666	9.981 6943	22	481	
		256		278			23		
.520	9.453 8533		9.472 1612		0.527 8388	9.981 6920		**.480**	
		255		278			22		
521	9.453 8788		9.472 1890		0.527 8110	9.981 6898		479	
522	9.453 9044	256	9.472 2168	278	0.527 7832	9.981 6875	23	478	
523	9.453 9299	255	9.472 2446	278	0.527 7554	9.981 6853	22	477	
		256		278			23		
524	9.453 9555		9.472 2724		0.527 7276	9.981 6830		476	
525	9.453 9810	255	9.472 3002	278	0.527 6998	9.981 6808	22	475	
526	9.454 0066	256	9.472 3280	278	0.527 6720	9.981 6785	23	474	
		255		278			22		
527	9.454 0321		9.472 3558		0.527 6442	9.981 6763		473	
528	9.454 0577	256	9.472 3836	278	0.527 6164	9.981 6740	23	472	
529	9.454 0832	255	9.472 4114	278	0.527 5886	9.981 6718	22	471	
		255		278			23		
.530	9.454 1087		9.472 4392		0.527 5608	9.981 6695		**.470**	
		256		278			22		
531	9.454 1343		9.472 4670		0.527 5330	9.981 6673		469	
532	9.454 1598	255	9.472 4948	278	0.527 5052	9.981 6650	23	468	
533	9.454 1854	256	9.472 5226	278	0.527 4774	9.981 6628	22	467	
		255		277			23		
534	9.454 2109		9.472 5503		0.527 4497	9.981 6605		466	
535	9.454 2364	255	9.472 5781	278	0.527 4219	9.981 6583	22	465	
536	9.454 2620	256	9.472 6059	278	0.527 3941	9.981 6560	23	464	
		255		278			22		
537	9.454 2875		9.472 6337		0.527 3663	9.981 6538		463	
538	9.454 3130	255	9.472 6615	278	0.527 3385	9.981 6515	23	462	
539	9.454 3385	255	9.472 6892	277	0.527 3108	9.981 6493	22	461	
		256		278			23		
.540	9.454 3641		9.472 7170		0.527 2830	9.981 6470		**.460**	
		255		278			22		
541	9.454 3896		9.472 7448		0.527 2552	9.981 6448		459	
542	9.454 4151	255	9.472 7726	278	0.527 2274	9.981 6425	23	458	
543	9.454 4406	255	9.472 8003	277	0.527 1997	9.981 6403	22	457	
		255		278			23		
544	9.454 4661		9.472 8281		0.527 1719	9.981 6380		456	
545	9.454 4917	256	9.472 8559	278	0.527 1441	9.981 6358	22	455	
546	9.454 5172	255	9.472 8836	277	0.527 1164	9.981 6335	23	454	
		255		278			22		
547	9.454 5427		9.472 9114		0.527 0886	9.981 6313		453	
548	9.454 5682	255	9.472 9392	278	0.527 0608	9.981 6290	23	452	
549	9.454 5937	255	9.472 9669	277	0.527 0331	9.981 6268	22	451	
		255		278			23		
.550	9.454 6192		9.472 9947		0.527 0053	9.981 6245		**.450**	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	279	278
1	27.9	27.8
2	55.8	55.6
3	83.7	83.4
4	111.6	111.2
5	139.5	139.0
6	167.4	166.8
7	195.3	194.6
8	223.2	222.4
9	251.1	250.2

	277
1	27.7
2	55.4
3	83.1
4	110.8
5	138.5
6	166.2
7	193.9
8	221.6
9	249.3

	256	255
1	25.6	25.5
2	51.2	51.0
3	76.8	76.5
4	102.4	102.0
5	128.0	127.5
6	153.6	153.0
7	179.2	178.5
8	204.8	204.0
9	230.4	229.5

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

$73^\circ.500 - 73^\circ.450$

16°.550 — 16°.600

16°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.454 6192		9.472 9947		0.527 0053	9.981 6245		.450	
		255		278			22		
551	9.454 6447		9.473 0225		0.526 9775	9.981 6223		449	
552	9.454 6702	255	9.473 0502	277	0.526 9498	9.981 6200	23	448	
553	9.454 6957	255	9.473 0780	278	0.526 9220	9.981 6178	22	447	
		255		277			23		
554	9.454 7212		9.473 1057	278	0.526 8943	9.981 6155		446	
555	9.454 7467	255	9.473 1335	277	0.526 8665	9.981 6133	22	445	
556	9.454 7722	255	9.473 1612	278	0.526 8388	9.981 6110	23	444	
		255		277			22		
557	9.454 7977		9.473 1890	278	0.526 8110	9.981 6088		443	
558	9.454 8232	255	9.473 2167	277	0.526 7833	9.981 6065	23	442	
559	9.454 8487	255	9.473 2445	278	0.526 7555	9.981 6042	23	441	
		255		277			22		
.560	9.454 8742		9.473 2722	278	0.526 7278	9.981 6020		.440	
		255		277			23		
561	9.454 8997		9.473 3000	278	0.526 7000	9.981 5997		439	
562	9.454 9252	255	9.473 3277	277	0.526 6723	9.981 5975	22	438	
563	9.454 9507	255	9.473 3555	278	0.526 6445	9.981 5952	23	437	
		255		277			22		
564	9.454 9762		9.473 3832	277	0.526 6168	9.981 5930		436	
565	9.455 0016	254	9.473 4109	278	0.526 5891	9.981 5907	23	435	
566	9.455 0271	255	9.473 4387	277	0.526 5613	9.981 5885	22	434	
		255		277			23		
567	9.455 0526		9.473 4664	277	0.526 5336	9.981 5862		433	
568	9.455 0781	255	9.473 4941	278	0.526 5059	9.981 5840	22	432	
569	9.455 1036	255	9.473 5219	277	0.526 4781	9.981 5817	23	431	
		254		277			23		
.570	9.455 1290		9.473 5496	277	0.526 4504	9.981 5794		.430	
		255		278			22		
571	9.455 1545		9.473 5773	277	0.526 4227	9.981 5772		429	
572	9.455 1800	255	9.473 6051	277	0.526 3949	9.981 5749	23	428	
573	9.455 2055	255	9.473 6328	277	0.526 3672	9.981 5727	22	427	
		254		277			23		
574	9.455 2309		9.473 6605	277	0.526 3395	9.981 5704		426	
575	9.455 2564	255	9.473 6882	278	0.526 3118	9.981 5682	22	425	
576	9.455 2819	255	9.473 7160	277	0.526 2840	9.981 5659	23	424	
		254		277			22		
577	9.455 3073		9.473 7437	277	0.526 2563	9.981 5637		423	
578	9.455 3328	255	9.473 7714	277	0.526 2286	9.981 5614	23	422	
579	9.455 3583	255	9.473 7991	277	0.526 2009	9.981 5591	23	421	
		254		277			22		
.580	9.455 3837		9.473 8268	277	0.526 1732	9.981 5569		.420	
		255		278			23		
581	9.455 4092		9.473 8545	277	0.526 1455	9.981 5546		419	
582	9.455 4346	254	9.473 8823	277	0.526 1177	9.981 5524	22	418	
583	9.455 4601	255	9.473 9100	277	0.526 0900	9.981 5501	23	417	
		254		277			22		
584	9.455 4855		9.473 9377	277	0.526 0623	9.981 5479		416	
585	9.455 5110	255	9.473 9654	277	0.526 0346	9.981 5456	23	415	
586	9.455 5364	254	9.473 9931	277	0.526 0069	9.981 5433	23	414	
		255		277			22		
587	9.455 5619		9.474 0208	277	0.525 9792	9.981 5411		413	
588	9.455 5873	254	9.474 0485	277	0.525 9515	9.981 5388	23	412	
589	9.455 6128	255	9.474 0762	277	0.525 9238	9.981 5366	22	411	
		254		277			23		
.590	9.455 6382		9.474 1039	277	0.525 8961	9.981 5343		.410	
		255		277			23		
591	9.455 6637		9.474 1316	277	0.525 8684	9.981 5320		409	
592	9.455 6891	254	9.474 1593	277	0.525 8407	9.981 5298	22	408	
593	9.455 7145	254	9.474 1870	277	0.525 8130	9.981 5275	23	407	
		255		277			22		
594	9.455 7400		9.474 2147	277	0.525 7853	9.981 5253		406	
595	9.455 7654	254	9.474 2424	277	0.525 7576	9.981 5230	23	405	
596	9.455 7908	254	9.474 2701	277	0.525 7299	9.981 5208	22	404	
		255		277			23		
597	9.455 8163		9.474 2978	277	0.525 7022	9.981 5185		403	
598	9.455 8417	254	9.474 3255	277	0.525 6745	9.981 5162	23	402	
599	9.455 8671	254	9.474 3532	277	0.525 6468	9.981 5140	22	401	
		255		276			23		
.600	9.455 8926		9.474 3808		0.525 6192	9.981 5117		.400	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	278	277
1	27.8	27.7
2	55.6	55.4
3	83.4	83.1
4	111.2	110.8
5	139.0	138.5
6	166.8	166.2
7	194.6	193.9
8	222.4	221.6
9	250.2	249.3

	276
1	27.6
2	55.2
3	82.8
4	110.4
5	138.0
6	165.6
7	193.2
8	220.8
9	248.4

	255	254
1	25.5	25.4
2	51.0	50.8
3	76.5	76.2
4	102.0	101.6
5	127.5	127.0
6	153.0	152.4
7	178.5	177.8
8	204.0	203.2
9	229.5	228.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.450 — 73°.400

16°.600 — 16°.650

16°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.455 8926		9.474 3808		0.525 6192	9.981 5117		.400	
		254		277			22		
601	9.455 9180		9.474 4085		0.525 5915	9.981 5095		399	
602	9.455 9434	254	9.474 4362	277	0.525 5638	9.981 5072	23	398	
603	9.455 9688	254	9.474 4639	277	0.525 5361	9.981 5049	23	397	
		254		277			22		
604	9.455 9942		9.474 4916		0.525 5084	9.981 5027		396	
605	9.456 0197	255	9.474 5192	276	0.525 4808	9.981 5004	23	395	
606	9.456 0451	254	9.474 5469	277	0.525 4531	9.981 4982	22	394	
		254		277			23		
607	9.456 0705		9.474 5746		0.525 4254	9.981 4959		393	
608	9.456 0959	254	9.474 6023	277	0.525 3977	9.981 4936	23	392	
609	9.456 1213	254	9.474 6300	277	0.525 3700	9.981 4914	22	391	
		254		276			23		
.610	9.456 1467		9.474 6576		0.525 3424	9.981 4891		.390	
		254		277			22		
611	9.456 1721		9.474 6853		0.525 3147	9.981 4869		389	
612	9.456 1976	255	9.474 7130	277	0.525 2870	9.981 4846	23	388	
613	9.456 2230	254	9.474 7406	276	0.525 2594	9.981 4823	23	387	
		254		277			22		
614	9.456 2484		9.474 7683		0.525 2317	9.981 4801		386	
615	9.456 2738	254	9.474 7960	277	0.525 2040	9.981 4778	23	385	
616	9.456 2992	254	9.474 8236	276	0.525 1764	9.981 4755	23	384	
		254		277			22		
617	9.456 3246		9.474 8513		0.525 1487	9.981 4733		383	
618	9.456 3500	254	9.474 8789	276	0.525 1211	9.981 4710	23	382	
619	9.456 3754	254	9.474 9066	277	0.525 0934	9.981 4688	22	381	
		254		277			23		
.620	9.456 4008		9.474 9343		0.525 0657	9.981 4665		.380	
		253		276			23		
621	9.456 4261		9.474 9619		0.525 0381	9.981 4642		379	
622	9.456 4515	254	9.474 9896	277	0.525 0104	9.981 4620	22	378	
623	9.456 4769	254	9.475 0172	276	0.524 9828	9.981 4597	23	377	
		254		277			23		
624	9.456 5023		9.475 0449		0.524 9551	9.981 4574		376	
625	9.456 5277	254	9.475 0725	276	0.524 9275	9.981 4552	22	375	
626	9.456 5531	254	9.475 1002	277	0.524 8998	9.981 4529	23	374	
		254		276			22		
627	9.456 5785		9.475 1278		0.524 8722	9.981 4507		373	
628	9.456 6039	254	9.475 1555	277	0.524 8445	9.981 4484	23	372	
629	9.456 6292	253	9.475 1831	276	0.524 8169	9.981 4461	23	371	
		254		276			22		
.630	9.456 6546		9.475 2107		0.524 7893	9.981 4439		.370	
		254		277			23		
631	9.456 6800		9.475 2384		0.524 7616	9.981 4416		369	
632	9.456 7054	254	9.475 2660	276	0.524 7340	9.981 4393	23	368	
633	9.456 7307	253	9.475 2937	277	0.524 7063	9.981 4371	22	367	
		254		276			23		
634	9.456 7561		9.475 3213		0.524 6787	9.981 4348		366	
635	9.456 7815	254	9.475 3489	276	0.524 6511	9.981 4325	23	365	
636	9.456 8069	254	9.475 3766	277	0.524 6234	9.981 4303	22	364	
		253		276			23		
637	9.456 8322		9.475 4042		0.524 5958	9.981 4280		363	
638	9.456 8576	254	9.475 4318	276	0.524 5682	9.981 4257	23	362	
639	9.456 8829	253	9.475 4595	277	0.524 5405	9.981 4235	22	361	
		254		276			23		
.640	9.456 9083		9.475 4871		0.524 5129	9.981 4212		.360	
		254		276			22		
641	9.456 9337		9.475 5147		0.524 4853	9.981 4190		359	
642	9.456 9590	253	9.475 5423	276	0.524 4577	9.981 4167	23	358	
643	9.456 9844	254	9.475 5700	277	0.524 4300	9.981 4144	23	357	
		253		276			22		
644	9.457 0097		9.475 5976		0.524 4024	9.981 4122		356	
645	9.457 0351	254	9.475 6252	276	0.524 3748	9.981 4099	23	355	
646	9.457 0604	253	9.475 6528	276	0.524 3472	9.981 4076	23	354	
		254		276			22		
647	9.457 0858		9.475 6804		0.524 3196	9.981 4054		353	
648	9.457 1111	253	9.475 7081	277	0.524 2919	9.981 4031	23	352	
649	9.457 1365	254	9.475 7357	276	0.524 2643	9.981 4008	23	351	
		253		276			22		
.650	9.457 1618		9.475 7633		0.524 2367	9.981 3986		.350	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	277	276
1	27.7	27.6
2	55.4	55.2
3	83.1	82.8
4	110.8	110.4
5	138.5	138.0
6	166.2	165.6
7	193.9	193.2
8	221.6	220.8
9	249.3	248.4

	255	254
1	25.5	25.4
2	51.0	50.8
3	76.5	76.2
4	102.0	101.6
5	127.5	127.0
6	153.0	152.4
7	178.5	177.8
8	204.0	203.2
9	229.5	228.6

	253
1	25.3
2	50.6
3	75.9
4	101.2
5	126.5
6	151.8
7	177.1
8	202.4
9	227.7

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.400 — 73°.350

16°.650 — 16°.700

16°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.457 1618		9.475 7633		0.524 2367	9.981 3986		**.350**	
		254		276			23		
651	9.457 1872		9.475 7909		0.524 2091	9.981 3963		349	
652	9.457 2125	253	9.475 8185	276	0.524 1815	9.981 3940	23	348	
653	9.457 2379	254	9.475 8461	276	0.524 1539	9.981 3918	22	347	
		253		276			23		
654	9.457 2632		9.475 8737		0.524 1263	9.981 3895		346	
655	9.457 2885	253	9.475 9013	276	0.524 0987	9.981 3872	23	345	
656	9.457 3139	254	9.475 9289	276	0.524 0711	9.981 3850	22	344	
		253		276			23		
657	9.457 3392		9.475 9565		0.524 0435	9.981 3827		343	
658	9.457 3646	254	9.475 9841	276	0.524 0159	9.981 3804	23	342	
659	9.457 3899	253	9.476 0117	276	0.523 9883	9.981 3781	23	341	
		253		276			22		
.660	9.457 4152		9.476 0393		0.523 9607	9.981 3759		**.340**	
		253		276			23		
661	9.457 4405		9.476 0669		0.523 9331	9.981 3736		339	
662	9.457 4659	254	9.476 0945	276	0.523 9055	9.981 3713	23	338	
663	9.457 4912	253	9.476 1221	276	0.523 8779	9.981 3691	22	337	
		253		276			23		
664	9.457 5165		9.476 1497		0.523 8503	9.981 3668		336	
665	9.457 5418	253	9.476 1773	276	0.523 8227	9.981 3645	23	335	
666	9.457 5672	254	9.476 2049	276	0.523 7951	9.981 3623	22	334	
		253		276			23		
667	9.457 5925		9.476 2325		0.523 7675	9.981 3600		333	
668	9.457 6178	253	9.476 2601	276	0.523 7399	9.981 3577	23	332	
669	9.457 6431	253	9.476 2877	276	0.523 7123	9.981 3555	22	331	
		253		275			23		
.670	9.457 6684		9.476 3152		0.523 6848	9.981 3532		**.330**	
		253		276			23		
671	9.457 6937		9.476 3428		0.523 6572	9.981 3509		329	
672	9.457 7191	254	9.476 3704	276	0.523 6296	9.981 3486	23	328	
673	9.457 7444	253	9.476 3980	276	0.523 6020	9.981 3464	22	327	
		253		276			23		
674	9.457 7697		9.476 4256		0.523 5744	9.981 3441		326	
675	9.457 7950	253	9.476 4531	275	0.523 5469	9.981 3418	23	325	
676	9.457 8203	253	9.476 4807	276	0.523 5193	9.981 3396	22	324	
		253		276			23		
677	9.457 8456		9.476 5083		0.523 4917	9.981 3373		323	
678	9.457 8709	253	9.476 5359	276	0.523 4641	9.981 3350	23	322	
679	9.457 8962	253	9.476 5634	275	0.523 4366	9.981 3328	22	321	
		253		276			23		
.680	9.457 9215		9.476 5910		0.523 4090	9.981 3305		**.320**	
		253		276			23		
681	9.457 9468		9.476 6186		0.523 3814	9.981 3282		319	
682	9.457 9721	253	9.476 6461	275	0.523 3539	9.981 3259	23	318	
683	9.457 9974	253	9.476 6737	276	0.523 3263	9.981 3237	22	317	
		253		276			23		
684	9.458 0227		9.476 7013		0.523 2987	9.981 3214		316	
685	9.458 0479	252	9.476 7288	275	0.523 2712	9.981 3191	23	315	
686	9.458 0732	253	9.476 7564	276	0.523 2436	9.981 3169	22	314	
		253		275			23		
687	9.458 0985		9.476 7839		0.523 2161	9.981 3146		313	
688	9.458 1238	253	9.476 8115	276	0.523 1885	9.981 3123	23	312	
689	9.458 1491	253	9.476 8391	276	0.523 1609	9.981 3100	23	311	
		253		275			22		
.690	9.458 1744		9.476 8666		0.523 1334	9.981 3078		**.310**	
		253		276			23		
691	9.458 1997		9.476 8942		0.523 1058	9.981 3055		309	
692	9.458 2249	252	9.476 9217	275	0.523 0783	9.981 3032	23	308	
693	9.458 2502	253	9.476 9493	276	0.523 0507	9.981 3009	23	307	
		253		275			22		
694	9.458 2755		9.476 9768		0.523 0232	9.981 2987		306	
695	9.458 3008	253	9.477 0044	276	0.522 9956	9.981 2964	23	305	
696	9.458 3260	252	9.477 0319	275	0.522 9681	9.981 2941	23	304	
		253		275			22		
697	9.458 3513		9.477 0594		0.522 9406	9.981 2919		303	
698	9.458 3766	253	9.477 0870	276	0.522 9130	9.981 2896	23	302	
699	9.458 4018	252	9.477 1145	275	0.522 8855	9.981 2873	23	301	
		253		276			23		
.700	9.458 4271		9.477 1421		0.522 8579	9.981 2850		**.300**	
	cos	d	cotg	d	tang	sin	d	**73°**	P.P.

	276	275
1	27.6	27.5
2	55.2	55.0
3	82.8	82.5
4	110.4	110.0
5	138.0	137.5
6	165.6	165.0
7	193.2	192.5
8	220.8	220.0
9	248.4	247.5

	254	253
1	25.4	25.3
2	50.8	50.6
3	76.2	75.9
4	101.6	101.2
5	127.0	126.5
6	152.4	151.8
7	177.8	177.1
8	203.2	202.4
9	228.6	227.7

	252
1	25.2
2	50.4
3	75.6
4	100.8
5	126.0
6	151.2
7	176.4
8	201.6
9	226.8

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.350 — 73°.300

16°.700 — 16°.750

16°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.458 4271		9.477 1421		0.522 8579	9.981 2850		.300	
		253		275			22		
701	9.458 4524		9.477 1696		0.522 8304	9.981 2828		299	
702	9.458 4776	252	9.477 1971	275	0.522 8029	9.981 2805	23	298	
703	9.458 5029	253	9.477 2247	276	0.522 7753	9.981 2782	23	297	
		252		275			23		
704	9.458 5281		9.477 2522		0.522 7478	9.981 2759		296	
705	9.458 5534	253	9.477 2797	275	0.522 7203	9.981 2737	22	295	
706	9.458 5787	253	9.477 3073	276	0.522 6927	9.981 2714	23	294	
		252		275			23		
707	9.458 6039		9.477 3348		0.522 6652	9.981 2691		293	
708	9.458 6292	253	9.477 3623	275	0.522 6377	9.981 2668	23	292	
709	9.458 6544	252	9.477 3899	276	0.522 6101	9.981 2646	22	291	
		253		275			23		
.710	9.458 6797		9.477 4174		0.522 5826	9.981 2623		.290	
		252		275			23		
711	9.458 7049		9.477 4449		0.522 5551	9.981 2600		289	
712	9.458 7302	253	9.477 4724	275	0.522 5276	9.981 2577	23	288	
713	9.458 7554	252	9.477 5000	276	0.522 5000	9.981 2555	22	287	
		253		275			23		
714	9.458 7807		9.477 5275		0.522 4725	9.981 2532		286	
715	9.458 8059	252	9.477 5550	275	0.522 4450	9.981 2509	23	285	
716	9.458 8311	252	9.477 5825	275	0.522 4175	9.981 2486	23	284	
		253		275			22		
717	9.458 8564		9.477 6100		0.522 3900	9.981 2464		283	
718	9.458 8816	252	9.477 6375	275	0.522 3625	9.981 2441	23	282	
719	9.458 9068	252	9.477 6650	275	0.522 3350	9.981 2418	23	281	
		253		276			23		
.720	9.458 9321		9.477 6926		0.522 3074	9.981 2395		.280	
		252		275			23		
721	9.458 9573		9.477 7201		0.522 2799	9.981 2372		279	
722	9.458 9825	252	9.477 7476	275	0.522 2524	9.981 2350	22	278	
723	9.459 0078	253	9.477 7751	275	0.522 2249	9.981 2327	23	277	
		252		275			23		
724	9.459 0330		9.477 8026		0.522 1974	9.981 2304		276	
725	9.459 0582	252	9.477 8301	275	0.522 1699	9.981 2281	23	275	
726	9.459 0835	253	9.477 8576	275	0.522 1424	9.981 2259	22	274	
		252		275			23		
727	9.459 1087		9.477 8851		0.522 1149	9.981 2236		273	
728	9.459 1339	252	9.477 9126	275	0.522 0874	9.981 2213	23	272	
729	9.459 1591	252	9.477 9401	275	0.522 0599	9.981 2190	23	271	
		252		275			23		
.730	9.459 1843		9.477 9676		0.522 0324	9.981 2167		.270	
		252		275			22		
731	9.459 2095		9.477 9951		0.522 0049	9.981 2145		269	
732	9.459 2348	253	9.478 0226	275	0.521 9774	9.981 2122	23	268	
733	9.459 2600	252	9.478 0501	275	0.521 9499	9.981 2099	23	267	
		252		275			23		
734	9.459 2852		9.478 0776		0.521 9224	9.981 2076		266	
735	9.459 3104	252	9.478 1050	274	0.521 8950	9.981 2054	22	265	
736	9.459 3356	252	9.478 1325	275	0.521 8675	9.981 2031	23	264	
		252		275			23		
737	9.459 3608		9.478 1600		0.521 8400	9.981 2008		263	
738	9.459 3860	252	9.478 1875	275	0.521 8125	9.981 1985	23	262	
739	9.459 4112	252	9.478 2150	275	0.521 7850	9.981 1962	23	261	
		252		275			22		
.740	9.459 4364		9.478 2425		0.521 7575	9.981 1940		.260	
		252		274			23		
741	9.459 4616		9.478 2699		0.521 7301	9.981 1917		259	
742	9.459 4868	252	9.478 2974	275	0.521 7026	9.981 1894	23	258	
743	9.459 5120	252	9.478 3249	275	0.521 6751	9.981 1871	23	257	
		252		275			23		
744	9.459 5372		9.478 3524		0.521 6476	9.981 1848		256	
745	9.459 5624	252	9.478 3799	275	0.521 6201	9.981 1826	22	255	
746	9.459 5876	252	9.478 4073	274	0.521 5927	9.981 1803	23	254	
		252		275			23		
747	9.459 6128		9.478 4348		0.521 5652	9.981 1780		253	
748	9.459 6380	252	9.478 4623	275	0.521 5377	9.981 1757	23	252	
749	9.459 6632	252	9.478 4897	274	0.521 5103	9.981 1734	23	251	
		252		275			23		
.750	9.459 6884		9.478 5172		0.521 4828	9.981 1711		.250	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	276	275
1	27.6	27.5
2	55.2	55.0
3	82.8	82.5
4	110.4	110.0
5	138.0	137.5
6	165.6	165.0
7	193.2	192.5
8	220.8	220.0
9	248.4	247.5

	274
1	27.4
2	54.8
3	82.2
4	109.6
5	137.0
6	164.4
7	191.8
8	219.2
9	246.6

	253	252
1	25.3	25.2
2	50.6	50.4
3	75.9	75.6
4	101.2	100.8
5	126.5	126.0
6	151.8	151.2
7	177.1	176.4
8	202.4	201.6
9	227.7	226.8

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.300 — 73°.250

16°.750 — 16°.800

16°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.459 6884		9.478 5172		0.521 4828	9.981 1711		.250	
		251		275			22		
751	9.459 7135		9.478 5447		0.521 4553	9.981 1689		249	
752	9.459 7387	252	9.478 5721	274	0.521 4279	9.981 1666	23	248	
753	9.459 7639	252	9.478 5996	275	0.521 4004	9.981 1643	23	247	
		252		275			23		
754	9.459 7891		9.478 6271		0.521 3729	9.981 1620		246	
755	9.459 8143	252	9.478 6545	274	0.521 3455	9.981 1597	23	245	
756	9.459 8394	251	9.478 6820	275	0.521 3180	9.981 1575	22	244	
		252		274			23		
757	9.459 8646		9.478 7094		0.521 2906	9.981 1552		243	
758	9.459 8898	252	9.478 7369	275	0.521 2631	9.981 1529	23	242	
759	9.459 9150	252	9.478 7643	274	0.521 2357	9.981 1506	23	241	
.760	9.459 9401	251	9.478 7918	275	0.521 2082	9.981 1483	23	.240	
		252		274			23		
761	9.459 9653		9.478 8192		0.521 1808	9.981 1460		239	
762	9.459 9905	252	9.478 8467	275	0.521 1533	9.981 1438	22	238	
763	9.460 0156	251	9.478 8741	274	0.521 1259	9.981 1415	23	237	
		252		275			23		
764	9.460 0408		9.478 9016		0.521 0984	9.981 1392		236	
765	9.460 0660	252	9.478 9290	274	0.521 0710	9.981 1369	23	235	
766	9.460 0911	251	9.478 9565	275	0.521 0435	9.981 1346	23	234	
		252		274			23		
767	9.460 1163		9.478 9839		0.521 0161	9.981 1323		233	
768	9.460 1414	251	9.479 0114	275	0.520 9886	9.981 1301	22	232	
769	9.460 1666	252	9.479 0388	274	0.520 9612	9.981 1278	23	231	
.770	9.460 1917	251	9.479 0662	274	0.520 9338	9.981 1255	23	.230	
		252		275			23		
771	9.460 2169		9.479 0937		0.520 9063	9.981 1232		229	
772	9.460 2420	251	9.479 1211	274	0.520 8789	9.981 1209	23	228	
773	9.460 2672	252	9.479 1485	274	0.520 8515	9.981 1186	23	227	
		251		275			22		
774	9.460 2923		9.479 1760		0.520 8240	9.981 1164		226	
775	9.460 3175	252	9.479 2034	274	0.520 7966	9.981 1141	23	225	
776	9.460 3426	251	9.479 2308	274	0.520 7692	9.981 1118	23	224	
		252		275			23		
777	9.460 3678		9.479 2583		0.520 7417	9.981 1095		223	
778	9.460 3929	251	9.479 2857	274	0.520 7143	9.981 1072	23	222	
779	9.460 4181	252	9.479 3131	274	0.520 6869	9.981 1049	23	221	
.780	9.460 4432	251	9.479 3405	274	0.520 6595	9.981 1026	23	.220	
		251		275			22		
781	9.460 4683		9.479 3680		0.520 6320	9.981 1004		219	
782	9.460 4935	252	9.479 3954	274	0.520 6046	9.981 0981	23	218	
783	9.460 5186	251	9.479 4228	274	0.520 5772	9.981 0958	23	217	
		251		274			23		
784	9.460 5437		9.479 4502		0.520 5498	9.981 0935		216	
785	9.460 5689	252	9.479 4776	274	0.520 5224	9.981 0912	23	215	
786	9.460 5940	251	9.479 5051	275	0.520 4949	9.981 0889	23	214	
		251		274			23		
787	9.460 6191		9.479 5325		0.520 4675	9.981 0866		213	
788	9.460 6442	251	9.479 5599	274	0.520 4401	9.981 0844	22	212	
789	9.460 6694	252	9.479 5873	274	0.520 4127	9.981 0821	23	211	
.790	9.460 6945	251	9.479 6147	274	0.520 3853	9.981 0798	23	.210	
		251		274			23		
791	9.460 7196		9.479 6421		0.520 3579	9.981 0775		209	
792	9.460 7447	251	9.479 6695	274	0.520 3305	9.981 0752	23	208	
793	9.460 7698	251	9.479 6969	274	0.520 3031	9.981 0729	23	207	
		252		274			23		
794	9.460 7950		9.479 7243		0.520 2757	9.981 0706		206	
795	9.460 8201	251	9.479 7517	274	0.520 2483	9.981 0683	23	205	
796	9.460 8452	251	9.479 7791	274	0.520 2209	9.981 0661	22	204	
		251		274			23		
797	9.460 8703		9.479 8065		0.520 1935	9.981 0638		203	
798	9.460 8954	251	9.479 8339	274	0.520 1661	9.981 0615	23	202	
799	9.460 9205	251	9.479 8613	274	0.520 1387	9.981 0592	23	201	
.800	9.460 9456	251	9.479 8887	274	0.520 1113	9.981 0569	23	.200	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	275	274
1	27.5	27.4
2	55.0	54.8
3	82.5	82.2
4	110.0	109.6
5	137.5	137.0
6	165.0	164.4
7	192.5	191.8
8	220.0	219.2
9	247.5	246.6

	252
1	25.2
2	50.4
3	75.6
4	100.8
5	126.0
6	151.2
7	176.4
8	201.6
9	226.8

	251
1	25.1
2	50.2
3	75.3
4	100.4
5	125.5
6	150.6
7	175.7
8	200.8
9	225.9

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.250 — 73°.200

16°.800 — 16°.850

16°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.460 9456		9.479 8887		0.520 1113	9.981 0569		.200	
		251		274			23		
801	9.460 9707		9.479 9161		0.520 0839	9.981 0546		199	
802	9.460 9958	251	9.479 9435	274	0.520 0565	9.981 0523	23	198	
803	9.461 0209	251	9.479 9709	274	0.520 0291	9.981 0500	23	197	
		251		274			23		
804	9.461 0460		9.479 9983		0.520 0017	9.981 0477		196	
805	9.461 0711	251	9.480 0257	274	0.519 9743	9.981 0455	22	195	
806	9.461 0962	251	9.480 0531	274	0.519 9469	9.981 0432	23	194	
		251		273			23		
807	9.461 1213		9.480 0804		0.519 9196	9.981 0409		193	
808	9.461 1464	251	9.480 1078	274	0.519 8922	9.981 0386	23	192	
809	9.461 1715	251	9.480 1352	274	0.519 8648	9.981 0363	23	191	
		251		274			23		
.810	9.461 1966		9.480 1626		0.519 8374	9.981 0340		.190	
		251		274			23		
811	9.461 2217		9.480 1900		0.519 8100	9.981 0317		189	
812	9.461 2468	251	9.480 2173	273	0.519 7827	9.981 0294	23	188	
813	9.461 2719	251	9.480 2447	274	0.519 7553	9.981 0271	23	187	
		250		274			22		
814	9.461 2969		9.480 2721		0.519 7279	9.981 0249		186	
815	9.461 3220	251	9.480 2995	274	0.519 7005	9.981 0226	23	185	
816	9.461 3471	251	9.480 3268	273	0.519 6732	9.981 0203	23	184	
		251		274			23		
817	9.461 3722		9.480 3542		0.519 6458	9.981 0180		183	
818	9.461 3973	251	9.480 3816	274	0.519 6184	9.981 0157	23	182	
819	9.461 4223	250	9.480 4089	273	0.519 5911	9.981 0134	23	181	
		251		274			23		
.820	9.461 4474		9.480 4363		0.519 5637	9.981 0111		.180	
		251		274			23		
821	9.461 4725		9.480 4637		0.519 5363	9.981 0088		179	
822	9.461 4976	251	9.480 4910	273	0.519 5090	9.981 0065	23	178	
823	9.461 5226	250	9.480 5184	274	0.519 4816	9.981 0042	23	177	
		251		274			23		
824	9.461 5477		9.480 5458		0.519 4542	9.981 0019		176	
825	9.461 5728	251	9.480 5731	273	0.519 4269	9.980 9996	23	175	
826	9.461 5978	250	9.480 6005	274	0.519 3995	9.980 9974	22	174	
		251		273			23		
827	9.461 6229		9.480 6278		0.519 3722	9.980 9951		173	
828	9.461 6480	251	9.480 6552	274	0.519 3448	9.980 9928	23	172	
829	9.461 6730	250	9.480 6825	273	0.519 3175	9.980 9905	23	171	
		251		274			23		
.830	9.461 6981		9.480 7099		0.519 2901	9.980 9882		.170	
		250		273			23		
831	9.461 7231		9.480 7372		0.519 2628	9.980 9859		169	
832	9.461 7482	251	9.480 7646	274	0.519 2354	9.980 9836	23	168	
833	9.461 7733	251	9.480 7919	273	0.519 2081	9.980 9813	23	167	
		250		274			23		
834	9.461 7983		9.480 8193		0.519 1807	9.980 9790		166	
835	9.461 8234	251	9.480 8466	273	0.519 1534	9.980 9767	23	165	
836	9.461 8484	250	9.480 8740	274	0.519 1260	9.980 9744	23	164	
		251		273			23		
837	9.461 8735		9.480 9013		0.519 0987	9.980 9721		163	
838	9.461 8985	250	9.480 9287	274	0.519 0713	9.980 9698	23	162	
839	9.461 9235	250	9.480 9560	273	0.519 0440	9.980 9675	23	161	
		251		273			23		
.840	9.461 9486		9.480 9833		0.519 0167	9.980 9652		.160	
		250		274			22		
841	9.461 9736		9.481 0107		0.518 9893	9.980 9630		159	
842	9.461 9987	251	9.481 0380	273	0.518 9620	9.980 9607	23	158	
843	9.462 0237	250	9.481 0653	273	0.518 9347	9.980 9584	23	157	
		250		274			23		
844	9.462 0487		9.481 0927		0.518 9073	9.980 9561		156	
845	9.462 0738	251	9.481 1200	273	0.518 8800	9.980 9538	23	155	
846	9.462 0988	250	9.481 1473	273	0.518 8527	9.980 9515	23	154	
		250		274			23		
847	9.462 1238		9.481 1747		0.518 8253	9.980 9492		153	
848	9.462 1489	251	9.481 2020	273	0.518 7980	9.980 9469	23	152	
849	9.462 1739	250	9.481 2293	273	0.518 7707	9.980 9446	23	151	
		250		273			23		
.850	9.462 1989		9.481 2566		0.518 7434	9.980 9423		.150	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	274	273
1	27.4	27.3
2	54.8	54.6
3	82.2	81.9
4	109.6	109.2
5	137.0	136.5
6	164.4	163.8
7	191.8	191.1
8	219.2	218.4
9	246.6	245.7

	251
1	25.1
2	50.2
3	75.3
4	100.4
5	125.5
6	150.6
7	175.7
8	200.8
9	225.9

	250
1	25.0
2	50.0
3	75.0
4	100.0
5	125.0
6	150.0
7	175.0
8	200.0
9	225.0

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

	22
1	2.2
2	4.4
3	6.6
4	8.8
5	11.0
6	13.2
7	15.4
8	17.6
9	19.8

73°.200 — 73°.150

$16^\circ.850 - 16^\circ.900$

16°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.462 1989		9.481 2566		0.518 7434	9.980 9423		**.150**	
		251		274			23		
851	9.462 2240		9.481 2840		0.518 7160	9.980 9400		149	
852	9.462 2490	250	9.481 3113	273	0.518 6887	9.980 9377	23	148	
853	9.462 2740	250	9.481 3386	273	0.518 6614	9.980 9354	23	147	
		250		273			23		
854	9.462 2990		9.481 3659		0.518 6341	9.980 9331		146	
855	9.462 3240	250	9.481 3932	273	0.518 6068	9.980 9308	23	145	
856	9.462 3491	251	9.481 4205	273	0.518 5795	9.980 9285	23	144	
		250		274			23		
857	9.462 3741		9.481 4479		0.518 5521	9.980 9262		143	
858	9.462 3991	250	9.481 4752	273	0.518 5248	9.980 9239	23	142	
859	9.462 4241	250	9.481 5025	273	0.518 4975	9.980 9216	23	141	
		250		273			23		
.860	9.462 4491		9.481 5298		0.518 4702	9.980 9193		**.140**	
		250		273			23		
861	9.462 4741		9.481 5571		0.518 4429	9.980 9170		139	
862	9.462 4991	250	9.481 5844	273	0.518 4156	9.980 9147	23	138	
863	9.462 5241	250	9.481 6117	273	0.518 3883	9.980 9124	23	137	
		251		273			23		
864	9.462 5492		9.481 6390		0.518 3610	9.980 9101		136	
865	9.462 5742	250	9.481 6663	273	0.518 3337	9.980 9078	23	135	
866	9.462 5992	250	9.481 6936	273	0.518 3064	9.980 9055	23	134	
		250		273			22		
867	9.462 6242		9.481 7209		0.518 2791	9.980 9033		133	
868	9.462 6492	250	9.481 7482	273	0.518 2518	9.980 9010	23	132	
869	9.462 6742	250	9.481 7755	273	0.518 2245	9.980 8987	23	131	
		250		273			23		
.870	9.462 6992		9.481 8028		0.518 1972	9.980 8964		**.130**	
		249		273			23		
871	9.462 7241		9.481 8301		0.518 1699	9.980 8941		129	
872	9.462 7491	250	9.481 8574	273	0.518 1426	9.980 8918	23	128	
873	9.462 7741	250	9.481 8847	273	0.518 1153	9.980 8895	23	127	
		250		273			23		
874	9.462 7991		9.481 9120		0.518 0880	9.980 8872		126	
875	9.462 8241	250	9.481 9393	273	0.518 0607	9.980 8849	23	125	
876	9.462 8491	250	9.481 9665	272	0.518 0335	9.980 8826	23	124	
		250		273			23		
877	9.462 8741		9.481 9938		0.518 0062	9.980 8803		123	
878	9.462 8991	250	9.482 0211	273	0.517 9789	9.980 8780	23	122	
879	9.462 9240	249	9.482 0484	273	0.517 9516	9.980 8757	23	121	
		250		273			23		
.880	9.462 9490		9.482 0757		0.517 9243	9.980 8734		**.120**	
		250		272			23		
881	9.462 9740		9.482 1029		0.517 8971	9.980 8711		119	
882	9.462 9990	250	9.482 1302	273	0.517 8698	9.980 8688	23	118	
883	9.463 0240	250	9.482 1575	273	0.517 8425	9.980 8665	23	117	
		249		273			23		
884	9.463 0489		9.482 1848		0.517 8152	9.980 8642		116	
885	9.463 0739	250	9.482 2120	272	0.517 7880	9.980 8619	23	115	
886	9.463 0989	250	9.482 2393	273	0.517 7607	9.980 8596	23	114	
		249		273			23		
887	9.463 1238		9.482 2666		0.517 7334	9.980 8573		113	
888	9.463 1488	250	9.482 2939	273	0.517 7061	9.980 8550	23	112	
889	9.463 1738	250	9.482 3211	272	0.517 6789	9.980 8527	23	111	
		249		273			23		
.890	9.463 1987		9.482 3484		0.517 6516	9.980 8504		**.110**	
		250		273			23		
891	9.463 2237		9.482 3757		0.517 6243	9.980 8481		109	
892	9.463 2487	250	9.482 4029	272	0.517 5971	9.980 8458	23	108	
893	9.463 2736	249	9.482 4302	273	0.517 5698	9.980 8434	24	107	
		250		272			23		
894	9.463 2986		9.482 4574		0.517 5426	9.980 8411		106	
895	9.463 3235	249	9.482 4847	273	0.517 5153	9.980 8388	23	105	
896	9.463 3485	250	9.482 5120	273	0.517 4880	9.980 8365	23	104	
		250		272			23		
897	9.463 3735		9.482 5392		0.517 4608	9.980 8342		103	
898	9.463 3984	249	9.482 5665	273	0.517 4335	9.980 8319	23	102	
899	9.463 4234	250	9.482 5937	272	0.517 4063	9.980 8296	23	101	
		249		273			23		
.900	9.463 4483		9.482 6210		0.517 3790	9.980 8273		**.100**	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	274	273
1	27.4	27.3
2	54.8	54.6
3	82.2	81.9
4	109.6	109.2
5	137.0	136.5
6	164.4	163.8
7	191.8	191.1
8	219.2	218.4
9	246.6	245.7

	272
1	27.2
2	54.4
3	81.6
4	108.8
5	136.0
6	163.2
7	190.4
8	217.6
9	244.8

	251	250
1	25.1	25.0
2	50.2	50.0
3	75.3	75.0
4	100.4	100.0
5	125.5	125.0
6	150.6	150.0
7	175.7	175.0
8	200.8	200.0
9	225.9	225.0

	249
1	24.9
2	49.8
3	74.7
4	99.6
5	124.5
6	149.4
7	174.3
8	199.2
9	224.1

	24	23	22
1	2.4	2.3	2.2
2	4.8	4.6	4.4
3	7.2	6.9	6.6
4	9.6	9.2	8.8
5	12.0	11.5	11.0
6	14.4	13.8	13.2
7	16.8	16.1	15.4
8	19.2	18.4	17.6
9	21.6	20.7	19.8

$73^\circ.150 - 73^\circ.100$

16°.900 — 16°.950

16°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.463 4483		9.482 6210		0.517 3790	9.980 8273		.100	
		250		272			23		
901	9.463 4733		9.482 6482		0.517 3518	9.980 8250		099	
902	9.463 4982	249	9.482 6755	273	0.517 3245	9.980 8227	23	098	
903	9.463 5231	249	9.482 7027	272	0.517 2973	9.980 8204	23	097	
		250		273			23		
904	9.463 5481		9.482 7300		0.517 2700	9.980 8181		096	
905	9.463 5730	249	9.482 7572	272	0.517 2428	9.980 8158	23	095	
906	9.463 5980	250	9.482 7845	273	0.517 2155	9.980 8135	23	094	
		249		272			23		
907	9.463 6229		9.482 8117		0.517 1883	9.980 8112		093	
908	9.463 6478	249	9.482 8389	272	0.517 1611	9.980 8089	23	092	
909	9.463 6728	250	9.482 8662	273	0.517 1338	9.980 8066	23	091	
		249		272			23		
.910	9.463 6977		9.482 8934		0.517 1066	9.980 8043		.090	
		249		273			23		
911	9.463 7226		9.482 9207		0.517 0793	9.980 8020		089	
912	9.463 7476	250	9.482 9479	272	0.517 0521	9.980 7997	23	088	
913	9.463 7725	249	9.482 9751	272	0.517 0249	9.980 7974	23	087	
		249		273			23		
914	9.463 7974		9.483 0024		0.516 9976	9.980 7951		086	
915	9.463 8224	250	9.483 0296	272	0.516 9704	9.980 7928	23	085	
916	9.463 8473	249	9.483 0568	272	0.516 9432	9.980 7905	23	084	
		249		272			23		
917	9.463 8722		9.483 0840		0.516 9160	9.980 7882		083	
918	9.463 8971	249	9.483 1113	273	0.516 8887	9.980 7859	23	082	
919	9.463 9220	249	9.483 1385	272	0.516 8615	9.980 7836	23	081	
		250		272			24		
.920	9.463 9470		9.483 1657		0.516 8343	9.980 7812		.080	
		249		272			23		
921	9.463 9719		9.483 1929		0.516 8071	9.980 7789		079	
922	9.463 9968	249	9.483 2202	273	0.516 7798	9.980 7766	23	078	
923	9.464 0217	249	9.483 2474	272	0.516 7526	9.980 7743	23	077	
		249		272			23		
924	9.464 0466		9.483 2746		0.516 7254	9.980 7720		076	
925	9.464 0715	249	9.483 3018	272	0.516 6982	9.980 7697	23	075	
926	9.464 0964	249	9.483 3290	272	0.516 6710	9.980 7674	23	074	
		249		272			23		
927	9.464 1213		9.483 3562		0.516 6438	9.980 7651		073	
928	9.464 1462	249	9.483 3835	273	0.516 6165	9.980 7628	23	072	
929	9.464 1712	250	9.483 4107	272	0.516 5893	9.980 7605	23	071	
		249		272			23		
.930	9.464 1961		9.483 4379		0.516 5621	9.980 7582		.070	
		249		272			23		
931	9.464 2210		9.483 4651		0.516 5349	9.980 7559		069	
932	9.464 2459	249	9.483 4923	272	0.516 5077	9.980 7536	23	068	
933	9.464 2708	249	9.483 5195	272	0.516 4805	9.980 7513	23	067	
		248		272			24		
934	9.464 2956		9.483 5467		0.516 4533	9.980 7489		066	
935	9.464 3205	249	9.483 5739	272	0.516 4261	9.980 7466	23	065	
936	9.464 3454	249	9.483 6011	272	0.516 3989	9.980 7443	23	064	
		249		272			23		
937	9.464 3703		9.483 6283		0.516 3717	9.980 7420		063	
938	9.464 3952	249	9.483 6555	272	0.516 3445	9.980 7397	23	062	
939	9.464 4201	249	9.483 6827	272	0.516 3173	9.980 7374	23	061	
		249		272			23		
.940	9.464 4450		9.483 7099		0.516 2901	9.980 7351		.060	
		249		272			23		
941	9.464 4699		9.483 7371		0.516 2629	9.980 7328		059	
942	9.464 4948	249	9.483 7643	272	0.516 2357	9.980 7305	23	058	
943	9.464 5196	248	9.483 7915	272	0.516 2085	9.980 7282	23	057	
		249		272			23		
944	9.464 5445		9.483 8187		0.516 1813	9.980 7259		056	
945	9.464 5694	249	9.483 8458	271	0.516 1542	9.980 7236	23	055	
946	9.464 5943	249	9.483 8730	272	0.516 1270	9.980 7212	24	054	
		249		272			23		
947	9.464 6192		9.483 9002		0.516 0998	9.980 7189		053	
948	9.464 6440	248	9.483 9274	272	0.516 0726	9.980 7166	23	052	
949	9.464 6689	249	9.483 9546	272	0.516 0454	9.980 7143	23	051	
		249		272			23		
.950	9.464 6938		9.483 9818		0.516 0182	9.980 7120		.050	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	273	272
1	27.3	27.2
2	54.6	54.4
3	81.9	81.6
4	109.2	108.8
5	136.5	136.0
6	163.8	163.2
7	191.1	190.4
8	218.4	217.6
9	245.7	244.8

	271
1	27.1
2	54.2
3	81.3
4	108.4
5	135.5
6	162.6
7	189.7
8	216.8
9	243.9

	250	249
1	25.0	24.9
2	50.0	49.8
3	75.0	74.7
4	100.0	99.6
5	125.0	124.5
6	150.0	149.4
7	175.0	174.3
8	200.0	199.2
9	225.0	224.1

	248
1	24.8
2	49.6
3	74.4
4	99.2
5	124.0
6	148.8
7	173.6
8	198.4
9	223.2

	24	23
1	2.4	2.3
2	4.8	4.6
3	7.2	6.9
4	9.6	9.2
5	12.0	11.5
6	14.4	13.8
7	16.8	16.1
8	19.2	18.4
9	21.6	20.7

73°.100 — 73°.050

16°.950 — 17°.000

16°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.464 6938		9.483 9818		0.516 0182	9.980 7120		.050	
		248		271			23		
951	9.464 7186		9.484 0089		0.515 9911	9.980 7097		049	
952	9.464 7435	249	9.484 0361	272	0.515 9639	9.980 7074	23	048	
953	9.464 7684	249	9.484 0633	272	0.515 9367	9.980 7051	23	047	
		248		272			23		
954	9.464 7932		9.484 0905		0.515 9095	9.980 7028		046	
955	9.464 8181	249	9.484 1176	271	0.515 8824	9.980 7005	23	045	
956	9.464 8430	249	9.484 1448	272	0.515 8552	9.980 6981	24	044	
		248		272			23		
957	9.464 8678		9.484 1720		0.515 8280	9.980 6958		043	
958	9.464 8927	249	9.484 1992	272	0.515 8008	9.980 6935	23	042	
959	9.464 9175	248	9.484 2263	271	0.515 7737	9.980 6912	23	041	
		249		272			23		
.960	9.464 9424		9.484 2535		0.515 7465	9.980 6889		.040	
		248		272			23		
961	9.464 9672		9.484 2807		0.515 7193	9.980 6866		039	
962	9.464 9921	249	9.484 3078	271	0.515 6922	9.980 6843	23	038	
963	9.465 0170	249	9.484 3350	272	0.515 6650	9.980 6820	23	037	
		248		272			24		
964	9.465 0418		9.484 3622		0.515 6378	9.980 6796		036	
965	9.465 0666	248	9.484 3893	271	0.515 6107	9.980 6773	23	035	
966	9.465 0915	249	9.484 4165	272	0.515 5835	9.980 6750	23	034	
		248		271			23		
967	9.465 1163		9.484 4436		0.515 5564	9.980 6727		033	
968	9.465 1412	249	9.484 4708	272	0.515 5292	9.980 6704	23	032	
969	9.465 1660	248	9.484 4979	271	0.515 5021	9.980 6681	23	031	
		249		272			23		
.970	9.465 1909		9.484 5251		0.515 4749	9.980 6658		.030	
		248		271			23		
971	9.465 2157		9.484 5522		0.515 4478	9.980 6635		029	
972	9.465 2405	248	9.484 5794	272	0.515 4206	9.980 6611	24	028	
973	9.465 2654	249	9.484 6065	271	0.515 3935	9.980 6588	23	027	
		248		272			23		
974	9.465 2902		9.484 6337		0.515 3663	9.980 6565		026	
975	9.465 3150	248	9.484 6608	271	0.515 3392	9.980 6542	23	025	
976	9.465 3399	249	9.484 6880	272	0.515 3120	9.980 6519	23	024	
		248		271			23		
977	9.465 3647		9.484 7151		0.515 2849	9.980 6496		023	
978	9.465 3895	248	9.484 7423	272	0.515 2577	9.980 6473	23	022	
979	9.465 4144	249	9.484 7694	271	0.515 2306	9.980 6449	24	021	
		248		271			23		
.980	9.465 4392		9.484 7965		0.515 2035	9.980 6426		.020	
		248		272			23		
981	9.465 4640		9.484 8237		0.515 1763	9.980 6403		019	
982	9.465 4888	248	9.484 8508	271	0.515 1492	9.980 6380	23	018	
983	9.465 5136	248	9.484 8780	272	0.515 1220	9.980 6357	23	017	
		249		271			23		
984	9.465 5385		9.484 9051		0.515 0949	9.980 6334		016	
985	9.465 5633	248	9.484 9322	271	0.515 0678	9.980 6311	23	015	
986	9.465 5881	248	9.484 9593	271	0.515 0407	9.980 6287	24	014	
		248		272			23		
987	9.465 6129		9.484 9865		0.515 0135	9.980 6264		013	
988	9.465 6377	248	9.485 0136	271	0.514 9864	9.980 6241	23	012	
989	9.465 6625	248	9.485 0407	271	0.514 9593	9.980 6218	23	011	
		248		272			23		
.990	9.465 6873		9.485 0679		0.514 9321	9.980 6195		.010	
		248		271			23		
991	9.465 7121		9.485 0950		0.514 9050	9.980 6172		009	
992	9.465 7369	248	9.485 1221	271	0.514 8779	9.980 6149	23	008	
993	9.465 7618	249	9.485 1492	271	0.514 8508	9.980 6125	24	007	
		248		271			23		
994	9.465 7866		9.485 1763		0.514 8237	9.980 6102		006	
995	9.465 8114	248	9.485 2035	272	0.514 7965	9.980 6079	23	005	
996	9.465 8362	248	9.485 2306	271	0.514 7694	9.980 6056	23	004	
		248		271			23		
997	9.465 8610		9.485 2577		0.514 7423	9.980 6033		003	
998	9.465 8858	248	9.485 2848	271	0.514 7152	9.980 6010	23	002	
999	9.465 9105	247	9.485 3119	271	0.514 6881	9.980 5986	24	001	
		248		271			23		
*.000	9.465 9353		9.485 3390		0.514 6610	9.980 5963		.000	
	cos	d	cotg	d	tang	sin	d	73°	P.P.

	272	271
1	27.2	27.1
2	54.4	54.2
3	81.6	81.3
4	108.8	108.4
5	136.0	135.5
6	163.2	162.6
7	190.4	189.7
8	217.6	216.8
9	244.8	243.9

	249	248
1	24.9	24.8
2	49.8	49.6
3	74.7	74.4
4	99.6	99.2
5	124.5	124.0
6	149.4	148.8
7	174.3	173.6
8	199.2	198.4
9	224.1	223.2

	247
1	24.7
2	49.4
3	74.1
4	98.8
5	123.5
6	148.2
7	172.9
8	197.6
9	222.3

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

73°.050 — 73°.000

17°.000 — 17°.050

17°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.465 9353		9.485 3390		0.514 6610	9.980 5963		*000	
		248		271			23		
001	9.465 9601		9.485 3661		0.514 6339	9.980 5940		999	
002	9.465 9849	248	9.485 3932	271	0.514 6068	9.980 5917	23	998	
003	9.466 0097	248	9.485 4203	271	0.514 5797	9.980 5894	23	997	
		248		272			24		
004	9.466 0345		9.485 4475		0.514 5525	9.980 5870		996	
005	9.466 0593	248	9.485 4746	271	0.514 5254	9.980 5847	23	995	
006	9.466 0841	248	9.485 5017	271	0.514 4983	9.980 5824	23	994	
		248		271			23		
007	9.466 1089		9.485 5288		0.514 4712	9.980 5801		993	
008	9.466 1336	247	9.485 5559	271	0.514 4441	9.980 5778	23	992	
009	9.466 1584	248	9.485 5830	271	0.514 4170	9.980 5755	23	991	
		248		271			24		
.010	9.466 1832		9.485 6101		0.514 3899	9.980 5731		.990	
		248		270			23		
011	9.466 2080		9.485 6371		0.514 3629	9.980 5708		989	
012	9.466 2327	247	9.485 6642	271	0.514 3358	9.980 5685	23	988	
013	9.466 2575	248	9.485 6913	271	0.514 3087	9.980 5662	23	987	
		248		271			23		
014	9.466 2823		9.485 7184		0.514 2816	9.980 5639		986	
015	9.466 3071	248	9.485 7455	271	0.514 2545	9.980 5615	24	985	
016	9.466 3318	247	9.485 7726	271	0.514 2274	9.980 5592	23	984	
		248		271			23		
017	9.466 3566		9.485 7997		0.514 2003	9.980 5569		983	
018	9.466 3814	248	9.485 8268	271	0.514 1732	9.980 5546	23	982	
019	9.466 4061	247	9.485 8539	271	0.514 1461	9.980 5523	23	981	
		248		270			24		
.020	9.466 4309		9.485 8809		0.514 1191	9.980 5499		.980	
		247		271			23		
021	9.466 4556		9.485 9080		0.514 0920	9.980 5476		979	
022	9.466 4804	248	9.485 9351	271	0.514 0649	9.980 5453	23	978	
023	9.466 5052	248	9.485 9622	271	0.514 0378	9.980 5430	23	977	
		247		271			23		
024	9.466 5299		9.485 9893		0.514 0107	9.980 5407		976	
025	9.466 5547	248	9.486 0163	270	0.513 9837	9.980 5383	24	975	
026	9.466 5794	247	9.486 0434	271	0.513 9566	9.980 5360	23	974	
		248		271			23		
027	9.466 6042		9.486 0705		0.513 9295	9.980 5337		973	
028	9.466 6289	247	9.486 0976	271	0.513 9024	9.980 5314	23	972	
029	9.466 6537	248	9.486 1246	270	0.513 8754	9.980 5291	23	971	
		247		271			24		
.030	9.466 6784		9.486 1517		0.513 8483	9.980 5267		.970	
		248		271			23		
031	9.466 7032		9.486 1788		0.513 8212	9.980 5244		969	
032	9.466 7279	247	9.486 2058	270	0.513 7942	9.980 5221	23	968	
033	9.466 7527	248	9.486 2329	271	0.513 7671	9.980 5198	23	967	
		247		271			24		
034	9.466 7774		9.486 2600		0.513 7400	9.980 5174		966	
035	9.466 8021	247	9.486 2870	270	0.513 7130	9.980 5151	23	965	
036	9.466 8269	248	9.486 3141	271	0.513 6859	9.980 5128	23	964	
		247		270			23		
037	9.466 8516		9.486 3411		0.513 6589	9.980 5105		963	
038	9.466 8763	247	9.486 3682	271	0.513 6318	9.980 5082	23	962	
039	9.466 9011	248	9.486 3953	271	0.513 6047	9.980 5058	24	961	
		247		270			23		
.040	9.466 9258		9.486 4223		0.513 5777	9.980 5035		.960	
		247		271			23		
041	9.466 9505		9.486 4494		0.513 5506	9.980 5012		959	
042	9.466 9753	248	9.486 4764	270	0.513 5236	9.980 4989	23	958	
043	9.467 0000	247	9.486 5035	271	0.513 4965	9.980 4965	24	957	
		247		270			23		
044	9.467 0247		9.486 5305		0.513 4695	9.980 4942		956	
045	9.467 0494	247	9.486 5576	271	0.513 4424	9.980 4919	23	955	
046	9.467 0742	248	9.486 5846	270	0.513 4154	9.980 4896	23	954	
		247		270			24		
047	9.467 0989		9.486 6116		0.513 3884	9.980 4872		953	
048	9.467 1236	247	9.486 6387	271	0.513 3613	9.980 4849	23	952	
049	9.467 1483	247	9.486 6657	270	0.513 3343	9.980 4826	23	951	
		247		271			23		
.050	9.467 1730		9.486 6928		0.513 3072	9.980 4803		.950	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	272	271
1	27.2	27.1
2	54.4	54.2
3	81.6	81.3
4	108.8	108.4
5	136.0	135.5
6	163.2	162.6
7	190.4	189.7
8	217.6	216.8
9	244.8	243.9

	270
1	27.0
2	54.0
3	81.0
4	108.0
5	135.0
6	162.0
7	189.0
8	216.0
9	243.0

	248	247
1	24.8	24.7
2	49.6	49.4
3	74.4	74.1
4	99.2	98.8
5	124.0	123.5
6	148.8	148.2
7	173.6	172.9
8	198.4	197.6
9	223.2	222.3

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

73°.000 — 72°.950

17°.050 — 17°.100

17°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.467 1730		9.486 6928		0.513 3072	9.980 4803		.950	
		248		270			24		
051	9.467 1978		9.486 7198		0.513 2802	9.980 4779		949	
052	9.467 2225	247	9.486 7469	271	0.513 2531	9.980 4756	23	948	
053	9.467 2472	247	9.486 7739	270	0.513 2261	9.980 4733	23	947	
		247		270			23		
054	9.467 2719		9.486 8009		0.513 1991	9.980 4710		946	
055	9.467 2966	247	9.486 8280	271	0.513 1720	9.980 4686	24	945	
056	9.467 3213	247	9.486 8550	270	0.513 1450	9.980 4663	23	944	
		247		270			23		
057	9.467 3460		9.486 8820		0.513 1180	9.980 4640		943	
058	9.467 3707	247	9.486 9091	271	0.513 0909	9.980 4617	23	942	
059	9.467 3954	247	9.486 9361	270	0.513 0639	9.980 4593	24	941	
		247		270			23		
.060	9.467 4201		9.486 9631		0.513 0369	9.980 4570		.940	
		247		270			23		
061	9.467 4448		9.486 9901		0.513 0099	9.980 4547		939	
062	9.467 4695	247	9.487 0172	271	0.512 9828	9.980 4524	23	938	
063	9.467 4942	247	9.487 0442	270	0.512 9558	9.980 4500	24	937	
		247		270			23		
064	9.467 5189		9.487 0712		0.512 9288	9.980 4477		936	
065	9.467 5436	247	9.487 0982	270	0.512 9018	9.980 4454	23	935	
066	9.467 5683	247	9.487 1252	270	0.512 8748	9.980 4431	23	934	
		247		271			24		
067	9.467 5930		9.487 1523		0.512 8477	9.980 4407		933	
068	9.467 6177	247	9.487 1793	270	0.512 8207	9.980 4384	23	932	
069	9.467 6424	247	9.487 2063	270	0.512 7937	9.980 4361	23	931	
		246		270			24		
.070	9.467 6670		9.487 2333		0.512 7667	9.980 4337		.930	
		247		270			23		
071	9.467 6917		9.487 2603		0.512 7397	9.980 4314		929	
072	9.467 7164	247	9.487 2873	270	0.512 7127	9.980 4291	23	928	
073	9.467 7411	247	9.487 3143	270	0.512 6857	9.980 4268	23	927	
		247		270			24		
074	9.467 7658		9.487 3413		0.512 6587	9.980 4244		926	
075	9.467 7904	246	9.487 3683	270	0.512 6317	9.980 4221	23	925	
076	9.467 8151	247	9.487 3953	270	0.512 6047	9.980 4198	23	924	
		247		271			24		
077	9.467 8398		9.487 4224		0.512 5776	9.980 4174		923	
078	9.467 8645	247	9.487 4494	270	0.512 5506	9.980 4151	23	922	
079	9.467 8891	246	9.487 4764	270	0.512 5236	9.980 4128	23	921	
		247		270			23		
.080	9.467 9138		9.487 5034		0.512 4966	9.980 4105		.920	
		247		270			24		
081	9.467 9385		9.487 5304		0.512 4696	9.980 4081		919	
082	9.467 9631	246	9.487 5573	269	0.512 4427	9.980 4058	23	918	
083	9.467 9878	247	9.487 5843	270	0.512 4157	9.980 4035	23	917	
		247		270			24		
084	9.468 0125		9.487 6113		0.512 3887	9.980 4011		916	
085	9.468 0371	246	9.487 6383	270	0.512 3617	9.980 3988	23	915	
086	9.468 0618	247	9.487 6653	270	0.512 3347	9.980 3965	23	914	
		247		270			23		
087	9.468 0865		9.487 6923		0.512 3077	9.980 3942		913	
088	9.468 1111	246	9.487 7193	270	0.512 2807	9.980 3918	24	912	
089	9.468 1358	247	9.487 7463	270	0.512 2537	9.980 3895	23	911	
		246		270			23		
.090	9.468 1604		9.487 7733		0.512 2267	9.980 3872		.910	
		247		270			24		
091	9.468 1851		9.487 8003		0.512 1997	9.980 3848		909	
092	9.468 2097	246	9.487 8272	269	0.512 1728	9.980 3825	23	908	
093	9.468 2344	247	9.487 8542	270	0.512 1458	9.980 3802	23	907	
		246		270			24		
094	9.468 2590		9.487 8812		0.512 1188	9.980 3778		906	
095	9.468 2837	247	9.487 9082	270	0.512 0918	9.980 3755	23	905	
096	9.468 3083	246	9.487 9351	269	0.512 0649	9.980 3732	23	904	
		247		270			24		
097	9.468 3330		9.487 9621		0.512 0379	9.980 3708		903	
098	9.468 3576	246	9.487 9891	270	0.512 0109	9.980 3685	23	902	
099	9.468 3823	247	9.488 0161	270	0.511 9839	9.980 3662	23	901	
		246		269			23		
.100	9.468 4069		9.488 0430		0.511 9570	9.980 3639		.900	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	271	270
1	27.1	27.0
2	54.2	54.0
3	81.3	81.0
4	108.4	108.0
5	135.5	135.0
6	162.6	162.0
7	189.7	189.0
8	216.8	216.0
9	243.9	243.0

	269
1	26.9
2	53.8
3	80.7
4	107.6
5	134.5
6	161.4
7	188.3
8	215.2
9	242.1

	248	247
1	24.8	24.7
2	49.6	49.4
3	74.4	74.1
4	99.2	98.8
5	124.0	123.5
6	148.8	148.2
7	173.6	172.9
8	198.4	197.6
9	223.2	222.3

	246
1	24.6
2	49.2
3	73.8
4	98.4
5	123.0
6	147.6
7	172.2
8	196.8
9	221.4

	24	23
1	2.4	2.3
2	4.8	4.6
3	7.2	6.9
4	9.6	9.2
5	12.0	11.5
6	14.4	13.8
7	16.8	16.1
8	19.2	18.4
9	21.6	20.7

72°.950 — 72°.900

17°.100 — 17°.150

17°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.468 4069		9.488 0430		0.511 9570	9.980 3639		.900	
		246		270			24		
101	9.468 4315		9.488 0700		0.511 9300	9.980 3615		899	
102	9.468 4562	247	9.488 0970	270	0.511 9030	9.980 3592	23	898	
103	9.468 4808	246	9.488 1239	269	0.511 8761	9.980 3569	23	897	
		246		270			24		
104	9.468 5054		9.488 1509		0.511 8491	9.980 3545		896	
105	9.468 5301	247	9.488 1779	270	0.511 8221	9.980 3522	23	895	
106	9.468 5547	246	9.488 2048	269	0.511 7952	9.980 3499	23	894	
		246		270			24		
107	9.468 5793		9.488 2318		0.511 7682	9.980 3475		893	
108	9.468 6040	247	9.488 2588	270	0.511 7412	9.980 3452	23	892	
109	9.468 6286	246	9.488 2857	269	0.511 7143	9.980 3429	23	891	
		246		270			24		
.110	9.468 6532		9.488 3127		0.511 6873	9.980 3405		.890	
		246		269			23		
111	9.468 6778		9.488 3396		0.511 6604	9.980 3382		889	
112	9.468 7024	246	9.488 3666	270	0.511 6334	9.980 3359	23	888	
113	9.468 7271	247	9.488 3935	269	0.511 6065	9.980 3335	24	887	
		246		270			23		
114	9.468 7517		9.488 4205		0.511 5795	9.980 3312		886	
115	9.468 7763	246	9.488 4474	269	0.511 5526	9.980 3289	23	885	
116	9.468 8009	246	9.488 4744	270	0.511 5256	9.980 3265	24	884	
		246		269			23		
117	9.468 8255		9.488 5013		0.511 4987	9.980 3242		883	
118	9.468 8501	246	9.488 5283	270	0.511 4717	9.980 3219	23	882	
119	9.468 8748	247	9.488 5552	269	0.511 4448	9.980 3195	24	881	
		246		270			23		
.120	9.468 8994		9.488 5822		0.511 4178	9.980 3172		.880	
		246		269			23		
121	9.468 9240		9.488 6091		0.511 3909	9.980 3149		879	
122	9.468 9486	246	9.488 6361	270	0.511 3639	9.980 3125	24	878	
123	9.468 9732	246	9.488 6630	269	0.511 3370	9.980 3102	23	877	
		246		269			24		
124	9.468 9978		9.488 6899		0.511 3101	9.980 3078		876	
125	9.469 0224	246	9.488 7169	270	0.511 2831	9.980 3055	23	875	
126	9.469 0470	246	9.488 7438	269	0.511 2562	9.980 3032	23	874	
		246		269			24		
127	9.469 0716		9.488 7707		0.511 2293	9.980 3008		873	
128	9.469 0962	246	9.488 7977	270	0.511 2023	9.980 2985	23	872	
129	9.469 1208	246	9.488 8246	269	0.511 1754	9.980 2962	23	871	
		246		269			24		
.130	9.469 1454		9.488 8515		0.511 1485	9.980 2938		.870	
		246		270			23		
131	9.469 1700		9.488 8785		0.511 1215	9.980 2915		869	
132	9.469 1946	246	9.488 9054	269	0.511 0946	9.980 2892	23	868	
133	9.469 2191	245	9.488 9323	269	0.511 0677	9.980 2868	24	867	
		246		269			23		
134	9.469 2437		9.488 9592		0.511 0408	9.980 2845		866	
135	9.469 2683	246	9.488 9862	270	0.511 0138	9.980 2821	24	865	
136	9.469 2929	246	9.489 0131	269	0.510 9869	9.980 2798	23	864	
		246		269			23		
137	9.469 3175		9.489 0400		0.510 9600	9.980 2775		863	
138	9.469 3421	246	9.489 0669	269	0.510 9331	9.980 2751	24	862	
139	9.469 3666	245	9.489 0938	269	0.510 9062	9.980 2728	23	861	
		246		270			23		
.140	9.469 3912		9.489 1208		0.510 8792	9.980 2705		.860	
		246		269			24		
141	9.469 4158		9.489 1477		0.510 8523	9.980 2681		859	
142	9.469 4404	246	9.489 1746	269	0.510 8254	9.980 2658	23	858	
143	9.469 4649	245	9.489 2015	269	0.510 7985	9.980 2634	24	857	
		246		269			23		
144	9.469 4895		9.489 2284		0.510 7716	9.980 2611		856	
145	9.469 5141	246	9.489 2553	269	0.510 7447	9.980 2588	23	855	
146	9.469 5387	246	9.489 2822	269	0.510 7178	9.980 2564	24	854	
		245		269			23		
147	9.469 5632		9.489 3091		0.510 6909	9.980 2541		853	
148	9.469 5878	246	9.489 3360	269	0.510 6640	9.980 2518	23	852	
149	9.469 6124	246	9.489 3629	269	0.510 6371	9.980 2494	24	851	
		245		269			23		
.150	9.469 6369		9.489 3898		0.510 6102	9.980 2471		.850	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	270	269
1	27.0	26.9
2	54.0	53.8
3	81.0	80.7
4	108.0	107.6
5	135.0	134.5
6	162.0	161.4
7	189.0	188.3
8	216.0	215.2
9	243.0	242.1

	247	246
1	24.7	24.6
2	49.4	49.2
3	74.1	73.8
4	98.8	98.4
5	123.5	123.0
6	148.2	147.6
7	172.9	172.2
8	197.6	196.8
9	222.3	221.4

	245
1	24.5
2	49.0
3	73.5
4	98.0
5	122.5
6	147.0
7	171.5
8	196.0
9	220.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

72°.900 — 72°.850

17°.150 — 17°.200

17°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.469 6369		9.489 3898		0.510 6102	9.980 2471		.850	
		246		269			24		
151	9.469 6615		9.489 4167		0.510 5833	9.980 2447		849	
152	9.469 6860	245	9.489 4436	269	0.510 5564	9.980 2424	23	848	
153	9.469 7106	246	9.489 4705	269	0.510 5295	9.980 2401	23	847	
		246		269			24		
154	9.469 7352		9.489 4974		0.510 5026	9.980 2377		846	
155	9.469 7597	245	9.489 5243	269	0.510 4757	9.980 2354	23	845	
156	9.469 7843	246	9.489 5512	269	0.510 4488	9.980 2330	24	844	
		245		269			23		
157	9.469 8088		9.489 5781		0.510 4219	9.980 2307		843	
158	9.469 8334	246	9.489 6050	269	0.510 3950	9.980 2284	23	842	
159	9.469 8579	245	9.489 6319	269	0.510 3681	9.980 2260	24	841	
		246		269			23		
.160	9.469 8825		9.489 6588		0.510 3412	9.980 2237		.840	
		245		269			24		
161	9.469 9070		9.489 6857		0.510 3143	9.980 2213		839	
162	9.469 9316	246	9.489 7126	269	0.510 2874	9.980 2190	23	838	
163	9.469 9561	245	9.489 7394	268	0.510 2606	9.980 2167	23	837	
		245		269			24		
164	9.469 9806		9.489 7663		0.510 2337	9.980 2143		836	
165	9.470 0052	246	9.489 7932	269	0.510 2068	9.980 2120	23	835	
166	9.470 0297	245	9.489 8201	269	0.510 1799	9.980 2096	24	834	
		246		269			23		
167	9.470 0543		9.489 8470		0.510 1530	9.980 2073		833	
168	9.470 0788	245	9.489 8739	269	0.510 1261	9.980 2050	23	832	
169	9.470 1033	245	9.489 9007	268	0.510 0993	9.980 2026	24	831	
		246		269			23		
.170	9.470 1279		9.489 9276		0.510 0724	9.980 2003		.830	
		245		269			24		
171	9.470 1524		9.489 9545		0.510 0455	9.980 1979		829	
172	9.470 1769	245	9.489 9813	268	0.510 0187	9.980 1956	23	828	
173	9.470 2015	246	9.490 0082	269	0.509 9918	9.980 1932	24	827	
		245		269			23		
174	9.470 2260		9.490 0351		0.509 9649	9.980 1909		826	
175	9.470 2505	245	9.490 0620	269	0.509 9380	9.980 1886	23	825	
176	9.470 2750	245	9.490 0888	268	0.509 9112	9.980 1862	24	824	
		246		269			23		
177	9.470 2996		9.490 1157		0.509 8843	9.980 1839		823	
178	9.470 3241	245	9.490 1426	269	0.509 8574	9.980 1815	24	822	
179	9.470 3486	245	9.490 1694	268	0.509 8306	9.980 1792	23	821	
		245		269			24		
.180	9.470 3731		9.490 1963		0.509 8037	9.980 1768		.820	
		245		268			23		
181	9.470 3976		9.490 2231		0.509 7769	9.980 1745		819	
182	9.470 4221	245	9.490 2500	269	0.509 7500	9.980 1722	23	818	
183	9.470 4467	246	9.490 2768	268	0.509 7232	9.980 1698	24	817	
		245		269			23		
184	9.470 4712		9.490 3037		0.509 6963	9.980 1675		816	
185	9.470 4957	245	9.490 3306	269	0.509 6694	9.980 1651	24	815	
186	9.470 5202	245	9.490 3574	268	0.509 6426	9.980 1628	23	814	
		245		269			24		
187	9.470 5447		9.490 3843		0.509 6157	9.980 1604		813	
188	9.470 5692	245	9.490 4111	268	0.509 5889	9.980 1581	23	812	
189	9.470 5937	245	9.490 4380	269	0.509 5620	9.980 1557	24	811	
		245		268			23		
.190	9.470 6182		9.490 4648		0.509 5352	9.980 1534		.810	
		245		269			23		
191	9.470 6427		9.490 4917		0.509 5083	9.980 1511		809	
192	9.470 6672	245	9.490 5185	268	0.509 4815	9.980 1487	24	808	
193	9.470 6917	245	9.490 5453	268	0.509 4547	9.980 1464	23	807	
		245		269			24		
194	9.470 7162		9.490 5722		0.509 4278	9.980 1440		806	
195	9.470 7407	245	9.490 5990	268	0.509 4010	9.980 1417	23	805	
196	9.470 7652	245	9.490 6259	269	0.509 3741	9.980 1393	24	804	
		245		268			23		
197	9.470 7897		9.490 6527		0.509 3473	9.980 1370		803	
198	9.470 8142	245	9.490 6795	268	0.509 3205	9.980 1346	24	802	
199	9.470 8387	245	9.490 7064	269	0.509 2936	9.980 1323	23	801	
		244		268			24		
.200	9.470 8631		9.490 7332		0.509 2668	9.980 1299		.800	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	269	268
1	26.9	26.8
2	53.8	53.6
3	80.7	80.4
4	107.6	107.2
5	134.5	134.0
6	161.4	160.8
7	188.3	187.6
8	215.2	214.4
9	242.1	241.2

	246	245
1	24.6	24.5
2	49.2	49.0
3	73.8	73.5
4	98.4	98.0
5	123.0	122.5
6	147.6	147.0
7	172.2	171.5
8	196.8	196.0
9	221.4	220.5

	244
1	24.4
2	48.8
3	73.2
4	97.6
5	122.0
6	146.4
7	170.8
8	195.2
9	219.6

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

72°.850 — 72°.800

17°.200 — 17°.250

17°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.470 8631		9.490 7332		0.509 2668	9.980 1299		.800	
		245		268			23		
201	9.470 8876		9.490 7600		0.509 2400	9.980 1276		799	
202	9.470 9121	245	9.490 7869	269	0.509 2131	9.980 1252	24	798	
203	9.470 9366	245	9.490 8137	268	0.509 1863	9.980 1229	23	797	
		245		268			23		
204	9.470 9611		9.490 8405		0.509 1595	9.980 1206		796	
205	9.470 9856	245	9.490 8674	269	0.509 1326	9.980 1182	24	795	
206	9.471 0100	244	9.490 8942	268	0.509 1058	9.980 1159	23	794	
		245		268			24		
207	9.471 0345		9.490 9210		0.509 0790	9.980 1135		793	
208	9.471 0590	245	9.490 9478	268	0.509 0522	9.980 1112	23	792	
209	9.471 0835	245	9.490 9746	268	0.509 0254	9.980 1088	24	791	
		244		269			23		
.210	9.471 1079		9.491 0015		0.508 9985	9.980 1065		.790	
		245		268			24		
211	9.471 1324		9.491 0283		0.508 9717	9.980 1041		789	
212	9.471 1569	245	9.491 0551	268	0.508 9449	9.980 1018	23	788	
213	9.471 1813	244	9.491 0819	268	0.508 9181	9.980 0994	24	787	
		245		268			23		
214	9.471 2058		9.491 1087		0.508 8913	9.980 0971		786	
215	9.471 2303	245	9.491 1355	268	0.508 8645	9.980 0947	24	785	
216	9.471 2547	244	9.491 1624	269	0.508 8376	9.980 0924	23	784	
		245		268			24		
217	9.471 2792		9.491 1892		0.508 8108	9.980 0900		783	
218	9.471 3037	245	9.491 2160	268	0.508 7840	9.980 0877	23	782	
219	9.471 3281	244	9.491 2428	268	0.508 7572	9.980 0853	24	781	
		245		268			23		
.220	9.471 3526		9.491 2696		0.508 7304	9.980 0830		.780	
		244		268			24		
221	9.471 3770		9.491 2964		0.508 7036	9.980 0806		779	
222	9.471 4015	245	9.491 3232	268	0.508 6768	9.980 0783	23	778	
223	9.471 4259	244	9.491 3500	268	0.508 6500	9.980 0759	24	777	
		245		268			23		
224	9.471 4504		9.491 3768		0.508 6232	9.980 0736		776	
225	9.471 4748	244	9.491 4036	268	0.508 5964	9.980 0712	24	775	
226	9.471 4993	245	9.491 4304	268	0.508 5696	9.980 0689	23	774	
		244		268			24		
227	9.471 5237		9.491 4572		0.508 5428	9.980 0665		773	
228	9.471 5482	245	9.491 4840	268	0.508 5160	9.980 0642	23	772	
229	9.471 5726	244	9.491 5108	268	0.508 4892	9.980 0618	24	771	
		245		268			23		
.230	9.471 5971		9.491 5376		0.508 4624	9.980 0595		.770	
		244		268			24		
231	9.471 6215		9.491 5644		0.508 4356	9.980 0571		769	
232	9.471 6459	244	9.491 5912	268	0.508 4088	9.980 0548	23	768	
233	9.471 6704	245	9.491 6180	268	0.508 3820	9.980 0524	24	767	
		244		267			23		
234	9.471 6948		9.491 6447		0.508 3553	9.980 0501		766	
235	9.471 7193	245	9.491 6715	268	0.508 3285	9.980 0477	24	765	
236	9.471 7437	244	9.491 6983	268	0.508 3017	9.980 0454	23	764	
		244		268			24		
237	9.471 7681		9.491 7251		0.508 2749	9.980 0430		763	
238	9.471 7925	244	9.491 7519	268	0.508 2481	9.980 0407	23	762	
239	9.471 8170	245	9.491 7787	268	0.508 2213	9.980 0383	24	761	
		244		267			23		
.240	9.471 8414		9.491 8054		0.508 1946	9.980 0360		.760	
		244		268			24		
241	9.471 8658		9.491 8322		0.508 1678	9.980 0336		759	
242	9.471 8903	245	9.491 8590	268	0.508 1410	9.980 0313	23	758	
243	9.471 9147	244	9.491 8858	268	0.508 1142	9.980 0289	24	757	
		244		267			23		
244	9.471 9391		9.491 9125		0.508 0875	9.980 0266		756	
245	9.471 9635	244	9.491 9393	268	0.508 0607	9.980 0242	24	755	
246	9.471 9879	244	9.491 9661	268	0.508 0339	9.980 0219	23	754	
		244		267			24		
247	9.472 0123		9.491 9928		0.508 0072	9.980 0195		753	
248	9.472 0368	245	9.492 0196	268	0.507 9804	9.980 0171	24	752	
249	9.472 0612	244	9.492 0464	268	0.507 9536	9.980 0148	23	751	
		244		267			24		
.250	9.472 0856		9.492 0731		0.507 9269	9.980 0124		.750	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	269	268
1	26.9	26.8
2	53.8	53.6
3	80.7	80.4
4	107.6	107.2
5	134.5	134.0
6	161.4	160.8
7	188.3	187.6
8	215.2	214.4
9	242.1	241.2

	267
1	26.7
2	53.4
3	80.1
4	106.8
5	133.5
6	160.2
7	186.9
8	213.6
9	240.3

	245	244
1	24.5	24.4
2	49.0	48.8
3	73.5	73.2
4	98.0	97.6
5	122.5	122.0
6	147.0	146.4
7	171.5	170.8
8	196.0	195.2
9	220.5	219.6

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

72°.800 — 72°.750

17°.250 — 17°.300

17°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.472 0856		9.492 0731		0.507 9269	9.980 0124		.750	
		244		268			23		
251	9.472 1100		9.492 0999		0.507 9001	9.980 0101		749	
252	9.472 1344	244	9.492 1267	268	0.507 8733	9.980 0077	24	748	
253	9.472 1588	244	9.492 1534	267	0.507 8466	9.980 0054	23	747	
		244		268			24		
254	9.472 1832		9.492 1802		0.507 8198	9.980 0030		746	
255	9.472 2076	244	9.492 2070	268	0.507 7930	9.980 0007	23	745	
256	9.472 2320	244	9.492 2337	267	0.507 7663	9.979 9983	24	744	
		244		268			23		
257	9.472 2564		9.492 2605		0.507 7395	9.979 9960		743	
258	9.472 2808	244	9.492 2872	267	0.507 7128	9.979 9936	24	742	
259	9.472 3052	244	9.492 3140	268	0.507 6860	9.979 9913	23	741	
		244		267			24		
.260	9.472 3296		9.492 3407		0.507 6593	9.979 9889		.740	
		244		268			24		
261	9.472 3540		9.492 3675		0.507 6325	9.979 9865		739	
262	9.472 3784	244	9.492 3942	267	0.507 6058	9.979 9842	23	738	
263	9.472 4028	244	9.492 4210	268	0.507 5790	9.979 9818	24	737	
		244		267			23		
264	9.472 4272		9.492 4477		0.507 5523	9.979 9795		736	
265	9.472 4516	244	9.492 4745	268	0.507 5255	9.979 9771	24	735	
266	9.472 4760	244	9.492 5012	267	0.507 4988	9.979 9748	23	734	
		244		268			24		
267	9.472 5004		9.492 5280		0.507 4720	9.979 9724		733	
268	9.472 5247	243	9.492 5547	267	0.507 4453	9.979 9701	23	732	
269	9.472 5491	244	9.492 5814	267	0.507 4186	9.979 9677	24	731	
		244		268			24		
.270	9.472 5735		9.492 6082		0.507 3918	9.979 9653		.730	
		244		267			23		
271	9.472 5979		9.492 6349		0.507 3651	9.979 9630		729	
272	9.472 6223	244	9.492 6616	267	0.507 3384	9.979 9606	24	728	
273	9.472 6466	243	9.492 6884	268	0.507 3116	9.979 9583	23	727	
		244		267			24		
274	9.472 6710		9.492 7151		0.507 2849	9.979 9559		726	
275	9.472 6954	244	9.492 7418	267	0.507 2582	9.979 9536	23	725	
276	9.472 7198	244	9.492 7686	268	0.507 2314	9.979 9512	24	724	
		243		267			24		
277	9.472 7441		9.492 7953		0.507 2047	9.979 9488		723	
278	9.472 7685	244	9.492 8220	267	0.507 1780	9.979 9465	23	722	
279	9.472 7929	244	9.492 8488	268	0.507 1512	9.979 9441	24	721	
		243		267			23		
.280	9.472 8172		9.492 8755		0.507 1245	9.979 9418		.720	
		244		267			24		
281	9.472 8416		9.492 9022		0.507 0978	9.979 9394		719	
282	9.472 8660	244	9.492 9289	267	0.507 0711	9.979 9371	23	718	
283	9.472 8903	243	9.492 9556	267	0.507 0444	9.979 9347	24	717	
		244		268			24		
284	9.472 9147		9.492 9824		0.507 0176	9.979 9323		716	
285	9.472 9391	244	9.493 0091	267	0.506 9909	9.979 9300	23	715	
286	9.472 9634	243	9.493 0358	267	0.506 9642	9.979 9276	24	714	
		244		267			23		
287	9.472 9878		9.493 0625		0.506 9375	9.979 9253		713	
288	9.473 0121	243	9.493 0892	267	0.506 9108	9.979 9229	24	712	
289	9.473 0365	244	9.493 1159	267	0.506 8841	9.979 9205	24	711	
		243		268			23		
.290	9.473 0608		9.493 1427		0.506 8573	9.979 9182		.710	
		244		267			24		
291	9.473 0852		9.493 1694		0.506 8306	9.979 9158		709	
292	9.473 1095	243	9.493 1961	267	0.506 8039	9.979 9135	23	708	
293	9.473 1339	244	9.493 2228	267	0.506 7772	9.979 9111	24	707	
		243		267			24		
294	9.473 1582		9.493 2495		0.506 7505	9.979 9087		706	
295	9.473 1826	244	9.493 2762	267	0.506 7238	9.979 9064	23	705	
296	9.473 2069	243	9.493 3029	267	0.506 6971	9.979 9040	24	704	
		244		267			23		
297	9.473 2313		9.493 3296		0.506 6704	9.979 9017		703	
298	9.473 2556	243	9.493 3563	267	0.506 6437	9.979 8993	24	702	
299	9.473 2799	243	9.493 3830	267	0.506 6170	9.979 8969	24	701	
		244		267			23		
.300	9.473 3043		9.493 4097		0.506 5903	9.979 8946		.700	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	268	267
1	26.8	26.7
2	53.6	53.4
3	80.4	80.1
4	107.2	106.8
5	134.0	133.5
6	160.8	160.2
7	187.6	186.9
8	214.4	213.6
9	241.2	240.3

	244
1	24.4
2	48.8
3	73.2
4	97.6
5	122.0
6	146.4
7	170.8
8	195.2
9	219.6

	243
1	24.3
2	48.6
3	72.9
4	97.2
5	121.5
6	145.8
7	170.1
8	194.4
9	218.7

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

72°.750 — 72°.700

17°.300 — 17°.350

17°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.473 3043		9.493 4097		0.506 5903	9.979 8946		.700	
		243		267			24		
301	9.473 3286		9.493 4364		0.506 5636	9.979 8922		699	
302	9.473 3529	243	9.493 4631	267	0.506 5369	9.979 8899	23	698	
303	9.473 3773	244	9.493 4898	267	0.506 5102	9.979 8875	24	697	
		243		267			24		
304	9.473 4016		9.493 5165		0.506 4835	9.979 8851		696	
305	9.473 4259	243	9.493 5432	267	0.506 4568	9.979 8828	23	695	
306	9.473 4503	244	9.493 5698	266	0.506 4302	9.979 8804	24	694	
		243		267			24		
307	9.473 4746		9.493 5965		0.506 4035	9.979 8780		693	
308	9.473 4989	243	9.493 6232	267	0.506 3768	9.979 8757	23	692	
309	9.473 5232	243	9.493 6499	267	0.506 3501	9.979 8733	24	691	
		244		267			23		
.310	9.473 5476		9.493 6766		0.506 3234	9.979 8710		.690	
		243		267			24		
311	9.473 5719		9.493 7033		0.506 2967	9.979 8686		689	
312	9.473 5962	243	9.493 7300	267	0.506 2700	9.979 8662	24	688	
313	9.473 6205	243	9.493 7566	266	0.506 2434	9.979 8639	23	687	
		243		267			24		
314	9.473 6448		9.493 7833		0.506 2167	9.979 8615		686	
315	9.473 6691	243	9.493 8100	267	0.506 1900	9.979 8592	23	685	
316	9.473 6935	244	9.493 8367	267	0.506 1633	9.979 8568	24	684	
		243		266			24		
317	9.473 7178		9.493 8633		0.506 1367	9.979 8544		683	
318	9.473 7421	243	9.493 8900	267	0.506 1100	9.979 8521	23	682	
319	9.473 7664	243	9.493 9167	267	0.506 0833	9.979 8497	24	681	
		243		267			24		
.320	9.473 7907		9.493 9434		0.506 0566	9.979 8473		.680	
		243		266			23		
321	9.473 8150		9.493 9700		0.506 0300	9.979 8450		679	
322	9.473 8393	243	9.493 9967	267	0.506 0033	9.979 8426	24	678	
323	9.473 8636	243	9.494 0234	267	0.505 9766	9.979 8402	24	677	
		243		266			23		
324	9.473 8879		9.494 0500		0.505 9500	9.979 8379		676	
325	9.473 9122	243	9.494 0767	267	0.505 9233	9.979 8355	24	675	
326	9.473 9365	243	9.494 1034	267	0.505 8966	9.979 8331	24	674	
		243		266			23		
327	9.473 9608		9.494 1300		0.505 8700	9.979 8308		673	
328	9.473 9851	243	9.494 1567	267	0.505 8433	9.979 8284	24	672	
329	9.474 0094	243	9.494 1833	266	0.505 8167	9.979 8261	23	671	
		243		267			24		
.330	9.474 0337		9.494 2100		0.505 7900	9.979 8237		.670	
		243		267			24		
331	9.474 0580		9.494 2367		0.505 7633	9.979 8213		669	
332	9.474 0823	243	9.494 2633	266	0.505 7367	9.979 8190	23	668	
333	9.474 1066	243	9.494 2900	267	0.505 7100	9.979 8166	24	667	
		242		266			24		
334	9.474 1308		9.494 3166		0.505 6834	9.979 8142		666	
335	9.474 1551	243	9.494 3433	267	0.505 6567	9.979 8119	23	665	
336	9.474 1794	243	9.494 3699	266	0.505 6301	9.979 8095	24	664	
		243		267			24		
337	9.474 2037		9.494 3966		0.505 6034	9.979 8071		663	
338	9.474 2280	243	9.494 4232	266	0.505 5768	9.979 8048	23	662	
339	9.474 2522	242	9.494 4498	266	0.505 5502	9.979 8024	24	661	
		243		267			24		
.340	9.474 2765		9.494 4765		0.505 5235	9.979 8000		.660	
		243		266			23		
341	9.474 3008		9.494 5031		0.505 4969	9.979 7977		659	
342	9.474 3251	243	9.494 5298	267	0.505 4702	9.979 7953	24	658	
343	9.474 3493	242	9.494 5564	266	0.505 4436	9.979 7929	24	657	
		243		267			23		
344	9.474 3736		9.494 5831		0.505 4169	9.979 7906		656	
345	9.474 3979	243	9.494 6097	266	0.505 3903	9.979 7882	24	655	
346	9.474 4222	243	9.494 6363	266	0.505 3637	9.979 7858	24	654	
		242		267			23		
347	9.474 4464		9.494 6630		0.505 3370	9.979 7835		653	
348	9.474 4707	243	9.494 6896	266	0.505 3104	9.979 7811	24	652	
349	9.474 4950	243	9.494 7162	266	0.505 2838	9.979 7787	24	651	
		242		267			23		
.350	9.474 5192		9.494 7429		0.505 2571	9.979 7764		.650	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	267	266
1	26.7	26.6
2	53.4	53.2
3	80.1	79.8
4	106.8	106.4
5	133.5	133.0
6	160.2	159.6
7	186.9	186.2
8	213.6	212.8
9	240.3	239.4

	244	243
1	24.4	24.3
2	48.8	48.6
3	73.2	72.9
4	97.6	97.2
5	122.0	121.5
6	146.4	145.8
7	170.8	170.1
8	195.2	194.4
9	219.6	218.7

	242
1	24.2
2	48.4
3	72.6
4	96.8
5	121.0
6	145.2
7	169.4
8	193.6
9	217.8

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

72°.700 — 72°.650

17°.350 — 17°.400

17°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.474 5192		9.494 7429		0.505 2571	9.979 7764		.650	
		243		266			24		
351	9.474 5435		9.494 7695		0.505 2305	9.979 7740		649	
352	9.474 5677	242	9.494 7961	266	0.505 2039	9.979 7716	24	648	
353	9.474 5920	243	9.494 8227	266	0.505 1773	9.979 7692	24	647	
		242		267			23		
354	9.474 6162		9.494 8494		0.505 1506	9.979 7669		646	
355	9.474 6405	243	9.494 8760	266	0.505 1240	9.979 7645	24	645	
356	9.474 6648	243	9.494 9026	266	0.505 0974	9.979 7621	24	644	
		242		266			23		
357	9.474 6890		9.494 9292		0.505 0708	9.979 7598		643	
358	9.474 7133	243	9.494 9559	267	0.505 0441	9.979 7574	24	642	
359	9.474 7375	242	9.494 9825	266	0.505 0175	9.979 7550	24	641	
		243		266			23		
.360	9.474 7618		9.495 0091		0.504 9909	9.979 7527		.640	
		242		266			24		
361	9.474 7860		9.495 0357		0.504 9643	9.979 7503		639	
362	9.474 8102	242	9.495 0623	266	0.504 9377	9.979 7479	24	638	
363	9.474 8345	243	9.495 0889	266	0.504 9111	9.979 7456	23	637	
		242		266			24		
364	9.474 8587		9.495 1155		0.504 8845	9.979 7432		636	
365	9.474 8830	243	9.495 1422	267	0.504 8578	9.979 7408	24	635	
366	9.474 9072	242	9.495 1688	266	0.504 8312	9.979 7384	24	634	
		242		266			23		
367	9.474 9314		9.495 1954		0.504 8046	9.979 7361		633	
368	9.474 9557	243	9.495 2220	266	0.504 7780	9.979 7337	24	632	
369	9.474 9799	242	9.495 2486	266	0.504 7514	9.979 7313	24	631	
		242		266			23		
.370	9.475 0041		9.495 2752		0.504 7248	9.979 7290		.630	
		243		266			24		
371	9.475 0284		9.495 3018		0.504 6982	9.979 7266		629	
372	9.475 0526	242	9.495 3284	266	0.504 6716	9.979 7242	24	628	
373	9.475 0768	242	9.495 3550	266	0.504 6450	9.979 7218	24	627	
		243		266			23		
374	9.475 1011		9.495 3816		0.504 6184	9.979 7195		626	
375	9.475 1253	242	9.495 4082	266	0.504 5918	9.979 7171	24	625	
376	9.475 1495	242	9.495 4348	266	0.504 5652	9.979 7147	24	624	
		242		266			23		
377	9.475 1737		9.495 4614		0.504 5386	9.979 7124		623	
378	9.475 1980	243	9.495 4880	266	0.504 5120	9.979 7100	24	622	
379	9.475 2222	242	9.495 5146	266	0.504 4854	9.979 7076	24	621	
		242		265			24		
.380	9.475 2464		9.495 5411		0.504 4589	9.979 7052		.620	
		242		266			23		
381	9.475 2706		9.495 5677		0.504 4323	9.979 7029		619	
382	9.475 2948	242	9.495 5943	266	0.504 4057	9.979 7005	24	618	
383	9.475 3190	242	9.495 6209	266	0.504 3791	9.979 6981	24	617	
		242		266			23		
384	9.475 3432		9.495 6475		0.504 3525	9.979 6958		616	
385	9.475 3675	243	9.495 6741	266	0.504 3259	9.979 6934	24	615	
386	9.475 3917	242	9.495 7007	266	0.504 2993	9.979 6910	24	614	
		242		265			24		
387	9.475 4159		9.495 7272		0.504 2728	9.979 6886		613	
388	9.475 4401	242	9.495 7538	266	0.504 2462	9.979 6863	23	612	
389	9.475 4643	242	9.495 7804	266	0.504 2196	9.979 6839	24	611	
		242		266			24		
.390	9.475 4885		9.495 8070		0.504 1930	9.979 6815		.610	
		242		265			24		
391	9.475 5127		9.495 8335		0.504 1665	9.979 6791		609	
392	9.475 5369	242	9.495 8601	266	0.504 1399	9.979 6768	23	608	
393	9.475 5611	242	9.495 8867	266	0.504 1133	9.979 6744	24	607	
		242		266			24		
394	9.475 5853		9.495 9133		0.504 0867	9.979 6720		606	
395	9.475 6095	242	9.495 9398	265	0.504 0602	9.979 6696	24	605	
396	9.475 6337	242	9.495 9664	266	0.504 0336	9.979 6673	23	604	
		242		266			24		
397	9.475 6579		9.495 9930		0.504 0070	9.979 6649		603	
398	9.475 6821	242	9.496 0195	265	0.503 9805	9.979 6625	24	602	
399	9.475 7062	241	9.496 0461	266	0.503 9539	9.979 6601	24	601	
		242		266			23		
.400	9.475 7304		9.496 0727		0.503 9273	9.979 6578		.600	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	267	266
1	26.7	26.6
2	53.4	53.2
3	80.1	79.8
4	106.8	106.4
5	133.5	133.0
6	160.2	159.6
7	186.9	186.2
8	213.6	212.8
9	240.3	239.4

	265
1	26.5
2	53.0
3	79.5
4	106.0
5	132.5
6	159.0
7	185.5
8	212.0
9	238.5

	243	242
1	24.3	24.2
2	48.6	48.4
3	72.9	72.6
4	97.2	96.8
5	121.5	121.0
6	145.8	145.2
7	170.1	169.4
8	194.4	193.6
9	218.7	217.8

	241
1	24.1
2	48.2
3	72.3
4	96.4
5	120.5
6	144.6
7	168.7
8	192.8
9	216.9

	24	23
1	2.4	2.3
2	4.8	4.6
3	7.2	6.9
4	9.6	9.2
5	12.0	11.5
6	14.4	13.8
7	16.8	16.1
8	19.2	18.4
9	21.6	20.7

72°.650 — 72°.600

17°.400 — 17°.450

17°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.475 7304		9.496 0727		0.503 9273	9.979 6578		.600	
		242		265			24		
401	9.475 7546		9.496 0992		0.503 9008	9.979 6554		599	
402	9.475 7788	242	9.496 1258	266	0.503 8742	9.979 6530	24	598	
403	9.475 8030	242	9.496 1524	266	0.503 8476	9.979 6506	24	597	
		242		265			23		
404	9.475 8272		9.496 1789		0.503 8211	9.979 6483		596	
405	9.475 8514	242	9.496 2055	266	0.503 7945	9.979 6459	24	595	
406	9.475 8755	241	9.496 2320	265	0.503 7680	9.979 6435	24	594	
		242		266			24		
407	9.475 8997		9.496 2586		0.503 7414	9.979 6411		593	
408	9.475 9239	242	9.496 2851	265	0.503 7149	9.979 6388	23	592	
409	9.475 9481	242	9.496 3117	266	0.503 6883	9.979 6364	24	591	
		241		265			24		
.410	9.475 9722		9.496 3382		0.503 6618	9.979 6340		.590	
		242		266			24		
411	9.475 9964		9.496 3648		0.503 6352	9.979 6316		589	
412	9.476 0206	242	9.496 3913	265	0.503 6087	9.979 6293	23	588	
413	9.476 0447	241	9.496 4179	266	0.503 5821	9.979 6269	24	587	
		242		265			24		
414	9.476 0689		9.496 4444		0.503 5556	9.979 6245		586	
415	9.476 0931	242	9.496 4710	266	0.503 5290	9.979 6221	24	585	
416	9.476 1172	241	9.496 4975	265	0.503 5025	9.979 6197	24	584	
		242		265			23		
417	9.476 1414		9.496 5240		0.503 4760	9.979 6174		583	
418	9.476 1656	242	9.496 5506	266	0.503 4494	9.979 6150	24	582	
419	9.476 1897	241	9.496 5771	265	0.503 4229	9.979 6126	24	581	
		242		266			24		
.420	9.476 2139		9.496 6037		0.503 3963	9.979 6102		.580	
		241		265			23		
421	9.476 2380		9.496 6302		0.503 3698	9.979 6079		579	
422	9.476 2622	242	9.496 6567	265	0.503 3433	9.979 6055	24	578	
423	9.476 2864	242	9.496 6833	266	0.503 3167	9.979 6031	24	577	
		241		265			24		
424	9.476 3105		9.496 7098		0.503 2902	9.979 6007		576	
425	9.476 3347	242	9.496 7363	265	0.503 2637	9.979 5983	24	575	
426	9.476 3588	241	9.496 7628	265	0.503 2372	9.979 5960	23	574	
		242		266			24		
427	9.476 3830		9.496 7894		0.503 2106	9.979 5936		573	
428	9.476 4071	241	9.496 8159	265	0.503 1841	9.979 5912	24	572	
429	9.476 4312	241	9.496 8424	265	0.503 1576	9.979 5888	24	571	
		242		266			24		
.430	9.476 4554		9.496 8690		0.503 1310	9.979 5864		.570	
		241		265			23		
431	9.476 4795		9.496 8955		0.503 1045	9.979 5841		569	
432	9.476 5037	242	9.496 9220	265	0.503 0780	9.979 5817	24	568	
433	9.476 5278	241	9.496 9485	265	0.503 0515	9.979 5793	24	567	
		242		265			24		
434	9.476 5520		9.496 9750		0.503 0250	9.979 5769		566	
435	9.476 5761	241	9.497 0015	265	0.502 9985	9.979 5745	24	565	
436	9.476 6002	241	9.497 0281	266	0.502 9719	9.979 5722	23	564	
		242		265			24		
437	9.476 6244		9.497 0546		0.502 9454	9.979 5698		563	
438	9.476 6485	241	9.497 0811	265	0.502 9189	9.979 5674	24	562	
439	9.476 6726	241	9.497 1076	265	0.502 8924	9.979 5650	24	561	
		241		265			24		
.440	9.476 6967		9.497 1341		0.502 8659	9.979 5626		.560	
		242		265			23		
441	9.476 7209		9.497 1606		0.502 8394	9.979 5603		559	
442	9.476 7450	241	9.497 1871	265	0.502 8129	9.979 5579	24	558	
443	9.476 7691	241	9.497 2136	265	0.502 7864	9.979 5555	24	557	
		242		265			24		
444	9.476 7933		9.497 2401		0.502 7599	9.979 5531		556	
445	9.476 8174	241	9.497 2666	265	0.502 7334	9.979 5507	24	555	
446	9.476 8415	241	9.497 2931	265	0.502 7069	9.979 5483	24	554	
		241		265			23		
447	9.476 8656		9.497 3196		0.502 6804	9.979 5460		553	
448	9.476 8897	241	9.497 3461	265	0.502 6539	9.979 5436	24	552	
449	9.476 9138	241	9.497 3726	265	0.502 6274	9.979 5412	24	551	
		242		265			24		
.450	9.476 9380		9.497 3991		0.502 6009	9.979 5388		.550	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	266	265
1	26.6	26.5
2	53.2	53.0
3	79.8	79.5
4	106.4	106.0
5	133.0	132.5
6	159.6	159.0
7	186.2	185.5
8	212.8	212.0
9	239.4	238.5

	242
1	24.2
2	48.4
3	72.6
4	96.8
5	121.0
6	145.2
7	169.4
8	193.6
9	217.8

	241
1	24.1
2	48.2
3	72.3
4	96.4
5	120.5
6	144.6
7	168.7
8	192.8
9	216.9

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

72°.600 — 72°.550

17°.450 — 17°.500

17°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.476 9380		9.497 3991		0.502 6009	9.979 5388		·550	
		241		265			24		
451	9.476 9621		9.497 4256		0.502 5744	9.979 5364		549	
452	9.476 9862	241	9.497 4521	265	0.502 5479	9.979 5341	23	548	
453	9.477 0103	241	9.497 4786	265	0.502 5214	9.979 5317	24	547	
		241		265			24		
454	9.477 0344		9.497 5051		0.502 4949	9.979 5293		546	
455	9.477 0585	241	9.497 5316	265	0.502 4684	9.979 5269	24	545	
456	9.477 0826	241	9.497 5581	265	0.502 4419	9.979 5245	24	544	
		241		265			24		
457	9.477 1067		9.497 5846		0.502 4154	9.979 5221		543	
458	9.477 1308	241	9.497 6111	265	0.502 3889	9.979 5198	23	542	
459	9.477 1549	241	9.497 6376	265	0.502 3624	9.979 5174	24	541	
		241		264			24		
·460	9.477 1790		9.497 6640		0.502 3360	9.979 5150		·540	
		241		265			24		
461	9.477 2031		9.497 6905		0.502 3095	9.979 5126		539	
462	9.477 2272	241	9.497 7170	265	0.502 2830	9.979 5102	24	538	
463	9.477 2513	241	9.497 7435	265	0.502 2565	9.979 5078	24	537	
		241		265			24		
464	9.477 2754		9.497 7700		0.502 2300	9.979 5054		536	
465	9.477 2995	241	9.497 7964	264	0.502 2036	9.979 5031	23	535	
466	9.477 3236	241	9.497 8229	265	0.502 1771	9.979 5007	24	534	
		241		265			24		
467	9.477 3477		9.497 8494		0.502 1506	9.979 4983		533	
468	9.477 3718	241	9.497 8759	265	0.502 1241	9.979 4959	24	532	
469	9.477 3959	241	9.497 9023	264	0.502 0977	9.979 4935	24	531	
		240		265			24		
·470	9.477 4199		9.497 9288		0.502 0712	9.979 4911		·530	
		241		265			24		
471	9.477 4440		9.497 9553		0.502 0447	9.979 4887		529	
472	9.477 4681	241	9.497 9817	264	0.502 0183	9.979 4864	23	528	
473	9.477 4922	241	9.498 0082	265	0.501 9918	9.979 4840	24	527	
		241		265			24		
474	9.477 5163		9.498 0347		0.501 9653	9.979 4816		526	
475	9.477 5403	240	9.498 0611	264	0.501 9389	9.979 4792	24	525	
476	9.477 5644	241	9.498 0876	265	0.501 9124	9.979 4768	24	524	
		241		265			24		
477	9.477 5885		9.498 1141		0.501 8859	9.979 4744		523	
478	9.477 6126	241	9.498 1405	264	0.501 8595	9.979 4720	24	522	
479	9.477 6366	240	9.498 1670	265	0.501 8330	9.979 4697	23	521	
		241		264			24		
·480	9.477 6607		9.498 1934		0.501 8066	9.979 4673		·520	
		241		265			24		
481	9.477 6848		9.498 2199		0.501 7801	9.979 4649		519	
482	9.477 7088	240	9.498 2463	264	0.501 7537	9.979 4625	24	518	
483	9.477 7329	241	9.498 2728	265	0.501 7272	9.979 4601	24	517	
		241		265			24		
484	9.477 7570		9.498 2993		0.501 7007	9.979 4577		516	
485	9.477 7810	240	9.498 3257	264	0.501 6743	9.979 4553	24	515	
486	9.477 8051	241	9.498 3522	265	0.501 6478	9.979 4529	24	514	
		241		264			23		
487	9.477 8292		9.498 3786		0.501 6214	9.979 4506		513	
488	9.477 8532	240	9.498 4050	264	0.501 5950	9.979 4482	24	512	
489	9.477 8773	241	9.498 4315	265	0.501 5685	9.979 4458	24	511	
		240		264			24		
·490	9.477 9013		9.498 4579		0.501 5421	9.979 4434		·510	
		241		265			24		
491	9.477 9254		9.498 4844		0.501 5156	9.979 4410		509	
492	9.477 9494	240	9.498 5108	264	0.501 4892	9.979 4386	24	508	
493	9.477 9735	240	9.498 5373	265	0.501 4627	9.979 4362	24	507	
		241		264			24		
494	9.477 9975		9.498 5637		0.501 4363	9.979 4338		506	
495	9.478 0216	240	9.498 5901	264	0.501 4099	9.979 4314	24	505	
496	9.478 0456	241	9.498 6166	265	0.501 3834	9.979 4291	23	504	
		240		264			24		
497	9.478 0697		9.498 6430		0.501 3570	9.979 4267		503	
498	9.478 0937	240	9.498 6694	264	0.501 3306	9.979 4243	24	502	
499	9.478 1178	241	9.498 6959	265	0.501 3041	9.979 4219	24	501	
		240		264			24		
·500	9.478 1418		9.498 7223		0.501 2777	9.979 4195		·500	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	265	264
1	26.5	26.4
2	53.0	52.8
3	79.5	79.2
4	106.0	105.6
5	132.5	132.0
6	159.0	158.4
7	185.5	184.8
8	212.0	211.2
9	238.5	237.6

	241
1	24.1
2	48.2
3	72.3
4	96.4
5	120.5
6	144.6
7	168.7
8	192.8
9	216.9

	240
1	24.0
2	48.0
3	72.0
4	96.0
5	120.0
6	144.0
7	168.0
8	192.0
9	216.0

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

72°.550 — 72°.500

$17^\circ.500 - 17^\circ.550$

17°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.478 1418		9.498 7223		0.501 2777	9.979 4195		.500	
		240		264			24		
501	9.478 1658		9.498 7487		0.501 2513	9.979 4171		499	
502	9.478 1899	241	9.498 7752	265	0.501 2248	9.979 4147	24	498	
503	9.478 2139	240	9.498 8016	264	0.501 1984	9.979 4123	24	497	
		241		264			24		
504	9.478 2380		9.498 8280		0.501 1720	9.979 4099		496	
505	9.478 2620	240	9.498 8544	264	0.501 1456	9.979 4076	23	495	
506	9.478 2860	240	9.498 8809	265	0.501 1191	9.979 4052	24	494	
		241		264			24		
507	9.478 3101		9.498 9073		0.501 0927	9.979 4028		493	
508	9.478 3341	240	9.498 9337	264	0.501 0663	9.979 4004	24	492	
509	9.478 3581	240	9.498 9601	264	0.501 0399	9.979 3980	24	491	
		240		264			24		
.510	9.478 3821		9.498 9865		0.501 0135	9.979 3956		.490	
		241		265			24		
511	9.478 4062		9.499 0130		0.500 9870	9.979 3932		489	
512	9.478 4302	240	9.499 0394	264	0.500 9606	9.979 3908	24	488	
513	9.478 4542	240	9.499 0658	264	0.500 9342	9.979 3884	24	487	
		240		264			24		
514	9.478 4782		9.499 0922		0.500 9078	9.979 3860		486	
515	9.478 5022	240	9.499 1186	264	0.500 8814	9.979 3836	24	485	
516	9.478 5263	241	9.499 1450	264	0.500 8550	9.979 3812	24	484	
		240		264			23		
517	9.478 5503		9.499 1714		0.500 8286	9.979 3789		483	
518	9.478 5743	240	9.499 1978	264	0.500 8022	9.979 3765	24	482	
519	9.478 5983	240	9.499 2242	264	0.500 7758	9.979 3741	24	481	
		240		264			24		
.520	9.478 6223		9.499 2506		0.500 7494	9.979 3717		.480	
		240		264			24		
521	9.478 6463		9.499 2770		0.500 7230	9.979 3693		479	
522	9.478 6703	240	9.499 3034	264	0.500 6966	9.979 3669	24	478	
523	9.478 6943	240	9.499 3298	264	0.500 6702	9.979 3645	24	477	
		240		264			24		
524	9.478 7183		9.499 3562		0.500 6438	9.979 3621		476	
525	9.478 7424	241	9.499 3826	264	0.500 6174	9.979 3597	24	475	
526	9.478 7664	240	9.499 4090	264	0.500 5910	9.979 3573	24	474	
		240		264			24		
527	9.478 7904		9.499 4354		0.500 5646	9.979 3549		473	
528	9.478 8144	240	9.499 4618	264	0.500 5382	9.979 3525	24	472	
529	9.478 8384	240	9.499 4882	264	0.500 5118	9.979 3501	24	471	
		240		264			24		
.530	9.478 8624		9.499 5146		0.500 4854	9.979 3477		.470	
		240		264			24		
531	9.478 8864		9.499 5410		0.500 4590	9.979 3453		469	
532	9.478 9103	239	9.499 5674	264	0.500 4326	9.979 3429	24	468	
533	9.478 9343	240	9.499 5938	264	0.500 4062	9.979 3406	23	467	
		240		264			24		
534	9.478 9583		9.499 6202		0.500 3798	9.979 3382		466	
535	9.478 9823	240	9.499 6466	264	0.500 3534	9.979 3358	24	465	
536	9.479 0063	240	9.499 6729	263	0.500 3271	9.979 3334	24	464	
		240		264			24		
537	9.479 0303		9.499 6993		0.500 3007	9.979 3310		463	
538	9.479 0543	240	9.499 7257	264	0.500 2743	9.979 3286	24	462	
539	9.479 0783	240	9.499 7521	264	0.500 2479	9.979 3262	24	461	
		239		264			24		
.540	9.479 1022		9.499 7785		0.500 2215	9.979 3238		.460	
		240		263			24		
541	9.479 1262		9.499 8048		0.500 1952	9.979 3214		459	
542	9.479 1502	240	9.499 8312	264	0.500 1688	9.979 3190	24	458	
543	9.479 1742	240	9.499 8576	264	0.500 1424	9.979 3166	24	457	
		240		264			24		
544	9.479 1982		9.499 8840		0.500 1160	9.979 3142		456	
545	9.479 2221	239	9.499 9103	263	0.500 0897	9.979 3118	24	455	
546	9.479 2461	240	9.499 9367	264	0.500 0633	9.979 3094	24	454	
		240		264			24		
547	9.479 2701		9.499 9631		0.500 0369	9.979 3070		453	
548	9.479 2941	240	9.499 9894	263	0.500 0106	9.979 3046	24	452	
549	9.479 3180	239	9.500 0158	264	0.499 9842	9.979 3022	24	451	
		240		264			24		
.550	9.479 3420		9.500 0422		0.499 9578	9.979 2998		.450	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	265	264
1	26.5	26.4
2	53.0	52.8
3	79.5	79.2
4	106.0	105.6
5	132.5	132.0
6	159.0	158.4
7	185.5	184.8
8	212.0	211.2
9	238.5	237.6

	263
1	26.3
2	52.6
3	78.9
4	105.2
5	131.5
6	157.8
7	184.1
8	210.4
9	236.7

	241	240
1	24.1	24.0
2	48.2	48.0
3	72.3	72.0
4	96.4	96.0
5	120.5	120.0
6	144.6	144.0
7	168.7	168.0
8	192.8	192.0
9	216.9	216.0

	239
1	23.9
2	47.8
3	71.7
4	95.6
5	119.5
6	143.4
7	167.3
8	191.2
9	215.1

	24	23
1	2.4	2.3
2	4.8	4.6
3	7.2	6.9
4	9.6	9.2
5	12.0	11.5
6	14.4	13.8
7	16.8	16.1
8	19.2	18.4
9	21.6	20.7

$72^\circ.500 - 72^\circ.450$

$17^\circ.550 - 17^\circ.600$

17°	sin	d	tang	d	cotg	cos	d		P.P.
·550	9.479 3420		9.500 0422		0.499 9578	9.979 2998		·450	
		240		263			24		
551	9.479 3660		9.500 0685		0.499 9315	9.979 2974		449	
552	9.479 3899	239	9.500 0949	264	0.499 9051	9.979 2950	24	448	
553	9.479 4139	240	9.500 1213	264	0.499 8787	9.979 2926	24	447	
		239		263			24		
554	9.479 4378		9.500 1476		0.499 8524	9.979 2902		446	
555	9.479 4618	240	9.500 1740	264	0.499 8260	9.979 2878	24	445	
556	9.479 4858	240	9.500 2003	263	0.499 7997	9.979 2854	24	444	
		239		264			24		
557	9.479 5097		9.500 2267		0.499 7733	9.979 2830		443	
558	9.479 5337	240	9.500 2530	263	0.499 7470	9.979 2806	24	442	
559	9.479 5576	239	9.500 2794	264	0.499 7206	9.979 2782	24	441	
		240		263			24		
·560	9.479 5816		9.500 3057		0.499 6943	9.979 2758		·440	
		239		264			24		
561	9.479 6055		9.500 3321		0.499 6679	9.979 2734		439	
562	9.479 6295	240	9.500 3584	263	0.499 6416	9.979 2710	24	438	
563	9.479 6534	239	9.500 3848	264	0.499 6152	9.979 2686	24	437	
		240		263			24		
564	9.479 6774		9.500 4111		0.499 5889	9.979 2662		436	
565	9.479 7013	239	9.500 4375	264	0.499 5625	9.979 2638	24	435	
566	9.479 7253	240	9.500 4638	263	0.499 5362	9.979 2614	24	434	
		239		264			23		
567	9.479 7492		9.500 4902		0.499 5098	9.979 2591		433	
568	9.479 7732	240	9.500 5165	263	0.499 4835	9.979 2567	24	432	
569	9.479 7971	239	9.500 5429	264	0.499 4571	9.979 2543	24	431	
		239		263			24		
·570	9.479 8210		9.500 5692		0.499 4308	9.979 2519		·430	
		240		263			24		
571	9.479 8450		9.500 5955		0.499 4045	9.979 2495		429	
572	9.479 8689	239	9.500 6219	264	0.499 3781	9.979 2470	25	428	
573	9.479 8929	240	9.500 6482	263	0.499 3518	9.979 2446	24	427	
		239		263			24		
574	9.479 9168		9.500 6745		0.499 3255	9.979 2422		426	
575	9.479 9407	239	9.500 7009	264	0.499 2991	9.979 2398	24	425	
576	9.479 9647	240	9.500 7272	263	0.499 2728	9.979 2374	24	424	
		239		263			24		
577	9.479 9886		9.500 7535		0.499 2465	9.979 2350		423	
578	9.480 0125	239	9.500 7799	264	0.499 2201	9.979 2326	24	422	
579	9.480 0364	239	9.500 8062	263	0.499 1938	9.979 2302	24	421	
		240		263			24		
·580	9.480 0604		9.500 8325		0.499 1675	9.979 2278		·420	
		239		263			24		
581	9.480 0843		9.500 8588		0.499 1412	9.979 2254		419	
582	9.480 1082	239	9.500 8852	264	0.499 1148	9.979 2230	24	418	
583	9.480 1321	239	9.500 9115	263	0.499 0885	9.979 2206	24	417	
		239		263			24		
584	9.480 1560		9.500 9378		0.499 0622	9.979 2182		416	
585	9.480 1800	240	9.500 9641	263	0.499 0359	9.979 2158	24	415	
586	9.480 2039	239	9.500 9904	263	0.499 0096	9.979 2134	24	414	
		239		264			24		
587	9.480 2278		9.501 0168		0.498 9832	9.979 2110		413	
588	9.480 2517	239	9.501 0431	263	0.498 9569	9.979 2086	24	412	
589	9.480 2756	239	9.501 0694	263	0.498 9306	9.979 2062	24	411	
		239		263			24		
·590	9.480 2995		9.501 0957		0.498 9043	9.979 2038		·410	
		239		263			24		
591	9.480 3234		9.501 1220		0.498 8780	9.979 2014		409	
592	9.480 3473	239	9.501 1483	263	0.498 8517	9.979 1990	24	408	
593	9.480 3712	239	9.501 1746	263	0.498 8254	9.979 1966	24	407	
		239		263			24		
594	9.480 3951		9.501 2009		0.498 7991	9.979 1942		406	
595	9.480 4191	240	9.501 2272	263	0.498 7728	9.979 1918	24	405	
596	9.480 4430	239	9.501 2536	264	0.498 7464	9.979 1894	24	404	
		239		263			24		
597	9.480 4669		9.501 2799		0.498 7201	9.979 1870		403	
598	9.480 4908	239	9.501 3062	263	0.498 6938	9.979 1846	24	402	
599	9.480 5146	238	9.501 3325	263	0.498 6675	9.979 1822	24	401	
		239		263			24		
.600	9.480 5385		9.501 3588		0.498 6412	9.979 1798		·400	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	264	263
1	26.4	26.3
2	52.8	52.6
3	79.2	78.9
4	105.6	105.2
5	132.0	131.5
6	158.4	157.8
7	184.8	184.1
8	211.2	210.4
9	237.6	236.7

	240	239
1	24.0	23.9
2	48.0	47.8
3	72.0	71.7
4	96.0	95.6
5	120.0	119.5
6	144.0	143.4
7	168.0	167.3
8	192.0	191.2
9	216.0	215.1

	238
1	23.8
2	47.6
3	71.4
4	95.2
5	119.0
6	142.8
7	166.6
8	190.4
9	214.2

	25	24
1	2.5	2.4
2	5.0	4.8
3	7.5	7.2
4	10.0	9.6
5	12.5	12.0
6	15.0	14.4
7	17.5	16.8
8	20.0	19.2
9	22.5	21.6

	23
1	2.3
2	4.6
3	6.9
4	9.2
5	11.5
6	13.8
7	16.1
8	18.4
9	20.7

$72^\circ.450 - 72^\circ.400$

17°.600 — 17°.650

17°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.480 5385		9.501 3588		0.498 6412	9.979 1798		**.400**	
		239		263			24		
601	9.480 5624		9.501 3851		0.498 6149	9.979 1774		399	
602	9.480 5863	239	9.501 4114	263	0.498 5886	9.979 1750	24	398	
603	9.480 6102	239	9.501 4377	263	0.498 5623	9.979 1726	24	397	
		239		262			24		
604	9.480 6341		9.501 4639		0.498 5361	9.979 1702		396	
605	9.480 6580	239	9.501 4902	263	0.498 5098	9.979 1678	24	395	
606	9.480 6819	239	9.501 5165	263	0.498 4835	9.979 1654	24	394	
		239		263			25		
607	9.480 7058		9.501 5428		0.498 4572	9.979 1629		393	
608	9.480 7297	239	9.501 5691	263	0.498 4309	9.979 1605	24	392	
609	9.480 7535	238	9.501 5954	263	0.498 4046	9.979 1581	24	391	
		239		263			24		
.610	9.480 7774		9.501 6217		0.498 3783	9.979 1557		**.390**	
		239		263			24		
611	9.480 8013		9.501 6480		0.498 3520	9.979 1533		389	
612	9.480 8252	239	9.501 6743	263	0.498 3257	9.979 1509	24	388	
613	9.480 8491	239	9.501 7005	262	0.498 2995	9.979 1485	24	387	
		238		263			24		
614	9.480 8729		9.501 7268		0.498 2732	9.979 1461		386	
615	9.480 8968	239	9.501 7531	263	0.498 2469	9.979 1437	24	385	
616	9.480 9207	239	9.501 7794	263	0.498 2206	9.979 1413	24	384	
		238		263			24		
617	9.480 9445		9.501 8057		0.498 1943	9.979 1389		383	
618	9.480 9684	239	9.501 8319	262	0.498 1681	9.979 1365	24	382	
619	9.480 9923	239	9.501 8582	263	0.498 1418	9.979 1341	24	381	
		238		263			24		
.620	9.481 0161		9.501 8845		0.498 1155	9.979 1317		**.380**	
		239		263			24		
621	9.481 0400		9.501 9108		0.498 0892	9.979 1293		379	
622	9.481 0639	239	9.501 9370	262	0.498 0630	9.979 1268	25	378	
623	9.481 0877	238	9.501 9633	263	0.498 0367	9.979 1244	24	377	
		239		263			24		
624	9.481 1116		9.501 9896		0.498 0104	9.979 1220		376	
625	9.481 1355	239	9.502 0158	262	0.497 9842	9.979 1196	24	375	
626	9.481 1593	238	9.502 0421	263	0.497 9579	9.979 1172	24	374	
		239		263			24		
627	9.481 1832		9.502 0684		0.497 9316	9.979 1148		373	
628	9.481 2070	238	9.502 0946	262	0.497 9054	9.979 1124	24	372	
629	9.481 2309	239	9.502 1209	263	0.497 8791	9.979 1100	24	371	
		238		263			24		
.630	9.481 2547		9.502 1472		0.497 8528	9.979 1076		**.370**	
		239		262			24		
631	9.481 2786		9.502 1734		0.497 8266	9.979 1052		369	
632	9.481 3024	238	9.502 1997	263	0.497 8003	9.979 1028	24	368	
633	9.481 3263	239	9.502 2259	262	0.497 7741	9.979 1004	24	367	
		238		263			25		
634	9.481 3501		9.502 2522		0.497 7478	9.979 0979		366	
635	9.481 3740	239	9.502 2784	262	0.497 7216	9.979 0955	24	365	
636	9.481 3978	238	9.502 3047	263	0.497 6953	9.979 0931	24	364	
		239		262			24		
637	9.481 4217		9.502 3309		0.497 6691	9.979 0907		363	
638	9.481 4455	238	9.502 3572	263	0.497 6428	9.979 0883	24	362	
639	9.481 4693	238	9.502 3834	262	0.497 6166	9.979 0859	24	361	
		239		263			24		
.640	9.481 4932		9.502 4097		0.497 5903	9.979 0835		**.360**	
		238		262			24		
641	9.481 5170		9.502 4359		0.497 5641	9.979 0811		359	
642	9.481 5408	238	9.502 4622	263	0.497 5378	9.979 0787	24	358	
643	9.481 5647	239	9.502 4884	262	0.497 5116	9.979 0763	24	357	
		238		263			25		
644	9.481 5885		9.502 5147		0.497 4853	9.979 0738		356	
645	9.481 6123	238	9.502 5409	262	0.497 4591	9.979 0714	24	355	
646	9.481 6362	239	9.502 5672	263	0.497 4328	9.979 0690	24	354	
		238		262			24		
647	9.481 6600		9.502 5934		0.497 4066	9.979 0666		353	
648	9.481 6838	238	9.502 6196	262	0.497 3804	9.979 0642	24	352	
649	9.481 7077	239	9.502 6459	263	0.497 3541	9.979 0618	24	351	
		238		262			24		
.650	9.481 7315		9.502 6721		0.497 3279	9.979 0594		**.350**	
	cos	d	cotg	d	tang	sin	d	**72°**	P.P.

	263	262
1	26.3	26.2
2	52.6	52.4
3	78.9	78.6
4	105.2	104.8
5	131.5	131.0
6	157.8	157.2
7	184.1	183.4
8	210.4	209.6
9	236.7	235.8

	239
1	23.9
2	47.8
3	71.7
4	95.6
5	119.5
6	143.4
7	167.3
8	191.2
9	215.1

	238
1	23.8
2	47.6
3	71.4
4	95.2
5	119.0
6	142.8
7	166.6
8	190.4
9	214.2

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

72°.400 — 72°.350

17°.650 — 17°.700

17°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.481 7315		9.502 6721		0.497 3279	9.979 0594		.350	
		238		262			24		
651	9.481 7553		9.502 6983		0.497 3017	9.979 0570		349	
652	9.481 7791	238	9.502 7246	263	0.497 2754	9.979 0546	24	348	
653	9.481 8029	238	9.502 7508	262	0.497 2492	9.979 0521	25	347	
		239		262			24		
654	9.481 8268		9.502 7770		0.497 2230	9.979 0497		346	
655	9.481 8506	238	9.502 8033	263	0.497 1967	9.979 0473	24	345	
656	9.481 8744	238	9.502 8295	262	0.497 1705	9.979 0449	24	344	
		238		262			24		
657	9.481 8982		9.502 8557		0.497 1443	9.979 0425		343	
658	9.481 9220	238	9.502 8819	262	0.497 1181	9.979 0401	24	342	
659	9.481 9458	238	9.502 9082	263	0.497 0918	9.979 0377	24	341	
		238		262			24		
.660	9.481 9696		9.502 9344		0.497 0656	9.979 0353		.340	
		238		262			25		
661	9.481 9934		9.502 9606		0.497 0394	9.979 0328		339	
662	9.482 0172	238	9.502 9868	262	0.497 0132	9.979 0304	24	338	
663	9.482 0410	238	9.503 0130	262	0.496 9870	9.979 0280	24	337	
		239		263			24		
664	9.482 0649		9.503 0393		0.496 9607	9.979 0256		336	
665	9.482 0887	238	9.503 0655	262	0.496 9345	9.979 0232	24	335	
666	9.482 1125	238	9.503 0917	262	0.496 9083	9.979 0208	24	334	
		238		262			24		
667	9.482 1363		9.503 1179		0.496 8821	9.979 0184		333	
668	9.482 1601	238	9.503 1441	262	0.496 8559	9.979 0159	25	332	
669	9.482 1838	237	9.503 1703	262	0.496 8297	9.979 0135	24	331	
		238		262			24		
.670	9.482 2076		9.503 1965		0.496 8035	9.979 0111		.330	
		238		262			24		
671	9.482 2314		9.503 2227		0.496 7773	9.979 0087		329	
672	9.482 2552	238	9.503 2489	262	0.496 7511	9.979 0063	24	328	
673	9.482 2790	238	9.503 2751	262	0.496 7249	9.979 0039	24	327	
		238		263			24		
674	9.482 3028		9.503 3014		0.496 6986	9.979 0015		326	
675	9.482 3266	238	9.503 3276	262	0.496 6724	9.978 9990	25	325	
676	9.482 3504	238	9.503 3538	262	0.496 6462	9.978 9966	24	324	
		238		262			24		
677	9.482 3742		9.503 3800		0.496 6200	9.978 9942		323	
678	9.482 3979	237	9.503 4062	262	0.496 5938	9.978 9918	24	322	
679	9.482 4217	238	9.503 4324	262	0.496 5676	9.978 9894	24	321	
		238		262			24		
.680	9.482 4455		9.503 4586		0.496 5414	9.978 9870		.320	
		238		261			25		
681	9.482 4693		9.503 4847		0.496 5153	9.978 9845		319	
682	9.482 4931	238	9.503 5109	262	0.496 4891	9.978 9821	24	318	
683	9.482 5168	237	9.503 5371	262	0.496 4629	9.978 9797	24	317	
		238		262			24		
684	9.482 5406		9.503 5633		0.496 4367	9.978 9773		316	
685	9.482 5644	238	9.503 5895	262	0.496 4105	9.978 9749	24	315	
686	9.482 5882	238	9.503 6157	262	0.496 3843	9.978 9725	24	314	
		237		262			25		
687	9.482 6119		9.503 6419		0.496 3581	9.978 9700		313	
688	9.482 6357	238	9.503 6681	262	0.496 3319	9.978 9676	24	312	
689	9.482 6595	238	9.503 6943	262	0.496 3057	9.978 9652	24	311	
		237		261			24		
.690	9.482 6832		9.503 7204		0.496 2796	9.978 9628		.310	
		238		262			24		
691	9.482 7070		9.503 7466		0.496 2534	9.978 9604		309	
692	9.482 7308	238	9.503 7728	262	0.496 2272	9.978 9580	24	308	
693	9.482 7545	237	9.503 7990	262	0.496 2010	9.978 9555	25	307	
		238		262			24		
694	9.482 7783		9.503 8252		0.496 1748	9.978 9531		306	
695	9.482 8020	237	9.503 8513	261	0.496 1487	9.978 9507	24	305	
696	9.482 8258	238	9.503 8775	262	0.496 1225	9.978 9483	24	304	
		238		262			24		
697	9.482 8496		9.503 9037		0.496 0963	9.978 9459		303	
698	9.482 8733	237	9.503 9299	262	0.496 0701	9.978 9434	25	302	
699	9.482 8971	238	9.503 9560	261	0.496 0440	9.978 9410	24	301	
		237		262			24		
.700	9.482 9208		9.503 9822		0.496 0178	9.978 9386		.300	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	263	262
1	26.3	26.2
2	52.6	52.4
3	78.9	78.6
4	105.2	104.8
5	131.5	131.0
6	157.8	157.2
7	184.1	183.4
8	210.4	209.6
9	236.7	235.8

	261
1	26.1
2	52.2
3	78.3
4	104.4
5	130.5
6	156.6
7	182.7
8	208.8
9	234.9

	239	238
1	23.9	23.8
2	47.8	47.6
3	71.7	71.4
4	95.6	95.2
5	119.5	119.0
6	143.4	142.8
7	167.3	166.6
8	191.2	190.4
9	215.1	214.2

	237
1	23.7
2	47.4
3	71.1
4	94.8
5	118.5
6	142.2
7	165.9
8	189.6
9	213.3

	25	24
1	2.5	2.4
2	5.0	4.8
3	7.5	7.2
4	10.0	9.6
5	12.5	12.0
6	15.0	14.4
7	17.5	16.8
8	20.0	19.2
9	22.5	21.6

72°.350 — 72°.300

17°.700 — 17°.750

17°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.482 9208		9.503 9822		0.496 0178	9.978 9386		.300	
		238		262			24		
701	9.482 9446		9.504 0084		0.495 9916	9.978 9362		299	
702	9.482 9683	237	9.504 0345	261	0.495 9655	9.978 9338	24	298	
703	9.482 9921	238	9.504 0607	262	0.495 9393	9.978 9313	25	297	
		237		262			24		
704	9.483 0158		9.504 0869		0.495 9131	9.978 9289		296	
705	9.483 0395	237	9.504 1130	261	0.495 8870	9.978 9265	24	295	
706	9.483 0633	238	9.504 1392	262	0.495 8608	9.978 9241	24	294	
		237		262			24		
707	9.483 0870		9.504 1654		0.495 8346	9.978 9217		293	
708	9.483 1108	238	9.504 1915	261	0.495 8085	9.978 9192	25	292	
709	9.483 1345	237	9.504 2177	262	0.495 7823	9.978 9168	24	291	
		237		261			24		
.710	9.483 1582		9.504 2438		0.495 7562	9.978 9144		.290	
		238		262			24		
711	9.483 1820		9.504 2700		0.495 7300	9.978 9120		289	
712	9.483 2057	237	9.504 2962	262	0.495 7038	9.978 9096	24	288	
713	9.483 2295	238	9.504 3223	261	0.495 6777	9.978 9071	25	287	
		237		262			24		
714	9.483 2532		9.504 3485		0.495 6515	9.978 9047		286	
715	9.483 2769	237	9.504 3746	261	0.495 6254	9.978 9023	24	285	
716	9.483 3006	237	9.504 4008	262	0.495 5992	9.978 8999	24	284	
		238		261			24		
717	9.483 3244		9.504 4269		0.495 5731	9.978 8975		283	
718	9.483 3481	237	9.504 4531	262	0.495 5469	9.978 8950	25	282	
719	9.483 3718	237	9.504 4792	261	0.495 5208	9.978 8926	24	281	
		237		261			24		
.720	9.483 3955		9.504 5053		0.495 4947	9.978 8902		.280	
		238		262			24		
721	9.483 4193		9.504 5315		0.495 4685	9.978 8878		279	
722	9.483 4430	237	9.504 5576	261	0.495 4424	9.978 8854	24	278	
723	9.483 4667	237	9.504 5838	262	0.495 4162	9.978 8829	25	277	
		237		261			24		
724	9.483 4904		9.504 6099		0.495 3901	9.978 8805		276	
725	9.483 5141	237	9.504 6361	262	0.495 3639	9.978 8781	24	275	
726	9.483 5379	238	9.504 6622	261	0.495 3378	9.978 8757	24	274	
		237		261			25		
727	9.483 5616		9.504 6883		0.495 3117	9.978 8732		273	
728	9.483 5853	237	9.504 7145	262	0.495 2855	9.978 8708	24	272	
729	9.483 6090	237	9.504 7406	261	0.495 2594	9.978 8684	24	271	
		237		261			24		
.730	9.483 6327		9.504 7667		0.495 2333	9.978 8660		.270	
		237		262			25		
731	9.483 6564		9.504 7929		0.495 2071	9.978 8635		269	
732	9.483 6801	237	9.504 8190	261	0.495 1810	9.978 8611	24	268	
733	9.483 7038	237	9.504 8451	261	0.495 1549	9.978 8587	24	267	
		237		261			24		
734	9.483 7275		9.504 8712		0.495 1288	9.978 8563		266	
735	9.483 7512	237	9.504 8974	262	0.495 1026	9.978 8538	25	265	
736	9.483 7749	237	9.504 9235	261	0.495 0765	9.978 8514	24	264	
		237		261			24		
737	9.483 7986		9.504 9496		0.495 0504	9.978 8490		263	
738	9.483 8223	237	9.504 9757	261	0.495 0243	9.978 8466	24	262	
739	9.483 8460	237	9.505 0019	262	0.494 9981	9.978 8442	24	261	
		237		261			25		
.740	9.483 8697		9.505 0280		0.494 9720	9.978 8417		.260	
		237		261			24		
741	9.483 8934		9.505 0541		0.494 9459	9.978 8393		259	
742	9.483 9171	237	9.505 0802	261	0.494 9198	9.978 8369	24	258	
743	9.483 9408	237	9.505 1063	261	0.494 8937	9.978 8345	24	257	
		237		261			25		
744	9.483 9645		9.505 1324		0.494 8676	9.978 8320		256	
745	9.483 9882	237	9.505 1586	262	0.494 8414	9.978 8296	24	255	
746	9.484 0118	236	9.505 1847	261	0.494 8153	9.978 8272	24	254	
		237		261			25		
747	9.484 0355		9.505 2108		0.494 7892	9.978 8247		253	
748	9.484 0592	237	9.505 2369	261	0.494 7631	9.978 8223	24	252	
749	9.484 0829	237	9.505 2630	261	0.494 7370	9.978 8199	24	251	
		237		261			24		
.750	9.484 1066		9.505 2891		0.494 7109	9.978 8175		.250	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	262	261
1	26.2	26.1
2	52.4	52.2
3	78.6	78.3
4	104.8	104.4
5	131.0	130.5
6	157.2	156.6
7	183.4	182.7
8	209.6	208.8
9	235.8	234.9

	238	237
1	23.8	23.7
2	47.6	47.4
3	71.4	71.1
4	95.2	94.8
5	119.0	118.5
6	142.8	142.2
7	166.6	165.9
8	190.4	189.6
9	214.2	213.3

	236
1	23.6
2	47.2
3	70.8
4	94.4
5	118.0
6	141.6
7	165.2
8	188.8
9	212.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

72°.300 — 72°.250

17°.750 — 17°.800

17°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.484 1066		9.505 2891		0.494 7109	9.978 8175		.250	
		236		261			25		
751	9.484 1302		9.505 3152		0.494 6848	9.978 8150		249	
752	9.484 1539	237	9.505 3413	261	0.494 6587	9.978 8126	24	248	
753	9.484 1776	237	9.505 3674	261	0.494 6326	9.978 8102	24	247	
		237		261			24		
754	9.484 2013		9.505 3935		0.494 6065	9.978 8078		246	
755	9.484 2249	236	9.505 4196	261	0.494 5804	9.978 8053	25	245	
756	9.484 2486	237	9.505 4457	261	0.494 5543	9.978 8029	24	244	
		237		261			24		
757	9.484 2723		9.505 4718		0.494 5282	9.978 8005		243	
758	9.484 2960	237	9.505 4979	261	0.494 5021	9.978 7981	24	242	
759	9.484 3196	236	9.505 5240	261	0.494 4760	9.978 7956	25	241	
		237		261			24		
.760	9.484 3433		9.505 5501		0.494 4499	9.978 7932		.240	
		237		261			24		
761	9.484 3670		9.505 5762		0.494 4238	9.978 7908		239	
762	9.484 3906	236	9.505 6023	261	0.494 3977	9.978 7883	25	238	
763	9.484 4143	237	9.505 6284	261	0.494 3716	9.978 7859	24	237	
		236		261			24		
764	9.484 4379		9.505 6545		0.494 3455	9.978 7835		236	
765	9.484 4616	237	9.505 6805	260	0.494 3195	9.978 7811	24	235	
766	9.484 4853	237	9.505 7066	261	0.494 2934	9.978 7786	25	234	
		236		261			24		
767	9.484 5089		9.505 7327		0.494 2673	9.978 7762		233	
768	9.484 5326	237	9.505 7588	261	0.494 2412	9.978 7738	24	232	
769	9.484 5562	236	9.505 7849	261	0.494 2151	9.978 7713	25	231	
		237		261			24		
.770	9.484 5799		9.505 8110		0.494 1890	9.978 7689		.230	
		236		260			24		
771	9.484 6035		9.505 8370		0.494 1630	9.978 7665		229	
772	9.484 6272	237	9.505 8631	261	0.494 1369	9.978 7641	24	228	
773	9.484 6508	236	9.505 8892	261	0.494 1108	9.978 7616	25	227	
		237		261			24		
774	9.484 6745		9.505 9153		0.494 0847	9.978 7592		226	
775	9.484 6981	236	9.505 9413	260	0.494 0587	9.978 7568	24	225	
776	9.484 7218	237	9.505 9674	261	0.494 0326	9.978 7543	25	224	
		236		261			24		
777	9.484 7454		9.505 9935		0.494 0065	9.978 7519		223	
778	9.484 7690	236	9.506 0196	261	0.493 9804	9.978 7495	24	222	
779	9.484 7927	237	9.506 0456	260	0.493 9544	9.978 7470	25	221	
		236		261			24		
.780	9.484 8163		9.506 0717		0.493 9283	9.978 7446		.220	
		237		261			24		
781	9.484 8400		9.506 0978		0.493 9022	9.978 7422		219	
782	9.484 8636	236	9.506 1238	260	0.493 8762	9.978 7398	24	218	
783	9.484 8872	236	9.506 1499	261	0.493 8501	9.978 7373	25	217	
		237		261			24		
784	9.484 9109		9.506 1760		0.493 8240	9.978 7349		216	
785	9.484 9345	236	9.506 2020	260	0.493 7980	9.978 7325	24	215	
786	9.484 9581	236	9.506 2281	261	0.493 7719	9.978 7300	25	214	
		236		260			24		
787	9.484 9817		9.506 2541		0.493 7459	9.978 7276		213	
788	9.485 0054	237	9.506 2802	261	0.493 7198	9.978 7252	24	212	
789	9.485 0290	236	9.506 3063	261	0.493 6937	9.978 7227	25	211	
		236		260			24		
.790	9.485 0526		9.506 3323		0.493 6677	9.978 7203		.210	
		236		261			24		
791	9.485 0762		9.506 3584		0.493 6416	9.978 7179		209	
792	9.485 0999	237	9.506 3844	260	0.493 6156	9.978 7154	25	208	
793	9.485 1235	236	9.506 4105	261	0.493 5895	9.978 7130	24	207	
		236		260			24		
794	9.485 1471		9.506 4365		0.493 5635	9.978 7106		206	
795	9.485 1707	236	9.506 4626	261	0.493 5374	9.978 7081	25	205	
796	9.485 1943	236	9.506 4886	260	0.493 5114	9.978 7057	24	204	
		236		261			24		
797	9.485 2179		9.506 5147		0.493 4853	9.978 7033		203	
798	9.485 2415	236	9.506 5407	260	0.493 4593	9.978 7008	25	202	
799	9.485 2652	237	9.506 5668	261	0.493 4332	9.978 6984	24	201	
		236		260			24		
.800	9.485 2888		9.506 5928		0.493 4072	9.978 6960		.200	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	261	260
1	26.1	26.0
2	52.2	52.0
3	78.3	78.0
4	104.4	104.0
5	130.5	130.0
6	156.6	156.0
7	182.7	182.0
8	208.8	208.0
9	234.9	234.0

	237
1	23.7
2	47.4
3	71.1
4	94.8
5	118.5
6	142.2
7	165.9
8	189.6
9	213.3

	236
1	23.6
2	47.2
3	70.8
4	94.4
5	118.0
6	141.6
7	165.2
8	188.8
9	212.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

72°.250 — 72°.200

17°.800 — 17°.850

17°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.485 2888		9.506 5928		0.493 4072	9.978 6960		.200	
		236		260			25		
801	9.485 3124		9.506 6188		0.493 3812	9.978 6935		199	
802	9.485 3360	236	9.506 6449	261	0.493 3551	9.978 6911	24	198	
803	9.485 3596	236	9.506 6709	260	0.493 3291	9.978 6887	24	197	
		236		261			25		
804	9.485 3832		9.506 6970		0.493 3030	9.978 6862		196	
805	9.485 4068	236	9.506 7230	260	0.493 2770	9.978 6838	24	195	
806	9.485 4304	236	9.506 7490	260	0.493 2510	9.978 6814	24	194	
		236		261			25		
807	9.485 4540		9.506 7751		0.493 2249	9.978 6789		193	
808	9.485 4776	236	9.506 8011	260	0.493 1989	9.978 6765	24	192	
809	9.485 5012	236	9.506 8271	260	0.493 1729	9.978 6741	24	191	
		236		261			25		
.810	9.485 5248		9.506 8532		0.493 1468	9.978 6716		.190	
		236		260			24		
811	9.485 5484		9.506 8792		0.493 1208	9.978 6692		189	
812	9.485 5720	236	9.506 9052	260	0.493 0948	9.978 6668	24	188	
813	9.485 5956	236	9.506 9312	260	0.493 0688	9.978 6643	25	187	
		235		261			24		
814	9.485 6191		9.506 9573		0.493 0427	9.978 6619		186	
815	9.485 6427	236	9.506 9833	260	0.493 0167	9.978 6595	24	185	
816	9.485 6663	236	9.507 0093	260	0.492 9907	9.978 6570	25	184	
		236		260			24		
817	9.485 6899		9.507 0353		0.492 9647	9.978 6546		183	
818	9.485 7135	236	9.507 0613	260	0.492 9387	9.978 6521	25	182	
819	9.485 7371	236	9.507 0874	261	0.492 9126	9.978 6497	24	181	
		236		260			24		
.820	9.485 7607		9.507 1134		0.492 8866	9.978 6473		.180	
		235		260			25		
821	9.485 7842		9.507 1394		0.492 8606	9.978 6448		179	
822	9.485 8078	236	9.507 1654	260	0.492 8346	9.978 6424	24	178	
823	9.485 8314	236	9.507 1914	260	0.492 8086	9.978 6400	24	177	
		236		260			25		
824	9.485 8550		9.507 2174		0.492 7826	9.978 6375		176	
825	9.485 8785	235	9.507 2435	261	0.492 7565	9.978 6351	24	175	
826	9.485 9021	236	9.507 2695	260	0.492 7305	9.978 6326	25	174	
		236		260			24		
827	9.485 9257		9.507 2955		0.492 7045	9.978 6302		173	
828	9.485 9493	236	9.507 3215	260	0.492 6785	9.978 6278	24	172	
829	9.485 9728	235	9.507 3475	260	0.492 6525	9.978 6253	25	171	
		236		260			24		
.830	9.485 9964		9.507 3735		0.492 6265	9.978 6229		.170	
		236		260			24		
831	9.486 0200		9.507 3995		0.492 6005	9.978 6205		169	
832	9.486 0435	235	9.507 4255	260	0.492 5745	9.978 6180	25	168	
833	9.486 0671	236	9.507 4515	260	0.492 5485	9.978 6156	24	167	
		235		260			25		
834	9.486 0906		9.507 4775		0.492 5225	9.978 6131		166	
835	9.486 1142	236	9.507 5035	260	0.492 4965	9.978 6107	24	165	
836	9.486 1378	236	9.507 5295	260	0.492 4705	9.978 6083	24	164	
		235		260			25		
837	9.486 1613		9.507 5555		0.492 4445	9.978 6058		163	
838	9.486 1849	236	9.507 5815	260	0.492 4185	9.978 6034	24	162	
839	9.486 2084	235	9.507 6075	260	0.492 3925	9.978 6009	25	161	
		236		260			24		
.840	9.486 2320		9.507 6335		0.492 3665	9.978 5985		.160	
		235		260			24		
841	9.486 2555		9.507 6595		0.492 3405	9.978 5961		159	
842	9.486 2791	236	9.507 6854	259	0.492 3146	9.978 5936	25	158	
843	9.486 3026	235	9.507 7114	260	0.492 2886	9.978 5912	24	157	
		236		260			24		
844	9.486 3262		9.507 7374		0.492 2626	9.978 5888		156	
845	9.486 3497	235	9.507 7634	260	0.492 2366	9.978 5863	25	155	
846	9.486 3733	236	9.507 7894	260	0.492 2106	9.978 5839	24	154	
		235		260			25		
847	9.486 3968		9.507 8154		0.492 1846	9.978 5814		153	
848	9.486 4203	235	9.507 8414	260	0.492 1586	9.978 5790	24	152	
849	9.486 4439	236	9.507 8673	259	0.492 1327	9.978 5765	25	151	
		235		260			24		
.850	9.486 4674		9.507 8933		0.492 1067	9.978 5741		.150	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

72°.200 — 72°.150

	261	260
1	26.1	26.0
2	52.2	52.0
3	78.3	78.0
4	104.4	104.0
5	130.5	130.0
6	156.6	156.0
7	182.7	182.0
8	208.8	208.0
9	234.9	234.0

	259
1	25.9
2	51.8
3	77.7
4	103.6
5	129.5
6	155.4
7	181.3
8	207.2
9	233.1

	236	235
1	23.6	23.5
2	47.2	47.0
3	70.8	70.5
4	94.4	94.0
5	118.0	117.5
6	141.6	141.0
7	165.2	164.5
8	188.8	188.0
9	212.4	211.5

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

17°.850 — 17°.900

17°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.486 4674		9.507 8933		0.492 1067	9.978 5741		.150	
		236		260			24		
851	9.486 4910		9.507 9193		0.492 0807	9.978 5717		149	
852	9.486 5145	235	9.507 9453	260	0.492 0547	9.978 5692	25	148	
853	9.486 5380	235	9.507 9713	260	0.492 0287	9.978 5668	24	147	
		236		259			25		
854	9.486 5616		9.507 9972		0.492 0028	9.978 5643		146	
855	9.486 5851	235	9.508 0232	260	0.491 9768	9.978 5619	24	145	
856	9.486 6086	235	9.508 0492	260	0.491 9508	9.978 5595	24	144	
		236		259			25		
857	9.486 6322		9.508 0751		0.491 9249	9.978 5570		143	
858	9.486 6557	235	9.508 1011	260	0.491 8989	9.978 5546	24	142	
859	9.486 6792	235	9.508 1271	260	0.491 8729	9.978 5521	25	141	
		235		259			24		
.860	9.486 7027		9.508 1530		0.491 8470	9.978 5497		.140	
		236		260			25		
861	9.486 7263		9.508 1790		0.491 8210	9.978 5472		139	
862	9.486 7498	235	9.508 2050	260	0.491 7950	9.978 5448	24	138	
863	9.486 7733	235	9.508 2309	259	0.491 7691	9.978 5424	24	137	
		235		260			25		
864	9.486 7968		9.508 2569		0.491 7431	9.978 5399		136	
865	9.486 8203	235	9.508 2829	260	0.491 7171	9.978 5375	24	135	
866	9.486 8439	236	9.508 3088	259	0.491 6912	9.978 5350	25	134	
		235		260			24		
867	9.486 8674		9.508 3348		0.491 6652	9.978 5326		133	
868	9.486 8909	235	9.508 3607	259	0.491 6393	9.978 5301	25	132	
869	9.486 9144	235	9.508 3867	260	0.491 6133	9.978 5277	24	131	
		235		259			24		
.870	9.486 9379		9.508 4126		0.491 5874	9.978 5253		.130	
		235		260			25		
871	9.486 9614		9.508 4386		0.491 5614	9.978 5228		129	
872	9.486 9849	235	9.508 4646	260	0.491 5354	9.978 5204	24	128	
873	9.487 0084	235	9.508 4905	259	0.491 5095	9.978 5179	25	127	
		235		259			24		
874	9.487 0319		9.508 5164		0.491 4836	9.978 5155		126	
875	9.487 0554	235	9.508 5424	260	0.491 4576	9.978 5130	25	125	
876	9.487 0789	235	9.508 5683	259	0.491 4317	9.978 5106	24	124	
		235		260			24		
877	9.487 1024		9.508 5943		0.491 4057	9.978 5082		123	
878	9.487 1259	235	9.508 6202	259	0.491 3798	9.978 5057	25	122	
879	9.487 1494	235	9.508 6462	260	0.491 3538	9.978 5033	24	121	
		235		259			25		
.880	9.487 1729		9.508 6721		0.491 3279	9.978 5008		.120	
		235		260			24		
881	9.487 1964		9.508 6981		0.491 3019	9.978 4984		119	
882	9.487 2199	235	9.508 7240	259	0.491 2760	9.978 4959	25	118	
883	9.487 2434	235	9.508 7499	259	0.491 2501	9.978 4935	24	117	
		235		260			25		
884	9.487 2669		9.508 7759		0.491 2241	9.978 4910		116	
885	9.487 2904	235	9.508 8018	259	0.491 1982	9.978 4886	24	115	
886	9.487 3139	235	9.508 8277	259	0.491 1723	9.978 4861	25	114	
		235		260			24		
887	9.487 3374		9.508 8537		0.491 1463	9.978 4837		113	
888	9.487 3609	235	9.508 8796	259	0.491 1204	9.978 4812	25	112	
889	9.487 3843	234	9.508 9055	259	0.491 0945	9.978 4788	24	111	
		235		260			24		
.890	9.487 4078		9.508 9315		0.491 0685	9.978 4764		.110	
		235		259			25		
891	9.487 4313		9.508 9574		0.491 0426	9.978 4739		109	
892	9.487 4548	235	9.508 9833	259	0.491 0167	9.978 4715	24	108	
893	9.487 4783	235	9.509 0092	259	0.490 9908	9.978 4690	25	107	
		234		260			24		
894	9.487 5017		9.509 0352		0.490 9648	9.978 4666		106	
895	9.487 5252	235	9.509 0611	259	0.490 9389	9.978 4641	25	105	
896	9.487 5487	235	9.509 0870	259	0.490 9130	9.978 4617	24	104	
		235		259			25		
897	9.487 5722		9.509 1129		0.490 8871	9.978 4592		103	
898	9.487 5956	234	9.509 1389	260	0.490 8611	9.978 4568	24	102	
899	9.487 6191	235	9.509 1648	259	0.490 8352	9.978 4543	25	101	
		235		259			24		
.900	9.487 6426		9.509 1907		0.490 8093	9.978 4519		.100	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	260	259
1	26.0	25.9
2	52.0	51.8
3	78.0	77.7
4	104.0	103.6
5	130.0	129.5
6	156.0	155.4
7	182.0	181.3
8	208.0	207.2
9	234.0	233.1

	236	235
1	23.6	23.5
2	47.2	47.0
3	70.8	70.5
4	94.4	94.0
5	118.0	117.5
6	141.6	141.0
7	165.2	164.5
8	188.8	188.0
9	212.4	211.5

	234
1	23.4
2	46.8
3	70.2
4	93.6
5	117.0
6	140.4
7	163.8
8	187.2
9	210.6

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

72°.150 — 72°.100

17°.900 — 17°.950

17°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.487 6426		9.509 1907		0.490 8093	9.978 4519		.100	
		234		259			25		
901	9.487 6660		9.509 2166		0.490 7834	9.978 4494		099	
902	9.487 6895	235	9.509 2425	259	0.490 7575	9.978 4470	24	098	
903	9.487 7130	235	9.509 2684	259	0.490 7316	9.978 4445	25	097	
		234		259			24		
904	9.487 7364		9.509 2943		0.490 7057	9.978 4421		096	
905	9.487 7599	235	9.509 3203	260	0.490 6797	9.978 4396	25	095	
906	9.487 7833	234	9.509 3462	259	0.490 6538	9.978 4372	24	094	
		235		259			25		
907	9.487 8068		9.509 3721		0.490 6279	9.978 4347		093	
908	9.487 8303	235	9.509 3980	259	0.490 6020	9.978 4323	24	092	
909	9.487 8537	234	9.509 4239	259	0.490 5761	9.978 4298	25	091	
		235		259			24		
.910	9.487 8772		9.509 4498		0.490 5502	9.978 4274		.090	
		234		259			25		
911	9.487 9006		9.509 4757		0.490 5243	9.978 4249		089	
912	9.487 9241	235	9.509 5016	259	0.490 4984	9.978 4225	24	088	
913	9.487 9475	234	9.509 5275	259	0.490 4725	9.978 4200	25	087	
		235		259			24		
914	9.487 9710		9.509 5534		0.490 4466	9.978 4176		086	
915	9.487 9944	234	9.509 5793	259	0.490 4207	9.978 4151	25	085	
916	9.488 0179	235	9.509 6052	259	0.490 3948	9.978 4127	24	084	
		234		259			25		
917	9.488 0413		9.509 6311		0.490 3689	9.978 4102		083	
918	9.488 0648	235	9.509 6570	259	0.490 3430	9.978 4078	24	082	
919	9.488 0882	234	9.509 6829	259	0.490 3171	9.978 4053	25	081	
		234		259			24		
.920	9.488 1116		9.509 7088		0.490 2912	9.978 4029		.080	
		235		258			25		
921	9.488 1351		9.509 7346		0.490 2654	9.978 4004		079	
922	9.488 1585	234	9.509 7605	259	0.490 2395	9.978 3980	24	078	
923	9.488 1820	235	9.509 7864	259	0.490 2136	9.978 3955	25	077	
		234		259			24		
924	9.488 2054		9.509 8123		0.490 1877	9.978 3931		076	
925	9.488 2288	234	9.509 8382	259	0.490 1618	9.978 3906	25	075	
926	9.488 2523	235	9.509 8641	259	0.490 1359	9.978 3882	24	074	
		234		259			25		
927	9.488 2757		9.509 8900		0.490 1100	9.978 3857		073	
928	9.488 2991	234	9.509 9158	258	0.490 0842	9.978 3833	24	072	
929	9.488 3225	234	9.509 9417	259	0.490 0583	9.978 3808	25	071	
		235		259			24		
.930	9.488 3460		9.509 9676		0.490 0324	9.978 3784		.070	
		234		259			25		
931	9.488 3694		9.509 9935		0.490 0065	9.978 3759		069	
932	9.488 3928	234	9.510 0194	259	0.489 9806	9.978 3735	24	068	
933	9.488 4162	234	9.510 0452	258	0.489 9548	9.978 3710	25	067	
		235		259			24		
934	9.488 4397		9.510 0711		0.489 9289	9.978 3686		066	
935	9.488 4631	234	9.510 0970	259	0.489 9030	9.978 3661	25	065	
936	9.488 4865	234	9.510 1229	259	0.489 8771	9.978 3636	25	064	
		234		258			24		
937	9.488 5099		9.510 1487		0.489 8513	9.978 3612		063	
938	9.488 5333	234	9.510 1746	259	0.489 8254	9.978 3587	25	062	
939	9.488 5567	234	9.510 2005	259	0.489 7995	9.978 3563	24	061	
		235		258			25		
.940	9.488 5802		9.510 2263		0.489 7737	9.978 3538		.060	
		234		259			24		
941	9.488 6036		9.510 2522		0.489 7478	9.978 3514		059	
942	9.488 6270	234	9.510 2781	259	0.489 7219	9.978 3489	25	058	
943	9.488 6504	234	9.510 3039	258	0.489 6961	9.978 3465	24	057	
		234		259			25		
944	9.488 6738		9.510 3298		0.489 6702	9.978 3440		056	
945	9.488 6972	234	9.510 3556	258	0.489 6444	9.978 3416	24	055	
946	9.488 7206	234	9.510 3815	259	0.489 6185	9.978 3391	25	054	
		234		259			24		
947	9.488 7440		9.510 4074		0.489 5926	9.978 3367		053	
948	9.488 7674	234	9.510 4332	258	0.489 5668	9.978 3342	25	052	
949	9.488 7908	234	9.510 4591	259	0.489 5409	9.978 3317	25	051	
		234		258			24		
.950	9.488 8142		9.510 4849		0.489 5151	9.978 3293		.050	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

72°.100 — 72°.050

	260	259
1	26.0	25.9
2	52.0	51.8
3	78.0	77.7
4	104.0	103.6
5	130.0	129.5
6	156.0	155.4
7	182.0	181.3
8	208.0	207.2
9	234.0	233.1

	258
1	25.8
2	51.6
3	77.4
4	103.2
5	129.0
6	154.8
7	180.6
8	206.4
9	232.2

	235	234
1	23.5	23.4
2	47.0	46.8
3	70.5	70.2
4	94.0	93.6
5	117.5	117.0
6	141.0	140.4
7	164.5	163.8
8	188.0	187.2
9	211.5	210.6

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

17°.950 — 18°.000

17°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.488 8142		9.510 4849		0.489 5151	9.978 3293		.050	
		234		259			25		
951	9.488 8376		9.510 5108		0.489 4892	9.978 3268		049	
952	9.488 8610	234	9.510 5366	258	0.489 4634	9.978 3244	24	048	
953	9.488 8844	234	9.510 5625	259	0.489 4375	9.978 3219	25	047	
		234		258			24		
954	9.488 9078		9.510 5883		0.489 4117	9.978 3195		046	
955	9.488 9312	234	9.510 6142	259	0.489 3858	9.978 3170	25	045	
956	9.488 9546	234	9.510 6400	258	0.489 3600	9.978 3145	25	044	
		234		259			24		
957	9.488 9780		9.510 6659		0.489 3341	9.978 3121		043	
958	9.489 0013	233	9.510 6917	258	0.489 3083	9.978 3096	25	042	
959	9.489 0247	234	9.510 7176	259	0.489 2824	9.978 3072	24	041	
		234		258			25		
.960	9.489 0481		9.510 7434		0.489 2566	9.978 3047		.040	
		234		258			24		
961	9.489 0715		9.510 7692		0.489 2308	9.978 3023		039	
962	9.489 0949	234	9.510 7951	259	0.489 2049	9.978 2998	25	038	
963	9.489 1183	234	9.510 8209	258	0.489 1791	9.978 2974	24	037	
		233		258			25		
964	9.489 1416		9.510 8467		0.489 1533	9.978 2949		036	
965	9.489 1650	234	9.510 8726	259	0.489 1274	9.978 2924	25	035	
966	9.489 1884	234	9.510 8984	258	0.489 1016	9.978 2900	24	034	
		234		259			25		
967	9.489 2118		9.510 9243		0.489 0757	9.978 2875		033	
968	9.489 2351	233	9.510 9501	258	0.489 0499	9.978 2851	24	032	
969	9.489 2585	234	9.510 9759	258	0.489 0241	9.978 2826	25	031	
		234		258			25		
.970	9.489 2819		9.511 0017		0.488 9983	9.978 2801		.030	
		234		259			24		
971	9.489 3053		9.511 0276		0.488 9724	9.978 2777		029	
972	9.489 3286	233	9.511 0534	258	0.488 9466	9.978 2752	25	028	
973	9.489 3520	234	9.511 0792	258	0.488 9208	9.978 2728	24	027	
		234		258			25		
974	9.489 3754		9.511 1050		0.488 8950	9.978 2703		026	
975	9.489 3987	233	9.511 1309	259	0.488 8691	9.978 2679	24	025	
976	9.489 4221	234	9.511 1567	258	0.488 8433	9.978 2654	25	024	
		233		258			25		
977	9.489 4454		9.511 1825		0.488 8175	9.978 2629		023	
978	9.489 4688	234	9.511 2083	258	0.488 7917	9.978 2605	24	022	
979	9.489 4922	234	9.511 2341	258	0.488 7659	9.978 2580	25	021	
		233		259			24		
.980	9.489 5155		9.511 2600		0.488 7400	9.978 2556		.020	
		234		258			25		
981	9.489 5389		9.511 2858		0.488 7142	9.978 2531		019	
982	9.489 5622	233	9.511 3116	258	0.488 6884	9.978 2506	25	018	
983	9.489 5856	234	9.511 3374	258	0.488 6626	9.978 2482	24	017	
		233		258			25		
984	9.489 6089		9.511 3632		0.488 6368	9.978 2457		016	
985	9.489 6323	234	9.511 3890	258	0.488 6110	9.978 2433	24	015	
986	9.489 6556	233	9.511 4148	258	0.488 5852	9.978 2408	25	014	
		234		258			25		
987	9.489 6790		9.511 4406		0.488 5594	9.978 2383		013	
988	9.489 7023	233	9.511 4665	259	0.488 5335	9.978 2359	24	012	
989	9.489 7257	234	9.511 4923	258	0.488 5077	9.978 2334	25	011	
		233		258			25		
.990	9.489 7490		9.511 5181		0.488 4819	9.978 2309		.010	
		234		258			24		
991	9.489 7724		9.511 5439		0.488 4561	9.978 2285		009	
992	9.489 7957	233	9.511 5697	258	0.488 4303	9.978 2260	25	008	
993	9.489 8190	233	9.511 5955	258	0.488 4045	9.978 2236	24	007	
		234		258			25		
994	9.489 8424		9.511 6213		0.488 3787	9.978 2211		006	
995	9.489 8657	233	9.511 6471	258	0.488 3529	9.978 2186	25	005	
996	9.489 8890	233	9.511 6729	258	0.488 3271	9.978 2162	24	004	
		234		258			25		
997	9.489 9124		9.511 6987		0.488 3013	9.978 2137		003	
998	9.489 9357	233	9.511 7245	258	0.488 2755	9.978 2113	24	002	
999	9.489 9590	233	9.511 7502	257	0.488 2498	9.978 2088	25	001	
		234		258			25		
*.000	9.489 9824		9.511 7760		0.488 2240	9.978 2063		.000	
	cos	d	cotg	d	tang	sin	d	72°	P.P.

	259	258
1	25.9	25.8
2	51.8	51.6
3	77.7	77.4
4	103.6	103.2
5	129.5	129.0
6	155.4	154.8
7	181.3	180.6
8	207.2	206.4
9	233.1	232.2

	257
1	25.7
2	51.4
3	77.1
4	102.8
5	128.5
6	154.2
7	179.9
8	205.6
9	231.3

	234	233
1	23.4	23.3
2	46.8	46.6
3	70.2	69.9
4	93.6	93.2
5	117.0	116.5
6	140.4	139.8
7	163.8	163.1
8	187.2	186.4
9	210.6	209.7

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

72°.050 — 72°.000

18°.000 — 18°.050

18°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.489 9824		9.511 7760		0.488 2240	9.978 2063		*000	
		233		258			24		
001	9.490 0057		9.511 8018		0.488 1982	9.978 2039		999	
002	9.490 0290	233	9.511 8276	258	0.488 1724	9.978 2014	25	998	
003	9.490 0523	233	9.511 8534	258	0.488 1466	9.978 1989	25	997	
		234		258			24		
004	9.490 0757		9.511 8792		0.488 1208	9.978 1965		996	
005	9.490 0990	233	9.511 9050	258	0.488 0950	9.978 1940	25	995	
006	9.490 1223	233	9.511 9308	258	0.488 0692	9.978 1915	25	994	
		233		257			24		
007	9.490 1456		9.511 9565		0.488 0435	9.978 1891		993	
008	9.490 1689	233	9.511 9823	258	0.488 0177	9.978 1866	25	992	
009	9.490 1923	234	9.512 0081	258	0.487 9919	9.978 1842	24	991	
		233		258			25		
.010	9.490 2156		9.512 0339		0.487 9661	9.978 1817		.990	
		233		258			25		
011	9.490 2389		9.512 0597		0.487 9403	9.978 1792		989	
012	9.490 2622	233	9.512 0854	257	0.487 9146	9.978 1768	24	988	
013	9.490 2855	233	9.512 1112	258	0.487 8888	9.978 1743	25	987	
		233		258			25		
014	9.490 3088		9.512 1370		0.487 8630	9.978 1718		986	
015	9.490 3321	233	9.512 1628	258	0.487 8372	9.978 1694	24	985	
016	9.490 3554	233	9.512 1885	257	0.487 8115	9.978 1669	25	984	
		233		258			25		
017	9.490 3787		9.512 2143		0.487 7857	9.978 1644		983	
018	9.490 4021	234	9.512 2401	258	0.487 7599	9.978 1620	24	982	
019	9.490 4254	233	9.512 2658	257	0.487 7342	9.978 1595	25	981	
		233		258			25		
.020	9.490 4487		9.512 2916		0.487 7084	9.978 1570		.980	
		233		258			24		
021	9.490 4720		9.512 3174		0.487 6826	9.978 1546		979	
022	9.490 4953	233	9.512 3431	257	0.487 6569	9.978 1521	25	978	
023	9.490 5186	233	9.512 3689	258	0.487 6311	9.978 1496	25	977	
		232		258			24		
024	9.490 5418		9.512 3947		0.487 6053	9.978 1472		976	
025	9.490 5651	233	9.512 4204	257	0.487 5796	9.978 1447	25	975	
026	9.490 5884	233	9.512 4462	258	0.487 5538	9.978 1422	25	974	
		233		258			24		
027	9.490 6117		9.512 4720		0.487 5280	9.978 1398		973	
028	9.490 6350	233	9.512 4977	257	0.487 5023	9.978 1373	25	972	
029	9.490 6583	233	9.512 5235	258	0.487 4765	9.978 1348	25	971	
		233		257			24		
.030	9.490 6816		9.512 5492		0.487 4508	9.978 1324		.970	
		233		258			25		
031	9.490 7049		9.512 5750		0.487 4250	9.978 1299		969	
032	9.490 7282	233	9.512 6007	257	0.487 3993	9.978 1274	25	968	
033	9.490 7514	232	9.512 6265	258	0.487 3735	9.978 1250	24	967	
		233		257			25		
034	9.490 7747		9.512 6522		0.487 3478	9.978 1225		966	
035	9.490 7980	233	9.512 6780	258	0.487 3220	9.978 1200	25	965	
036	9.490 8213	233	9.512 7037	257	0.487 2963	9.978 1176	24	964	
		233		258			25		
037	9.490 8446		9.512 7295		0.487 2705	9.978 1151		963	
038	9.490 8678	232	9.512 7552	257	0.487 2448	9.978 1126	25	962	
039	9.490 8911	233	9.512 7810	258	0.487 2190	9.978 1102	24	961	
		233		257			25		
.040	9.490 9144		9.512 8067		0.487 1933	9.978 1077		.960	
		233		257			25		
041	9.490 9377		9.512 8324		0.487 1676	9.978 1052		959	
042	9.490 9609	232	9.512 8582	258	0.487 1418	9.978 1028	24	958	
043	9.490 9842	233	9.512 8839	257	0.487 1161	9.978 1003	25	957	
		233		258			25		
044	9.491 0075		9.512 9097		0.487 0903	9.978 0978		956	
045	9.491 0307	232	9.512 9354	257	0.487 0646	9.978 0953	25	955	
046	9.491 0540	233	9.512 9611	257	0.487 0389	9.978 0929	24	954	
		233		258			25		
047	9.491 0773		9.512 9869		0.487 0131	9.978 0904		953	
048	9.491 1005	232	9.513 0126	257	0.486 9874	9.978 0879	25	952	
049	9.491 1238	233	9.513 0383	257	0.486 9617	9.978 0855	24	951	
		233		258			25		
.050	9.491 1471		9.513 0641		0.486 9359	9.978 0830		.950	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	258	257
1	25.8	25.7
2	51.6	51.4
3	77.4	77.1
4	103.2	102.8
5	129.0	128.5
6	154.8	154.2
7	180.6	179.9
8	206.4	205.6
9	232.2	231.3

	234	233
1	23.4	23.3
2	46.8	46.6
3	70.2	69.9
4	93.6	93.2
5	117.0	116.5
6	140.4	139.8
7	163.8	163.1
8	187.2	186.4
9	210.6	209.7

	232
1	23.2
2	46.4
3	69.6
4	92.8
5	116.0
6	139.2
7	162.4
8	185.6
9	208.8

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

72°.000 — 71°.950

18°.050 — 18°.100

18°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.491 1471		9.513 0641		0.486 9359	9.978 0830		.950	
		232		257			25		
051	9.491 1703		9.513 0898		0.486 9102	9.978 0805		949	
052	9.491 1936	233	9.513 1155	257	0.486 8845	9.978 0781	24	948	
053	9.491 2168	232	9.513 1412	257	0.486 8588	9.978 0756	25	947	
		233		258			25		
054	9.491 2401		9.513 1670		0.486 8330	9.978 0731		946	
055	9.491 2633	232	9.513 1927	257	0.486 8073	9.978 0706	25	945	
056	9.491 2866	233	9.513 2184	257	0.486 7816	9.978 0682	24	944	
		232		257			25		
057	9.491 3098		9.513 2441		0.486 7559	9.978 0657		943	
058	9.491 3331	233	9.513 2699	258	0.486 7301	9.978 0632	25	942	
059	9.491 3563	232	9.513 2956	257	0.486 7044	9.978 0608	24	941	
		233		257			25		
.060	9.491 3796		9.513 3213		0.486 6787	9.978 0583		.940	
		232		257			25		
061	9.491 4028		9.513 3470		0.486 6530	9.978 0558		939	
062	9.491 4261	233	9.513 3727	257	0.486 6273	9.978 0533	25	938	
063	9.491 4493	232	9.513 3984	257	0.486 6016	9.978 0509	24	937	
		233		257			25		
064	9.491 4726		9.513 4241		0.486 5759	9.978 0484		936	
065	9.491 4958	232	9.513 4499	258	0.486 5501	9.978 0459	25	935	
066	9.491 5190	232	9.513 4756	257	0.486 5244	9.978 0435	24	934	
		233		257			25		
067	9.491 5423		9.513 5013		0.486 4987	9.978 0410		933	
068	9.491 5655	232	9.513 5270	257	0.486 4730	9.978 0385	25	932	
069	9.491 5887	232	9.513 5527	257	0.486 4473	9.978 0360	25	931	
		233		257			24		
.070	9.491 6120		9.513 5784		0.486 4216	9.978 0336		.930	
		232		257			25		
071	9.491 6352		9.513 6041		0.486 3959	9.978 0311		929	
072	9.491 6584	232	9.513 6298	257	0.486 3702	9.978 0286	25	928	
073	9.491 6817	233	9.513 6555	257	0.486 3445	9.978 0261	25	927	
		232		257			24		
074	9.491 7049		9.513 6812		0.486 3188	9.978 0237		926	
075	9.491 7281	232	9.513 7069	257	0.486 2931	9.978 0212	25	925	
076	9.491 7513	232	9.513 7326	257	0.486 2674	9.978 0187	25	924	
		233		257			24		
077	9.491 7746		9.513 7583		0.486 2417	9.978 0163		923	
078	9.491 7978	232	9.513 7840	257	0.486 2160	9.978 0138	25	922	
079	9.491 8210	232	9.513 8097	257	0.486 1903	9.978 0113	25	921	
		232		257			25		
.080	9.491 8442		9.513 8354		0.486 1646	9.978 0088		.920	
		232		257			24		
081	9.491 8674		9.513 8611		0.486 1389	9.978 0064		919	
082	9.491 8907	233	9.513 8868	257	0.486 1132	9.978 0039	25	918	
083	9.491 9139	232	9.513 9125	257	0.486 0875	9.978 0014	25	917	
		232		256			25		
084	9.491 9371		9.513 9381		0.486 0619	9.977 9989		916	
085	9.491 9603	232	9.513 9638	257	0.486 0362	9.977 9965	24	915	
086	9.491 9835	232	9.513 9895	257	0.486 0105	9.977 9940	25	914	
		232		257			25		
087	9.492 0067		9.514 0152		0.485 9848	9.977 9915		913	
088	9.492 0299	232	9.514 0409	257	0.485 9591	9.977 9890	25	912	
089	9.492 0531	232	9.514 0666	257	0.485 9334	9.977 9866	24	911	
		232		257			25		
.090	9.492 0763		9.514 0923		0.485 9077	9.977 9841		.910	
		232		256			25		
091	9.492 0995		9.514 1179		0.485 8821	9.977 9816		909	
092	9.492 1227	232	9.514 1436	257	0.485 8564	9.977 9791	25	908	
093	9.492 1459	232	9.514 1693	257	0.485 8307	9.977 9766	25	907	
		232		257			24		
094	9.492 1691		9.514 1950		0.485 8050	9.977 9742		906	
095	9.492 1923	232	9.514 2206	256	0.485 7794	9.977 9717	25	905	
096	9.492 2155	232	9.514 2463	257	0.485 7537	9.977 9692	25	904	
		232		257			25		
097	9.492 2387		9.514 2720		0.485 7280	9.977 9667		903	
098	9.492 2619	232	9.514 2977	257	0.485 7023	9.977 9643	24	902	
099	9.492 2851	232	9.514 3233	256	0.485 6767	9.977 9618	25	901	
		232		257			25		
.100	9.492 3083		9.514 3490		0.485 6510	9.977 9593		.900	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	258	257
1	25.8	25.7
2	51.6	51.4
3	77.4	77.1
4	103.2	102.8
5	129.0	128.5
6	154.8	154.2
7	180.6	179.9
8	206.4	205.6
9	232.2	231.3

	256
1	25.6
2	51.2
3	76.8
4	102.4
5	128.0
6	153.6
7	179.2
8	204.8
9	230.4

	233	232
1	23.3	23.2
2	46.6	46.4
3	69.9	69.6
4	93.2	92.8
5	116.5	116.0
6	139.8	139.2
7	163.1	162.4
8	186.4	185.6
9	209.7	208.8

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

71°.950 — 71°.900

18°.100 — 18°.150

18°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.492 3083		9.514 3490		0.485 6510	9.977 9593		.900	
		232		257			25		
101	9.492 3315		9.514 3747		0.485 6253	9.977 9568		899	
102	9.492 3547	232	9.514 4003	256	0.485 5997	9.977 9544	24	898	
103	9.492 3779	232	9.514 4260	257	0.485 5740	9.977 9519	25	897	
		232		257			25		
104	9.492 4011		9.514 4517		0.485 5483	9.977 9494		896	
105	9.492 4242	231	9.514 4773	256	0.485 5227	9.977 9469	25	895	
106	9.492 4474	232	9.514 5030	257	0.485 4970	9.977 9444	25	894	
		232		256			24		
107	9.492 4706		9.514 5286		0.485 4714	9.977 9420		893	
108	9.492 4938	232	9.514 5543	257	0.485 4457	9.977 9395	25	892	
109	9.492 5170	232	9.514 5800	257	0.485 4200	9.977 9370	25	891	
		231		256			25		
.110	9.492 5401		9.514 6056		0.485 3944	9.977 9345		.890	
		232		257			25		
111	9.492 5633		9.514 6313		0.485 3687	9.977 9320		889	
112	9.492 5865	232	9.514 6569	256	0.485 3431	9.977 9296	24	888	
113	9.492 6097	232	9.514 6826	257	0.485 3174	9.977 9271	25	887	
		231		256			25		
114	9.492 6328		9.514 7082		0.485 2918	9.977 9246		886	
115	9.492 6560	232	9.514 7339	257	0.485 2661	9.977 9221	25	885	
116	9.492 6792	232	9.514 7595	256	0.485 2405	9.977 9197	24	884	
		231		257			25		
117	9.492 7023		9.514 7852		0.485 2148	9.977 9172		883	
118	9.492 7255	232	9.514 8108	256	0.485 1892	9.977 9147	25	882	
119	9.492 7487	232	9.514 8365	257	0.485 1635	9.977 9122	25	881	
		231		256			25		
.120	9.492 7718		9.514 8621		0.485 1379	9.977 9097		.880	
		232		257			25		
121	9.492 7950		9.514 8878		0.485 1122	9.977 9072		879	
122	9.492 8182	232	9.514 9134	256	0.485 0866	9.977 9048	24	878	
123	9.492 8413	231	9.514 9390	256	0.485 0610	9.977 9023	25	877	
		232		257			25		
124	9.492 8645		9.514 9647		0.485 0353	9.977 8998		876	
125	9.492 8876	231	9.514 9903	256	0.485 0097	9.977 8973	25	875	
126	9.492 9108	232	9.515 0160	257	0.484 9840	9.977 8948	25	874	
		232		256			24		
127	9.492 9340		9.515 0416		0.484 9584	9.977 8924		873	
128	9.492 9571	231	9.515 0672	256	0.484 9328	9.977 8899	25	872	
129	9.492 9803	232	9.515 0929	257	0.484 9071	9.977 8874	25	871	
		231		256			25		
.130	9.493 0034		9.515 1185		0.484 8815	9.977 8849		.870	
		232		256			25		
131	9.493 0266		9.515 1441		0.484 8559	9.977 8824		869	
132	9.493 0497	231	9.515 1698	257	0.484 8302	9.977 8800	24	868	
133	9.493 0729	232	9.515 1954	256	0.484 8046	9.977 8775	25	867	
		231		256			25		
134	9.493 0960		9.515 2210		0.484 7790	9.977 8750		866	
135	9.493 1191	231	9.515 2466	256	0.484 7534	9.977 8725	25	865	
136	9.493 1423	232	9.515 2723	257	0.484 7277	9.977 8700	25	864	
		231		256			25		
137	9.493 1654		9.515 2979		0.484 7021	9.977 8675		863	
138	9.493 1886	232	9.515 3235	256	0.484 6765	9.977 8651	24	862	
139	9.493 2117	231	9.515 3491	256	0.484 6509	9.977 8626	25	861	
		231		256			25		
.140	9.493 2348		9.515 3747		0.484 6253	9.977 8601		.860	
		232		257			25		
141	9.493 2580		9.515 4004		0.484 5996	9.977 8576		859	
142	9.493 2811	231	9.515 4260	256	0.484 5740	9.977 8551	25	858	
143	9.493 3042	231	9.515 4516	256	0.484 5484	9.977 8526	25	857	
		232		256			24		
144	9.493 3274		9.515 4772		0.484 5228	9.977 8502		856	
145	9.493 3505	231	9.515 5028	256	0.484 4972	9.977 8477	25	855	
146	9.493 3736	231	9.515 5284	256	0.484 4716	9.977 8452	25	854	
		232		256			25		
147	9.493 3968		9.515 5540		0.484 4460	9.977 8427		853	
148	9.493 4199	231	9.515 5797	257	0.484 4203	9.977 8402	25	852	
149	9.493 4430	231	9.515 6053	256	0.484 3947	9.977 8377	25	851	
		231		256			24		
.150	9.493 4661		9.515 6309		0.484 3691	9.977 8353		.850	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	257	256
1	25.7	25.6
2	51.4	51.2
3	77.1	76.8
4	102.8	102.4
5	128.5	128.0
6	154.2	153.6
7	179.9	179.2
8	205.6	204.8
9	231.3	230.4

	232
1	23.2
2	46.4
3	69.6
4	92.8
5	116.0
6	139.2
7	162.4
8	185.6
9	208.8

	231
1	23.1
2	46.2
3	69.3
4	92.4
5	115.5
6	138.6
7	161.7
8	184.8
9	207.9

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

71°.900 — 71°.850

18°.150 — 18°.200

18°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.493 4661		9.515 6309		0.484 3691	9.977 8353		.850	
		231		256			25		
151	9.493 4892		9.515 6565		0.484 3435	9.977 8328		849	
152	9.493 5124	232	9.515 6821	256	0.484 3179	9.977 8303	25	848	
153	9.493 5355	231	9.515 7077	256	0.484 2923	9.977 8278	25	847	
		231		256			25		
154	9.493 5586		9.515 7333		0.484 2667	9.977 8253		846	
155	9.493 5817	231	9.515 7589	256	0.484 2411	9.977 8228	25	845	
156	9.493 6048	231	9.515 7845	256	0.484 2155	9.977 8203	25	844	
		231		256			24		
157	9.493 6279		9.515 8101		0.484 1899	9.977 8179		843	
158	9.493 6511	232	9.515 8357	256	0.484 1643	9.977 8154	25	842	
159	9.493 6742	231	9.515 8613	256	0.484 1387	9.977 8129	25	841	
		231		256			25		
.160	9.493 6973		9.515 8869		0.484 1131	9.977 8104		.840	
		231		256			25		
161	9.493 7204		9.515 9125		0.484 0875	9.977 8079		839	
162	9.493 7435	231	9.515 9381	256	0.484 0619	9.977 8054	25	838	
163	9.493 7666	231	9.515 9637	256	0.484 0363	9.977 8029	25	837	
		231		256			24		
164	9.493 7897		9.515 9893		0.484 0107	9.977 8005		836	
165	9.493 8128	231	9.516 0148	255	0.483 9852	9.977 7980	25	835	
166	9.493 8359	231	9.516 0404	256	0.483 9596	9.977 7955	25	834	
		231		256			25		
167	9.493 8590		9.516 0660		0.483 9340	9.977 7930		833	
168	9.493 8821	231	9.516 0916	256	0.483 9084	9.977 7905	25	832	
169	9.493 9052	231	9.516 1172	256	0.483 8828	9.977 7880	25	831	
		231		256			25		
.170	9.493 9283		9.516 1428		0.483 8572	9.977 7855		.830	
		231		256			25		
171	9.493 9514		9.516 1684		0.483 8316	9.977 7830		829	
172	9.493 9745	231	9.516 1939	255	0.483 8061	9.977 7806	24	828	
173	9.493 9976	231	9.516 2195	256	0.483 7805	9.977 7781	25	827	
		231		256			25		
174	9.494 0207		9.516 2451		0.483 7549	9.977 7756		826	
175	9.494 0438	231	9.516 2707	256	0.483 7293	9.977 7731	25	825	
176	9.494 0668	230	9.516 2962	255	0.483 7038	9.977 7706	25	824	
		231		256			25		
177	9.494 0899		9.516 3218		0.483 6782	9.977 7681		823	
178	9.494 1130	231	9.516 3474	256	0.483 6526	9.977 7656	25	822	
179	9.494 1361	231	9.516 3730	256	0.483 6270	9.977 7631	25	821	
		231		255			25		
.180	9.494 1592		9.516 3985		0.483 6015	9.977 7606		.820	
		231		256			24		
181	9.494 1823		9.516 4241		0.483 5759	9.977 7582		819	
182	9.494 2053	230	9.516 4497	256	0.483 5503	9.977 7557	25	818	
183	9.494 2284	231	9.516 4752	255	0.483 5248	9.977 7532	25	817	
		231		256			25		
184	9.494 2515		9.516 5008		0.483 4992	9.977 7507		816	
185	9.494 2746	231	9.516 5264	256	0.483 4736	9.977 7482	25	815	
186	9.494 2976	230	9.516 5519	255	0.483 4481	9.977 7457	25	814	
		231		256			25		
187	9.494 3207		9.516 5775		0.483 4225	9.977 7432		813	
188	9.494 3438	231	9.516 6031	256	0.483 3969	9.977 7407	25	812	
189	9.494 3669	231	9.516 6286	255	0.483 3714	9.977 7382	25	811	
		230		256			25		
.190	9.494 3899		9.516 6542		0.483 3458	9.977 7357		.810	
		231		255			24		
191	9.494 4130		9.516 6797		0.483 3203	9.977 7333		809	
192	9.494 4361	231	9.516 7053	256	0.483 2947	9.977 7308	25	808	
193	9.494 4591	230	9.516 7309	256	0.483 2691	9.977 7283	25	807	
		231		255			25		
194	9.494 4822		9.516 7564		0.483 2436	9.977 7258		806	
195	9.494 5053	231	9.516 7820	256	0.483 2180	9.977 7233	25	805	
196	9.494 5283	230	9.516 8075	255	0.483 1925	9.977 7208	25	804	
		231		256			25		
197	9.494 5514		9.516 8331		0.483 1669	9.977 7183		803	
198	9.494 5744	230	9.516 8586	255	0.483 1414	9.977 7158	25	802	
199	9.494 5975	231	9.516 8842	256	0.483 1158	9.977 7133	25	801	
		230		255			25		
.200	9.494 6205		9.516 9097		0.483 0903	9.977 7108		.800	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	256	255
1	25.6	25.5
2	51.2	51.0
3	76.8	76.5
4	102.4	102.0
5	128.0	127.5
6	153.6	153.0
7	179.2	178.5
8	204.8	204.0
9	230.4	229.5

	232	231
1	23.2	23.1
2	46.4	46.2
3	69.6	69.3
4	92.8	92.4
5	116.0	115.5
6	139.2	138.6
7	162.4	161.7
8	185.6	184.8
9	208.8	207.9

	230
1	23.0
2	46.0
3	69.0
4	92.0
5	115.0
6	138.0
7	161.0
8	184.0
9	207.0

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

71°.850 — 71°.800

18°.200 — 18°.250

18°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.494 6205		9.516 9097		0.483 0903	9.977 7108		**.800**	
		231		256			25		
201	9.494 6436		9.516 9353		0.483 0647	9.977 7083		799	
202	9.494 6666	230	9.516 9608	255	0.483 0392	9.977 7058	25	798	
203	9.494 6897	231	9.516 9863	255	0.483 0137	9.977 7034	24	797	
		230		256			25		
204	9.494 7127		9.517 0119		0.482 9881	9.977 7009		796	
205	9.494 7358	231	9.517 0374	255	0.482 9626	9.977 6984	25	795	
206	9.494 7588	230	9.517 0630	256	0.482 9370	9.977 6959	25	794	
		231		255			25		
207	9.494 7819		9.517 0885		0.482 9115	9.977 6934		793	
208	9.494 8049	230	9.517 1140	255	0.482 8860	9.977 6909	25	792	
209	9.494 8280	231	9.517 1396	256	0.482 8604	9.977 6884	25	791	
		230		255			25		
.210	9.494 8510		9.517 1651		0.482 8349	9.977 6859		**.790**	
		231		255			25		
211	9.494 8741		9.517 1906		0.482 8094	9.977 6834		789	
212	9.494 8971	230	9.517 2162	256	0.482 7838	9.977 6809	25	788	
213	9.494 9201	230	9.517 2417	255	0.482 7583	9.977 6784	25	787	
		231		255			25		
214	9.494 9432		9.517 2672		0.482 7328	9.977 6759		786	
215	9.494 9662	230	9.517 2928	256	0.482 7072	9.977 6734	25	785	
216	9.494 9892	230	9.517 3183	255	0.482 6817	9.977 6709	25	784	
		231		255			25		
217	9.495 0123		9.517 3438		0.482 6562	9.977 6684		783	
218	9.495 0353	230	9.517 3694	256	0.482 6306	9.977 6659	25	782	
219	9.495 0583	230	9.517 3949	255	0.482 6051	9.977 6635	24	781	
		231		255			25		
.220	9.495 0814		9.517 4204		0.482 5796	9.977 6610		**.780**	
		230		255			25		
221	9.495 1044		9.517 4459		0.482 5541	9.977 6585		779	
222	9.495 1274	230	9.517 4714	255	0.482 5286	9.977 6560	25	778	
223	9.495 1504	230	9.517 4970	256	0.482 5030	9.977 6535	25	777	
		231		255			25		
224	9.495 1735		9.517 5225		0.482 4775	9.977 6510		776	
225	9.495 1965	230	9.517 5480	255	0.482 4520	9.977 6485	25	775	
226	9.495 2195	230	9.517 5735	255	0.482 4265	9.977 6460	25	774	
		230		255			25		
227	9.495 2425		9.517 5990		0.482 4010	9.977 6435		773	
228	9.495 2655	230	9.517 6245	255	0.482 3755	9.977 6410	25	772	
229	9.495 2885	230	9.517 6501	256	0.482 3499	9.977 6385	25	771	
		231		255			25		
.230	9.495 3116		9.517 6756		0.482 3244	9.977 6360		**.770**	
		230		255			25		
231	9.495 3346		9.517 7011		0.482 2989	9.977 6335		769	
232	9.495 3576	230	9.517 7266	255	0.482 2734	9.977 6310	25	768	
233	9.495 3806	230	9.517 7521	255	0.482 2479	9.977 6285	25	767	
		230		255			25		
234	9.495 4036		9.517 7776		0.482 2224	9.977 6260		766	
235	9.495 4266	230	9.517 8031	255	0.482 1969	9.977 6235	25	765	
236	9.495 4496	230	9.517 8286	255	0.482 1714	9.977 6210	25	764	
		230		255			25		
237	9.495 4726		9.517 8541		0.482 1459	9.977 6185		763	
238	9.495 4956	230	9.517 8796	255	0.482 1204	9.977 6160	25	762	
239	9.495 5186	230	9.517 9051	255	0.482 0949	9.977 6135	25	761	
		230		255			25		
.240	9.495 5416		9.517 9306		0.482 0694	9.977 6110		**.760**	
		230		255			25		
241	9.495 5646		9.517 9561		0.482 0439	9.977 6085		759	
242	9.495 5876	230	9.517 9816	255	0.482 0184	9.977 6060	25	758	
243	9.495 6106	230	9.518 0071	255	0.481 9929	9.977 6035	25	757	
		230		255			25		
244	9.495 6336		9.518 0326		0.481 9674	9.977 6010		756	
245	9.495 6566	230	9.518 0581	255	0.481 9419	9.977 5985	25	755	
246	9.495 6796	230	9.518 0836	255	0.481 9164	9.977 5960	25	754	
		230		255			25		
247	9.495 7026		9.518 1091		0.481 8909	9.977 5935		753	
248	9.495 7256	230	9.518 1346	255	0.481 8654	9.977 5910	25	752	
249	9.495 7486	230	9.518 1600	254	0.481 8400	9.977 5885	25	751	
		230		255			25		
.250	9.495 7716		9.518 1855		0.481 8145	9.977 5860		**.750**	
	cos	d	cotg	d	tang	sin	d	**71°**	P.P.

	256	255
1	25.6	25.5
2	51.2	51.0
3	76.8	76.5
4	102.4	102.0
5	128.0	127.5
6	153.6	153.0
7	179.2	178.5
8	204.8	204.0
9	230.4	229.5

	254
1	25.4
2	50.8
3	76.2
4	101.6
5	127.0
6	152.4
7	177.8
8	203.2
9	228.6

	231	230
1	23.1	23.0
2	46.2	46.0
3	69.3	69.0
4	92.4	92.0
5	115.5	115.0
6	138.6	138.0
7	161.7	161.0
8	184.8	184.0
9	207.9	207.0

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

	24
1	2.4
2	4.8
3	7.2
4	9.6
5	12.0
6	14.4
7	16.8
8	19.2
9	21.6

71°.800 — 71°.750

$18^\circ.250 - 18^\circ.300$

18°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.495 7716		9.518 1855		0.481 8145	9.977 5860		**.750**	
		229		255			25		
251	9.495 7945		9.518 2110		0.481 7890	9.977 5835		749	
252	9.495 8175	230	9.518 2365	255	0.481 7635	9.977 5810	25	748	
253	9.495 8405	230	9.518 2620	255	0.481 7380	9.977 5785	25	747	
		230		255			25		
254	9.495 8635		9.518 2875		0.481 7125	9.977 5760		746	
255	9.495 8865	230	9.518 3129	254	0.481 6871	9.977 5735	25	745	
256	9.495 9095	230	9.518 3384	255	0.481 6616	9.977 5710	25	744	
		229		255			25		
257	9.495 9324		9.518 3639		0.481 6361	9.977 5685		743	
258	9.495 9554	230	9.518 3894	255	0.481 6106	9.977 5660	25	742	
259	9.495 9784	230	9.518 4149	255	0.481 5851	9.977 5635	25	741	
		230		254			25		
.260	9.496 0014		9.518 4403		0.481 5597	9.977 5610		**.740**	
		229		255			25		
261	9.496 0243		9.518 4658		0.481 5342	9.977 5585		739	
262	9.496 0473	230	9.518 4913	255	0.481 5087	9.977 5560	25	738	
263	9.496 0703	230	9.518 5167	254	0.481 4833	9.977 5535	25	737	
		229		255			25		
264	9.496 0932		9.518 5422		0.481 4578	9.977 5510		736	
265	9.496 1162	230	9.518 5677	255	0.481 4323	9.977 5485	25	735	
266	9.496 1392	230	9.518 5931	254	0.481 4069	9.977 5460	25	734	
		229		255			25		
267	9.496 1621		9.518 6186		0.481 3814	9.977 5435		733	
268	9.496 1851	230	9.518 6441	255	0.481 3559	9.977 5410	25	732	
269	9.496 2081	230	9.518 6695	254	0.481 3305	9.977 5385	25	731	
		229		255			25		
.270	9.496 2310		9.518 6950		0.481 3050	9.977 5360		**.730**	
		230		255			25		
271	9.496 2540		9.518 7205		0.481 2795	9.977 5335		729	
272	9.496 2769	229	9.518 7459	254	0.481 2541	9.977 5310	25	728	
273	9.496 2999	230	9.518 7714	255	0.481 2286	9.977 5285	25	727	
		230		254			25		
274	9.496 3229		9.518 7968		0.481 2032	9.977 5260		726	
275	9.496 3458	229	9.518 8223	255	0.481 1777	9.977 5235	25	725	
276	9.496 3688	230	9.518 8478	255	0.481 1522	9.977 5210	25	724	
		229		254			25		
277	9.496 3917		9.518 8732		0.481 1268	9.977 5185		723	
278	9.496 4147	230	9.518 8987	255	0.481 1013	9.977 5160	25	722	
279	9.496 4376	229	9.518 9241	254	0.481 0759	9.977 5135	25	721	
		230		255			25		
.280	9.496 4606		9.518 9496		0.481 0504	9.977 5110		**.720**	
		229		254			25		
281	9.496 4835		9.518 9750		0.481 0250	9.977 5085		719	
282	9.496 5064	229	9.519 0005	255	0.480 9995	9.977 5060	25	718	
283	9.496 5294	230	9.519 0259	254	0.480 9741	9.977 5035	25	717	
		229		255			25		
284	9.496 5523		9.519 0514		0.480 9486	9.977 5010		716	
285	9.496 5753	230	9.519 0768	254	0.480 9232	9.977 4985	25	715	
286	9.496 5982	229	9.519 1022	254	0.480 8978	9.977 4960	25	714	
		229		255			25		
287	9.496 6211		9.519 1277		0.480 8723	9.977 4935		713	
288	9.496 6441	230	9.519 1531	254	0.480 8469	9.977 4910	25	712	
289	9.496 6670	229	9.519 1786	255	0.480 8214	9.977 4884	26	711	
		230		254			25		
.290	9.496 6900		9.519 2040		0.480 7960	9.977 4859		**.710**	
		229		254			25		
291	9.496 7129		9.519 2294		0.480 7706	9.977 4834		709	
292	9.496 7358	229	9.519 2549	255	0.480 7451	9.977 4809	25	708	
293	9.496 7587	229	9.519 2803	254	0.480 7197	9.977 4784	25	707	
		230		255			25		
294	9.496 7817		9.519 3058		0.480 6942	9.977 4759		706	
295	9.496 8046	229	9.519 3312	254	0.480 6688	9.977 4734	25	705	
296	9.496 8275	229	9.519 3566	254	0.480 6434	9.977 4709	25	704	
		229		254			25		
297	9.496 8504		9.519 3820		0.480 6180	9.977 4684		703	
298	9.496 8734	230	9.519 4075	255	0.480 5925	9.977 4659	25	702	
299	9.496 8963	229	9.519 4329	254	0.480 5671	9.977 4634	25	701	
		229		254			25		
.300	9.496 9192		9.519 4583		0.480 5417	9.977 4609		**.700**	
	cos	d	cotg	d	tang	sin	d	**71°**	P.P.

	255	254
1	25.5	25.4
2	51.0	50.8
3	76.5	76.2
4	102.0	101.6
5	127.5	127.0
6	153.0	152.4
7	178.5	177.8
8	204.0	203.2
9	229.5	228.6

	230
1	23.0
2	46.0
3	69.0
4	92.0
5	115.0
6	138.0
7	161.0
8	184.0
9	207.0

	229
1	22.9
2	45.8
3	68.7
4	91.6
5	114.5
6	137.4
7	160.3
8	183.2
9	206.1

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

$71^\circ.750 - 71^\circ.700$

18°.300 — 18°.350

18°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.496 9192		9.519 4583		0.480 5417	9.977 4609		**.700**	
		229		255			25		
301	9.496 9421		9.519 4838		0.480 5162	9.977 4584		699	
302	9.496 9650	229	9.519 5092	254	0.480 4908	9.977 4559	25	698	
303	9.496 9880	230	9.519 5346	254	0.480 4654	9.977 4534	25	697	
		229		254			25		
304	9.497 0109		9.519 5600		0.480 4400	9.977 4509		696	
305	9.497 0338	229	9.519 5854	254	0.480 4146	9.977 4483	26	695	
306	9.497 0567	229	9.519 6109	255	0.480 3891	9.977 4458	25	694	
		229		254			25		
307	9.497 0796		9.519 6363		0.480 3637	9.977 4433		693	
308	9.497 1025	229	9.519 6617	254	0.480 3383	9.977 4408	25	692	
309	9.497 1254	229	9.519 6871	254	0.480 3129	9.977 4383	25	691	
		229		254			25		
.310	9.497 1483		9.519 7125		0.480 2875	9.977 4358		**.690**	
		229		254			25		
311	9.497 1712		9.519 7379		0.480 2621	9.977 4333		689	
312	9.497 1942	230	9.519 7634	255	0.480 2366	9.977 4308	25	688	
313	9.497 2171	229	9.519 7888	254	0.480 2112	9.977 4283	25	687	
		229		254			25		
314	9.497 2400		9.519 8142		0.480 1858	9.977 4258		686	
315	9.497 2629	229	9.519 8396	254	0.480 1604	9.977 4233	25	685	
316	9.497 2858	229	9.519 8650	254	0.480 1350	9.977 4208	25	684	
		228		254			26		
317	9.497 3086		9.519 8904		0.480 1096	9.977 4182		683	
318	9.497 3315	229	9.519 9158	254	0.480 0842	9.977 4157	25	682	
319	9.497 3544	229	9.519 9412	254	0.480 0588	9.977 4132	25	681	
		229		254			25		
.320	9.497 3773		9.519 9666		0.480 0334	9.977 4107		**.680**	
		229		254			25		
321	9.497 4002		9.519 9920		0.480 0080	9.977 4082		679	
322	9.497 4231	229	9.520 0174	254	0.479 9826	9.977 4057	25	678	
323	9.497 4460	229	9.520 0428	254	0.479 9572	9.977 4032	25	677	
		229		254			25		
324	9.497 4689		9.520 0682		0.479 9318	9.977 4007		676	
325	9.497 4918	229	9.520 0936	254	0.479 9064	9.977 3982	25	675	
326	9.497 5147	229	9.520 1190	254	0.479 8810	9.977 3957	25	674	
		228		254			26		
327	9.497 5375		9.520 1444		0.479 8556	9.977 3931		673	
328	9.497 5604	229	9.520 1698	254	0.479 8302	9.977 3906	25	672	
329	9.497 5833	229	9.520 1952	254	0.479 8048	9.977 3881	25	671	
		229		254			25		
.330	9.497 6062		9.520 2206		0.479 7794	9.977 3856		**.670**	
		229		254			25		
331	9.497 6291		9.520 2460		0.479 7540	9.977 3831		669	
332	9.497 6519	228	9.520 2714	254	0.479 7286	9.977 3806	25	668	
333	9.497 6748	229	9.520 2967	253	0.479 7033	9.977 3781	25	667	
		229		254			25		
334	9.497 6977		9.520 3221		0.479 6779	9.977 3756		666	
335	9.497 7206	229	9.520 3475	254	0.479 6525	9.977 3731	25	665	
336	9.497 7434	228	9.520 3729	254	0.479 6271	9.977 3705	26	664	
		229		254			25		
337	9.497 7663		9.520 3983		0.479 6017	9.977 3680		663	
338	9.497 7892	229	9.520 4237	254	0.479 5763	9.977 3655	25	662	
339	9.497 8121	229	9.520 4490	253	0.479 5510	9.977 3630	25	661	
		228		254			25		
.340	9.497 8349		9.520 4744		0.479 5256	9.977 3605		**.660**	
		229		254			25		
341	9.497 8578		9.520 4998		0.479 5002	9.977 3580		659	
342	9.497 8806	228	9.520 5252	254	0.479 4748	9.977 3555	25	658	
343	9.497 9035	229	9.520 5506	254	0.479 4494	9.977 3530	25	657	
		229		253			26		
344	9.497 9264		9.520 5759		0.479 4241	9.977 3504		656	
345	9.497 9492	228	9.520 6013	254	0.479 3987	9.977 3479	25	655	
346	9.497 9721	229	9.520 6267	254	0.479 3733	9.977 3454	25	654	
		228		253			25		
347	9.497 9949		9.520 6520		0.479 3480	9.977 3429		653	
348	9.498 0178	229	9.520 6774	254	0.479 3226	9.977 3404	25	652	
349	9.498 0407	229	9.520 7028	254	0.479 2972	9.977 3379	25	651	
		228		254			25		
.350	9.498 0635		9.520 7282		0.479 2718	9.977 3354		**.650**	
	cos	d	cotg	d	tang	sin	d	**71°**	P.P.

	255	254
1	25.5	25.4
2	51.0	50.8
3	76.5	76.2
4	102.0	101.6
5	127.5	127.0
6	153.0	152.4
7	178.5	177.8
8	204.0	203.2
9	229.5	228.6

	253
1	25.3
2	50.6
3	75.9
4	101.2
5	126.5
6	151.8
7	177.1
8	202.4
9	227.7

	230	229
1	23.0	22.9
2	46.0	45.8
3	69.0	68.7
4	92.0	91.6
5	115.0	114.5
6	138.0	137.4
7	161.0	160.3
8	184.0	183.2
9	207.0	206.1

	228
1	22.8
2	45.6
3	68.4
4	91.2
5	114.0
6	136.8
7	159.6
8	182.4
9	205.2

	26	25
1	2.6	2.5
2	5.2	5.0
3	7.8	7.5
4	10.4	10.0
5	13.0	12.5
6	15.6	15.0
7	18.2	17.5
8	20.8	20.0
9	23.4	22.5

71°.700 — 71°.650

18°.350 — 18°.400

18°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.498 0635		9.520 7282		0.479 2718	9.977 3354		.650	
		229		253			26		
351	9.498 0864		9.520 7535		0.479 2465	9.977 3328		649	
352	9.498 1092	228	9.520 7789	254	0.479 2211	9.977 3303	25	648	
353	9.498 1321	229	9.520 8042	253	0.479 1958	9.977 3278	25	647	
		228		254			25		
354	9.498 1549		9.520 8296		0.479 1704	9.977 3253		646	
355	9.498 1778	229	9.520 8550	254	0.479 1450	9.977 3228	25	645	
356	9.498 2006	228	9.520 8803	253	0.479 1197	9.977 3203	25	644	
		228		254			25		
357	9.498 2234		9.520 9057		0.479 0943	9.977 3178		643	
358	9.498 2463	229	9.520 9310	253	0.479 0690	9.977 3152	26	642	
359	9.498 2691	228	9.520 9564	254	0.479 0436	9.977 3127	25	641	
		229		254			25		
.360	9.498 2920		9.520 9818		0.479 0182	9.977 3102		.640	
		228		253			25		
361	9.498 3148		9.521 0071		0.478 9929	9.977 3077		639	
362	9.498 3376	228	9.521 0325	254	0.478 9675	9.977 3052	25	638	
363	9.498 3605	229	9.521 0578	253	0.478 9422	9.977 3027	25	637	
		228		254			26		
364	9.498 3833		9.521 0832		0.478 9168	9.977 3001		636	
365	9.498 4061	228	9.521 1085	253	0.478 8915	9.977 2976	25	635	
366	9.498 4290	229	9.521 1339	254	0.478 8661	9.977 2951	25	634	
		228		253			25		
367	9.498 4518		9.521 1592		0.478 8408	9.977 2926		633	
368	9.498 4746	228	9.521 1846	254	0.478 8154	9.977 2901	25	632	
369	9.498 4975	229	9.521 2099	253	0.478 7901	9.977 2876	25	631	
		228		253			26		
.370	9.498 5203		9.521 2352		0.478 7648	9.977 2850		.630	
		228		254			25		
371	9.498 5431		9.521 2606		0.478 7394	9.977 2825		629	
372	9.498 5659	228	9.521 2859	253	0.478 7141	9.977 2800	25	628	
373	9.498 5888	229	9.521 3113	254	0.478 6887	9.977 2775	25	627	
		228		253			25		
374	9.498 6116		9.521 3366		0.478 6634	9.977 2750		626	
375	9.498 6344	228	9.521 3619	253	0.478 6381	9.977 2725	25	625	
376	9.498 6572	228	9.521 3873	254	0.478 6127	9.977 2699	26	624	
		228		253			25		
377	9.498 6800		9.521 4126		0.478 5874	9.977 2674		623	
378	9.498 7029	229	9.521 4380	254	0.478 5620	9.977 2649	25	622	
379	9.498 7257	228	9.521 4633	253	0.478 5367	9.977 2624	25	621	
		228		253			25		
.380	9.498 7485		9.521 4886		0.478 5114	9.977 2599		.620	
		228		253			26		
381	9.498 7713		9.521 5139		0.478 4861	9.977 2573		619	
382	9.498 7941	228	9.521 5393	254	0.478 4607	9.977 2548	25	618	
383	9.498 8169	228	9.521 5646	253	0.478 4354	9.977 2523	25	617	
		228		253			25		
384	9.498 8397		9.521 5899		0.478 4101	9.977 2498		616	
385	9.498 8625	228	9.521 6153	254	0.478 3847	9.977 2473	25	615	
386	9.498 8853	228	9.521 6406	253	0.478 3594	9.977 2448	25	614	
		228		253			26		
387	9.498 9081		9.521 6659		0.478 3341	9.977 2422		613	
388	9.498 9309	228	9.521 6912	253	0.478 3088	9.977 2397	25	612	
389	9.498 9537	228	9.521 7165	253	0.478 2835	9.977 2372	25	611	
		228		254			25		
.390	9.498 9765		9.521 7419		0.478 2581	9.977 2347		.610	
		228		253			25		
391	9.498 9993		9.521 7672		0.478 2328	9.977 2322		609	
392	9.499 0221	228	9.521 7925	253	0.478 2075	9.977 2296	26	608	
393	9.499 0449	228	9.521 8178	253	0.478 1822	9.977 2271	25	607	
		228		253			25		
394	9.499 0677		9.521 8431		0.478 1569	9.977 2246		606	
395	9.499 0905	228	9.521 8684	253	0.478 1316	9.977 2221	25	605	
396	9.499 1133	228	9.521 8938	254	0.478 1062	9.977 2196	25	604	
		228		253			26		
397	9.499 1361		9.521 9191		0.478 0809	9.977 2170		603	
398	9.499 1589	228	9.521 9444	253	0.478 0556	9.977 2145	25	602	
399	9.499 1817	228	9.521 9697	253	0.478 0303	9.977 2120	25	601	
		228		253			25		
.400	9.499 2045		9.521 9950		0.478 0050	9.977 2095		.600	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	254	253
1	25.4	25.3
2	50.8	50.6
3	76.2	75.9
4	101.6	101.2
5	127.0	126.5
6	152.4	151.8
7	177.8	177.1
8	203.2	202.4
9	228.6	227.7

	229
1	22.9
2	45.8
3	68.7
4	91.6
5	114.5
6	137.4
7	160.3
8	183.2
9	206.1

	228
1	22.8
2	45.6
3	68.4
4	91.2
5	114.0
6	136.8
7	159.6
8	182.4
9	205.2

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.650 — 71°.600

18°.400 — 18°.450

18°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.499 2045		9.521 9950		0.478 0050	9.977 2095		.600	
		228		253			26		
401	9.499 2273		9.522 0203		0.477 9797	9.977 2069		599	
402	9.499 2500	227	9.522 0456	253	0.477 9544	9.977 2044	25	598	
403	9.499 2728	228	9.522 0709	253	0.477 9291	9.977 2019	25	597	
		228		253			25		
404	9.499 2956		9.522 0962		0.477 9038	9.977 1994		596	
405	9.499 3184	228	9.522 1215	253	0.477 8785	9.977 1969	25	595	
406	9.499 3412	228	9.522 1468	253	0.477 8532	9.977 1943	26	594	
		227		253			25		
407	9.499 3639		9.522 1721		0.477 8279	9.977 1918		593	
408	9.499 3867	228	9.522 1974	253	0.477 8026	9.977 1893	25	592	
409	9.499 4095	228	9.522 2227	253	0.477 7773	9.977 1868	25	591	
		228		253			26		
.410	9.499 4323		9.522 2480		0.477 7520	9.977 1842		.590	
		227		253			25		
411	9.499 4550		9.522 2733		0.477 7267	9.977 1817		589	
412	9.499 4778	228	9.522 2986	253	0.477 7014	9.977 1792	25	588	
413	9.499 5006	228	9.522 3239	253	0.477 6761	9.977 1767	25	587	
		227		253			25		
414	9.499 5233		9.522 3492		0.477 6508	9.977 1742		586	
415	9.499 5461	228	9.522 3745	253	0.477 6255	9.977 1716	26	585	
416	9.499 5689	228	9.522 3998	253	0.477 6002	9.977 1691	25	584	
		227		253			25		
417	9.499 5916		9.522 4251		0.477 5749	9.977 1666		583	
418	9.499 6144	228	9.522 4503	252	0.477 5497	9.977 1641	25	582	
419	9.499 6372	228	9.522 4756	253	0.477 5244	9.977 1615	26	581	
		227		253			25		
.420	9.499 6599		9.522 5009		0.477 4991	9.977 1590		.580	
		228		253			25		
421	9.499 6827		9.522 5262		0.477 4738	9.977 1565		579	
422	9.499 7054	227	9.522 5515	253	0.477 4485	9.977 1540	25	578	
423	9.499 7282	228	9.522 5768	253	0.477 4232	9.977 1514	26	577	
		227		252			25		
424	9.499 7509		9.522 6020		0.477 3980	9.977 1489		576	
425	9.499 7737	228	9.522 6273	253	0.477 3727	9.977 1464	25	575	
426	9.499 7965	228	9.522 6526	253	0.477 3474	9.977 1439	25	574	
		227		253			26		
427	9.499 8192		9.522 6779		0.477 3221	9.977 1413		573	
428	9.499 8420	228	9.522 7031	252	0.477 2969	9.977 1388	25	572	
429	9.499 8647	227	9.522 7284	253	0.477 2716	9.977 1363	25	571	
		227		253			25		
.430	9.499 8874		9.522 7537		0.477 2463	9.977 1338		.570	
		228		253			26		
431	9.499 9102		9.522 7790		0.477 2210	9.977 1312		569	
432	9.499 9329	227	9.522 8042	252	0.477 1958	9.977 1287	25	568	
433	9.499 9557	228	9.522 8295	253	0.477 1705	9.977 1262	25	567	
		227		253			25		
434	9.499 9784		9.522 8548		0.477 1452	9.977 1237		566	
435	9.500 0012	228	9.522 8800	252	0.477 1200	9.977 1211	26	565	
436	9.500 0239	227	9.522 9053	253	0.477 0947	9.977 1186	25	564	
		227		253			25		
437	9.500 0466		9.522 9306		0.477 0694	9.977 1161		563	
438	9.500 0694	228	9.522 9558	252	0.477 0442	9.977 1135	26	562	
439	9.500 0921	227	9.522 9811	253	0.477 0189	9.977 1110	25	561	
		227		253			25		
.440	9.500 1148		9.523 0064		0.476 9936	9.977 1085		.560	
		228		252			25		
441	9.500 1376		9.523 0316		0.476 9684	9.977 1060		559	
442	9.500 1603	227	9.523 0569	253	0.476 9431	9.977 1034	26	558	
443	9.500 1830	227	9.523 0821	252	0.476 9179	9.977 1009	25	557	
		228		253			25		
444	9.500 2058		9.523 1074		0.476 8926	9.977 0984		556	
445	9.500 2285	227	9.523 1326	252	0.476 8674	9.977 0959	25	555	
446	9.500 2512	227	9.523 1579	253	0.476 8421	9.977 0933	26	554	
		227		252			25		
447	9.500 2739		9.523 1831		0.476 8169	9.977 0908		553	
448	9.500 2967	228	9.523 2084	253	0.476 7916	9.977 0883	25	552	
449	9.500 3194	227	9.523 2336	252	0.476 7664	9.977 0857	26	551	
		227		253			25		
.450	9.500 3421		9.523 2589		0.476 7411	9.977 0832		.550	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	253	252
1	25.3	25.2
2	50.6	50.4
3	75.9	75.6
4	101.2	100.8
5	126.5	126.0
6	151.8	151.2
7	177.1	176.4
8	202.4	201.6
9	227.7	226.8

	228
1	22.8
2	45.6
3	68.4
4	91.2
5	114.0
6	136.8
7	159.6
8	182.4
9	205.2

	227
1	22.7
2	45.4
3	68.1
4	90.8
5	113.5
6	136.2
7	158.9
8	181.6
9	204.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.600 — 71°.550

18°.450 — 18°.500

18°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.500 3421		9.523 2589		0.476 7411	9.977 0832		.550	
		227		252			25		
451	9.500 3648		9.523 2841		0.476 7159	9.977 0807		549	
452	9.500 3875	227	9.523 3094	253	0.476 6906	9.977 0782	25	548	
453	9.500 4103	228	9.523 3346	252	0.476 6654	9.977 0756	25	547	
		227		253			26		
454	9.500 4330		9.523 3599		0.476 6401	9.977 0731	25	546	
455	9.500 4557	227	9.523 3851	252	0.476 6149	9.977 0706	25	545	
456	9.500 4784	227	9.523 4104	253	0.476 5896	9.977 0680	26	544	
		227		252			25		
457	9.500 5011		9.523 4356		0.476 5644	9.977 0655	25	543	
458	9.500 5238	227	9.523 4608	252	0.476 5392	9.977 0630	25	542	
459	9.500 5465	227	9.523 4861	253	0.476 5139	9.977 0604	26	541	
		227		252			25		
.460	9.500 5692		9.523 5113		0.476 4887	9.977 0579		.540	
		227		253			25		
461	9.500 5919		9.523 5366		0.476 4634	9.977 0554	25	539	
462	9.500 6146	227	9.523 5618	252	0.476 4382	9.977 0529	25	538	
463	9.500 6374	228	9.523 5870	252	0.476 4130	9.977 0503	26	537	
		227		253			25		
464	9.500 6601		9.523 6123		0.476 3877	9.977 0478	25	536	
465	9.500 6828	227	9.523 6375	252	0.476 3625	9.977 0453	25	535	
466	9.500 7055	227	9.523 6627	252	0.476 3373	9.977 0427	26	534	
		227		253			25		
467	9.500 7282		9.523 6880		0.476 3120	9.977 0402	25	533	
468	9.500 7508	226	9.523 7132	252	0.476 2868	9.977 0377	25	532	
469	9.500 7735	227	9.523 7384	252	0.476 2616	9.977 0351	26	531	
		227		252			25		
.470	9.500 7962		9.523 7636		0.476 2364	9.977 0326		.530	
		227		253			25		
471	9.500 8189		9.523 7889		0.476 2111	9.977 0301	26	529	
472	9.500 8416	227	9.523 8141	252	0.476 1859	9.977 0275	25	528	
473	9.500 8643	227	9.523 8393	252	0.476 1607	9.977 0250	25	527	
		227		252			25		
474	9.500 8870		9.523 8645		0.476 1355	9.977 0225	26	526	
475	9.500 9097	227	9.523 8897	252	0.476 1103	9.977 0199	25	525	
476	9.500 9324	227	9.523 9150	253	0.476 0850	9.977 0174	25	524	
		227		252			25		
477	9.500 9551		9.523 9402		0.476 0598	9.977 0149	26	523	
478	9.500 9777	226	9.523 9654	252	0.476 0346	9.977 0123	25	522	
479	9.501 0004	227	9.523 9906	252	0.476 0094	9.977 0098	25	521	
		227		252			25		
.480	9.501 0231		9.524 0158		0.475 9842	9.977 0073		.520	
		227		252			26		
481	9.501 0458		9.524 0410		0.475 9590	9.977 0047	25	519	
482	9.501 0685	227	9.524 0663	253	0.475 9337	9.977 0022	25	518	
483	9.501 0911	226	9.524 0915	252	0.475 9085	9.976 9997	26	517	
		227		252			26		
484	9.501 1138		9.524 1167		0.475 8833	9.976 9971	25	516	
485	9.501 1365	227	9.524 1419	252	0.475 8581	9.976 9946	25	515	
486	9.501 1592	227	9.524 1671	252	0.475 8329	9.976 9921	26	514	
		226		252			26		
487	9.501 1818		9.524 1923		0.475 8077	9.976 9895	25	513	
488	9.501 2045	227	9.524 2175	252	0.475 7825	9.976 9870	25	512	
489	9.501 2272	227	9.524 2427	252	0.475 7573	9.976 9845	26	511	
		226		252			26		
.490	9.501 2498		9.524 2679		0.475 7321	9.976 9819		.510	
		227		252			25		
491	9.501 2725		9.524 2931		0.475 7069	9.976 9794	25	509	
492	9.501 2952	227	9.524 3183	252	0.475 6817	9.976 9769	25	508	
493	9.501 3178	226	9.524 3435	252	0.475 6565	9.976 9743	26	507	
		227		252			25		
494	9.501 3405		9.524 3687		0.475 6313	9.976 9718	25	506	
495	9.501 3632	227	9.524 3939	252	0.475 6061	9.976 9693	25	505	
496	9.501 3858	226	9.524 4191	252	0.475 5809	9.976 9667	26	504	
		227		252			25		
497	9.501 4085		9.524 4443		0.475 5557	9.976 9642	25	503	
498	9.501 4311	226	9.524 4695	252	0.475 5305	9.976 9617	25	502	
499	9.501 4538	227	9.524 4947	252	0.475 5053	9.976 9591	26	501	
		226		252			25		
.500	9.501 4764		9.524 5199		0.475 4801	9.976 9566		.500	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	253	252
1	25.3	25.2
2	50.6	50.4
3	75.9	75.6
4	101.2	100.8
5	126.5	126.0
6	151.8	151.2
7	177.1	176.4
8	202.4	201.6
9	227.7	226.8

	228	227
1	22.8	22.7
2	45.6	45.4
3	68.4	68.1
4	91.2	90.8
5	114.0	113.5
6	136.8	136.2
7	159.6	158.9
8	182.4	181.6
9	205.2	204.3

	226
1	22.6
2	45.2
3	67.8
4	90.4
5	113.0
6	135.6
7	158.2
8	180.8
9	203.4

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.550 — 71°.500

18°.500 — 18°.550

18°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.501 4764		9.524 5199		0.475 4801	9.976 9566		.500	
		227		252			26		
501	9.501 4991		9.524 5451		0.475 4549	9.976 9540		499	
502	9.501 5218	227	9.524 5702	251	0.475 4298	9.976 9515	25	498	
503	9.501 5444	226	9.524 5954	252	0.475 4046	9.976 9490	25	497	
		227		252			26		
504	9.501 5671		9.524 6206		0.475 3794	9.976 9464		496	
505	9.501 5897	226	9.524 6458	252	0.475 3542	9.976 9439	25	495	
506	9.501 6123	226	9.524 6710	252	0.475 3290	9.976 9414	25	494	
		227		252			26		
507	9.501 6350		9.524 6962		0.475 3038	9.976 9388		493	
508	9.501 6576	226	9.524 7213	251	0.475 2787	9.976 9363	25	492	
509	9.501 6803	227	9.524 7465	252	0.475 2535	9.976 9338	25	491	
		226		252			26		
.510	9.501 7029		9.524 7717		0.475 2283	9.976 9312		.490	
		227		252			25		
511	9.501 7256		9.524 7969		0.475 2031	9.976 9287		489	
512	9.501 7482	226	9.524 8221	252	0.475 1779	9.976 9261	26	488	
513	9.501 7708	226	9.524 8472	251	0.475 1528	9.976 9236	25	487	
		227		252			25		
514	9.501 7935		9.524 8724		0.475 1276	9.976 9211		486	
515	9.501 8161	226	9.524 8976	252	0.475 1024	9.976 9185	26	485	
516	9.501 8387	226	9.524 9228	252	0.475 0772	9.976 9160	25	484	
		227		251			26		
517	9.501 8614		9.524 9479		0.475 0521	9.976 9134		483	
518	9.501 8840	226	9.524 9731	252	0.475 0269	9.976 9109	25	482	
519	9.501 9066	226	9.524 9983	252	0.475 0017	9.976 9084	25	481	
		227		251			26		
.520	9.501 9293		9.525 0234		0.474 9766	9.976 9058		.480	
		226		252			25		
521	9.501 9519		9.525 0486		0.474 9514	9.976 9033		479	
522	9.501 9745	226	9.525 0738	252	0.474 9262	9.976 9008	25	478	
523	9.501 9971	226	9.525 0989	251	0.474 9011	9.976 8982	26	477	
		227		252			25		
524	9.502 0198		9.525 1241		0.474 8759	9.976 8957		476	
525	9.502 0424	226	9.525 1492	251	0.474 8508	9.976 8931	26	475	
526	9.502 0650	226	9.525 1744	252	0.474 8256	9.976 8906	25	474	
		226		252			25		
527	9.502 0876		9.525 1996		0.474 8004	9.976 8881		473	
528	9.502 1102	226	9.525 2247	251	0.474 7753	9.976 8855	26	472	
529	9.502 1329	227	9.525 2499	252	0.474 7501	9.976 8830	25	471	
		226		251			26		
.530	9.502 1555		9.525 2750		0.474 7250	9.976 8804		.470	
		226		252			25		
531	9.502 1781		9.525 3002		0.474 6998	9.976 8779		469	
532	9.502 2007	226	9.525 3253	251	0.474 6747	9.976 8754	25	468	
533	9.502 2233	226	9.525 3505	252	0.474 6495	9.976 8728	26	467	
		226		251			25		
534	9.502 2459		9.525 3756		0.474 6244	9.976 8703		466	
535	9.502 2685	226	9.525 4008	252	0.474 5992	9.976 8677	26	465	
536	9.502 2911	226	9.525 4259	251	0.474 5741	9.976 8652	25	464	
		226		252			26		
537	9.502 3137		9.525 4511		0.474 5489	9.976 8626		463	
538	9.502 3363	226	9.525 4762	251	0.474 5238	9.976 8601	25	462	
539	9.502 3589	226	9.525 5014	252	0.474 4986	9.976 8576	25	461	
		226		251			26		
.540	9.502 3815		9.525 5265		0.474 4735	9.976 8550		.460	
		226		252			25		
541	9.502 4041		9.525 5517		0.474 4483	9.976 8525		459	
542	9.502 4267	226	9.525 5768	251	0.474 4232	9.976 8499	26	458	
543	9.502 4493	226	9.525 6020	252	0.474 3980	9.976 8474	25	457	
		226		251			26		
544	9.502 4719		9.525 6271		0.474 3729	9.976 8448		456	
545	9.502 4945	226	9.525 6522	251	0.474 3478	9.976 8423	25	455	
546	9.502 5171	226	9.525 6774	252	0.474 3226	9.976 8398	25	454	
		226		251			26		
547	9.502 5397		9.525 7025		0.474 2975	9.976 8372		453	
548	9.502 5623	226	9.525 7276	251	0.474 2724	9.976 8347	25	452	
549	9.502 5849	226	9.525 7528	252	0.474 2472	9.976 8321	26	451	
		226		251			25		
.550	9.502 6075		9.525 7779		0.474 2221	9.976 8296		.450	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	252	251
1	25.2	25.1
2	50.4	50.2
3	75.6	75.3
4	100.8	100.4
5	126.0	125.5
6	151.2	150.6
7	176.4	175.7
8	201.6	200.8
9	226.8	225.9

	227
1	22.7
2	45.4
3	68.1
4	90.8
5	113.5
6	136.2
7	158.9
8	181.6
9	204.3

	226
1	22.6
2	45.2
3	67.8
4	90.4
5	113.0
6	135.6
7	158.2
8	180.8
9	203.4

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.500 — 71°.450

$18^\circ.550 - 18^\circ.600$

18°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.502 6075		9.525 7779		0.474 2221	9.976 8296		**.450**	
		226		251			26		
551	9.502 6301		9.525 8030		0.474 1970	9.976 8270		449	
		226		252			25		
552	9.502 6527		9.525 8282		0.474 1718	9.976 8245		448	
		226		251			25		
553	9.502 6753		9.525 8533		0.474 1467	9.976 8220		447	
		225		251			26		
554	9.502 6978		9.525 8784		0.474 1216	9.976 8194		446	
		226		252			25		
555	9.502 7204		9.525 9036		0.474 0964	9.976 8169		445	
		226		251			26		
556	9.502 7430		9.525 9287		0.474 0713	9.976 8143		444	
		226		251			25		
557	9.502 7656		9.525 9538		0.474 0462	9.976 8118		443	
		226		251			26		
558	9.502 7882		9.525 9789		0.474 0211	9.976 8092		442	
		225		251			25		
559	9.502 8107		9.526 0040		0.473 9960	9.976 8067		441	
		226		252			26		
.560	9.502 8333		9.526 0292		0.473 9708	9.976 8041		**.440**	
		226		251			25		
561	9.502 8559		9.526 0543		0.473 9457	9.976 8016		439	
		226		251			25		
562	9.502 8785		9.526 0794		0.473 9206	9.976 7991		438	
		225		251			26		
563	9.502 9010		9.526 1045		0.473 8955	9.976 7965		437	
		226		251			25		
564	9.502 9236		9.526 1296		0.473 8704	9.976 7940		436	
		226		252			26		
565	9.502 9462		9.526 1548		0.473 8452	9.976 7914		435	
		225		251			25		
566	9.502 9687		9.526 1799		0.473 8201	9.976 7889		434	
		226		251			26		
567	9.502 9913		9.526 2050		0.473 7950	9.976 7863		433	
		226		251			25		
568	9.503 0139		9.526 2301		0.473 7699	9.976 7838		432	
		225		251			26		
569	9.503 0364		9.526 2552		0.473 7448	9.976 7812		431	
		226		251			25		
.570	9.503 0590		9.526 2803		0.473 7197	9.976 7787		**.430**	
		226		251			26		
571	9.503 0816		9.526 3054		0.473 6946	9.976 7761		429	
		225		251			25		
572	9.503 1041		9.526 3305		0.473 6695	9.976 7736		428	
		226		251			25		
573	9.503 1267		9.526 3556		0.473 6444	9.976 7711		427	
		225		251			26		
574	9.503 1492		9.526 3807		0.473 6193	9.976 7685		426	
		226		251			25		
575	9.503 1718		9.526 4058		0.473 5942	9.976 7660		425	
		226		251			26		
576	9.503 1944		9.526 4309		0.473 5691	9.976 7634		424	
		225		251			25		
577	9.503 2169		9.526 4560		0.473 5440	9.976 7609		423	
		226		251			26		
578	9.503 2395		9.526 4811		0.473 5189	9.976 7583		422	
		225		251			25		
579	9.503 2620		9.526 5062		0.473 4938	9.976 7558		421	
		226		251			26		
.580	9.503 2846		9.526 5313		0.473 4687	9.976 7532		**.420**	
		225		251			25		
581	9.503 3071		9.526 5564		0.473 4436	9.976 7507		419	
		226		251			26		
582	9.503 3297		9.526 5815		0.473 4185	9.976 7481		418	
		225		251			25		
583	9.503 3522		9.526 6066		0.473 3934	9.976 7456		417	
		225		251			26		
584	9.503 3747		9.526 6317		0.473 3683	9.976 7430		416	
		226		251			25		
585	9.503 3973		9.526 6568		0.473 3432	9.976 7405		415	
		225		251			26		
586	9.503 4198		9.526 6819		0.473 3181	9.976 7379		414	
		226		251			25		
587	9.503 4424		9.526 7070		0.473 2930	9.976 7354		413	
		225		251			26		
588	9.503 4649		9.526 7321		0.473 2679	9.976 7328		412	
		225		251			25		
589	9.503 4874		9.526 7572		0.473 2428	9.976 7303		411	
		226		251			26		
.590	9.503 5100		9.526 7823		0.473 2177	9.976 7277		**.410**	
		225		250			25		
591	9.503 5325		9.526 8073		0.473 1927	9.976 7252		409	
		226		251			26		
592	9.503 5551		9.526 8324		0.473 1676	9.976 7226		408	
		225		251			25		
593	9.503 5776		9.526 8575		0.473 1425	9.976 7201		407	
		225		251			26		
594	9.503 6001		9.526 8826		0.473 1174	9.976 7175		406	
		226		251			25		
595	9.503 6227		9.526 9077		0.473 0923	9.976 7150		405	
		225		250			26		
596	9.503 6452		9.526 9327		0.473 0673	9.976 7124		404	
		225		251			25		
597	9.503 6677		9.526 9578		0.473 0422	9.976 7099		403	
		225		251			26		
598	9.503 6902		9.526 9829		0.473 0171	9.976 7073		402	
		226		251			25		
599	9.503 7128		9.527 0080		0.472 9920	9.976 7048		401	
		225		251			26		
.600	9.503 7353		9.527 0331		0.472 9669	9.976 7022		**.400**	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	252	251
1	25.2	25.1
2	50.4	50.2
3	75.6	75.3
4	100.8	100.4
5	126.0	125.5
6	151.2	150.6
7	176.4	175.7
8	201.6	200.8
9	226.8	225.9

	250
1	25.0
2	50.0
3	75.0
4	100.0
5	125.0
6	150.0
7	175.0
8	200.0
9	225.0

	226	225
1	22.6	22.5
2	45.2	45.0
3	67.8	67.5
4	90.4	90.0
5	113.0	112.5
6	135.6	135.0
7	158.2	157.5
8	180.8	180.0
9	203.4	202.5

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

$71^\circ.450 - 71^\circ.400$

18°.600 — 18°.650

18°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.503 7353		9.527 0331		0.472 9669	9.976 7022		.400	
		225		250			25		
601	9.503 7578		9.527 0581		0.472 9419	9.976 6997		399	
602	9.503 7803	225	9.527 0832	251	0.472 9168	9.976 6971	26	398	
603	9.503 8028	225	9.527 1083	251	0.472 8917	9.976 6946	25	397	
		226		250			26		
604	9.503 8254		9.527 1333		0.472 8667	9.976 6920		396	
605	9.503 8479	225	9.527 1584	251	0.472 8416	9.976 6895	25	395	
606	9.503 8704	225	9.527 1835	251	0.472 8165	9.976 6869	26	394	
		225		250			25		
607	9.503 8929		9.527 2085		0.472 7915	9.976 6844		393	
608	9.503 9154	225	9.527 2336	251	0.472 7664	9.976 6818	26	392	
609	9.503 9379	225	9.527 2587	251	0.472 7413	9.976 6793	25	391	
		225		250			26		
.610	9.503 9604		9.527 2837		0.472 7163	9.976 6767		.390	
		226		251			25		
611	9.503 9830		9.527 3088		0.472 6912	9.976 6742		389	
612	9.504 0055	225	9.527 3339	251	0.472 6661	9.976 6716	26	388	
613	9.504 0280	225	9.527 3589	250	0.472 6411	9.976 6691	25	387	
		225		251			26		
614	9.504 0505		9.527 3840		0.472 6160	9.976 6665		386	
615	9.504 0730	225	9.527 4090	250	0.472 5910	9.976 6639	26	385	
616	9.504 0955	225	9.527 4341	251	0.472 5659	9.976 6614	25	384	
		225		250			26		
617	9.504 1180		9.527 4591		0.472 5409	9.976 6588		383	
618	9.504 1405	225	9.527 4842	251	0.472 5158	9.976 6563	25	382	
619	9.504 1630	225	9.527 5093	251	0.472 4907	9.976 6537	26	381	
		225		250			25		
.620	9.504 1855		9.527 5343		0.472 4657	9.976 6512		.380	
		225		251			26		
621	9.504 2080		9.527 5594		0.472 4406	9.976 6486		379	
622	9.504 2305	225	9.527 5844	250	0.472 4156	9.976 6461	25	378	
623	9.504 2530	225	9.527 6095	251	0.472 3905	9.976 6435	26	377	
		225		250			25		
624	9.504 2755		9.527 6345		0.472 3655	9.976 6410		376	
625	9.504 2980	225	9.527 6595	250	0.472 3405	9.976 6384	26	375	
626	9.504 3204	224	9.527 6846	251	0.472 3154	9.976 6359	25	374	
		225		250			26		
627	9.504 3429		9.527 7096		0.472 2904	9.976 6333		373	
628	9.504 3654	225	9.527 7347	251	0.472 2653	9.976 6307	26	372	
629	9.504 3879	225	9.527 7597	250	0.472 2403	9.976 6282	25	371	
		225		251			26		
.630	9.504 4104		9.527 7848		0.472 2152	9.976 6256		.370	
		225		250			25		
631	9.504 4329		9.527 8098		0.472 1902	9.976 6231		369	
632	9.504 4554	225	9.527 8348	250	0.472 1652	9.976 6205	26	368	
633	9.504 4778	224	9.527 8599	251	0.472 1401	9.976 6180	25	367	
		225		250			26		
634	9.504 5003		9.527 8849		0.472 1151	9.976 6154		366	
635	9.504 5228	225	9.527 9099	250	0.472 0901	9.976 6129	25	365	
636	9.504 5453	225	9.527 9350	251	0.472 0650	9.976 6103	26	364	
		224		250			26		
637	9.504 5677		9.527 9600		0.472 0400	9.976 6077		363	
638	9.504 5902	225	9.527 9850	250	0.472 0150	9.976 6052	25	362	
639	9.504 6127	225	9.528 0101	251	0.471 9899	9.976 6026	26	361	
		225		250			25		
.640	9.504 6352		9.528 0351		0.471 9649	9.976 6001		.360	
		224		250			26		
641	9.504 6576		9.528 0601		0.471 9399	9.976 5975		359	
642	9.504 6801	225	9.528 0851	250	0.471 9149	9.976 5950	25	358	
643	9.504 7026	225	9.528 1102	251	0.471 8898	9.976 5924	26	357	
		224		250			26		
644	9.504 7250		9.528 1352		0.471 8648	9.976 5898		356	
645	9.504 7475	225	9.528 1602	250	0.471 8398	9.976 5873	25	355	
646	9.504 7700	225	9.528 1852	250	0.471 8148	9.976 5847	26	354	
		224		251			25		
647	9.504 7924		9.528 2103		0.471 7897	9.976 5822		353	
648	9.504 8149	225	9.528 2353	250	0.471 7647	9.976 5796	26	352	
649	9.504 8374	225	9.528 2603	250	0.471 7397	9.976 5771	25	351	
		224		250			26		
.650	9.504 8598		9.528 2853		0.471 7147	9.976 5745		.350	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	251	250
1	25.1	25.0
2	50.2	50.0
3	75.3	75.0
4	100.4	100.0
5	125.5	125.0
6	150.6	150.0
7	175.7	175.0
8	200.8	200.0
9	225.9	225.0

	226	225
1	22.6	22.5
2	45.2	45.0
3	67.8	67.5
4	90.4	90.0
5	113.0	112.5
6	135.6	135.0
7	158.2	157.5
8	180.8	180.0
9	203.4	202.5

	224
1	22.4
2	44.8
3	67.2
4	89.6
5	112.0
6	134.4
7	156.8
8	179.2
9	201.6

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.400 — 71°.350

18°.650 — 18°.700

18°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.504 8598		9.528 2853		0.471 7147	9.976 5745		**.350**	
		225		250			26		
651	9.504 8823		9.528 3103		0.471 6897	9.976 5719		349	
652	9.504 9047	224	9.528 3353	250	0.471 6647	9.976 5694	25	348	
653	9.504 9272	225	9.528 3604	251	0.471 6396	9.976 5668	26	347	
		224		250			25		
654	9.504 9496		9.528 3854		0.471 6146	9.976 5643		346	
655	9.504 9721	225	9.528 4104	250	0.471 5896	9.976 5617	26	345	
656	9.504 9945	224	9.528 4354	250	0.471 5646	9.976 5591	26	344	
		225		250			25		
657	9.505 0170		9.528 4604		0.471 5396	9.976 5566		343	
658	9.505 0394	224	9.528 4854	250	0.471 5146	9.976 5540	26	342	
659	9.505 0619	225	9.528 5104	250	0.471 4896	9.976 5515	25	341	
		224		250			26		
.660	9.505 0843		9.528 5354		0.471 4646	9.976 5489		**.340**	
		225		250			26		
661	9.505 1068		9.528 5604		0.471 4396	9.976 5463		339	
662	9.505 1292	224	9.528 5854	250	0.471 4146	9.976 5438	25	338	
663	9.505 1517	225	9.528 6104	250	0.471 3896	9.976 5412	26	337	
		224		250			25		
664	9.505 1741		9.528 6354		0.471 3646	9.976 5387		336	
665	9.505 1965	224	9.528 6604	250	0.471 3396	9.976 5361	26	335	
666	9.505 2190	225	9.528 6854	250	0.471 3146	9.976 5335	26	334	
		224		250			25		
667	9.505 2414		9.528 7104		0.471 2896	9.976 5310		333	
668	9.505 2639	225	9.528 7354	250	0.471 2646	9.976 5284	26	332	
669	9.505 2863	224	9.528 7604	250	0.471 2396	9.976 5259	25	331	
		224		250			26		
.670	9.505 3087		9.528 7854		0.471 2146	9.976 5233		**.330**	
		225		250			26		
671	9.505 3312		9.528 8104		0.471 1896	9.976 5207		329	
672	9.505 3536	224	9.528 8354	250	0.471 1646	9.976 5182	25	328	
673	9.505 3760	224	9.528 8604	250	0.471 1396	9.976 5156	26	327	
		224		250			25		
674	9.505 3984		9.528 8854		0.471 1146	9.976 5131		326	
675	9.505 4209	225	9.528 9104	250	0.471 0896	9.976 5105	26	325	
676	9.505 4433	224	9.528 9354	250	0.471 0646	9.976 5079	26	324	
		224		249			25		
677	9.505 4657		9.528 9603		0.471 0397	9.976 5054		323	
678	9.505 4881	224	9.528 9853	250	0.471 0147	9.976 5028	26	322	
679	9.505 5106	225	9.529 0103	250	0.470 9897	9.976 5002	26	321	
		224		250			25		
.680	9.505 5330		9.529 0353		0.470 9647	9.976 4977		**.320**	
		224		250			26		
681	9.505 5554		9.529 0603		0.470 9397	9.976 4951		319	
682	9.505 5778	224	9.529 0853	250	0.470 9147	9.976 4926	25	318	
683	9.505 6002	224	9.529 1102	249	0.470 8898	9.976 4900	26	317	
		225		250			26		
684	9.505 6227		9.529 1352		0.470 8648	9.976 4874		316	
685	9.505 6451	224	9.529 1602	250	0.470 8398	9.976 4849	25	315	
686	9.505 6675	224	9.529 1852	250	0.470 8148	9.976 4823	26	314	
		224		249			26		
687	9.505 6899		9.529 2101		0.470 7899	9.976 4797		313	
688	9.505 7123	224	9.529 2351	250	0.470 7649	9.976 4772	25	312	
689	9.505 7347	224	9.529 2601	250	0.470 7399	9.976 4746	26	311	
		224		250			25		
.690	9.505 7571		9.529 2851		0.470 7149	9.976 4721		**.310**	
		224		249			26		
691	9.505 7795		9.529 3100		0.470 6900	9.976 4695		309	
692	9.505 8019	224	9.529 3350	250	0.470 6650	9.976 4669	26	308	
693	9.505 8243	224	9.529 3600	250	0.470 6400	9.976 4644	25	307	
		224		249			26		
694	9.505 8467		9.529 3849		0.470 6151	9.976 4618		306	
695	9.505 8691	224	9.529 4099	250	0.470 5901	9.976 4592	26	305	
696	9.505 8915	224	9.529 4349	250	0.470 5651	9.976 4567	25	304	
		224		249			26		
697	9.505 9139		9.529 4598		0.470 5402	9.976 4541		303	
698	9.505 9363	224	9.529 4848	250	0.470 5152	9.976 4515	26	302	
699	9.505 9587	224	9.529 5098	250	0.470 4902	9.976 4490	25	301	
		224		249			26		
.700	9.505 9811		9.529 5347		0.470 4653	9.976 4464		**.300**	
	cos	d	cotg	d	tang	sin	d	**71°**	P.P.

71°.350 — 71°.300

	251	250
1	25.1	25.0
2	50.2	50.0
3	75.3	75.0
4	100.4	100.0
5	125.5	125.0
6	150.6	150.0
7	175.7	175.0
8	200.8	200.0
9	225.9	225.0

	249
1	24.9
2	49.8
3	74.7
4	99.6
5	124.5
6	149.4
7	174.3
8	199.2
9	224.1

	225	224
1	22.5	22.4
2	45.0	44.8
3	67.5	67.2
4	90.0	89.6
5	112.5	112.0
6	135.0	134.4
7	157.5	156.8
8	180.0	179.2
9	202.5	201.6

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

18°.700 — 18°.750

18°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.505 9811		9.529 5347		0.470 4653	9.976 4464		.300	
		224		250			26		
701	9.506 0035		9.529 5597		0.470 4403	9.976 4438		299	
702	9.506 0259	224	9.529 5846	249	0.470 4154	9.976 4413	25	298	
703	9.506 0483	224	9.529 6096	250	0.470 3904	9.976 4387	26	297	
		224		249			26		
704	9.506 0707		9.529 6345		0.470 3655	9.976 4361		296	
705	9.506 0931	224	9.529 6595	250	0.470 3405	9.976 4336	25	295	
706	9.506 1155	224	9.529 6844	249	0.470 3156	9.976 4310	26	294	
		223		250			26		
707	9.506 1378		9.529 7094		0.470 2906	9.976 4284		293	
708	9.506 1602	224	9.529 7344	250	0.470 2656	9.976 4259	25	292	
709	9.506 1826	224	9.529 7593	249	0.470 2407	9.976 4233	26	291	
		224		250			26		
.710	9.506 2050		9.529 7843		0.470 2157	9.976 4207		.290	
		224		249			25		
711	9.506 2274		9.529 8092		0.470 1908	9.976 4182		289	
712	9.506 2497	223	9.529 8341	249	0.470 1659	9.976 4156	26	288	
713	9.506 2721	224	9.529 8591	250	0.470 1409	9.976 4130	26	287	
		224		249			25		
714	9.506 2945		9.529 8840		0.470 1160	9.976 4105		286	
715	9.506 3169	224	9.529 9090	250	0.470 0910	9.976 4079	26	285	
716	9.506 3393	224	9.529 9339	249	0.470 0661	9.976 4053	26	284	
		223		250			25		
717	9.506 3616		9.529 9589		0.470 0411	9.976 4028		283	
718	9.506 3840	224	9.529 9838	249	0.470 0162	9.976 4002	26	282	
719	9.506 4064	224	9.530 0087	249	0.469 9913	9.976 3976	26	281	
		223		250			25		
.720	9.506 4287		9.530 0337		0.469 9663	9.976 3951		.280	
		224		249			26		
721	9.506 4511		9.530 0586		0.469 9414	9.976 3925		279	
722	9.506 4735	224	9.530 0835	249	0.469 9165	9.976 3899	26	278	
723	9.506 4958	223	9.530 1085	250	0.469 8915	9.976 3874	25	277	
		224		249			26		
724	9.506 5182		9.530 1334		0.469 8666	9.976 3848		276	
725	9.506 5406	224	9.530 1583	249	0.469 8417	9.976 3822	26	275	
726	9.506 5629	223	9.530 1833	250	0.469 8167	9.976 3796	26	274	
		224		249			25		
727	9.506 5853		9.530 2082		0.469 7918	9.976 3771		273	
728	9.506 6076	223	9.530 2331	249	0.469 7669	9.976 3745	26	272	
729	9.506 6300	224	9.530 2581	250	0.469 7419	9.976 3719	26	271	
		223		249			25		
.730	9.506 6523		9.530 2830		0.469 7170	9.976 3694		.270	
		224		249			26		
731	9.506 6747		9.530 3079		0.469 6921	9.976 3668		269	
732	9.506 6971	224	9.530 3328	249	0.469 6672	9.976 3642	26	268	
733	9.506 7194	223	9.530 3578	250	0.469 6422	9.976 3617	25	267	
		224		249			26		
734	9.506 7418		9.530 3827		0.469 6173	9.976 3591		266	
735	9.506 7641	223	9.530 4076	249	0.469 5924	9.976 3565	26	265	
736	9.506 7865	224	9.530 4325	249	0.469 5675	9.976 3539	26	264	
		223		249			25		
737	9.506 8088		9.530 4574		0.469 5426	9.976 3514		263	
738	9.506 8311	223	9.530 4823	249	0.469 5177	9.976 3488	26	262	
739	9.506 8535	224	9.530 5073	250	0.469 4927	9.976 3462	26	261	
		223		249			25		
.740	9.506 8758		9.530 5322		0.469 4678	9.976 3437		.260	
		224		249			26		
741	9.506 8982		9.530 5571		0.469 4429	9.976 3411		259	
742	9.506 9205	223	9.530 5820	249	0.469 4180	9.976 3385	26	258	
743	9.506 9429	224	9.530 6069	249	0.469 3931	9.976 3359	26	257	
		223		249			25		
744	9.506 9652		9.530 6318		0.469 3682	9.976 3334		256	
745	9.506 9875	223	9.530 6567	249	0.469 3433	9.976 3308	26	255	
746	9.507 0099	224	9.530 6816	249	0.469 3184	9.976 3282	26	254	
		223		249			25		
747	9.507 0322		9.530 7065		0.469 2935	9.976 3257		253	
748	9.507 0545	223	9.530 7315	250	0.469 2685	9.976 3231	26	252	
749	9.507 0769	224	9.530 7564	249	0.469 2436	9.976 3205	26	251	
		223		249			26		
.750	9.507 0992		9.530 7813		0.469 2187	9.976 3179		.250	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	250	249
1	25.0	24.9
2	50.0	49.8
3	75.0	74.7
4	100.0	99.6
5	125.0	124.5
6	150.0	149.4
7	175.0	174.3
8	200.0	199.2
9	225.0	224.1

	224
1	22.4
2	44.8
3	67.2
4	89.6
5	112.0
6	134.4
7	156.8
8	179.2
9	201.6

	223
1	22.3
2	44.6
3	66.9
4	89.2
5	111.5
6	133.8
7	156.1
8	178.4
9	200.7

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.300 — 71°.250

18°.750 — 18°.800

18°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.507 0992		9.530 7813		0.469 2187	9.976 3179		.250	
		223		249			25		
751	9.507 1215		9.530 8062		0.469 1938	9.976 3154		249	
752	9.507 1439	224	9.530 8311	249	0.469 1689	9.976 3128	26	248	
753	9.507 1662	223	9.530 8560	249	0.469 1440	9.976 3102	26	247	
		223		249			26		
754	9.507 1885		9.530 8809		0.469 1191	9.976 3076		246	
755	9.507 2108	223	9.530 9058	249	0.469 0942	9.976 3051	25	245	
756	9.507 2332	224	9.530 9307	249	0.469 0693	9.976 3025	26	244	
		223		249			26		
757	9.507 2555		9.530 9556		0.469 0444	9.976 2999		243	
758	9.507 2778	223	9.530 9804	248	0.469 0196	9.976 2973	26	242	
759	9.507 3001	223	9.531 0053	249	0.468 9947	9.976 2948	25	241	
		223		249			26		
.760	9.507 3224		9.531 0302		0.468 9698	9.976 2922		.240	
		223		249			26		
761	9.507 3447		9.531 0551		0.468 9449	9.976 2896		239	
762	9.507 3671	224	9.531 0800	249	0.468 9200	9.976 2870	26	238	
763	9.507 3894	223	9.531 1049	249	0.468 8951	9.976 2845	25	237	
		223		249			26		
764	9.507 4117		9.531 1298		0.468 8702	9.976 2819		236	
765	9.507 4340	223	9.531 1547	249	0.468 8453	9.976 2793	26	235	
766	9.507 4563	223	9.531 1796	249	0.468 8204	9.976 2767	26	234	
		223		248			25		
767	9.507 4786		9.531 2044		0.468 7956	9.976 2742		233	
768	9.507 5009	223	9.531 2293	249	0.468 7707	9.976 2716	26	232	
769	9.507 5232	223	9.531 2542	249	0.468 7458	9.976 2690	26	231	
		223		249			26		
.770	9.507 5455		9.531 2791		0.468 7209	9.976 2664		.230	
		223		249			25		
771	9.507 5678		9.531 3040		0.468 6960	9.976 2639		229	
772	9.507 5901	223	9.531 3288	248	0.468 6712	9.976 2613	26	228	
773	9.507 6124	223	9.531 3537	249	0.468 6463	9.976 2587	26	227	
		223		249			26		
774	9.507 6347		9.531 3786		0.468 6214	9.976 2561		226	
775	9.507 6570	223	9.531 4035	249	0.468 5965	9.976 2536	25	225	
776	9.507 6793	223	9.531 4283	248	0.468 5717	9.976 2510	26	224	
		223		249			26		
777	9.507 7016		9.531 4532		0.468 5468	9.976 2484		223	
778	9.507 7239	223	9.531 4781	249	0.468 5219	9.976 2458	26	222	
779	9.507 7462	223	9.531 5030	249	0.468 4970	9.976 2433	25	221	
		223		248			26		
.780	9.507 7685		9.531 5278		0.468 4722	9.976 2407		.220	
		223		249			26		
781	9.507 7908		9.531 5527		0.468 4473	9.976 2381		219	
782	9.507 8131	223	9.531 5776	249	0.468 4224	9.976 2355	26	218	
783	9.507 8354	223	9.531 6024	248	0.468 3976	9.976 2329	26	217	
		223		249			25		
784	9.507 8577		9.531 6273		0.468 3727	9.976 2304		216	
785	9.507 8799	222	9.531 6522	249	0.468 3478	9.976 2278	26	215	
786	9.507 9022	223	9.531 6770	248	0.468 3230	9.976 2252	26	214	
		223		249			26		
787	9.507 9245		9.531 7019		0.468 2981	9.976 2226		213	
788	9.507 9468	223	9.531 7267	248	0.468 2733	9.976 2201	25	212	
789	9.507 9691	223	9.531 7516	249	0.468 2484	9.976 2175	26	211	
		223		249			26		
.790	9.507 9914		9.531 7765		0.468 2235	9.976 2149		.210	
		222		248			26		
791	9.508 0136		9.531 8013		0.468 1987	9.976 2123		209	
792	9.508 0359	223	9.531 8262	249	0.468 1738	9.976 2097	26	208	
793	9.508 0582	223	9.531 8510	248	0.468 1490	9.976 2072	25	207	
		223		249			26		
794	9.508 0805		9.531 8759		0.468 1241	9.976 2046		206	
795	9.508 1027	222	9.531 9007	248	0.468 0993	9.976 2020	26	205	
796	9.508 1250	223	9.531 9256	249	0.468 0744	9.976 1994	26	204	
		223		248			26		
797	9.508 1473		9.531 9504		0.468 0496	9.976 1968		203	
798	9.508 1695	222	9.531 9753	249	0.468 0247	9.976 1943	25	202	
799	9.508 1918	223	9.532 0001	248	0.467 9999	9.976 1917	26	201	
		223		249			26		
.800	9.508 2141		9.532 0250		0.467 9750	9.976 1891		.200	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	249	248
1	24.9	24.8
2	49.8	49.6
3	74.7	74.4
4	99.6	99.2
5	124.5	124.0
6	149.4	148.8
7	174.3	173.6
8	199.2	198.4
9	224.1	223.2

	224	223
1	22.4	22.3
2	44.8	44.6
3	67.2	66.9
4	89.6	89.2
5	112.0	111.5
6	134.4	133.8
7	156.8	156.1
8	179.2	178.4
9	201.6	200.7

	222
1	22.2
2	44.4
3	66.6
4	88.8
5	111.0
6	133.2
7	155.4
8	177.6
9	199.8

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.250 — 71°.200

18°.800 — 18°.850

18°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.508 2141		9.532 0250		0.467 9750	9.976 1891		.200	
		222		248			26		
801	9.508 2363		9.532 0498		0.467 9502	9.976 1865		199	
802	9.508 2586	223	9.532 0747	249	0.467 9253	9.976 1839	26	198	
803	9.508 2809	223	9.532 0995	248	0.467 9005	9.976 1814	25	197	
		222		249			26		
804	9.508 3031		9.532 1244		0.467 8756	9.976 1788		196	
805	9.508 3254	223	9.532 1492	248	0.467 8508	9.976 1762	26	195	
806	9.508 3476	222	9.532 1740	248	0.467 8260	9.976 1736	26	194	
		223		249			26		
807	9.508 3699		9.532 1989		0.467 8011	9.976 1710		193	
808	9.508 3922	223	9.532 2237	248	0.467 7763	9.976 1685	25	192	
809	9.508 4144	222	9.532 2485	248	0.467 7515	9.976 1659	26	191	
		223		249			26		
.810	9.508 4367		9.532 2734		0.467 7266	9.976 1633		.190	
		222		248			26		
811	9.508 4589		9.532 2982		0.467 7018	9.976 1607		189	
812	9.508 4812	223	9.532 3231	249	0.467 6769	9.976 1581	26	188	
813	9.508 5034	222	9.532 3479	248	0.467 6521	9.976 1555	26	187	
		223		248			25		
814	9.508 5257		9.532 3727		0.467 6273	9.976 1530		186	
815	9.508 5479	222	9.532 3975	248	0.467 6025	9.976 1504	26	185	
816	9.508 5702	223	9.532 4224	249	0.467 5776	9.976 1478	26	184	
		222		248			26		
817	9.508 5924		9.532 4472		0.467 5528	9.976 1452		183	
818	9.508 6147	223	9.532 4720	248	0.467 5280	9.976 1426	26	182	
819	9.508 6369	222	9.532 4969	249	0.467 5031	9.976 1400	26	181	
		222		248			25		
.820	9.508 6591		9.532 5217		0.467 4783	9.976 1375		.180	
		223		248			26		
821	9.508 6814		9.532 5465		0.467 4535	9.976 1349		179	
822	9.508 7036	222	9.532 5713	248	0.467 4287	9.976 1323	26	178	
823	9.508 7259	223	9.532 5961	248	0.467 4039	9.976 1297	26	177	
		222		249			26		
824	9.508 7481		9.532 6210		0.467 3790	9.976 1271		176	
825	9.508 7703	222	9.532 6458	248	0.467 3542	9.976 1245	26	175	
826	9.508 7926	223	9.532 6706	248	0.467 3294	9.976 1220	25	174	
		222		248			26		
827	9.508 8148		9.532 6954		0.467 3046	9.976 1194		173	
828	9.508 8370	222	9.532 7202	248	0.467 2798	9.976 1168	26	172	
829	9.508 8592	222	9.532 7450	248	0.467 2550	9.976 1142	26	171	
		223		249			26		
.830	9.508 8815		9.532 7699		0.467 2301	9.976 1116		.170	
		222		248			26		
831	9.508 9037		9.532 7947		0.467 2053	9.976 1090		169	
832	9.508 9259	222	9.532 8195	248	0.467 1805	9.976 1065	25	168	
833	9.508 9482	223	9.532 8443	248	0.467 1557	9.976 1039	26	167	
		222		248			26		
834	9.508 9704		9.532 8691		0.467 1309	9.976 1013		166	
835	9.508 9926	222	9.532 8939	248	0.467 1061	9.976 0987	26	165	
836	9.509 0148	222	9.532 9187	248	0.467 0813	9.976 0961	26	164	
		222		248			26		
837	9.509 0370		9.532 9435		0.467 0565	9.976 0935		163	
838	9.509 0593	223	9.532 9683	248	0.467 0317	9.976 0909	26	162	
839	9.509 0815	222	9.532 9931	248	0.467 0069	9.976 0884	25	161	
		222		248			26		
.840	9.509 1037		9.533 0179		0.466 9821	9.976 0858		.160	
		222		248			26		
841	9.509 1259		9.533 0427		0.466 9573	9.976 0832		159	
842	9.509 1481	222	9.533 0675	248	0.466 9325	9.976 0806	26	158	
843	9.509 1703	222	9.533 0923	248	0.466 9077	9.976 0780	26	157	
		222		248			26		
844	9.509 1925		9.533 1171		0.466 8829	9.976 0754		156	
845	9.509 2147	222	9.533 1419	248	0.466 8581	9.976 0728	26	155	
846	9.509 2370	223	9.533 1667	248	0.466 8333	9.976 0702	26	154	
		222		248			25		
847	9.509 2592		9.533 1915		0.466 8085	9.976 0677		153	
848	9.509 2814	222	9.533 2163	248	0.466 7837	9.976 0651	26	152	
849	9.509 3036	222	9.533 2411	248	0.466 7589	9.976 0625	26	151	
		222		248			26		
.850	9.509 3258		9.533 2659		0.466 7341	9.976 0599		.150	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	249	248
1	24.9	24.8
2	49.8	49.6
3	74.7	74.4
4	99.6	99.2
5	124.5	124.0
6	149.4	148.8
7	174.3	173.6
8	199.2	198.4
9	224.1	223.2

	223
1	22.3
2	44.6
3	66.9
4	89.2
5	111.5
6	133.8
7	156.1
8	178.4
9	200.7

	222
1	22.2
2	44.4
3	66.6
4	88.8
5	111.0
6	133.2
7	155.4
8	177.6
9	199.8

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.200 — 71°.150

18°.850 — 18°.900

18°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.509 3258		9.533 2659		0.466 7341	9.976 0599		**.150**	
		222		248			26		
851	9.509 3480		9.533 2907		0.466 7093	9.976 0573		149	
852	9.509 3702	222	9.533 3155	248	0.466 6845	9.976 0547	26	148	
853	9.509 3924	222	9.533 3402	247	0.466 6598	9.976 0521	26	147	
854	9.509 4146	222	9.533 3650	248	0.466 6350	9.976 0495	26	146	
855	9.509 4368	222	9.533 3898	248	0.466 6102	9.976 0470	25	145	
856	9.509 4590	222	9.533 4146	248	0.466 5854	9.976 0444	26	144	
857	9.509 4812	222	9.533 4394	248	0.466 5606	9.976 0418	26	143	
858	9.509 5034	222	9.533 4642	248	0.466 5358	9.976 0392	26	142	
859	9.509 5255	221	9.533 4889	247	0.466 5111	9.976 0366	26	141	
.860	9.509 5477	222	9.533 5137	248	0.466 4863	9.976 0340	26	**.140**	
861	9.509 5699	222	9.533 5385	248	0.466 4615	9.976 0314	26	139	
862	9.509 5921	222	9.533 5633	248	0.466 4367	9.976 0288	26	138	
863	9.509 6143	222	9.533 5881	247	0.466 4119	9.976 0262	26	137	
864	9.509 6365	222	9.533 6128	248	0.466 3872	9.976 0237	25	136	
865	9.509 6587	222	9.533 6376	248	0.466 3624	9.976 0211	26	135	
866	9.509 6808	221	9.533 6624	247	0.466 3376	9.976 0185	26	134	
867	9.509 7030	222	9.533 6871	248	0.466 3129	9.976 0159	26	133	
868	9.509 7252	222	9.533 7119	248	0.466 2881	9.976 0133	26	132	
869	9.509 7474	222	9.533 7367	248	0.466 2633	9.976 0107	26	131	
.870	9.509 7696	221	9.533 7615	247	0.466 2385	9.976 0081	26	**.130**	
871	9.509 7917	222	9.533 7862	248	0.466 2138	9.976 0055	26	129	
872	9.509 8139	222	9.533 8110	248	0.466 1890	9.976 0029	26	128	
873	9.509 8361	222	9.533 8358	247	0.466 1642	9.976 0003	26	127	
874	9.509 8583	221	9.533 8605	248	0.466 1395	9.975 9977	25	126	
875	9.509 8804	222	9.533 8853	247	0.466 1147	9.975 9952	26	125	
876	9.509 9026	222	9.533 9100	248	0.466 0900	9.975 9926	26	124	
877	9.509 9248	221	9.533 9348	248	0.466 0652	9.975 9900	26	123	
878	9.509 9469	222	9.533 9596	247	0.466 0404	9.975 9874	26	122	
879	9.509 9691	222	9.533 9843	248	0.466 0157	9.975 9848	26	121	
.880	9.509 9913	221	9.534 0091	247	0.465 9909	9.975 9822	26	**.120**	
881	9.510 0134	222	9.534 0338	248	0.465 9662	9.975 9796	26	119	
882	9.510 0356	222	9.534 0586	247	0.465 9414	9.975 9770	26	118	
883	9.510 0578	221	9.534 0833	248	0.465 9167	9.975 9744	26	117	
884	9.510 0799	222	9.534 1081	247	0.465 8919	9.975 9718	26	116	
885	9.510 1021	221	9.534 1328	248	0.465 8672	9.975 9692	26	115	
886	9.510 1242	222	9.534 1576	247	0.465 8424	9.975 9666	26	114	
887	9.510 1464	221	9.534 1823	248	0.465 8177	9.975 9640	25	113	
888	9.510 1685	222	9.534 2071	247	0.465 7929	9.975 9615	26	112	
889	9.510 1907	221	9.534 2318	248	0.465 7682	9.975 9589	26	111	
.890	9.510 2128	222	9.534 2566	247	0.465 7434	9.975 9563	26	**.110**	
891	9.510 2350	221	9.534 2813	248	0.465 7187	9.975 9537	26	109	
892	9.510 2571	222	9.534 3061	247	0.465 6939	9.975 9511	26	108	
893	9.510 2793	221	9.534 3308	248	0.465 6692	9.975 9485	26	107	
894	9.510 3014	222	9.534 3556	247	0.465 6444	9.975 9459	26	106	
895	9.510 3236	221	9.534 3803	247	0.465 6197	9.975 9433	26	105	
896	9.510 3457	222	9.534 4050	248	0.465 5950	9.975 9407	26	104	
897	9.510 3679	221	9.534 4298	247	0.465 5702	9.975 9381	26	103	
898	9.510 3900	222	9.534 4545	247	0.465 5455	9.975 9355	26	102	
899	9.510 4122	221	9.534 4792	248	0.465 5208	9.975 9329	26	101	
.900	9.510 4343		9.534 5040		0.465 4960	9.975 9303		**.100**	
	cos	d	cotg	d	tang	sin	d	**71°**	P.P.

	248	247
1	24.8	24.7
2	49.6	49.4
3	74.4	74.1
4	99.2	98.8
5	124.0	123.5
6	148.8	148.2
7	173.6	172.9
8	198.4	197.6
9	223.2	222.3

	222
1	22.2
2	44.4
3	66.6
4	88.8
5	111.0
6	133.2
7	155.4
8	177.6
9	199.8

	221
1	22.1
2	44.2
3	66.3
4	88.4
5	110.5
6	132.6
7	154.7
8	176.8
9	198.9

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

	25
1	2.5
2	5.0
3	7.5
4	10.0
5	12.5
6	15.0
7	17.5
8	20.0
9	22.5

71°.150 — 71°.100

18°.900 — 18°.950

18°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.510 4343		9.534 5040		0.465 4960	9.975 9303		.100	
		221		247			26		
901	9.510 4564		9.534 5287		0.465 4713	9.975 9277		099	
902	9.510 4786	222	9.534 5534	247	0.465 4466	9.975 9251	26	098	
903	9.510 5007	221	9.534 5782	248	0.465 4218	9.975 9225	26	097	
		221		247			26		
904	9.510 5228		9.534 6029		0.465 3971	9.975 9199		096	
905	9.510 5450	222	9.534 6276	247	0.465 3724	9.975 9173	26	095	
906	9.510 5671	221	9.534 6524	248	0.465 3476	9.975 9147	26	094	
		221		247			25		
907	9.510 5892		9.534 6771		0.465 3229	9.975 9122		093	
908	9.510 6114	222	9.534 7018	247	0.465 2982	9.975 9096	26	092	
909	9.510 6335	221	9.534 7265	247	0.465 2735	9.975 9070	26	091	
		221		248			26		
.910	9.510 6556		9.534 7513		0.465 2487	9.975 9044		.090	
		222		247			26		
911	9.510 6778		9.534 7760		0.465 2240	9.975 9018		089	
912	9.510 6999	221	9.534 8007	247	0.465 1993	9.975 8992	26	088	
913	9.510 7220	221	9.534 8254	247	0.465 1746	9.975 8966	26	087	
		221		247			26		
914	9.510 7441		9.534 8501		0.465 1499	9.975 8940		086	
915	9.510 7662	221	9.534 8749	248	0.465 1251	9.975 8914	26	085	
916	9.510 7884	222	9.534 8996	247	0.465 1004	9.975 8888	26	084	
		221		247			26		
917	9.510 8105		9.534 9243		0.465 0757	9.975 8862		083	
918	9.510 8326	221	9.534 9490	247	0.465 0510	9.975 8836	26	082	
919	9.510 8547	221	9.534 9737	247	0.465 0263	9.975 8810	26	081	
		221		247			26		
.920	9.510 8768		9.534 9984		0.465 0016	9.975 8784		.080	
		221		248			26		
921	9.510 8989		9.535 0232		0.464 9768	9.975 8758		079	
922	9.510 9211	222	9.535 0479	247	0.464 9521	9.975 8732	26	078	
923	9.510 9432	221	9.535 0726	247	0.464 9274	9.975 8706	26	077	
		221		247			26		
924	9.510 9653		9.535 0973		0.464 9027	9.975 8680		076	
925	9.510 9874	221	9.535 1220	247	0.464 8780	9.975 8654	26	075	
926	9.511 0095	221	9.535 1467	247	0.464 8533	9.975 8628	26	074	
		221		247			26		
927	9.511 0316		9.535 1714		0.464 8286	9.975 8602		073	
928	9.511 0537	221	9.535 1961	247	0.464 8039	9.975 8576	26	072	
929	9.511 0758	221	9.535 2208	247	0.464 7792	9.975 8550	26	071	
		221		247			26		
.930	9.511 0979		9.535 2455		0.464 7545	9.975 8524		.070	
		221		247			26		
931	9.511 1200		9.535 2702		0.464 7298	9.975 8498		069	
932	9.511 1421	221	9.535 2949	247	0.464 7051	9.975 8472	26	068	
933	9.511 1642	221	9.535 3196	247	0.464 6804	9.975 8446	26	067	
		221		247			26		
934	9.511 1863		9.535 3443		0.464 6557	9.975 8420		066	
935	9.511 2084	221	9.535 3690	247	0.464 6310	9.975 8394	26	065	
936	9.511 2305	221	9.535 3937	247	0.464 6063	9.975 8368	26	064	
		221		247			26		
937	9.511 2526		9.535 4184		0.464 5816	9.975 8342		063	
938	9.511 2747	221	9.535 4431	247	0.464 5569	9.975 8316	26	062	
939	9.511 2968	221	9.535 4678	247	0.464 5322	9.975 8290	26	061	
		221		247			26		
.940	9.511 3189		9.535 4925		0.464 5075	9.975 8264		.060	
		220		246			26		
941	9.511 3409		9.535 5171		0.464 4829	9.975 8238		059	
942	9.511 3630	221	9.535 5418	247	0.464 4582	9.975 8212	26	058	
943	9.511 3851	221	9.535 5665	247	0.464 4335	9.975 8186	26	057	
		221		247			26		
944	9.511 4072		9.535 5912		0.464 4088	9.975 8160		056	
945	9.511 4293	221	9.535 6159	247	0.464 3841	9.975 8134	26	055	
946	9.511 4514	221	9.535 6406	247	0.464 3594	9.975 8108	26	054	
		220		247			26		
947	9.511 4734		9.535 6653		0.464 3347	9.975 8082		053	
948	9.511 4955	221	9.535 6899	246	0.464 3101	9.975 8056	26	052	
949	9.511 5176	221	9.535 7146	247	0.464 2854	9.975 8030	26	051	
		221		247			26		
.950	9.511 5397		9.535 7393		0.464 2607	9.975 8004		.050	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	248	247
1	24.8	24.7
2	49.6	49.4
3	74.4	74.1
4	99.2	98.8
5	124.0	123.5
6	148.8	148.2
7	173.6	172.9
8	198.4	197.6
9	223.2	222.3

	246
1	24.6
2	49.2
3	73.8
4	98.4
5	123.0
6	147.6
7	172.2
8	196.8
9	221.4

	222	221
1	22.2	22.1
2	44.4	44.2
3	66.6	66.3
4	88.8	88.4
5	111.0	110.5
6	133.2	132.6
7	155.4	154.7
8	177.6	176.8
9	199.8	198.9

	220
1	22.0
2	44.0
3	66.0
4	88.0
5	110.0
6	132.0
7	154.0
8	176.0
9	198.0

	26	25
1	2.6	2.5
2	5.2	5.0
3	7.8	7.5
4	10.4	10.0
5	13.0	12.5
6	15.6	15.0
7	18.2	17.5
8	20.8	20.0
9	23.4	22.5

71°.100 — 71°.050

18°.950 — 19°.000

18°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.511 5397		9.535 7393		0.464 2607	9.975 8004		.050	
		221		247			26		
951	9.511 5618		9.535 7640		0.464 2360	9.975 7978		049	
952	9.511 5838	220	9.535 7887	247	0.464 2113	9.975 7952	26	048	
953	9.511 6059	221	9.535 8133	246	0.464 1867	9.975 7926	26	047	
		221		247			26		
954	9.511 6280		9.535 8380		0.464 1620	9.975 7900		046	
955	9.511 6500	220	9.535 8627	247	0.464 1373	9.975 7874	26	045	
956	9.511 6721	221	9.535 8874	247	0.464 1126	9.975 7848	26	044	
		221		246			26		
957	9.511 6942		9.535 9120		0.464 0880	9.975 7822		043	
958	9.511 7162	220	9.535 9367	247	0.464 0633	9.975 7796	26	042	
959	9.511 7383	221	9.535 9614	247	0.464 0386	9.975 7769	27	041	
		221		246			26		
.960	9.511 7604		9.535 9860		0.464 0140	9.975 7743		.040	
		220		247			26		
961	9.511 7824		9.536 0107		0.463 9893	9.975 7717		039	
962	9.511 8045	221	9.536 0354	247	0.463 9646	9.975 7691	26	038	
963	9.511 8266	221	9.536 0600	246	0.463 9400	9.975 7665	26	037	
		220		247			26		
964	9.511 8486		9.536 0847		0.463 9153	9.975 7639		036	
965	9.511 8707	221	9.536 1094	247	0.463 8906	9.975 7613	26	035	
966	9.511 8927	220	9.536 1340	246	0.463 8660	9.975 7587	26	034	
		221		247			26		
967	9.511 9148		9.536 1587		0.463 8413	9.975 7561		033	
968	9.511 9368	220	9.536 1833	246	0.463 8167	9.975 7535	26	032	
969	9.511 9589	221	9.536 2080	247	0.463 7920	9.975 7509	26	031	
		220		247			26		
.970	9.511 9809		9.536 2327		0.463 7673	9.975 7483		.030	
		221		246			26		
971	9.512 0030		9.536 2573		0.463 7427	9.975 7457		029	
972	9.512 0250	220	9.536 2820	247	0.463 7180	9.975 7431	26	028	
973	9.512 0471	221	9.536 3066	246	0.463 6934	9.975 7405	26	027	
		220		247			26		
974	9.512 0691		9.536 3313		0.463 6687	9.975 7379		026	
975	9.512 0912	221	9.536 3559	246	0.463 6441	9.975 7353	26	025	
976	9.512 1132	220	9.536 3806	247	0.463 6194	9.975 7327	26	024	
		221		246			26		
977	9.512 1353		9.536 4052		0.463 5948	9.975 7301		023	
978	9.512 1573	220	9.536 4299	247	0.463 5701	9.975 7274	27	022	
979	9.512 1794	221	9.536 4545	246	0.463 5455	9.975 7248	26	021	
		220		247			26		
.980	9.512 2014		9.536 4792		0.463 5208	9.975 7222		.020	
		220		246			26		
981	9.512 2234		9.536 5038		0.463 4962	9.975 7196		019	
982	9.512 2455	221	9.536 5285	247	0.463 4715	9.975 7170	26	018	
983	9.512 2675	220	9.536 5531	246	0.463 4469	9.975 7144	26	017	
		220		246			26		
984	9.512 2895		9.536 5777		0.463 4223	9.975 7118		016	
985	9.512 3116	221	9.536 6024	247	0.463 3976	9.975 7092	26	015	
986	9.512 3336	220	9.536 6270	246	0.463 3730	9.975 7066	26	014	
		220		247			26		
987	9.512 3556		9.536 6517		0.463 3483	9.975 7040		013	
988	9.512 3777	221	9.536 6763	246	0.463 3237	9.975 7014	26	012	
989	9.512 3997	220	9.536 7009	246	0.463 2991	9.975 6988	26	011	
		220		247			26		
.990	9.512 4217		9.536 7256		0.463 2744	9.975 6962		.010	
		220		246			27		
991	9.512 4437		9.536 7502		0.463 2498	9.975 6935		009	
992	9.512 4658	221	9.536 7748	246	0.463 2252	9.975 6909	26	008	
993	9.512 4878	220	9.536 7995	247	0.463 2005	9.975 6883	26	007	
		220		246			26		
994	9.512 5098		9.536 8241		0.463 1759	9.975 6857		006	
995	9.512 5318	220	9.536 8487	246	0.463 1513	9.975 6831	26	005	
996	9.512 5539	221	9.536 8733	246	0.463 1267	9.975 6805	26	004	
		220		247			26		
997	9.512 5759		9.536 8980		0.463 1020	9.975 6779		003	
998	9.512 5979	220	9.536 9226	246	0.463 0774	9.975 6753	26	002	
999	9.512 6199	220	9.536 9472	246	0.463 0528	9.975 6727	26	001	
		220		247			26		
*.000	9.512 6419		9.536 9719		0.463 0281	9.975 6701		.000	
	cos	d	cotg	d	tang	sin	d	71°	P.P.

	247	246
1	24.7	24.6
2	49.4	49.2
3	74.1	73.8
4	98.8	98.4
5	123.5	123.0
6	148.2	147.6
7	172.9	172.2
8	197.6	196.8
9	222.3	221.4

	221
1	22.1
2	44.2
3	66.3
4	88.4
5	110.5
6	132.6
7	154.7
8	176.8
9	198.9

	220
1	22.0
2	44.0
3	66.0
4	88.0
5	110.0
6	132.0
7	154.0
8	176.0
9	198.0

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

71°.050 — 71°.000

19°.000 — 19°.050

19°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.512 6419		9.536 9719		0.463 0281	9.975 6701		*000	
		220		246			26		
001	9.512 6639		9.536 9965		0.463 0035	9.975 6675		999	
002	9.512 6859	220	9.537 0211	246	0.462 9789	9.975 6648	27	998	
003	9.512 7080	221	9.537 0457	246	0.462 9543	9.975 6622	26	997	
		220		246			26		
004	9.512 7300		9.537 0703		0.462 9297	9.975 6596		996	
005	9.512 7520	220	9.537 0950	247	0.462 9050	9.975 6570	26	995	
006	9.512 7740	220	9.537 1196	246	0.462 8804	9.975 6544	26	994	
		220		246			26		
007	9.512 7960		9.537 1442		0.462 8558	9.975 6518		993	
008	9.512 8180	220	9.537 1688	246	0.462 8312	9.975 6492	26	992	
009	9.512 8400	220	9.537 1934	246	0.462 8066	9.975 6466	26	991	
		220		246			26		
.010	9.512 8620		9.537 2180		0.462 7820	9.975 6440		.990	
		220		246			27		
011	9.512 8840		9.537 2426		0.462 7574	9.975 6413		989	
012	9.512 9060	220	9.537 2673	247	0.462 7327	9.975 6387	26	988	
013	9.512 9280	220	9.537 2919	246	0.462 7081	9.975 6361	26	987	
		220		246			26		
014	9.512 9500		9.537 3165		0.462 6835	9.975 6335		986	
015	9.512 9720	220	9.537 3411	246	0.462 6589	9.975 6309	26	985	
016	9.512 9940	220	9.537 3657	246	0.462 6343	9.975 6283	26	984	
		220		246			26		
017	9.513 0160		9.537 3903		0.462 6097	9.975 6257		983	
018	9.513 0380	220	9.537 4149	246	0.462 5851	9.975 6231	26	982	
019	9.513 0599	219	9.537 4395	246	0.462 5605	9.975 6204	27	981	
		220		246			26		
.020	9.513 0819		9.537 4641		0.462 5359	9.975 6178		.980	
		220		246			26		
021	9.513 1039		9.537 4887		0.462 5113	9.975 6152		979	
022	9.513 1259	220	9.537 5133	246	0.462 4867	9.975 6126	26	978	
023	9.513 1479	220	9.537 5379	246	0.462 4621	9.975 6100	26	977	
		220		246			26		
024	9.513 1699		9.537 5625		0.462 4375	9.975 6074		976	
025	9.513 1919	220	9.537 5871	246	0.462 4129	9.975 6048	26	975	
026	9.513 2138	219	9.537 6117	246	0.462 3883	9.975 6022	26	974	
		220		246			27		
027	9.513 2358		9.537 6363		0.462 3637	9.975 5995		973	
028	9.513 2578	220	9.537 6609	246	0.462 3391	9.975 5969	26	972	
029	9.513 2798	220	9.537 6855	246	0.462 3145	9.975 5943	26	971	
		220		246			26		
.030	9.513 3018		9.537 7101		0.462 2899	9.975 5917		.970	
		219		246			26		
031	9.513 3237		9.537 7347		0.462 2653	9.975 5891		969	
032	9.513 3457	220	9.537 7592	245	0.462 2408	9.975 5865	26	968	
033	9.513 3677	220	9.537 7838	246	0.462 2162	9.975 5839	26	967	
		220		246			27		
034	9.513 3897		9.537 8084		0.462 1916	9.975 5812		966	
035	9.513 4116	219	9.537 8330	246	0.462 1670	9.975 5786	26	965	
036	9.513 4336	220	9.537 8576	246	0.462 1424	9.975 5760	26	964	
		220		246			26		
037	9.513 4556		9.537 8822		0.462 1178	9.975 5734		963	
038	9.513 4775	219	9.537 9068	246	0.462 0932	9.975 5708	26	962	
039	9.513 4995	220	9.537 9313	245	0.462 0687	9.975 5682	26	961	
		220		246			27		
.040	9.513 5215		9.537 9559		0.462 0441	9.975 5655		.960	
		219		246			26		
041	9.513 5434		9.537 9805		0.462 0195	9.975 5629		959	
042	9.513 5654	220	9.538 0051	246	0.461 9949	9.975 5603	26	958	
043	9.513 5873	219	9.538 0296	245	0.461 9704	9.975 5577	26	957	
		220		246			26		
044	9.513 6093		9.538 0542		0.461 9458	9.975 5551		956	
045	9.513 6313	220	9.538 0788	246	0.461 9212	9.975 5525	26	955	
046	9.513 6532	219	9.538 1034	246	0.461 8966	9.975 5499	26	954	
		220		245			27		
047	9.513 6752		9.538 1279		0.461 8721	9.975 5472		953	
048	9.513 6971	219	9.538 1525	246	0.461 8475	9.975 5446	26	952	
049	9.513 7191	220	9.538 1771	246	0.461 8229	9.975 5420	26	951	
		219		246			26		
.050	9.513 7410		9.538 2017		0.461 7983	9.975 5394		.950	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

71°.000 — 70°.950

	247	246
1	24.7	24.6
2	49.4	49.2
3	74.1	73.8
4	98.8	98.4
5	123.5	123.0
6	148.2	147.6
7	172.9	172.2
8	197.6	196.8
9	222.3	221.4

	245
1	24.5
2	49.0
3	73.5
4	98.0
5	122.5
6	147.0
7	171.5
8	196.0
9	220.5

	221	220
1	22.1	22.0
2	44.2	44.0
3	66.3	66.0
4	88.4	88.0
5	110.5	110.0
6	132.6	132.0
7	154.7	154.0
8	176.8	176.0
9	198.9	198.0

	219
1	21.9
2	43.8
3	65.7
4	87.6
5	109.5
6	131.4
7	153.3
8	175.2
9	197.1

	27	26
1	2.7	2.6
2	5.4	5.2
3	8.1	7.8
4	10.8	10.4
5	13.5	13.0
6	16.2	15.6
7	18.9	18.2
8	21.6	20.8
9	24.3	23.4

19°.050 — 19°.100

19°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.513 7410		9.538 2017		0.461 7983	9.975 5394		.950	
		220		245			26		
051	9.513 7630		9.538 2262		0.461 7738	9.975 5368		949	
052	9.513 7849	219	9.538 2508	246	0.461 7492	9.975 5341	27	948	
053	9.513 8069	220	9.538 2754	246	0.461 7246	9.975 5315	26	947	
		219		245			26		
054	9.513 8288		9.538 2999		0.461 7001	9.975 5289		946	
055	9.513 8508	220	9.538 3245	246	0.461 6755	9.975 5263	26	945	
056	9.513 8727	219	9.538 3490	245	0.461 6510	9.975 5237	26	944	
		220		246			26		
057	9.513 8947		9.538 3736		0.461 6264	9.975 5211		943	
058	9.513 9166	219	9.538 3982	246	0.461 6018	9.975 5184	27	942	
059	9.513 9385	219	9.538 4227	245	0.461 5773	9.975 5158	26	941	
		220		246			26		
.060	9.513 9605		9.538 4473		0.461 5527	9.975 5132		.940	
		219		245			26		
061	9.513 9824		9.538 4718		0.461 5282	9.975 5106		939	
062	9.514 0044	220	9.538 4964	246	0.461 5036	9.975 5080	26	938	
063	9.514 0263	219	9.538 5210	246	0.461 4790	9.975 5053	27	937	
		219		245			26		
064	9.514 0482		9.538 5455		0.461 4545	9.975 5027		936	
065	9.514 0702	220	9.538 5701	246	0.461 4299	9.975 5001	26	935	
066	9.514 0921	219	9.538 5946	245	0.461 4054	9.975 4975	26	934	
		219		246			26		
067	9.514 1140		9.538 6192		0.461 3808	9.975 4949		933	
068	9.514 1360	220	9.538 6437	245	0.461 3563	9.975 4922	27	932	
069	9.514 1579	219	9.538 6683	246	0.461 3317	9.975 4896	26	931	
		219		245			26		
.070	9.514 1798		9.538 6928		0.461 3072	9.975 4870		.930	
		219		246			26		
071	9.514 2017		9.538 7174		0.461 2826	9.975 4844		929	
072	9.514 2237	220	9.538 7419	245	0.461 2581	9.975 4818	26	928	
073	9.514 2456	219	9.538 7664	245	0.461 2336	9.975 4791	27	927	
		219		246			26		
074	9.514 2675		9.538 7910		0.461 2090	9.975 4765		926	
075	9.514 2894	219	9.538 8155	245	0.461 1845	9.975 4739	26	925	
076	9.514 3114	220	9.538 8401	246	0.461 1599	9.975 4713	26	924	
		219		245			26		
077	9.514 3333		9.538 8646		0.461 1354	9.975 4687		923	
078	9.514 3552	219	9.538 8891	245	0.461 1109	9.975 4660	27	922	
079	9.514 3771	219	9.538 9137	246	0.461 0863	9.975 4634	26	921	
		219		245			26		
.080	9.514 3990		9.538 9382		0.461 0618	9.975 4608		.920	
		219		246			26		
081	9.514 4209		9.538 9628		0.461 0372	9.975 4582		919	
082	9.514 4428	219	9.538 9873	245	0.461 0127	9.975 4556	26	918	
083	9.514 4648	220	9.539 0118	245	0.460 9882	9.975 4529	27	917	
		219		246			26		
084	9.514 4867		9.539 0364		0.460 9636	9.975 4503		916	
085	9.514 5086	219	9.539 0609	245	0.460 9391	9.975 4477	26	915	
086	9.514 5305	219	9.539 0854	245	0.460 9146	9.975 4451	26	914	
		219		245			27		
087	9.514 5524		9.539 1099		0.460 8901	9.975 4424		913	
088	9.514 5743	219	9.539 1345	246	0.460 8655	9.975 4398	26	912	
089	9.514 5962	219	9.539 1590	245	0.460 8410	9.975 4372	26	911	
		219		245			26		
.090	9.514 6181		9.539 1835		0.460 8165	9.975 4346		.910	
		219		246			27		
091	9.514 6400		9.539 2081		0.460 7919	9.975 4319		909	
092	9.514 6619	219	9.539 2326	245	0.460 7674	9.975 4293	26	908	
093	9.514 6838	219	9.539 2571	245	0.460 7429	9.975 4267	26	907	
		219		245			26		
094	9.514 7057		9.539 2816		0.460 7184	9.975 4241		906	
095	9.514 7276	219	9.539 3061	245	0.460 6939	9.975 4215	26	905	
096	9.514 7495	219	9.539 3307	246	0.460 6693	9.975 4188	27	904	
		219		245			26		
097	9.514 7714		9.539 3552		0.460 6448	9.975 4162		903	
098	9.514 7933	219	9.539 3797	245	0.460 6203	9.975 4136	26	902	
099	9.514 8152	219	9.539 4042	245	0.460 5958	9.975 4110	26	901	
		219		245			27		
.100	9.514 8371		9.539 4287		0.460 5713	9.975 4083		.900	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	246	245
1	24.6	24.5
2	49.2	49.0
3	73.8	73.5
4	98.4	98.0
5	123.0	122.5
6	147.6	147.0
7	172.2	171.5
8	196.8	196.0
9	221.4	220.5

	220
1	22.0
2	44.0
3	66.0
4	88.0
5	110.0
6	132.0
7	154.0
8	176.0
9	198.0

	219
1	21.9
2	43.8
3	65.7
4	87.6
5	109.5
6	131.4
7	153.3
8	175.2
9	197.1

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.950 — 70°.900

19°.100 — 19°.150

19°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.514 8371		9.539 4287		0.460 5713	9.975 4083		.900	
		218		245			26		
101	9.514 8589		9.539 4532		0.460 5468	9.975 4057		899	
102	9.514 8808	219	9.539 4777	245	0.460 5223	9.975 4031	26	898	
103	9.514 9027	219	9.539 5023	246	0.460 4977	9.975 4005	26	897	
		219		245			27		
104	9.514 9246		9.539 5268		0.460 4732	9.975 3978		896	
105	9.514 9465	219	9.539 5513	245	0.460 4487	9.975 3952	26	895	
106	9.514 9684	219	9.539 5758	245	0.460 4242	9.975 3926	26	894	
		218		245			26		
107	9.514 9902		9.539 6003		0.460 3997	9.975 3900		893	
108	9.515 0121	219	9.539 6248	245	0.460 3752	9.975 3873	27	892	
109	9.515 0340	219	9.539 6493	245	0.460 3507	9.975 3847	26	891	
		219		245			26		
.110	9.515 0559		9.539 6738		0.460 3262	9.975 3821		.890	
		219		245			27		
111	9.515 0778		9.539 6983		0.460 3017	9.975 3794		889	
112	9.515 0996	218	9.539 7228	245	0.460 2772	9.975 3768	26	888	
113	9.515 1215	219	9.539 7473	245	0.460 2527	9.975 3742	26	887	
		219		245			26		
114	9.515 1434		9.539 7718		0.460 2282	9.975 3716		886	
115	9.515 1653	219	9.539 7963	245	0.460 2037	9.975 3689	27	885	
116	9.515 1871	218	9.539 8208	245	0.460 1792	9.975 3663	26	884	
		219		245			26		
117	9.515 2090		9.539 8453		0.460 1547	9.975 3637		883	
118	9.515 2309	219	9.539 8698	245	0.460 1302	9.975 3611	26	882	
119	9.515 2527	218	9.539 8943	245	0.460 1057	9.975 3584	27	881	
		219		245			26		
.120	9.515 2746		9.539 9188		0.460 0812	9.975 3558		.880	
		219		245			26		
121	9.515 2965		9.539 9433		0.460 0567	9.975 3532		879	
122	9.515 3183	218	9.539 9678	245	0.460 0322	9.975 3505	27	878	
123	9.515 3402	219	9.539 9923	245	0.460 0077	9.975 3479	26	877	
		218		244			26		
124	9.515 3620		9.540 0167		0.459 9833	9.975 3453		876	
125	9.515 3839	219	9.540 0412	245	0.459 9588	9.975 3427	26	875	
126	9.515 4058	219	9.540 0657	245	0.459 9343	9.975 3400	27	874	
		218		245			26		
127	9.515 4276		9.540 0902		0.459 9098	9.975 3374		873	
128	9.515 4495	219	9.540 1147	245	0.459 8853	9.975 3348	26	872	
129	9.515 4713	218	9.540 1392	245	0.459 8608	9.975 3321	27	871	
		219		245			26		
.130	9.515 4932		9.540 1637		0.459 8363	9.975 3295		.870	
		218		244			26		
131	9.515 5150		9.540 1881		0.459 8119	9.975 3269		869	
132	9.515 5369	219	9.540 2126	245	0.459 7874	9.975 3243	26	868	
133	9.515 5587	218	9.540 2371	245	0.459 7629	9.975 3216	27	867	
		219		245			26		
134	9.515 5806		9.540 2616		0.459 7384	9.975 3190		866	
135	9.515 6024	218	9.540 2861	245	0.459 7139	9.975 3164	26	865	
136	9.515 6243	219	9.540 3105	244	0.459 6895	9.975 3137	27	864	
		218		245			26		
137	9.515 6461		9.540 3350		0.459 6650	9.975 3111		863	
138	9.515 6680	219	9.540 3595	245	0.459 6405	9.975 3085	26	862	
139	9.515 6898	218	9.540 3839	244	0.459 6161	9.975 3059	26	861	
		218		245			27		
.140	9.515 7116		9.540 4084		0.459 5916	9.975 3032		.860	
		219		245			26		
141	9.515 7335		9.540 4329		0.459 5671	9.975 3006		859	
142	9.515 7553	218	9.540 4574	245	0.459 5426	9.975 2980	26	858	
143	9.515 7772	219	9.540 4818	244	0.459 5182	9.975 2953	27	857	
		218		245			26		
144	9.515 7990		9.540 5063		0.459 4937	9.975 2927		856	
145	9.515 8208	218	9.540 5308	245	0.459 4692	9.975 2901	26	855	
146	9.515 8427	219	9.540 5552	244	0.459 4448	9.975 2874	27	854	
		218		245			26		
147	9.515 8645		9.540 5797		0.459 4203	9.975 2848		853	
148	9.515 8863	218	9.540 6041	244	0.459 3959	9.975 2822	26	852	
149	9.515 9081	218	9.540 6286	245	0.459 3714	9.975 2795	27	851	
		219		245			26		
.150	9.515 9300		9.540 6531		0.459 3469	9.975 2769		.850	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	246	245
1	24.6	24.5
2	49.2	49.0
3	73.8	73.5
4	98.4	98.0
5	123.0	122.5
6	147.6	147.0
7	172.2	171.5
8	196.8	196.0
9	221.4	220.5

	244
1	24.4
2	48.8
3	73.2
4	97.6
5	122.0
6	146.4
7	170.8
8	195.2
9	219.6

	219	218
1	21.9	21.8
2	43.8	43.6
3	65.7	65.4
4	87.6	87.2
5	109.5	109.0
6	131.4	130.8
7	153.3	152.6
8	175.2	174.4
9	197.1	196.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.900 — 70°.850

19°.150 — 19°.200

19°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.515 9300		9.540 6531		0.459 3469	9.975 2769		**.850**	
		218		244			26		
151	9.515 9518	218	9.540 6775	245	0.459 3225	9.975 2743	27	849	
152	9.515 9736	219	9.540 7020	244	0.459 2980	9.975 2716	26	848	
153	9.515 9955	218	9.540 7264	245	0.459 2736	9.975 2690	26	847	
154	9.516 0173	218	9.540 7509	245	0.459 2491	9.975 2664	27	846	
155	9.516 0391	218	9.540 7754	244	0.459 2246	9.975 2637	26	845	
156	9.516 0609	218	9.540 7998	245	0.459 2002	9.975 2611	26	844	
157	9.516 0827	219	9.540 8243	244	0.459 1757	9.975 2585	27	843	
158	9.516 1046	218	9.540 8487	245	0.459 1513	9.975 2558	26	842	
159	9.516 1264	218	9.540 8732	244	0.459 1268	9.975 2532	26	841	
.160	9.516 1482	218	9.540 8976	245	0.459 1024	9.975 2506	27	**.840**	
161	9.516 1700	218	9.540 9221	244	0.459 0779	9.975 2479	26	839	
162	9.516 1918	218	9.540 9465	245	0.459 0535	9.975 2453	26	838	
163	9.516 2136	218	9.540 9710	244	0.459 0290	9.975 2427	27	837	
164	9.516 2354	219	9.540 9954	244	0.459 0046	9.975 2400	26	836	
165	9.516 2573	218	9.541 0198	245	0.458 9802	9.975 2374	26	835	
166	9.516 2791	218	9.541 0443	244	0.458 9557	9.975 2348	27	834	
167	9.516 3009	218	9.541 0687	245	0.458 9313	9.975 2321	26	833	
168	9.516 3227	218	9.541 0932	244	0.458 9068	9.975 2295	26	832	
169	9.516 3445	218	9.541 1176	245	0.458 8824	9.975 2269	27	831	
.170	9.516 3663	218	9.541 1421	244	0.458 8579	9.975 2242	26	**.830**	
171	9.516 3881	218	9.541 1665	244	0.458 8335	9.975 2216	26	829	
172	9.516 4099	218	9.541 1909	245	0.458 8091	9.975 2190	27	828	
173	9.516 4317	218	9.541 2154	244	0.458 7846	9.975 2163	26	827	
174	9.516 4535	218	9.541 2398	244	0.458 7602	9.975 2137	26	826	
175	9.516 4753	218	9.541 2642	245	0.458 7358	9.975 2111	27	825	
176	9.516 4971	218	9.541 2887	244	0.458 7113	9.975 2084	26	824	
177	9.516 5189	218	9.541 3131	244	0.458 6869	9.975 2058	27	823	
178	9.516 5407	218	9.541 3375	245	0.458 6625	9.975 2031	26	822	
179	9.516 5625	218	9.541 3620	244	0.458 6380	9.975 2005	26	821	
.180	9.516 5843	217	9.541 3864	244	0.458 6136	9.975 1979	27	**.820**	
181	9.516 6060	218	9.541 4108	244	0.458 5892	9.975 1952	26	819	
182	9.516 6278	218	9.541 4352	245	0.458 5648	9.975 1926	26	818	
183	9.516 6496	218	9.541 4597	244	0.458 5403	9.975 1900	27	817	
184	9.516 6714	218	9.541 4841	244	0.458 5159	9.975 1873	26	816	
185	9.516 6932	218	9.541 5085	244	0.458 4915	9.975 1847	26	815	
186	9.516 7150	218	9.541 5329	244	0.458 4671	9.975 1821	27	814	
187	9.516 7368	217	9.541 5573	245	0.458 4427	9.975 1794	26	813	
188	9.516 7585	218	9.541 5818	244	0.458 4182	9.975 1768	27	812	
189	9.516 7803	218	9.541 6062	244	0.458 3938	9.975 1741	26	811	
.190	9.516 8021	218	9.541 6306	244	0.458 3694	9.975 1715	26	**.810**	
191	9.516 8239	218	9.541 6550	244	0.458 3450	9.975 1689	27	809	
192	9.516 8457	217	9.541 6794	244	0.458 3206	9.975 1662	26	808	
193	9.516 8674	218	9.541 7038	245	0.458 2962	9.975 1636	27	807	
194	9.516 8892	218	9.541 7283	244	0.458 2717	9.975 1609	26	806	
195	9.516 9110	218	9.541 7527	244	0.458 2473	9.975 1583	26	805	
196	9.516 9328	217	9.541 7771	244	0.458 2229	9.975 1557	27	804	
197	9.516 9545	218	9.541 8015	244	0.458 1985	9.975 1530	26	803	
198	9.516 9763	218	9.541 8259	244	0.458 1741	9.975 1504	26	802	
199	9.516 9981	217	9.541 8503	244	0.458 1497	9.975 1478	27	801	
.200	9.517 0198		9.541 8747		0.458 1253	9.975 1451		**.800**	
	cos	d	cotg	d	tang	sin	d	**70°**	P.P.

	245	244
1	24.5	24.4
2	49.0	48.8
3	73.5	73.2
4	98.0	97.6
5	122.5	122.0
6	147.0	146.4
7	171.5	170.8
8	196.0	195.2
9	220.5	219.6

	219	218
1	21.9	21.8
2	43.8	43.6
3	65.7	65.4
4	87.6	87.2
5	109.5	109.0
6	131.4	130.8
7	153.3	152.6
8	175.2	174.4
9	197.1	196.2

	217
1	21.7
2	43.4
3	65.1
4	86.8
5	108.5
6	130.2
7	151.9
8	173.6
9	195.3

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.850 — 70°.800

19°.200 — 19°.250

19°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.517 0198		9.541 8747		0.458 1253	9.975 1451		.800	
		218		244			26		
201	9.517 0416		9.541 8991		0.458 1009	9.975 1425		799	
202	9.517 0634	218	9.541 9235	244	0.458 0765	9.975 1398	27	798	
203	9.517 0851	217	9.541 9479	244	0.458 0521	9.975 1372	26	797	
		218		244			26		
204	9.517 1069		9.541 9723		0.458 0277	9.975 1346		796	
205	9.517 1286	217	9.541 9967	244	0.458 0033	9.975 1319	27	795	
206	9.517 1504	218	9.542 0211	244	0.457 9789	9.975 1293	26	794	
		218		244			27		
207	9.517 1722		9.542 0455		0.457 9545	9.975 1266		793	
208	9.517 1939	217	9.542 0699	244	0.457 9301	9.975 1240	26	792	
209	9.517 2157	218	9.542 0943	244	0.457 9057	9.975 1213	27	791	
		217		244			26		
.210	9.517 2374		9.542 1187		0.457 8813	9.975 1187		.790	
		218		244			26		
211	9.517 2592		9.542 1431		0.457 8569	9.975 1161		789	
212	9.517 2809	217	9.542 1675	244	0.457 8325	9.975 1134	27	788	
213	9.517 3027	218	9.542 1919	244	0.457 8081	9.975 1108	26	787	
		217		244			27		
214	9.517 3244		9.542 2163		0.457 7837	9.975 1081		786	
215	9.517 3462	218	9.542 2407	244	0.457 7593	9.975 1055	26	785	
216	9.517 3679	217	9.542 2651	244	0.457 7349	9.975 1029	26	784	
		218		244			27		
217	9.517 3897		9.542 2895		0.457 7105	9.975 1002		783	
218	9.517 4114	217	9.542 3139	244	0.457 6861	9.975 0976	26	782	
219	9.517 4332	218	9.542 3382	243	0.457 6618	9.975 0949	27	781	
		217		244			26		
.220	9.517 4549		9.542 3626		0.457 6374	9.975 0923		.780	
		218		244			27		
221	9.517 4767		9.542 3870		0.457 6130	9.975 0896		779	
222	9.517 4984	217	9.542 4114	244	0.457 5886	9.975 0870	26	778	
223	9.517 5201	217	9.542 4358	244	0.457 5642	9.975 0844	26	777	
		218		244			27		
224	9.517 5419		9.542 4602		0.457 5398	9.975 0817		776	
225	9.517 5636	217	9.542 4845	243	0.457 5155	9.975 0791	26	775	
226	9.517 5853	217	9.542 5089	244	0.457 4911	9.975 0764	27	774	
		218		244			26		
227	9.517 6071		9.542 5333		0.457 4667	9.975 0738		773	
228	9.517 6288	217	9.542 5577	244	0.457 4423	9.975 0711	27	772	
229	9.517 6505	217	9.542 5820	243	0.457 4180	9.975 0685	26	771	
		218		244			26		
.230	9.517 6723		9.542 6064		0.457 3936	9.975 0659		.770	
		217		244			27		
231	9.517 6940		9.542 6308		0.457 3692	9.975 0632		769	
232	9.517 7157	217	9.542 6552	244	0.457 3448	9.975 0606	26	768	
233	9.517 7375	218	9.542 6795	243	0.457 3205	9.975 0579	27	767	
		217		244			26		
234	9.517 7592		9.542 7039		0.457 2961	9.975 0553		766	
235	9.517 7809	217	9.542 7283	244	0.457 2717	9.975 0526	27	765	
236	9.517 8026	217	9.542 7526	243	0.457 2474	9.975 0500	26	764	
		218		244			27		
237	9.517 8244		9.542 7770		0.457 2230	9.975 0473		763	
238	9.517 8461	217	9.542 8014	244	0.457 1986	9.975 0447	26	762	
239	9.517 8678	217	9.542 8257	243	0.457 1743	9.975 0421	26	761	
		217		244			27		
.240	9.517 8895		9.542 8501		0.457 1499	9.975 0394		.760	
		217		244			26		
241	9.517 9112		9.542 8745		0.457 1255	9.975 0368		759	
242	9.517 9329	217	9.542 8988	243	0.457 1012	9.975 0341	27	758	
243	9.517 9547	218	9.542 9232	244	0.457 0768	9.975 0315	26	757	
		217		243			27		
244	9.517 9764		9.542 9475		0.457 0525	9.975 0288		756	
245	9.517 9981	217	9.542 9719	244	0.457 0281	9.975 0262	26	755	
246	9.518 0198	217	9.542 9963	244	0.457 0037	9.975 0235	27	754	
		217		243			26		
247	9.518 0415		9.543 0206		0.456 9794	9.975 0209		753	
248	9.518 0632	217	9.543 0450	244	0.456 9550	9.975 0182	27	752	
249	9.518 0849	217	9.543 0693	243	0.456 9307	9.975 0156	26	751	
		217		244			27		
.250	9.518 1066		9.543 0937		0.456 9063	9.975 0129		.750	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	244	243
1	24.4	24.3
2	48.8	48.6
3	73.2	72.9
4	97.6	97.2
5	122.0	121.5
6	146.4	145.8
7	170.8	170.1
8	195.2	194.4
9	219.6	218.7

	218
1	21.8
2	43.6
3	65.4
4	87.2
5	109.0
6	130.8
7	152.6
8	174.4
9	196.2

	217
1	21.7
2	43.4
3	65.1
4	86.8
5	108.5
6	130.2
7	151.9
8	173.6
9	195.3

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.800 — 70°.750

19°.250 — 19°.300

19°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.518 1066		9.543 0937		0.456 9063	9.975 0129		**.750**	
		217		243			26		
251	9.518 1283		9.543 1180		0.456 8820	9.975 0103		749	
		217		244			26		
252	9.518 1500		9.543 1424		0.456 8576	9.975 0077		748	
		217		243			27		
253	9.518 1717		9.543 1667		0.456 8333	9.975 0050		747	
		217		244			26		
254	9.518 1934		9.543 1911		0.456 8089	9.975 0024		746	
		217		243			27		
255	9.518 2151		9.543 2154		0.456 7846	9.974 9997		745	
		217		244			26		
256	9.518 2368		9.543 2398		0.456 7602	9.974 9971		744	
		217		243			27		
257	9.518 2585		9.543 2641		0.456 7359	9.974 9944		743	
		217		244			26		
258	9.518 2802		9.543 2885		0.456 7115	9.974 9918		742	
		217		243			27		
259	9.518 3019		9.543 3128		0.456 6872	9.974 9891		741	
		217		243			26		
.260	9.518 3236		9.543 3371		0.456 6629	9.974 9865		**.740**	
		217		244			27		
261	9.518 3453		9.543 3615		0.456 6385	9.974 9838		739	
		217		243			26		
262	9.518 3670		9.543 3858		0.456 6142	9.974 9812		738	
		217		244			27		
263	9.518 3887		9.543 4102		0.456 5898	9.974 9785		737	
		217		243			26		
264	9.518 4104		9.543 4345		0.456 5655	9.974 9759		736	
		217		243			27		
265	9.518 4321		9.543 4588		0.456 5412	9.974 9732		735	
		217		244			26		
266	9.518 4538		9.543 4832		0.456 5168	9.974 9706		734	
		216		243			27		
267	9.518 4754		9.543 5075		0.456 4925	9.974 9679		733	
		217		243			26		
268	9.518 4971		9.543 5318		0.456 4682	9.974 9653		732	
		217		244			27		
269	9.518 5188		9.543 5562		0.456 4438	9.974 9626		731	
		217		243			26		
.270	9.518 5405		9.543 5805		0.456 4195	9.974 9600		**.730**	
		217		243			27		
271	9.518 5622		9.543 6048		0.456 3952	9.974 9573		729	
		216		244			26		
272	9.518 5838		9.543 6292		0.456 3708	9.974 9547		728	
		217		243			27		
273	9.518 6055		9.543 6535		0.456 3465	9.974 9520		727	
		217		243			26		
274	9.518 6272		9.543 6778		0.456 3222	9.974 9494		726	
		217		244			27		
275	9.518 6489		9.543 7022		0.456 2978	9.974 9467		725	
		217		243			26		
276	9.518 6706		9.543 7265		0.456 2735	9.974 9441		724	
		216		243			27		
277	9.518 6922		9.543 7508		0.456 2492	9.974 9414		723	
		217		243			26		
278	9.518 7139		9.543 7751		0.456 2249	9.974 9388		722	
		217		243			27		
279	9.518 7356		9.543 7994		0.456 2006	9.974 9361		721	
		216		244			26		
.280	9.518 7572		9.543 8238		0.456 1762	9.974 9335		**.720**	
		217		243			27		
281	9.518 7789		9.543 8481		0.456 1519	9.974 9308		719	
		217		243			26		
282	9.518 8006		9.543 8724		0.456 1276	9.974 9282		718	
		216		243			27		
283	9.518 8222		9.543 8967		0.456 1033	9.974 9255		717	
		217		243			26		
284	9.518 8439		9.543 9210		0.456 0790	9.974 9229		716	
		217		244			27		
285	9.518 8656		9.543 9454		0.456 0546	9.974 9202		715	
		216		243			26		
286	9.518 8872		9.543 9697		0.456 0303	9.974 9176		714	
		217		243			27		
287	9.518 9089		9.543 9940		0.456 0060	9.974 9149		713	
		217		243			26		
288	9.518 9306		9.544 0183		0.455 9817	9.974 9123		712	
		216		243			27		
289	9.518 9522		9.544 0426		0.455 9574	9.974 9096		711	
		217		243			27		
.290	9.518 9739		9.544 0669		0.455 9331	9.974 9069		**.710**	
		216		243			26		
291	9.518 9955		9.544 0912		0.455 9088	9.974 9043		709	
		217		243			27		
292	9.519 0172		9.544 1155		0.455 8845	9.974 9016		708	
		216		243			26		
293	9.519 0388		9.544 1398		0.455 8602	9.974 8990		707	
		217		244			27		
294	9.519 0605		9.544 1642		0.455 8358	9.974 8963		706	
		216		243			26		
295	9.519 0821		9.544 1885		0.455 8115	9.974 8937		705	
		217		243			27		
296	9.519 1038		9.544 2128		0.455 7872	9.974 8910		704	
		216		243			26		
297	9.519 1254		9.544 2371		0.455 7629	9.974 8884		703	
		217		243			27		
298	9.519 1471		9.544 2614		0.455 7386	9.974 8857		702	
		216		243			26		
299	9.519 1687		9.544 2857		0.455 7143	9.974 8831		701	
		217		243			27		
.300	9.519 1904		9.544 3100		0.455 6900	9.974 8804		**.700**	
	cos	d	cotg	d	tang	sin	d	**70°**	P.P.

	244	243
1	24.4	24.3
2	48.8	48.6
3	73.2	72.9
4	97.6	97.2
5	122.0	121.5
6	146.4	145.8
7	170.8	170.1
8	195.2	194.4
9	219.6	218.7

	217
1	21.7
2	43.4
3	65.1
4	86.8
5	108.5
6	130.2
7	151.9
8	173.6
9	195.3

	216
1	21.6
2	43.2
3	64.8
4	86.4
5	108.0
6	129.6
7	151.2
8	172.8
9	194.4

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.750 — 70°.700

19°.300 — 19°.350

19°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.519 1904		9.544 3100		0.455 6900	9.974 8804		.700	
		216		243			26		
301	9.519 2120		9.544 3343		0.455 6657	9.974 8778		699	
302	9.519 2337	217	9.544 3586	243	0.455 6414	9.974 8751	27	698	
303	9.519 2553	216	9.544 3829	243	0.455 6171	9.974 8724	27	697	
		216		243			26		
304	9.519 2769		9.544 4072		0.455 5928	9.974 8698		696	
305	9.519 2986	217	9.544 4314	242	0.455 5686	9.974 8671	27	695	
306	9.519 3202	216	9.544 4557	243	0.455 5443	9.974 8645	26	694	
		217		243			27		
307	9.519 3419		9.544 4800		0.455 5200	9.974 8618		693	
308	9.519 3635	216	9.544 5043	243	0.455 4957	9.974 8592	26	692	
309	9.519 3851	216	9.544 5286	243	0.455 4714	9.974 8565	27	691	
		217		243			26		
.310	9.519 4068		9.544 5529		0.455 4471	9.974 8539		.690	
		216		243			27		
311	9.519 4284		9.544 5772		0.455 4228	9.974 8512		689	
312	9.519 4500	216	9.544 6015	243	0.455 3985	9.974 8485	27	688	
313	9.519 4717	217	9.544 6258	243	0.455 3742	9.974 8459	26	687	
		216		242			27		
314	9.519 4933		9.544 6500		0.455 3500	9.974 8432		686	
315	9.519 5149	216	9.544 6743	243	0.455 3257	9.974 8406	26	685	
316	9.519 5365	216	9.544 6986	243	0.455 3014	9.974 8379	27	684	
		217		243			26		
317	9.519 5582		9.544 7229		0.455 2771	9.974 8353		683	
318	9.519 5798	216	9.544 7472	243	0.455 2528	9.974 8326	27	682	
319	9.519 6014	216	9.544 7715	243	0.455 2285	9.974 8299	27	681	
		216		242			26		
.320	9.519 6230		9.544 7957		0.455 2043	9.974 8273		.680	
		216		243			27		
321	9.519 6446		9.544 8200		0.455 1800	9.974 8246		679	
322	9.519 6663	217	9.544 8443	243	0.455 1557	9.974 8220	26	678	
323	9.519 6879	216	9.544 8686	243	0.455 1314	9.974 8193	27	677	
		216		242			26		
324	9.519 7095		9.544 8928		0.455 1072	9.974 8167		676	
325	9.519 7311	216	9.544 9171	243	0.455 0829	9.974 8140	27	675	
326	9.519 7527	216	9.544 9414	243	0.455 0586	9.974 8113	27	674	
		216		243			26		
327	9.519 7743		9.544 9657		0.455 0343	9.974 8087		673	
328	9.519 7960	217	9.544 9899	242	0.455 0101	9.974 8060	27	672	
329	9.519 8176	216	9.545 0142	243	0.454 9858	9.974 8034	26	671	
		216		243			27		
.330	9.519 8392		9.545 0385		0.454 9615	9.974 8007		.670	
		216		242			26		
331	9.519 8608		9.545 0627		0.454 9373	9.974 7981		669	
332	9.519 8824	216	9.545 0870	243	0.454 9130	9.974 7954	27	668	
333	9.519 9040	216	9.545 1113	243	0.454 8887	9.974 7927	27	667	
		216		242			26		
334	9.519 9256		9.545 1355		0.454 8645	9.974 7901		666	
335	9.519 9472	216	9.545 1598	243	0.454 8402	9.974 7874	27	665	
336	9.519 9688	216	9.545 1840	242	0.454 8160	9.974 7848	26	664	
		216		243			27		
337	9.519 9904		9.545 2083		0.454 7917	9.974 7821		663	
338	9.520 0120	216	9.545 2326	243	0.454 7674	9.974 7794	27	662	
339	9.520 0336	216	9.545 2568	242	0.454 7432	9.974 7768	26	661	
		216		243			27		
.340	9.520 0552		9.545 2811		0.454 7189	9.974 7741		.660	
		216		242			26		
341	9.520 0768		9.545 3053		0.454 6947	9.974 7715		659	
342	9.520 0984	216	9.545 3296	243	0.454 6704	9.974 7688	27	658	
343	9.520 1200	216	9.545 3538	242	0.454 6462	9.974 7661	27	657	
		216		243			26		
344	9.520 1416		9.545 3781		0.454 6219	9.974 7635		656	
345	9.520 1632	216	9.545 4024	243	0.454 5976	9.974 7608	27	655	
346	9.520 1848	216	9.545 4266	242	0.454 5734	9.974 7581	27	654	
		215		243			26		
347	9.520 2063		9.545 4509		0.454 5491	9.974 7555		653	
348	9.520 2279	216	9.545 4751	242	0.454 5249	9.974 7528	27	652	
349	9.520 2495	216	9.545 4993	242	0.454 5007	9.974 7502	26	651	
		216		243			27		
.350	9.520 2711		9.545 5236		0.454 4764	9.974 7475		.650	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	243	242
1	24.3	24.2
2	48.6	48.4
3	72.9	72.6
4	97.2	96.8
5	121.5	121.0
6	145.8	145.2
7	170.1	169.4
8	194.4	193.6
9	218.7	217.8

	217	216
1	21.7	21.6
2	43.4	43.2
3	65.1	64.8
4	86.8	86.4
5	108.5	108.0
6	130.2	129.6
7	151.9	151.2
8	173.6	172.8
9	195.3	194.4

	215
1	21.5
2	43.0
3	64.5
4	86.0
5	107.5
6	129.0
7	150.5
8	172.0
9	193.5

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.700 — 70°.650

19°.350 — 19°.400

19°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.520 2711		9.545 5236		0.454 4764	9.974 7475		**.650**	
		216		242			27		
351	9.520 2927		9.545 5478		0.454 4522	9.974 7448		649	
		216		243			26		
352	9.520 3143		9.545 5721		0.454 4279	9.974 7422		648	
		215		242			27		
353	9.520 3358		9.545 5963		0.454 4037	9.974 7395		647	
		216		243			26		
354	9.520 3574		9.545 6206		0.454 3794	9.974 7369		646	
		216		242			27		
355	9.520 3790		9.545 6448		0.454 3552	9.974 7342		645	
		216		243			27		
356	9.520 4006		9.545 6691		0.454 3309	9.974 7315		644	
		216		242			26		
357	9.520 4222		9.545 6933		0.454 3067	9.974 7289		643	
		215		242			27		
358	9.520 4437		9.545 7175		0.454 2825	9.974 7262		642	
		216		243			27		
359	9.520 4653		9.545 7418		0.454 2582	9.974 7235		641	
		216		242			26		
.360	9.520 4869		9.545 7660		0.454 2340	9.974 7209		**.640**	
		216		242			27		
361	9.520 5085		9.545 7902		0.454 2098	9.974 7182		639	
		215		243			26		
362	9.520 5300		9.545 8145		0.454 1855	9.974 7156		638	
		216		242			27		
363	9.520 5516		9.545 8387		0.454 1613	9.974 7129		637	
		216		242			27		
364	9.520 5732		9.545 8629		0.454 1371	9.974 7102		636	
		215		243			26		
365	9.520 5947		9.545 8872		0.454 1128	9.974 7076		635	
		216		242			27		
366	9.520 6163		9.545 9114		0.454 0886	9.974 7049		634	
		216		242			27		
367	9.520 6379		9.545 9356		0.454 0644	9.974 7022		633	
		215		243			26		
368	9.520 6594		9.545 9599		0.454 0401	9.974 6996		632	
		216		242			27		
369	9.520 6810		9.545 9841		0.454 0159	9.974 6969		631	
		215		242			27		
.370	9.520 7025		9.546 0083		0.453 9917	9.974 6942		**.630**	
		216		242			26		
371	9.520 7241		9.546 0325		0.453 9675	9.974 6916		629	
		216		243			27		
372	9.520 7457		9.546 0568		0.453 9432	9.974 6889		628	
		215		242			27		
373	9.520 7672		9.546 0810		0.453 9190	9.974 6862		627	
		216		242			26		
374	9.520 7888		9.546 1052		0.453 8948	9.974 6836		626	
		215		242			27		
375	9.520 8103		9.546 1294		0.453 8706	9.974 6809		625	
		216		242			27		
376	9.520 8319		9.546 1536		0.453 8464	9.974 6782		624	
		215		243			26		
377	9.520 8534		9.546 1779		0.453 8221	9.974 6756		623	
		216		242			27		
378	9.520 8750		9.546 2021		0.453 7979	9.974 6729		622	
		215		242			27		
379	9.520 8965		9.546 2263		0.453 7737	9.974 6702		621	
		216		242			26		
.380	9.520 9181		9.546 2505		0.453 7495	9.974 6676		**.620**	
		215		242			27		
381	9.520 9396		9.546 2747		0.453 7253	9.974 6649		619	
		216		242			27		
382	9.520 9612		9.546 2989		0.453 7011	9.974 6622		618	
		215		242			26		
383	9.520 9827		9.546 3231		0.453 6769	9.974 6596		617	
		216		243			27		
384	9.521 0043		9.546 3474		0.453 6526	9.974 6569		616	
		215		242			27		
385	9.521 0258		9.546 3716		0.453 6284	9.974 6542		615	
		216		242			26		
386	9.521 0474		9.546 3958		0.453 6042	9.974 6516		614	
		215		242			27		
387	9.521 0689		9.546 4200		0.453 5800	9.974 6489		613	
		215		242			27		
388	9.521 0904		9.546 4442		0.453 5558	9.974 6462		612	
		216		242			26		
389	9.521 1120		9.546 4684		0.453 5316	9.974 6436		611	
		215		242			27		
.390	9.521 1335		9.546 4926		0.453 5074	9.974 6409		**.610**	
		215		242			27		
391	9.521 1550		9.546 5168		0.453 4832	9.974 6382		609	
		216		242			26		
392	9.521 1766		9.546 5410		0.453 4590	9.974 6356		608	
		215		242			27		
393	9.521 1981		9.546 5652		0.453 4348	9.974 6329		607	
		215		242			27		
394	9.521 2196		9.546 5894		0.453 4106	9.974 6302		606	
		216		242			26		
395	9.521 2412		9.546 6136		0.453 3864	9.974 6276		605	
		215		242			27		
396	9.521 2627		9.546 6378		0.453 3622	9.974 6249		604	
		215		242			27		
397	9.521 2842		9.546 6620		0.453 3380	9.974 6222		603	
		216		242			26		
398	9.521 3058		9.546 6862		0.453 3138	9.974 6196		602	
		215		242			27		
399	9.521 3273		9.546 7104		0.453 2896	9.974 6169		601	
		215		242			27		
.400	9.521 3488		9.546 7346		0.453 2654	9.974 6142		**.600**	
	cos	d	cotg	d	tang	sin	d	**70°**	P.P.

	243	242
1	24.3	24.2
2	48.6	48.4
3	72.9	72.6
4	97.2	96.8
5	121.5	121.0
6	145.8	145.2
7	170.1	169.4
8	194.4	193.6
9	218.7	217.8

	216
1	21.6
2	43.2
3	64.8
4	86.4
5	108.0
6	129.6
7	151.2
8	172.8
9	194.4

	215
1	21.5
2	43.0
3	64.5
4	86.0
5	107.5
6	129.0
7	150.5
8	172.0
9	193.5

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.650 — 70°.600

19°.400 — 19°.450

19°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.521 3488		9.546 7346		0.453 2654	9.974 6142		.600	
		215		242			26		
401	9.521 3703		9.546 7588		0.453 2412	9.974 6116		599	
402	9.521 3919	216	9.546 7830	242	0.453 2170	9.974 6089	27	598	
403	9.521 4134	215	9.546 8072	242	0.453 1928	9.974 6062	27	597	
		215		242			27		
404	9.521 4349		9.546 8314		0.453 1686	9.974 6035		596	
405	9.521 4564	215	9.546 8555	241	0.453 1445	9.974 6009	26	595	
406	9.521 4779	215	9.546 8797	242	0.453 1203	9.974 5982	27	594	
		216		242			27		
407	9.521 4995		9.546 9039		0.453 0961	9.974 5955		593	
408	9.521 5210	215	9.546 9281	242	0.453 0719	9.974 5929	26	592	
409	9.521 5425	215	9.546 9523	242	0.453 0477	9.974 5902	27	591	
		215		242			27		
.410	9.521 5640		9.546 9765		0.453 0235	9.974 5875		.590	
		215		242			26		
411	9.521 5855		9.547 0007		0.452 9993	9.974 5849		589	
412	9.521 6070	215	9.547 0248	241	0.452 9752	9.974 5822	27	588	
413	9.521 6285	215	9.547 0490	242	0.452 9510	9.974 5795	27	587	
		215		242			27		
414	9.521 6500		9.547 0732		0.452 9268	9.974 5768		586	
415	9.521 6715	215	9.547 0974	242	0.452 9026	9.974 5742	26	585	
416	9.521 6930	215	9.547 1215	241	0.452 8785	9.974 5715	27	584	
		216		242			27		
417	9.521 7146		9.547 1457		0.452 8543	9.974 5688		583	
418	9.521 7361	215	9.547 1699	242	0.452 8301	9.974 5662	26	582	
419	9.521 7576	215	9.547 1941	242	0.452 8059	9.974 5635	27	581	
		215		241			27		
.420	9.521 7791		9.547 2182		0.452 7818	9.974 5608		.580	
		215		242			27		
421	9.521 8006		9.547 2424		0.452 7576	9.974 5581		579	
422	9.521 8221	215	9.547 2666	242	0.452 7334	9.974 5555	26	578	
423	9.521 8436	215	9.547 2908	242	0.452 7092	9.974 5528	27	577	
		214		241			27		
424	9.521 8650		9.547 3149		0.452 6851	9.974 5501		576	
425	9.521 8865	215	9.547 3391	242	0.452 6609	9.974 5474	27	575	
426	9.521 9080	215	9.547 3633	242	0.452 6367	9.974 5448	26	574	
		215		241			27		
427	9.521 9295		9.547 3874		0.452 6126	9.974 5421		573	
428	9.521 9510	215	9.547 4116	242	0.452 5884	9.974 5394	27	572	
429	9.521 9725	215	9.547 4358	242	0.452 5642	9.974 5368	26	571	
		215		241			27		
.430	9.521 9940		9.547 4599		0.452 5401	9.974 5341		.570	
		215		242			27		
431	9.522 0155		9.547 4841		0.452 5159	9.974 5314		569	
432	9.522 0370	215	9.547 5082	241	0.452 4918	9.974 5287	27	568	
433	9.522 0585	215	9.547 5324	242	0.452 4676	9.974 5261	26	567	
		214		242			27		
434	9.522 0799		9.547 5566		0.452 4434	9.974 5234		566	
435	9.522 1014	215	9.547 5807	241	0.452 4193	9.974 5207	27	565	
436	9.522 1229	215	9.547 6049	242	0.452 3951	9.974 5180	27	564	
		215		241			26		
437	9.522 1444		9.547 6290		0.452 3710	9.974 5154		563	
438	9.522 1659	215	9.547 6532	242	0.452 3468	9.974 5127	27	562	
439	9.522 1873	214	9.547 6773	241	0.452 3227	9.974 5100	27	561	
		215		242			27		
.440	9.522 2088		9.547 7015		0.452 2985	9.974 5073		.560	
		215		241			26		
441	9.522 2303		9.547 7256		0.452 2744	9.974 5047		559	
442	9.522 2518	215	9.547 7498	242	0.452 2502	9.974 5020	27	558	
443	9.522 2732	214	9.547 7739	241	0.452 2261	9.974 4993	27	557	
		215		242			27		
444	9.522 2947		9.547 7981		0.452 2019	9.974 4966		556	
445	9.522 3162	215	9.547 8222	241	0.452 1778	9.974 4940	26	555	
446	9.522 3377	215	9.547 8464	242	0.452 1536	9.974 4913	27	554	
		214		241			27		
447	9.522 3591		9.547 8705		0.452 1295	9.974 4886		553	
448	9.522 3806	215	9.547 8947	242	0.452 1053	9.974 4859	27	552	
449	9.522 4021	215	9.547 9188	241	0.452 0812	9.974 4833	26	551	
		214		242			27		
.450	9.522 4235		9.547 9430		0.452 0570	9.974 4806		.550	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

70°.600 — 70°.550

	242	241
1	24.2	24.1
2	48.4	48.2
3	72.6	72.3
4	96.8	96.4
5	121.0	120.5
6	145.2	144.6
7	169.4	168.7
8	193.6	192.8
9	217.8	216.9

	216	215
1	21.6	21.5
2	43.2	43.0
3	64.8	64.5
4	86.4	86.0
5	108.0	107.5
6	129.6	129.0
7	151.2	150.5
8	172.8	172.0
9	194.4	193.5

	214
1	21.4
2	42.8
3	64.2
4	85.6
5	107.0
6	128.4
7	149.8
8	171.2
9	192.6

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

19°.450 — 19°.500

19°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9·522 4235		9·547 9430		0·452 0570	9·974 4806		·550	
		215		241			27		
451	9·522 4450		9·547 9671		0·452 0329	9·974 4779		549	
452	9·522 4665	215	9·547 9912	241	0·452 0088	9·974 4752	27	548	
453	9·522 4879	214	9·548 0154	242	0·451 9846	9·974 4725	27	547	
		215		241			26		
454	9·522 5094		9·548 0395		0·451 9605	9·974 4699		546	
455	9·522 5308	214	9·548 0636	241	0·451 9364	9·974 4672	27	545	
456	9·522 5523	215	9·548 0878	242	0·451 9122	9·974 4645	27	544	
		214		241			27		
457	9·522 5737		9·548 1119		0·451 8881	9·974 4618		543	
458	9·522 5952	215	9·548 1360	241	0·451 8640	9·974 4592	26	542	
459	9·522 6167	215	9·548 1602	242	0·451 8398	9·974 4565	27	541	
		214		241			27		
·460	9·522 6381		9·548 1843		0·451 8157	9·974 4538		·540	
		215		241			27		
461	9·522 6596		9·548 2084		0·451 7916	9·974 4511		539	
462	9·522 6810	214	9·548 2326	242	0·451 7674	9·974 4484	27	538	
463	9·522 7025	215	9·548 2567	241	0·451 7433	9·974 4458	26	537	
		214		241			27		
464	9·522 7239		9·548 2808		0·451 7192	9·974 4431		536	
465	9·522 7454	215	9·548 3050	242	0·451 6950	9·974 4404	27	535	
466	9·522 7668	214	9·548 3291	241	0·451 6709	9·974 4377	27	534	
		214		241			27		
467	9·522 7882		9·548 3532		0·451 6468	9·974 4350		533	
468	9·522 8097	215	9·548 3773	241	0·451 6227	9·974 4324	26	532	
469	9·522 8311	214	9·548 4014	241	0·451 5986	9·974 4297	27	531	
		215		242			27		
·470	9·522 8526		9·548 4256		0·451 5744	9·974 4270		·530	
		214		241			27		
471	9·522 8740		9·548 4497		0·451 5503	9·974 4243		529	
472	9·522 8955	215	9·548 4738	241	0·451 5262	9·974 4217	26	528	
473	9·522 9169	214	9·548 4979	241	0·451 5021	9·974 4190	27	527	
		214		241			27		
474	9·522 9383		9·548 5220		0·451 4780	9·974 4163		526	
475	9·522 9598	215	9·548 5462	242	0·451 4538	9·974 4136	27	525	
476	9·522 9812	214	9·548 5703	241	0·451 4297	9·974 4109	27	524	
		214		241			27		
477	9·523 0026		9·548 5944		0·451 4056	9·974 4082		523	
478	9·523 0241	215	9·548 6185	241	0·451 3815	9·974 4056	26	522	
479	9·523 0455	214	9·548 6426	241	0·451 3574	9·974 4029	27	521	
		214		241			27		
·480	9·523 0669		9·548 6667		0·451 3333	9·974 4002		·520	
		214		241			27		
481	9·523 0883		9·548 6908		0·451 3092	9·974 3975		519	
482	9·523 1098	215	9·548 7149	241	0·451 2851	9·974 3948	27	518	
483	9·523 1312	214	9·548 7390	241	0·451 2610	9·974 3922	26	517	
		214		241			27		
484	9·523 1526		9·548 7631		0·451 2369	9·974 3895		516	
485	9·523 1740	214	9·548 7873	242	0·451 2127	9·974 3868	27	515	
486	9·523 1955	215	9·548 8114	241	0·451 1886	9·974 3841	27	514	
		214		241			27		
487	9·523 2169		9·548 8355		0·451 1645	9·974 3814		513	
488	9·523 2383	214	9·548 8596	241	0·451 1404	9·974 3788	26	512	
489	9·523 2597	214	9·548 8837	241	0·451 1163	9·974 3761	27	511	
		214		241			27		
·490	9·523 2811		9·548 9078		0·451 0922	9·974 3734		·510	
		215		241			27		
491	9·523 3026		9·548 9319		0·451 0681	9·974 3707		509	
492	9·523 3240	214	9·548 9560	241	0·451 0440	9·974 3680	27	508	
493	9·523 3454	214	9·548 9801	241	0·451 0199	9·974 3653	27	507	
		214		241			26		
494	9·523 3668		9·549 0042		0·450 9958	9·974 3627		506	
495	9·523 3882	214	9·549 0282	240	0·450 9718	9·974 3600	27	505	
496	9·523 4096	214	9·549 0523	241	0·450 9477	9·974 3573	27	504	
		214		241			27		
497	9·523 4310		9·549 0764		0·450 9236	9·974 3546		503	
498	9·523 4524	214	9·549 1005	241	0·450 8995	9·974 3519	27	502	
499	9·523 4739	215	9·549 1246	241	0·450 8754	9·974 3492	27	501	
		214		241			26		
·500	9·523 4953		9·549 1487		0·450 8513	9·974 3466		·500	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	242	241
1	24.2	24.1
2	48.4	48.2
3	72.6	72.3
4	96.8	96.4
5	121.0	120.5
6	145.2	144.6
7	169.4	168.7
8	193.6	192.8
9	217.8	216.9

	240
1	24.0
2	48.0
3	72.0
4	96.0
5	120.0
6	144.0
7	168.0
8	192.0
9	216.0

	215	214
1	21.5	21.4
2	43.0	42.8
3	64.5	64.2
4	86.0	85.6
5	107.5	107.0
6	129.0	128.4
7	150.5	149.8
8	172.0	171.2
9	193.5	192.6

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.550 — 70°.500

19°.500 — 19°.550

19°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.523 4953		9.549 1487		0.450 8513	9.974 3466		.500	
		214		241			27		
501	9.523 5167		9.549 1728		0.450 8272	9.974 3439		499	
502	9.523 5381	214	9.549 1969	241	0.450 8031	9.974 3412	27	498	
503	9.523 5595	214	9.549 2210	241	0.450 7790	9.974 3385	27	497	
		214		241			27		
504	9.523 5809		9.549 2451		0.450 7549	9.974 3358		496	
505	9.523 6023	214	9.549 2691	240	0.450 7309	9.974 3331	27	495	
506	9.523 6237	214	9.549 2932	241	0.450 7068	9.974 3304	27	494	
		214		241			26		
507	9.523 6451		9.549 3173		0.450 6827	9.974 3278		493	
508	9.523 6665	214	9.549 3414	241	0.450 6586	9.974 3251	27	492	
509	9.523 6879	214	9.549 3655	241	0.450 6345	9.974 3224	27	491	
		213		240			27		
.510	9.523 7092		9.549 3895		0.450 6105	9.974 3197		.490	
		214		241			27		
511	9.523 7306		9.549 4136		0.450 5864	9.974 3170		489	
512	9.523 7520	214	9.549 4377	241	0.450 5623	9.974 3143	27	488	
513	9.523 7734	214	9.549 4618	241	0.450 5382	9.974 3116	27	487	
		214		241			26		
514	9.523 7948		9.549 4859		0.450 5141	9.974 3090		486	
515	9.523 8162	214	9.549 5099	240	0.450 4901	9.974 3063	27	485	
516	9.523 8376	214	9.549 5340	241	0.450 4660	9.974 3036	27	484	
		214		241			27		
517	9.523 8590		9.549 5581		0.450 4419	9.974 3009		483	
518	9.523 8804	214	9.549 5821	240	0.450 4179	9.974 2982	27	482	
519	9.523 9017	213	9.549 6062	241	0.450 3938	9.974 2955	27	481	
		214		241			27		
.520	9.523 9231		9.549 6303		0.450 3697	9.974 2928		.480	
		214		240			26		
521	9.523 9445		9.549 6543		0.450 3457	9.974 2902		479	
522	9.523 9659	214	9.549 6784	241	0.450 3216	9.974 2875	27	478	
523	9.523 9873	214	9.549 7025	241	0.450 2975	9.974 2848	27	477	
		213		240			27		
524	9.524 0086		9.549 7265		0.450 2735	9.974 2821		476	
525	9.524 0300	214	9.549 7506	241	0.450 2494	9.974 2794	27	475	
526	9.524 0514	214	9.549 7747	241	0.450 2253	9.974 2767	27	474	
		214		240			27		
527	9.524 0728		9.549 7987		0.450 2013	9.974 2740		473	
528	9.524 0941	213	9.549 8228	241	0.450 1772	9.974 2713	27	472	
529	9.524 1155	214	9.549 8469	241	0.450 1531	9.974 2686	27	471	
		214		240			26		
.530	9.524 1369		9.549 8709		0.450 1291	9.974 2660		.470	
		213		241			27		
531	9.524 1582		9.549 8950		0.450 1050	9.974 2633		469	
532	9.524 1796	214	9.549 9190	240	0.450 0810	9.974 2606	27	468	
533	9.524 2010	214	9.549 9431	241	0.450 0569	9.974 2579	27	467	
		213		240			27		
534	9.524 2223		9.549 9671		0.450 0329	9.974 2552		466	
535	9.524 2437	214	9.549 9912	241	0.450 0088	9.974 2525	27	465	
536	9.524 2651	214	9.550 0152	240	0.449 9848	9.974 2498	27	464	
		213		241			27		
537	9.524 2864		9.550 0393		0.449 9607	9.974 2471		463	
538	9.524 3078	214	9.550 0633	240	0.449 9367	9.974 2444	27	462	
539	9.524 3291	213	9.550 0874	241	0.449 9126	9.974 2418	26	461	
		214		240			27		
.540	9.524 3505		9.550 1114		0.449 8886	9.974 2391		.460	
		214		241			27		
541	9.524 3719		9.550 1355		0.449 8645	9.974 2364		459	
542	9.524 3932	213	9.550 1595	240	0.449 8405	9.974 2337	27	458	
543	9.524 4146	214	9.550 1836	241	0.449 8164	9.974 2310	27	457	
		213		240			27		
544	9.524 4359		9.550 2076		0.449 7924	9.974 2283		456	
545	9.524 4573	214	9.550 2317	241	0.449 7683	9.974 2256	27	455	
546	9.524 4786	213	9.550 2557	240	0.449 7443	9.974 2229	27	454	
		214		240			27		
547	9.524 5000		9.550 2797		0.449 7203	9.974 2202		453	
548	9.524 5213	213	9.550 3038	241	0.449 6962	9.974 2175	27	452	
549	9.524 5427	214	9.550 3278	240	0.449 6722	9.974 2148	27	451	
		213		241			26		
.550	9.524 5640		9.550 3519		0.449 6481	9.974 2122		.450	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	241	240
1	24.1	24.0
2	48.2	48.0
3	72.3	72.0
4	96.4	96.0
5	120.5	120.0
6	144.6	144.0
7	168.7	168.0
8	192.8	192.0
9	216.9	216.0

	214
1	21.4
2	42.8
3	64.2
4	85.6
5	107.0
6	128.4
7	149.8
8	171.2
9	192.6

	213
1	21.3
2	42.6
3	63.9
4	85.2
5	106.5
6	127.8
7	149.1
8	170.4
9	191.7

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

	26
1	2.6
2	5.2
3	7.8
4	10.4
5	13.0
6	15.6
7	18.2
8	20.8
9	23.4

70°.500 — 70°.450

19°.550 — 19°.600

19°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.524 5640		9.550 3519		0.449 6481	9.974 2122		.450	
		214		240			27		
551	9.524 5854		9.550 3759		0.449 6241	9.974 2095		449	
		213		240			27		
552	9.524 6067		9.550 3999		0.449 6001	9.974 2068		448	
		214		241			27		
553	9.524 6281		9.550 4240		0.449 5760	9.974 2041		447	
		213		240			27		
554	9.524 6494		9.550 4480		0.449 5520	9.974 2014		446	
		213		240			27		
555	9.524 6707		9.550 4720		0.449 5280	9.974 1987		445	
		214		241			27		
556	9.524 6921		9.550 4961		0.449 5039	9.974 1960		444	
		213		240			27		
557	9.524 7134		9.550 5201		0.449 4799	9.974 1933		443	
		213		240			27		
558	9.524 7347		9.550 5441		0.449 4559	9.974 1906		442	
		214		241			27		
559	9.524 7561		9.550 5682		0.449 4318	9.974 1879		441	
		213		240			27		
.560	9.524 7774		9.550 5922		0.449 4078	9.974 1852		.440	
		214		240			27		
561	9.524 7988		9.550 6162		0.449 3838	9.974 1825		439	
		213		240			27		
562	9.524 8201		9.550 6402		0.449 3598	9.974 1798		438	
		213		241			26		
563	9.524 8414		9.550 6643		0.449 3357	9.974 1772		437	
		213		240			27		
564	9.524 8627		9.550 6883		0.449 3117	9.974 1745		436	
		214		240			27		
565	9.524 8841		9.550 7123		0.449 2877	9.974 1718		435	
		213		240			27		
566	9.524 9054		9.550 7363		0.449 2637	9.974 1691		434	
		213		240			27		
567	9.524 9267		9.550 7603		0.449 2397	9.974 1664		433	
		214		241			27		
568	9.524 9481		9.550 7844		0.449 2156	9.974 1637		432	
		213		240			27		
569	9.524 9694		9.550 8084		0.449 1916	9.974 1610		431	
		213		240			27		
.570	9.524 9907		9.550 8324		0.449 1676	9.974 1583		.430	
		213		240			27		
571	9.525 0120		9.550 8564		0.449 1436	9.974 1556		429	
		213		240			27		
572	9.525 0333		9.550 8804		0.449 1196	9.974 1529		428	
		214		240			27		
573	9.525 0547		9.550 9044		0.449 0956	9.974 1502		427	
		213		241			27		
574	9.525 0760		9.550 9285		0.449 0715	9.974 1475		426	
		213		240			27		
575	9.525 0973		9.550 9525		0.449 0475	9.974 1448		425	
		213		240			27		
576	9.525 1186		9.550 9765		0.449 0235	9.974 1421		424	
		213		240			27		
577	9.525 1399		9.551 0005		0.448 9995	9.974 1394		423	
		213		240			27		
578	9.525 1612		9.551 0245		0.448 9755	9.974 1367		422	
		213		240			27		
579	9.525 1825		9.551 0485		0.448 9515	9.974 1340		421	
		214		240			27		
.580	9.525 2039		9.551 0725		0.448 9275	9.974 1313		.420	
		213		240			27		
581	9.525 2252		9.551 0965		0.448 9035	9.974 1286		419	
		213		240			27		
582	9.525 2465		9.551 1205		0.448 8795	9.974 1259		418	
		213		240			26		
583	9.525 2678		9.551 1445		0.448 8555	9.974 1233		417	
		213		240			27		
584	9.525 2891		9.551 1685		0.448 8315	9.974 1206		416	
		213		240			27		
585	9.525 3104		9.551 1925		0.448 8075	9.974 1179		415	
		213		240			27		
586	9.525 3317		9.551 2165		0.448 7835	9.974 1152		414	
		213		240			27		
587	9.525 3530		9.551 2405		0.448 7595	9.974 1125		413	
		213		240			27		
588	9.525 3743		9.551 2645		0.448 7355	9.974 1098		412	
		213		240			27		
589	9.525 3956		9.551 2885		0.448 7115	9.974 1071		411	
		213		240			27		
.590	9.525 4169		9.551 3125		0.448 6875	9.974 1044		.410	
		213		240			27		
591	9.525 4382		9.551 3365		0.448 6635	9.974 1017		409	
		213		240			27		
592	9.525 4595		9.551 3605		0.448 6395	9.974 0990		408	
		213		240			27		
593	9.525 4808		9.551 3845		0.448 6155	9.974 0963		407	
		213		240			27		
594	9.525 5021		9.551 4085		0.448 5915	9.974 0936		406	
		213		240			27		
595	9.525 5234		9.551 4325		0.448 5675	9.974 0909		405	
		213		240			27		
596	9.525 5447		9.551 4565		0.448 5435	9.974 0882		404	
		213		240			27		
597	9.525 5660		9.551 4805		0.448 5195	9.974 0855		403	
		213		240			27		
598	9.525 5873		9.551 5045		0.448 4955	9.974 0828		402	
		212		240			27		
599	9.525 6085		9.551 5285		0.448 4715	9.974 0801		401	
		213		239			27		
.600	9.525 6298		9.551 5524		0.448 4476	9.974 0774		.400	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	241	240
1	24.1	24.0
2	48.2	48.0
3	72.3	72.0
4	96.4	96.0
5	120.5	120.0
6	144.6	144.0
7	168.7	168.0
8	192.8	192.0
9	216.9	216.0

	239
1	23.9
2	47.8
3	71.7
4	95.6
5	119.5
6	143.4
7	167.3
8	191.2
9	215.1

	214	213
1	21.4	21.3
2	42.8	42.6
3	64.2	63.9
4	85.6	85.2
5	107.0	106.5
6	128.4	127.8
7	149.8	149.1
8	171.2	170.4
9	192.6	191.7

	212
1	21.2
2	42.4
3	63.6
4	84.8
5	106.0
6	127.2
7	148.4
8	169.6
9	190.8

	27	26
1	2.7	2.6
2	5.4	5.2
3	8.1	7.8
4	10.8	10.4
5	13.5	13.0
6	16.2	15.6
7	18.9	18.2
8	21.6	20.8
9	24.3	23.4

70°.450 — 70°.400

19°.600 — 19°.650

19°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.525 6298		9.551 5524		0.448 4476	9.974 0774		.400	
		213		240			27		
601	9.525 6511		9.551 5764		0.448 4236	9.974 0747		399	
602	9.525 6724	213	9.551 6004	240	0.448 3996	9.974 0720	27	398	
603	9.525 6937	213	9.551 6244	240	0.448 3756	9.974 0693	27	397	
		213		240			27		
604	9.525 7150		9.551 6484		0.448 3516	9.974 0666		396	
605	9.525 7362	212	9.551 6724	240	0.448 3276	9.974 0639	27	395	
606	9.525 7575	213	9.551 6963	239	0.448 3037	9.974 0612	27	394	
		213		240			27		
607	9.525 7788		9.551 7203		0.448 2797	9.974 0585		393	
608	9.525 8001	213	9.551 7443	240	0.448 2557	9.974 0558	27	392	
609	9.525 8214	213	9.551 7683	240	0.448 2317	9.974 0531	27	391	
		212		239			27		
.610	9.525 8426		9.551 7922		0.448 2078	9.974 0504		.390	
		213		240			27		
611	9.525 8639		9.551 8162		0.448 1838	9.974 0477		389	
612	9.525 8852	213	9.551 8402	240	0.448 1598	9.974 0450	27	388	
613	9.525 9065	213	9.551 8642	240	0.448 1358	9.974 0423	27	387	
		212		239			27		
614	9.525 9277		9.551 8881		0.448 1119	9.974 0396		386	
615	9.525 9490	213	9.551 9121	240	0.448 0879	9.974 0369	27	385	
616	9.525 9703	213	9.551 9361	240	0.448 0639	9.974 0342	27	384	
		212		239			27		
617	9.525 9915		9.551 9600		0.448 0400	9.974 0315		383	
618	9.526 0128	213	9.551 9840	240	0.448 0160	9.974 0288	27	382	
619	9.526 0341	213	9.552 0080	240	0.447 9920	9.974 0261	27	381	
		212		239			27		
.620	9.526 0553		9.552 0319		0.447 9681	9.974 0234		.380	
		213		240			27		
621	9.526 0766		9.552 0559		0.447 9441	9.974 0207		379	
622	9.526 0979	213	9.552 0799	240	0.447 9201	9.974 0180	27	378	
623	9.526 1191	212	9.552 1038	239	0.447 8962	9.974 0153	27	377	
		213		240			27		
624	9.526 1404		9.552 1278		0.447 8722	9.974 0126		376	
625	9.526 1616	212	9.552 1518	240	0.447 8482	9.974 0099	27	375	
626	9.526 1829	213	9.552 1757	239	0.447 8243	9.974 0072	27	374	
		212		240			27		
627	9.526 2041		9.552 1997		0.447 8003	9.974 0045		373	
628	9.526 2254	213	9.552 2236	239	0.447 7764	9.974 0018	27	372	
629	9.526 2467	213	9.552 2476	240	0.447 7524	9.973 9991	27	371	
		212		240			27		
.630	9.526 2679		9.552 2716		0.447 7284	9.973 9964		.370	
		213		239			28		
631	9.526 2892		9.552 2955		0.447 7045	9.973 9936		369	
632	9.526 3104	212	9.552 3195	240	0.447 6805	9.973 9909	27	368	
633	9.526 3317	213	9.552 3434	239	0.447 6566	9.973 9882	27	367	
		212		240			27		
634	9.526 3529		9.552 3674		0.447 6326	9.973 9855		366	
635	9.526 3741	212	9.552 3913	239	0.447 6087	9.973 9828	27	365	
636	9.526 3954	213	9.552 4153	240	0.447 5847	9.973 9801	27	364	
		212		239			27		
637	9.526 4166		9.552 4392		0.447 5608	9.973 9774		363	
638	9.526 4379	213	9.552 4632	240	0.447 5368	9.973 9747	27	362	
639	9.526 4591	212	9.552 4871	239	0.447 5129	9.973 9720	27	361	
		213		240			27		
.640	9.526 4804		9.552 5111		0.447 4889	9.973 9693		.360	
		212		239			27		
641	9.526 5016		9.552 5350		0.447 4650	9.973 9666		359	
642	9.526 5228	212	9.552 5589	239	0.447 4411	9.973 9639	27	358	
643	9.526 5441	213	9.552 5829	240	0.447 4171	9.973 9612	27	357	
		212		239			27		
644	9.526 5653		9.552 6068		0.447 3932	9.973 9585		356	
645	9.526 5865	212	9.552 6308	240	0.447 3692	9.973 9558	27	355	
646	9.526 6078	213	9.552 6547	239	0.447 3453	9.973 9531	27	354	
		212		239			27		
647	9.526 6290		9.552 6786		0.447 3214	9.973 9504		353	
648	9.526 6502	212	9.552 7026	240	0.447 2974	9.973 9477	27	352	
649	9.526 6715	213	9.552 7265	239	0.447 2735	9.973 9450	27	351	
		212		239			28		
.650	9.526 6927		9.552 7504		0.447 2496	9.973 9422		.350	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	240	239
1	24.0	23.9
2	48.0	47.8
3	72.0	71.7
4	96.0	95.6
5	120.0	119.5
6	144.0	143.4
7	168.0	167.3
8	192.0	191.2
9	216.0	215.1

	213
1	21.3
2	42.6
3	63.9
4	85.2
5	106.5
6	127.8
7	149.1
8	170.4
9	191.7

	212
1	21.2
2	42.4
3	63.6
4	84.8
5	106.0
6	127.2
7	148.4
8	169.6
9	190.8

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

70°.400 — 70°.350

19°.650 — 19°.700

19°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.526 6927		9.552 7504		0.447 2496	9.973 9422		.350	
		212		240			27		
651	9.526 7139		9.552 7744		0.447 2256	9.973 9395		349	
652	9.526 7352	213	9.552 7983	239	0.447 2017	9.973 9368	27	348	
653	9.526 7564	212	9.552 8222	239	0.447 1778	9.973 9341	27	347	
		212		240			27		
654	9.526 7776		9.552 8462		0.447 1538	9.973 9314		346	
655	9.526 7988	212	9.552 8701	239	0.447 1299	9.973 9287	27	345	
656	9.526 8200	212	9.552 8940	239	0.447 1060	9.973 9260	27	344	
		213		240			27		
657	9.526 8413		9.552 9180		0.447 0820	9.973 9233		343	
658	9.526 8625	212	9.552 9419	239	0.447 0581	9.973 9206	27	342	
659	9.526 8837	212	9.552 9658	239	0.447 0342	9.973 9179	27	341	
		212		239			27		
.660	9.526 9049		9.552 9897		0.447 0103	9.973 9152		.340	
		212		240			27		
661	9.526 9261		9.553 0137		0.446 9863	9.973 9125		339	
662	9.526 9474	213	9.553 0376	239	0.446 9624	9.973 9098	27	338	
663	9.526 9686	212	9.553 0615	239	0.446 9385	9.973 9071	27	337	
		212		239			28		
664	9.526 9898		9.553 0854		0.446 9146	9.973 9043		336	
665	9.527 0110	212	9.553 1094	240	0.446 8906	9.973 9016	27	335	
666	9.527 0322	212	9.553 1333	239	0.446 8667	9.973 8989	27	334	
		212		239			27		
667	9.527 0534		9.553 1572		0.446 8428	9.973 8962		333	
668	9.527 0746	212	9.553 1811	239	0.446 8189	9.973 8935	27	332	
669	9.527 0958	212	9.553 2050	239	0.446 7950	9.973 8908	27	331	
		212		239			27		
.670	9.527 1170		9.553 2289		0.446 7711	9.973 8881		.330	
		212		240			27		
671	9.527 1382		9.553 2529		0.446 7471	9.973 8854		329	
672	9.527 1594	212	9.553 2768	239	0.446 7232	9.973 8827	27	328	
673	9.527 1806	212	9.553 3007	239	0.446 6993	9.973 8800	27	327	
		212		239			27		
674	9.527 2018		9.553 3246		0.446 6754	9.973 8773		326	
675	9.527 2230	212	9.553 3485	239	0.446 6515	9.973 8745	28	325	
676	9.527 2442	212	9.553 3724	239	0.446 6276	9.973 8718	27	324	
		212		239			27		
677	9.527 2654		9.553 3963		0.446 6037	9.973 8691		323	
678	9.527 2866	212	9.553 4202	239	0.446 5798	9.973 8664	27	322	
679	9.527 3078	212	9.553 4441	239	0.446 5559	9.973 8637	27	321	
		212		239			27		
.680	9.527 3290		9.553 4680		0.446 5320	9.973 8610		.320	
		212		239			27		
681	9.527 3502		9.553 4919		0.446 5081	9.973 8583		319	
682	9.527 3714	212	9.553 5158	239	0.446 4842	9.973 8556	27	318	
683	9.527 3926	212	9.553 5397	239	0.446 4603	9.973 8529	27	317	
		212		239			28		
684	9.527 4138		9.553 5636		0.446 4364	9.973 8501		316	
685	9.527 4350	212	9.553 5875	239	0.446 4125	9.973 8474	27	315	
686	9.527 4562	212	9.553 6114	239	0.446 3886	9.973 8447	27	314	
		211		239			27		
687	9.527 4773		9.553 6353		0.446 3647	9.973 8420		313	
688	9.527 4985	212	9.553 6592	239	0.446 3408	9.973 8393	27	312	
689	9.527 5197	212	9.553 6831	239	0.446 3169	9.973 8366	27	311	
		212		239			27		
.690	9.527 5409		9.553 7070		0.446 2930	9.973 8339		.310	
		212		239			27		
691	9.527 5621		9.553 7309		0.446 2691	9.973 8312		309	
692	9.527 5832	211	9.553 7548	239	0.446 2452	9.973 8284	28	308	
693	9.527 6044	212	9.553 7787	239	0.446 2213	9.973 8257	27	307	
		212		239			27		
694	9.527 6256		9.553 8026		0.446 1974	9.973 8230		306	
695	9.527 6468	212	9.553 8265	239	0.446 1735	9.973 8203	27	305	
696	9.527 6680	212	9.553 8504	239	0.446 1496	9.973 8176	27	304	
		211		239			27		
697	9.527 6891		9.553 8743		0.446 1257	9.973 8149		303	
698	9.527 7103	212	9.553 8981	238	0.446 1019	9.973 8122	27	302	
699	9.527 7315	212	9.553 9220	239	0.446 0780	9.973 8095	27	301	
		211		239			28		
.700	9.527 7526		9.553 9459		0.446 0541	9.973 8067		.300	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	240	239
1	24.0	23.9
2	48.0	47.8
3	72.0	71.7
4	96.0	95.6
5	120.0	119.5
6	144.0	143.4
7	168.0	167.3
8	192.0	191.2
9	216.0	215.1

	238
1	23.8
2	47.6
3	71.4
4	95.2
5	119.0
6	142.8
7	166.6
8	190.4
9	214.2

	213	212
1	21.3	21.2
2	42.6	42.4
3	63.9	63.6
4	85.2	84.8
5	106.5	106.0
6	127.8	127.2
7	149.1	148.4
8	170.4	169.6
9	191.7	190.8

	211
1	21.1
2	42.2
3	63.3
4	84.4
5	105.5
6	126.6
7	147.7
8	168.8
9	189.9

	28	27
1	2.8	2.7
2	5.6	5.4
3	8.4	8.1
4	11.2	10.8
5	14.0	13.5
6	16.8	16.2
7	19.6	18.9
8	22.4	21.6
9	25.2	24.3

70°.350 — 70°.300

19°.700 — 19°.750

19°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.527 7526		9.553 9459		0.446 0541	9.973 8067		.300	
		212		239			27		
701	9.527 7738		9.553 9698		0.446 0302	9.973 8040		299	
702	9.527 7950	212	9.553 9937	239	0.446 0063	9.973 8013	27	298	
703	9.527 8161	211	9.554 0176	239	0.445 9824	9.973 7986	27	297	
		212		238			27		
704	9.527 8373		9.554 0414		0.445 9586	9.973 7959		296	
705	9.527 8585	212	9.554 0653	239	0.445 9347	9.973 7932	27	295	
706	9.527 8796	211	9.554 0892	239	0.445 9108	9.973 7905	27	294	
		212		239			28		
707	9.527 9008		9.554 1131		0.445 8869	9.973 7877		293	
708	9.527 9220	212	9.554 1369	238	0.445 8631	9.973 7850	27	292	
709	9.527 9431	211	9.554 1608	239	0.445 8392	9.973 7823	27	291	
		212		239			27		
.710	9.527 9643		9.554 1847		0.445 8153	9.973 7796		.290	
		211		239			27		
711	9.527 9854		9.554 2086		0.445 7914	9.973 7769		289	
712	9.528 0066	212	9.554 2324	238	0.445 7676	9.973 7742	27	288	
713	9.528 0278	212	9.554 2563	239	0.445 7437	9.973 7714	28	287	
		211		239			27		
714	9.528 0489		9.554 2802		0.445 7198	9.973 7687		286	
715	9.528 0701	212	9.554 3040	238	0.445 6960	9.973 7660	27	285	
716	9.528 0912	211	9.554 3279	239	0.445 6721	9.973 7633	27	284	
		212		239			27		
717	9.528 1124		9.554 3518		0.445 6482	9.973 7606		283	
718	9.528 1335	211	9.554 3756	238	0.445 6244	9.973 7579	27	282	
719	9.528 1547	212	9.554 3995	239	0.445 6005	9.973 7551	28	281	
		211		239			27		
.720	9.528 1758		9.554 4234		0.445 5766	9.973 7524		.280	
		212		238			27		
721	9.528 1970		9.554 4472		0.445 5528	9.973 7497		279	
722	9.528 2181	211	9.554 4711	239	0.445 5289	9.973 7470	27	278	
723	9.528 2392	211	9.554 4950	239	0.445 5050	9.973 7443	27	277	
		212		238			27		
724	9.528 2604		9.554 5188		0.445 4812	9.973 7416		276	
725	9.528 2815	211	9.554 5427	239	0.445 4573	9.973 7388	28	275	
726	9.528 3027	212	9.554 5665	238	0.445 4335	9.973 7361	27	274	
		211		239			27		
727	9.528 3238		9.554 5904		0.445 4096	9.973 7334		273	
728	9.528 3449	211	9.554 6143	239	0.445 3857	9.973 7307	27	272	
729	9.528 3661	212	9.554 6381	238	0.445 3619	9.973 7280	27	271	
		211		239			27		
.730	9.528 3872		9.554 6620		0.445 3380	9.973 7253		.270	
		211		238			28		
731	9.528 4083		9.554 6858		0.445 3142	9.973 7225		269	
732	9.528 4295	212	9.554 7097	239	0.445 2903	9.973 7198	27	268	
733	9.528 4506	211	9.554 7335	238	0.445 2665	9.973 7171	27	267	
		211		239			27		
734	9.528 4717		9.554 7574		0.445 2426	9.973 7144		266	
735	9.528 4929	212	9.554 7812	238	0.445 2188	9.973 7117	27	265	
736	9.528 5140	211	9.554 8051	239	0.445 1949	9.973 7089	28	264	
		211		238			27		
737	9.528 5351		9.554 8289		0.445 1711	9.973 7062		263	
738	9.528 5563	212	9.554 8528	239	0.445 1472	9.973 7035	27	262	
739	9.528 5774	211	9.554 8766	238	0.445 1234	9.973 7008	27	261	
		211		238			27		
.740	9.528 5985		9.554 9004		0.445 0996	9.973 6981		.260	
		211		239			28		
741	9.528 6196		9.554 9243		0.445 0757	9.973 6953		259	
742	9.528 6407	211	9.554 9481	238	0.445 0519	9.973 6926	27	258	
743	9.528 6619	212	9.554 9720	239	0.445 0280	9.973 6899	27	257	
		211		238			27		
744	9.528 6830		9.554 9958		0.445 0042	9.973 6872		256	
745	9.528 7041	211	9.555 0196	238	0.444 9804	9.973 6845	27	255	
746	9.528 7252	211	9.555 0435	239	0.444 9565	9.973 6817	28	254	
		211		238			27		
747	9.528 7463		9.555 0673		0.444 9327	9.973 6790		253	
748	9.528 7675	212	9.555 0912	239	0.444 9088	9.973 6763	27	252	
749	9.528 7886	211	9.555 1150	238	0.444 8850	9.973 6736	27	251	
		211		238			27		
.750	9.528 8097		9.555 1388		0.444 8612	9.973 6709		.250	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	239	238
1	23.9	23.8
2	47.8	47.6
3	71.7	71.4
4	95.6	95.2
5	119.5	119.0
6	143.4	142.8
7	167.3	166.6
8	191.2	190.4
9	215.1	214.2

	212
1	21.2
2	42.4
3	63.6
4	84.8
5	106.0
6	127.2
7	148.4
8	169.6
9	190.8

	211
1	21.1
2	42.2
3	63.3
4	84.4
5	105.5
6	126.6
7	147.7
8	168.8
9	189.9

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

70°.300 — 70°.250

19°.750 — 19°.800

19°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.528 8097		9.555 1388		0.444 8612	9.973 6709		.250	
		211		239			28		
751	9.528 8308		9.555 1627		0.444 8373	9.973 6681		249	
752	9.528 8519	211	9.555 1865	238	0.444 8135	9.973 6654	27	248	
753	9.528 8730	211	9.555 2103	238	0.444 7897	9.973 6627	27	247	
		211		239			27		
754	9.528 8941		9.555 2342		0.444 7658	9.973 6600		246	
755	9.528 9152	211	9.555 2580	238	0.444 7420	9.973 6572	28	245	
756	9.528 9363	211	9.555 2818	238	0.444 7182	9.973 6545	27	244	
		211		238			27		
757	9.528 9574		9.555 3056		0.444 6944	9.973 6518		243	
758	9.528 9785	211	9.555 3295	239	0.444 6705	9.973 6491	27	242	
759	9.528 9996	211	9.555 3533	238	0.444 6467	9.973 6464	27	241	
		211		238			28		
.760	9.529 0207		9.555 3771		0.444 6229	9.973 6436		.240	
		211		238			27		
761	9.529 0418		9.555 4009		0.444 5991	9.973 6409		239	
762	9.529 0629	211	9.555 4248	239	0.444 5752	9.973 6382	27	238	
763	9.529 0840	211	9.555 4486	238	0.444 5514	9.973 6355	27	237	
		211		238			28		
764	9.529 1051		9.555 4724		0.444 5276	9.973 6327		236	
765	9.529 1262	211	9.555 4962	238	0.444 5038	9.973 6300	27	235	
766	9.529 1473	211	9.555 5200	238	0.444 4800	9.973 6273	27	234	
		211		238			27		
767	9.529 1684		9.555 5438		0.444 4562	9.973 6246		233	
768	9.529 1895	211	9.555 5677	239	0.444 4323	9.973 6218	28	232	
769	9.529 2106	211	9.555 5915	238	0.444 4085	9.973 6191	27	231	
		211		238			27		
.770	9.529 2317		9.555 6153		0.444 3847	9.973 6164		.230	
		211		238			27		
771	9.529 2528		9.555 6391		0.444 3609	9.973 6137		229	
772	9.529 2739	211	9.555 6629	238	0.444 3371	9.973 6109	28	228	
773	9.529 2949	210	9.555 6867	238	0.444 3133	9.973 6082	27	227	
		211		238			27		
774	9.529 3160		9.555 7105		0.444 2895	9.973 6055		226	
775	9.529 3371	211	9.555 7343	238	0.444 2657	9.973 6028	27	225	
776	9.529 3582	211	9.555 7581	238	0.444 2419	9.973 6000	28	224	
		211		239			27		
777	9.529 3793		9.555 7820		0.444 2180	9.973 5973		223	
778	9.529 4004	211	9.555 8058	238	0.444 1942	9.973 5946	27	222	
779	9.529 4214	210	9.555 8296	238	0.444 1704	9.973 5919	27	221	
		211		238			28		
.780	9.529 4425		9.555 8534		0.444 1466	9.973 5891		.220	
		211		238			27		
781	9.529 4636		9.555 8772		0.444 1228	9.973 5864		219	
782	9.529 4847	211	9.555 9010	238	0.444 0990	9.973 5837	27	218	
783	9.529 5057	210	9.555 9248	238	0.444 0752	9.973 5810	27	217	
		211		238			28		
784	9.529 5268		9.555 9486		0.444 0514	9.973 5782		216	
785	9.529 5479	211	9.555 9724	238	0.444 0276	9.973 5755	27	215	
786	9.529 5689	210	9.555 9962	238	0.444 0038	9.973 5728	27	214	
		211		238			27		
787	9.529 5900		9.556 0200		0.443 9800	9.973 5701		213	
788	9.529 6111	211	9.556 0438	238	0.443 9562	9.973 5673	28	212	
789	9.529 6322	211	9.556 0676	238	0.443 9324	9.973 5646	27	211	
		210		237			27		
.790	9.529 6532		9.556 0913		0.443 9087	9.973 5619		.210	
		211		238			28		
791	9.529 6743		9.556 1151		0.443 8849	9.973 5591		209	
792	9.529 6953	210	9.556 1389	238	0.443 8611	9.973 5564	27	208	
793	9.529 7164	211	9.556 1627	238	0.443 8373	9.973 5537	27	207	
		211		238			27		
794	9.529 7375		9.556 1865		0.443 8135	9.973 5510		206	
795	9.529 7585	210	9.556 2103	238	0.443 7897	9.973 5482	28	205	
796	9.529 7796	211	9.556 2341	238	0.443 7659	9.973 5455	27	204	
		210		238			27		
797	9.529 8006		9.556 2579		0.443 7421	9.973 5428		203	
798	9.529 8217	211	9.556 2817	238	0.443 7183	9.973 5400	28	202	
799	9.529 8428	211	9.556 3054	237	0.443 6946	9.973 5373	27	201	
		210		238			27		
.800	9.529 8638		9.556 3292		0.443 6708	9.973 5346		.200	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	239	238
1	23.9	23.8
2	47.8	47.6
3	71.7	71.4
4	95.6	95.2
5	119.5	119.0
6	143.4	142.8
7	167.3	166.6
8	191.2	190.4
9	215.1	214.2

	237
1	23.7
2	47.4
3	71.1
4	94.8
5	118.5
6	142.2
7	165.9
8	189.6
9	213.3

	211	210
1	21.1	21.0
2	42.2	42.0
3	63.3	63.0
4	84.4	84.0
5	105.5	105.0
6	126.6	126.0
7	147.7	147.0
8	168.8	168.0
9	189.9	189.0

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

70°.250 — 70°.200

19°.800 — 19°.850

19°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.529 8638		9.556 3292		0.443 6708	9.973 5346		**.200**	
		211		238			27		
801	9.529 8849		9.556 3530		0.443 6470	9.973 5319		199	
802	9.529 9059	210	9.556 3768	238	0.443 6232	9.973 5291	28	198	
803	9.529 9270	211	9.556 4006	238	0.443 5994	9.973 5264	27	197	
		210		237			27		
804	9.529 9480		9.556 4243		0.443 5757	9.973 5237		196	
805	9.529 9691	211	9.556 4481	238	0.443 5519	9.973 5209	28	195	
806	9.529 9901	210	9.556 4719	238	0.443 5281	9.973 5182	27	194	
		211		238			27		
807	9.530 0112		9.556 4957		0.443 5043	9.973 5155		193	
808	9.530 0322	210	9.556 5195	238	0.443 4805	9.973 5128	27	192	
809	9.530 0533	211	9.556 5432	237	0.443 4568	9.973 5100	28	191	
		210		238			27		
.810	9.530 0743		9.556 5670		0.443 4330	9.973 5073		**.190**	
		210		238			27		
811	9.530 0953		9.556 5908		0.443 4092	9.973 5046		189	
812	9.530 1164	211	9.556 6145	237	0.443 3855	9.973 5018	28	188	
813	9.530 1374	210	9.556 6383	238	0.443 3617	9.973 4991	27	187	
		211		238			27		
814	9.530 1585		9.556 6621		0.443 3379	9.973 4964		186	
815	9.530 1795	210	9.556 6859	238	0.443 3141	9.973 4936	28	185	
816	9.530 2005	210	9.556 7096	237	0.443 2904	9.973 4909	27	184	
		211		238			27		
817	9.530 2216		9.556 7334		0.443 2666	9.973 4882		183	
818	9.530 2426	210	9.556 7572	238	0.443 2428	9.973 4854	28	182	
819	9.530 2636	210	9.556 7809	237	0.443 2191	9.973 4827	27	181	
		211		238			27		
.820	9.530 2847		9.556 8047		0.443 1953	9.973 4800		**.180**	
		210		237			27		
821	9.530 3057		9.556 8284		0.443 1716	9.973 4773		179	
822	9.530 3267	210	9.556 8522	238	0.443 1478	9.973 4745	28	178	
823	9.530 3478	211	9.556 8760	238	0.443 1240	9.973 4718	27	177	
		210		237			27		
824	9.530 3688		9.556 8997		0.443 1003	9.973 4691		176	
825	9.530 3898	210	9.556 9235	238	0.443 0765	9.973 4663	28	175	
826	9.530 4108	210	9.556 9472	237	0.443 0528	9.973 4636	27	174	
		211		238			27		
827	9.530 4319		9.556 9710		0.443 0290	9.973 4609		173	
828	9.530 4529	210	9.556 9948	238	0.443 0052	9.973 4581	28	172	
829	9.530 4739	210	9.557 0185	237	0.442 9815	9.973 4554	27	171	
		210		238			27		
.830	9.530 4949		9.557 0423		0.442 9577	9.973 4527		**.170**	
		210		237			28		
831	9.530 5159		9.557 0660		0.442 9340	9.973 4499		169	
832	9.530 5370	211	9.557 0898	238	0.442 9102	9.973 4472	27	168	
833	9.530 5580	210	9.557 1135	237	0.442 8865	9.973 4445	27	167	
		210		238			28		
834	9.530 5790		9.557 1373		0.442 8627	9.973 4417		166	
835	9.530 6000	210	9.557 1610	237	0.442 8390	9.973 4390	27	165	
836	9.530 6210	210	9.557 1848	238	0.442 8152	9.973 4363	27	164	
		210		237			28		
837	9.530 6420		9.557 2085		0.442 7915	9.973 4335		163	
838	9.530 6630	210	9.557 2322	237	0.442 7678	9.973 4308	27	162	
839	9.530 6840	210	9.557 2560	238	0.442 7440	9.973 4281	27	161	
		211		237			28		
.840	9.530 7051		9.557 2797		0.442 7203	9.973 4253		**.160**	
		210		238			27		
841	9.530 7261		9.557 3035		0.442 6965	9.973 4226		159	
842	9.530 7471	210	9.557 3272	237	0.442 6728	9.973 4198	28	158	
843	9.530 7681	210	9.557 3510	238	0.442 6490	9.973 4171	27	157	
		210		237			27		
844	9.530 7891		9.557 3747		0.442 6253	9.973 4144		156	
845	9.530 8101	210	9.557 3984	237	0.442 6016	9.973 4116	28	155	
846	9.530 8311	210	9.557 4222	238	0.442 5778	9.973 4089	27	154	
		210		237			27		
847	9.530 8521		9.557 4459		0.442 5541	9.973 4062		153	
848	9.530 8731	210	9.557 4696	237	0.442 5304	9.973 4034	28	152	
849	9.530 8941	210	9.557 4934	238	0.442 5066	9.973 4007	27	151	
		210		237			27		
.850	9.530 9151		9.557 5171		0.442 4829	9.973 3980		**.150**	
	cos	d	cotg	d	tang	sin	d	**70°**	P.P.

	238	237
1	23.8	23.7
2	47.6	47.4
3	71.4	71.1
4	95.2	94.8
5	119.0	118.5
6	142.8	142.2
7	166.6	165.9
8	190.4	189.6
9	214.2	213.3

	211
1	21.1
2	42.2
3	63.3
4	84.4
5	105.5
6	126.6
7	147.7
8	168.8
9	189.9

	210
1	21.0
2	42.0
3	63.0
4	84.0
5	105.0
6	126.0
7	147.0
8	168.0
9	189.0

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

70°.200 — 70°.150

19°.850 — 19°.900

19°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.530 9151		9.557 5171		0.442 4829	9.973 3980		**.150**	
		210		237			28		
851	9.530 9361		9.557 5408		0.442 4592	9.973 3952		149	
852	9.530 9571	210	9.557 5646	238	0.442 4354	9.973 3925	27	148	
853	9.530 9781	210	9.557 5883	237	0.442 4117	9.973 3897	28	147	
		209		237			27		
854	9.530 9990		9.557 6120		0.442 3880	9.973 3870		146	
855	9.531 0200	210	9.557 6358	238	0.442 3642	9.973 3843	27	145	
856	9.531 0410	210	9.557 6595	237	0.442 3405	9.973 3815	28	144	
		210		237			27		
857	9.531 0620		9.557 6832		0.442 3168	9.973 3788		143	
858	9.531 0830	210	9.557 7069	237	0.442 2931	9.973 3761	27	142	
859	9.531 1040	210	9.557 7307	238	0.442 2693	9.973 3733	28	141	
		210		237			27		
.860	9.531 1250		9.557 7544		0.442 2456	9.973 3706		**.140**	
		210		237			28		
861	9.531 1460		9.557 7781		0.442 2219	9.973 3678		139	
862	9.531 1669	209	9.557 8018	237	0.442 1982	9.973 3651	27	138	
863	9.531 1879	210	9.557 8256	238	0.442 1744	9.973 3624	27	137	
		210		237			28		
864	9.531 2089		9.557 8493		0.442 1507	9.973 3596		136	
865	9.531 2299	210	9.557 8730	237	0.442 1270	9.973 3569	27	135	
866	9.531 2509	210	9.557 8967	237	0.442 1033	9.973 3542	27	134	
		209		237			28		
867	9.531 2718		9.557 9204		0.442 0796	9.973 3514		133	
868	9.531 2928	210	9.557 9441	237	0.442 0559	9.973 3487	27	132	
869	9.531 3138	210	9.557 9679	238	0.442 0321	9.973 3459	28	131	
		210		237			27		
.870	9.531 3348		9.557 9916		0.442 0084	9.973 3432		**.130**	
		209		237			27		
871	9.531 3557		9.558 0153		0.441 9847	9.973 3405		129	
872	9.531 3767	210	9.558 0390	237	0.441 9610	9.973 3377	28	128	
873	9.531 3977	210	9.558 0627	237	0.441 9373	9.973 3350	27	127	
		210		237			28		
874	9.531 4187		9.558 0864		0.441 9136	9.973 3322		126	
875	9.531 4396	209	9.558 1101	237	0.441 8899	9.973 3295	27	125	
876	9.531 4606	210	9.558 1338	237	0.441 8662	9.973 3268	27	124	
		210		237			28		
877	9.531 4816		9.558 1575		0.441 8425	9.973 3240		123	
878	9.531 5025	209	9.558 1812	237	0.441 8188	9.973 3213	27	122	
879	9.531 5235	210	9.558 2049	237	0.441 7951	9.973 3185	28	121	
		209		237			27		
.880	9.531 5444		9.558 2286		0.441 7714	9.973 3158		**.120**	
		210		238			27		
881	9.531 5654		9.558 2524		0.441 7476	9.973 3131		119	
882	9.531 5864	210	9.558 2761	237	0.441 7239	9.973 3103	28	118	
883	9.531 6073	209	9.558 2998	237	0.441 7002	9.973 3076	27	117	
		210		237			28		
884	9.531 6283		9.558 3235		0.441 6765	9.973 3048		116	
885	9.531 6492	209	9.558 3472	237	0.441 6528	9.973 3021	27	115	
886	9.531 6702	210	9.558 3708	236	0.441 6292	9.973 2994	27	114	
		210		237			28		
887	9.531 6912		9.558 3945		0.441 6055	9.973 2966		113	
888	9.531 7121	209	9.558 4182	237	0.441 5818	9.973 2939	27	112	
889	9.531 7331	210	9.558 4419	237	0.441 5581	9.973 2911	28	111	
		209		237			27		
.890	9.531 7540		9.558 4656		0.441 5344	9.973 2884		**.110**	
		210		237			28		
891	9.531 7750		9.558 4893		0.441 5107	9.973 2856		109	
892	9.531 7959	209	9.558 5130	237	0.441 4870	9.973 2829	27	108	
893	9.531 8169	210	9.558 5367	237	0.441 4633	9.973 2802	27	107	
		209		237			28		
894	9.531 8378		9.558 5604		0.441 4396	9.973 2774		106	
895	9.531 8588	210	9.558 5841	237	0.441 4159	9.973 2747	27	105	
896	9.531 8797	209	9.558 6078	237	0.441 3922	9.973 2719	28	104	
		209		237			27		
897	9.531 9006		9.558 6315		0.441 3685	9.973 2692		103	
898	9.531 9216	210	9.558 6551	236	0.441 3449	9.973 2664	28	102	
899	9.531 9425	209	9.558 6788	237	0.441 3212	9.973 2637	27	101	
		210		237			27		
.900	9.531 9635		9.558 7025		0.441 2975	9.973 2610		**.100**	
	cos	d	cotg	d	tang	sin	d	**70°**	P.P.

	238	237
1	23.8	23.7
2	47.6	47.4
3	71.4	71.1
4	95.2	94.8
5	119.0	118.5
6	142.8	142.2
7	166.6	165.9
8	190.4	189.6
9	214.2	213.3

	236
1	23.6
2	47.2
3	70.8
4	94.4
5	118.0
6	141.6
7	165.2
8	188.8
9	212.4

	210	209
1	21.0	20.9
2	42.0	41.8
3	63.0	62.7
4	84.0	83.6
5	105.0	104.5
6	126.0	125.4
7	147.0	146.3
8	168.0	167.2
9	189.0	188.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

70°.150 — 70°.100

19°.900 — 19°.950

19°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.531 9635		9.558 7025		0.441 2975	9.973 2610		**.100**	
		209		237			28		
901	9.531 9844		9.558 7262		0.441 2738	9.973 2582		099	
902	9.532 0053	209	9.558 7499	237	0.441 2501	9.973 2555	27	098	
903	9.532 0263	210	9.558 7736	237	0.441 2264	9.973 2527	28	097	
		209		236			27		
904	9.532 0472		9.558 7972		0.441 2028	9.973 2500		096	
905	9.532 0681	209	9.558 8209	237	0.441 1791	9.973 2472	28	095	
906	9.532 0891	210	9.558 8446	237	0.441 1554	9.973 2445	27	094	
		209		237			28		
907	9.532 1100		9.558 8683		0.441 1317	9.973 2417		093	
908	9.532 1309	209	9.558 8919	236	0.441 1081	9.973 2390	27	092	
909	9.532 1519	210	9.558 9156	237	0.441 0844	9.973 2363	27	091	
		209		237			28		
.910	9.532 1728		9.558 9393		0.441 0607	9.973 2335		**.090**	
		209		237			27		
911	9.532 1937		9.558 9630		0.441 0370	9.973 2308		089	
912	9.532 2146	209	9.558 9866	236	0.441 0134	9.973 2280	28	088	
913	9.532 2356	210	9.559 0103	237	0.440 9897	9.973 2253	27	087	
		209		237			28		
914	9.532 2565		9.559 0340		0.440 9660	9.973 2225		086	
915	9.532 2774	209	9.559 0576	236	0.440 9424	9.973 2198	27	085	
916	9.532 2983	209	9.559 0813	237	0.440 9187	9.973 2170	28	084	
		210		237			27		
917	9.532 3193		9.559 1050		0.440 8950	9.973 2143		083	
918	9.532 3402	209	9.559 1286	236	0.440 8714	9.973 2115	28	082	
919	9.532 3611	209	9.559 1523	237	0.440 8477	9.973 2088	27	081	
		209		237			28		
.920	9.532 3820		9.559 1760		0.440 8240	9.973 2060		**.080**	
		209		236			27		
921	9.532 4029		9.559 1996		0.440 8004	9.973 2033		079	
922	9.532 4238	209	9.559 2233	237	0.440 7767	9.973 2006	27	078	
923	9.532 4448	210	9.559 2470	237	0.440 7530	9.973 1978	28	077	
		209		236			27		
924	9.532 4657		9.559 2706		0.440 7294	9.973 1951		076	
925	9.532 4866	209	9.559 2943	237	0.440 7057	9.973 1923	28	075	
926	9.532 5075	209	9.559 3179	236	0.440 6821	9.973 1896	27	074	
		209		237			28		
927	9.532 5284		9.559 3416		0.440 6584	9.973 1868		073	
928	9.532 5493	209	9.559 3652	236	0.440 6348	9.973 1841	27	072	
929	9.532 5702	209	9.559 3889	237	0.440 6111	9.973 1813	28	071	
		209		237			27		
.930	9.532 5911		9.559 4126		0.440 5874	9.973 1786		**.070**	
		209		236			28		
931	9.532 6120		9.559 4362		0.440 5638	9.973 1758		069	
932	9.532 6329	209	9.559 4599	237	0.440 5401	9.973 1731	27	068	
933	9.532 6538	209	9.559 4835	236	0.440 5165	9.973 1703	28	067	
		209		237			27		
934	9.532 6747		9.559 5072		0.440 4928	9.973 1676		066	
935	9.532 6956	209	9.559 5308	236	0.440 4692	9.973 1648	28	065	
936	9.532 7165	209	9.559 5545	237	0.440 4455	9.973 1621	27	064	
		209		236			28		
937	9.532 7374		9.559 5781		0.440 4219	9.973 1593		063	
938	9.532 7583	209	9.559 6017	236	0.440 3983	9.973 1566	27	062	
939	9.532 7792	209	9.559 6254	237	0.440 3746	9.973 1538	28	061	
		209		236			27		
.940	9.532 8001		9.559 6490		0.440 3510	9.973 1511		**.060**	
		209		237			28		
941	9.532 8210		9.559 6727		0.440 3273	9.973 1483		059	
942	9.532 8419	209	9.559 6963	236	0.440 3037	9.973 1456	27	058	
943	9.532 8628	209	9.559 7200	237	0.440 2800	9.973 1428	28	057	
		209		236			27		
944	9.532 8837		9.559 7436		0.440 2564	9.973 1401		056	
945	9.532 9046	209	9.559 7672	236	0.440 2328	9.973 1373	28	055	
946	9.532 9255	209	9.559 7909	237	0.440 2091	9.973 1346	27	054	
		208		236			28		
947	9.532 9463		9.559 8145		0.440 1855	9.973 1318		053	
948	9.532 9672	209	9.559 8382	237	0.440 1618	9.973 1291	27	052	
949	9.532 9881	209	9.559 8618	236	0.440 1382	9.973 1263	28	051	
		209		236			27		
.950	9.533 0090		9.559 8854		0.440 1146	9.973 1236		**.050**	
	cos	d	cotg	d	tang	sin	d	**70°**	P.P.

70°.100 — 70°.050

	237	236
1	23.7	23.6
2	47.4	47.2
3	71.1	70.8
4	94.8	94.4
5	118.5	118.0
6	142.2	141.6
7	165.9	165.2
8	189.6	188.8
9	213.3	212.4

	210	209
1	21.0	20.9
2	42.0	41.8
3	63.0	62.7
4	84.0	83.6
5	105.0	104.5
6	126.0	125.4
7	147.0	146.3
8	168.0	167.2
9	189.0	188.1

	208
1	20.8
2	41.6
3	62.4
4	83.2
5	104.0
6	124.8
7	145.6
8	166.4
9	187.2

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

19°.950 — 20°.000

19°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.533 0090		9.559 8854		0.440 1146	9.973 1236		.050	
		209		237			28		
951	9.533 0299		9.559 9091		0.440 0909	9.973 1208		049	
952	9.533 0508	209	9.559 9327	236	0.440 0673	9.973 1181	27	048	
953	9.533 0716	208	9.559 9563	236	0.440 0437	9.973 1153	28	047	
		209		236			27		
954	9.533 0925		9.559 9799		0.440 0201	9.973 1126		046	
955	9.533 1134	209	9.560 0036	237	0.439 9964	9.973 1098	28	045	
956	9.533 1343	209	9.560 0272	236	0.439 9728	9.973 1071	27	044	
		208		236			28		
957	9.533 1551		9.560 0508		0.439 9492	9.973 1043		043	
958	9.533 1760	209	9.560 0745	237	0.439 9255	9.973 1016	27	042	
959	9.533 1969	209	9.560 0981	236	0.439 9019	9.973 0988	28	041	
		209		236			27		
.960	9.533 2178		9.560 1217		0.439 8783	9.973 0961		.040	
		208		236			28		
961	9.533 2386		9.560 1453		0.439 8547	9.973 0933		039	
962	9.533 2595	209	9.560 1690	237	0.439 8310	9.973 0905	28	038	
963	9.533 2804	209	9.560 1926	236	0.439 8074	9.973 0878	27	037	
		208		236			28		
964	9.533 3012		9.560 2162		0.439 7838	9.973 0850		036	
965	9.533 3221	209	9.560 2398	236	0.439 7602	9.973 0823	27	035	
966	9.533 3430	209	9.560 2634	236	0.439 7366	9.973 0795	28	034	
		208		236			27		
967	9.533 3638		9.560 2870		0.439 7130	9.973 0768		033	
968	9.533 3847	209	9.560 3107	237	0.439 6893	9.973 0740	28	032	
969	9.533 4055	208	9.560 3343	236	0.439 6657	9.973 0713	27	031	
		209		236			28		
.970	9.533 4264		9.560 3579		0.439 6421	9.973 0685		.030	
		209		236			27		
971	9.533 4473		9.560 3815		0.439 6185	9.973 0658		029	
972	9.533 4681	208	9.560 4051	236	0.439 5949	9.973 0630	28	028	
973	9.533 4890	209	9.560 4287	236	0.439 5713	9.973 0603	27	027	
		208		236			28		
974	9.533 5098		9.560 4523		0.439 5477	9.973 0575		026	
975	9.533 5307	209	9.560 4760	237	0.439 5240	9.973 0547	28	025	
976	9.533 5515	208	9.560 4996	236	0.439 5004	9.973 0520	27	024	
		209		236			28		
977	9.533 5724		9.560 5232		0.439 4768	9.973 0492		023	
978	9.533 5932	208	9.560 5468	236	0.439 4532	9.973 0465	27	022	
979	9.533 6141	209	9.560 5704	236	0.439 4296	9.973 0437	28	021	
		208		236			27		
.980	9.533 6349		9.560 5940		0.439 4060	9.973 0410		.020	
		209		236			28		
981	9.533 6558		9.560 6176		0.439 3824	9.973 0382		019	
982	9.533 6766	208	9.560 6412	236	0.439 3588	9.973 0355	27	018	
983	9.533 6975	209	9.560 6648	236	0.439 3352	9.973 0327	28	017	
		208		236			28		
984	9.533 7183		9.560 6884		0.439 3116	9.973 0299		016	
985	9.533 7392	209	9.560 7120	236	0.439 2880	9.973 0272	27	015	
986	9.533 7600	208	9.560 7356	236	0.439 2644	9.973 0244	28	014	
		209		236			27		
987	9.533 7809		9.560 7592		0.439 2408	9.973 0217		013	
988	9.533 8017	208	9.560 7828	236	0.439 2172	9.973 0189	28	012	
989	9.533 8225	208	9.560 8064	236	0.439 1936	9.973 0162	27	011	
		209		236			28		
.990	9.533 8434		9.560 8300		0.439 1700	9.973 0134		.010	
		208		236			28		
991	9.533 8642		9.560 8536		0.439 1464	9.973 0106		009	
992	9.533 8850	208	9.560 8772	236	0.439 1228	9.973 0079	27	008	
993	9.533 9059	209	9.560 9008	236	0.439 0992	9.973 0051	28	007	
		208		235			27		
994	9.533 9267		9.560 9243		0.439 0757	9.973 0024		006	
995	9.533 9475	208	9.560 9479	236	0.439 0521	9.972 9996	28	005	
996	9.533 9684	209	9.560 9715	236	0.439 0285	9.972 9969	27	004	
		208		236			28		
997	9.533 9892		9.560 9951		0.439 0049	9.972 9941		003	
998	9.534 0100	208	9.561 0187	236	0.438 9813	9.972 9913	28	002	
999	9.534 0309	209	9.561 0423	236	0.438 9577	9.972 9886	27	001	
		208		236			28		
*.000	9.534 0517		9.561 0659		0.438 9341	9.972 9858		.000	
	cos	d	cotg	d	tang	sin	d	70°	P.P.

	237	236
1	23.7	23.6
2	47.4	47.2
3	71.1	70.8
4	94.8	94.4
5	118.5	118.0
6	142.2	141.6
7	165.9	165.2
8	189.6	188.8
9	213.3	212.4

	235
1	23.5
2	47.0
3	70.5
4	94.0
5	117.5
6	141.0
7	164.5
8	188.0
9	211.5

	209	208
1	20.9	20.8
2	41.8	41.6
3	62.7	62.4
4	83.6	83.2
5	104.5	104.0
6	125.4	124.8
7	146.3	145.6
8	167.2	166.4
9	188.1	187.2

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

70°.050 — 70°.000

20°.000 — 20°.050

20°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.534 0517		9.561 0659		0.438 9341	9.972 9858		*000	
		208		236			27		
001	9.534 0725		9.561 0895		0.438 9105	9.972 9831		999	
002	9.534 0933	208	9.561 1130	235	0.438 8870	9.972 9803	28	998	
003	9.534 1142	209	9.561 1366	236	0.438 8634	9.972 9775	28	997	
		208		236			27		
004	9.534 1350		9.561 1602		0.438 8398	9.972 9748		996	
005	9.534 1558	208	9.561 1838	236	0.438 8162	9.972 9720	28	995	
006	9.534 1766	208	9.561 2074	236	0.438 7926	9.972 9693	27	994	
		208		235			28		
007	9.534 1974		9.561 2309		0.438 7691	9.972 9665		993	
008	9.534 2183	209	9.561 2545	236	0.438 7455	9.972 9637	28	992	
009	9.534 2391	208	9.561 2781	236	0.438 7219	9.972 9610	27	991	
		208		236			28		
.010	9.534 2599		9.561 3017		0.438 6983	9.972 9582		.990	
		208		235			27		
011	9.534 2807		9.561 3252		0.438 6748	9.972 9555		989	
012	9.534 3015	208	9.561 3488	236	0.438 6512	9.972 9527	28	988	
013	9.534 3223	208	9.561 3724	236	0.438 6276	9.972 9499	28	987	
		208		236			27		
014	9.534 3431		9.561 3960		0.438 6040	9.972 9472		986	
015	9.534 3639	208	9.561 4195	235	0.438 5805	9.972 9444	28	985	
016	9.534 3847	208	9.561 4431	236	0.438 5569	9.972 9417	27	984	
		209		236			28		
017	9.534 4056		9.561 4667		0.438 5333	9.972 9389		983	
018	9.534 4264	208	9.561 4902	235	0.438 5098	9.972 9361	28	982	
019	9.534 4472	208	9.561 5138	236	0.438 4862	9.972 9334	27	981	
		208		236			28		
.020	9.534 4680		9.561 5374		0.438 4626	9.972 9306		.980	
		208		235			28		
021	9.534 4888		9.561 5609		0.438 4391	9.972 9278		979	
022	9.534 5096	208	9.561 5845	236	0.438 4155	9.972 9251	27	978	
023	9.534 5304	208	9.561 6080	235	0.438 3920	9.972 9223	28	977	
		208		236			27		
024	9.534 5512		9.561 6316		0.438 3684	9.972 9196		976	
025	9.534 5720	208	9.561 6552	236	0.438 3448	9.972 9168	28	975	
026	9.534 5928	208	9.561 6787	235	0.438 3213	9.972 9140	28	974	
		208		236			27		
027	9.534 6136		9.561 7023		0.438 2977	9.972 9113		973	
028	9.534 6344	208	9.561 7258	235	0.438 2742	9.972 9085	28	972	
029	9.534 6551	207	9.561 7494	236	0.438 2506	9.972 9057	28	971	
		208		236			27		
.030	9.534 6759		9.561 7730		0.438 2270	9.972 9030		.970	
		208		235			28		
031	9.534 6967		9.561 7965		0.438 2035	9.972 9002		969	
032	9.534 7175	208	9.561 8201	236	0.438 1799	9.972 8975	27	968	
033	9.534 7383	208	9.561 8436	235	0.438 1564	9.972 8947	28	967	
		208		236			28		
034	9.534 7591		9.561 8672		0.438 1328	9.972 8919		966	
035	9.534 7799	208	9.561 8907	235	0.438 1093	9.972 8892	27	965	
036	9.534 8007	208	9.561 9143	236	0.438 0857	9.972 8864	28	964	
		208		235			28		
037	9.534 8215		9.561 9378		0.438 0622	9.972 8836		963	
038	9.534 8422	207	9.561 9614	236	0.438 0386	9.972 8809	27	962	
039	9.534 8630	208	9.561 9849	235	0.438 0151	9.972 8781	28	961	
		208		236			28		
.040	9.534 8838		9.562 0085		0.437 9915	9.972 8753		.960	
		208		235			27		
041	9.534 9046		9.562 0320		0.437 9680	9.972 8726		959	
042	9.534 9254	208	9.562 0555	235	0.437 9445	9.972 8698	28	958	
043	9.534 9461	207	9.562 0791	236	0.437 9209	9.972 8670	28	957	
		208		235			27		
044	9.534 9669		9.562 1026		0.437 8974	9.972 8643		956	
045	9.534 9877	208	9.562 1262	236	0.437 8738	9.972 8615	28	955	
046	9.535 0085	208	9.562 1497	235	0.437 8503	9.972 8588	27	954	
		207		236			28		
047	9.535 0292		9.562 1733		0.437 8267	9.972 8560		953	
048	9.535 0500	208	9.562 1968	235	0.437 8032	9.972 8532	28	952	
049	9.535 0708	208	9.562 2203	235	0.437 7797	9.972 8505	27	951	
		207		236			28		
.050	9.535 0915		9.562 2439		0.437 7561	9.972 8477		.950	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

70°.000 — 69°.950

	236	235
1	23.6	23.5
2	47.2	47.0
3	70.8	70.5
4	94.4	94.0
5	118.0	117.5
6	141.6	141.0
7	165.2	164.5
8	188.8	188.0
9	212.4	211.5

	209	208
1	20.9	20.8
2	41.8	41.6
3	62.7	62.4
4	83.6	83.2
5	104.5	104.0
6	125.4	124.8
7	146.3	145.6
8	167.2	166.4
9	188.1	187.2

	207
1	20.7
2	41.4
3	62.1
4	82.8
5	103.5
6	124.2
7	144.9
8	165.6
9	186.3

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

$20^\circ.050$ — $20^\circ.100$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.535 0915		9.562 2439		0.437 7561	9.972 8477		**.950**	
		208		235			28		
051	9.535 1123		9.562 2674		0.437 7326	9.972 8449		949	
052	9.535 1331	208	9.562 2909	235	0.437 7091	9.972 8422	27	948	
053	9.535 1539	208	9.562 3145	236	0.437 6855	9.972 8394	28	947	
		207		235			28		
054	9.535 1746		9.562 3380		0.437 6620	9.972 8366		946	
055	9.535 1954	208	9.562 3615	235	0.437 6385	9.972 8339	27	945	
056	9.535 2161	207	9.562 3851	236	0.437 6149	9.972 8311	28	944	
		208		235			28		
057	9.535 2369		9.562 4086		0.437 5914	9.972 8283		943	
058	9.535 2577	208	9.562 4321	235	0.437 5679	9.972 8256	27	942	
059	9.535 2784	207	9.562 4556	235	0.437 5444	9.972 8228	28	941	
		208		236			28		
.060	9.535 2992		9.562 4792		0.437 5208	9.972 8200		**.940**	
		207		235			28		
061	9.535 3199		9.562 5027		0.437 4973	9.972 8172		939	
062	9.535 3407	208	9.562 5262	235	0.437 4738	9.972 8145	27	938	
063	9.535 3615	208	9.562 5497	235	0.437 4503	9.972 8117	28	937	
		207		236			28		
064	9.535 3822		9.562 5733		0.437 4267	9.972 8089		936	
065	9.535 4030	208	9.562 5968	235	0.437 4032	9.972 8062	27	935	
066	9.535 4237	207	9.562 6203	235	0.437 3797	9.972 8034	28	934	
		208		235			28		
067	9.535 4445		9.562 6438		0.437 3562	9.972 8006		933	
068	9.535 4652	207	9.562 6673	235	0.437 3327	9.972 7979	27	932	
069	9.535 4860	208	9.562 6909	236	0.437 3091	9.972 7951	28	931	
		207		235			28		
.070	9.535 5067		9.562 7144		0.437 2856	9.972 7923		**.930**	
		208		235			27		
071	9.535 5275		9.562 7379		0.437 2621	9.972 7896		929	
072	9.535 5482	207	9.562 7614	235	0.437 2386	9.972 7868	28	928	
073	9.535 5689	207	9.562 7849	235	0.437 2151	9.972 7840	28	927	
		208		235			27		
074	9.535 5897		9.562 8084		0.437 1916	9.972 7813		926	
075	9.535 6104	207	9.562 8319	235	0.437 1681	9.972 7785	28	925	
076	9.535 6312	208	9.562 8555	236	0.437 1445	9.972 7757	28	924	
		207		235			28		
077	9.535 6519		9.562 8790		0.437 1210	9.972 7729		923	
078	9.535 6726	207	9.562 9025	235	0.437 0975	9.972 7702	27	922	
079	9.535 6934	208	9.562 9260	235	0.437 0740	9.972 7674	28	921	
		207		235			28		
.080	9.535 7141		9.562 9495		0.437 0505	9.972 7646		**.920**	
		208		235			27		
081	9.535 7349		9.562 9730		0.437 0270	9.972 7619		919	
082	9.535 7556	207	9.562 9965	235	0.437 0035	9.972 7591	28	918	
083	9.535 7763	207	9.563 0200	235	0.436 9800	9.972 7563	28	917	
		207		235			28		
084	9.535 7970		9.563 0435		0.436 9565	9.972 7535		916	
085	9.535 8178	208	9.563 0670	235	0.436 9330	9.972 7508	27	915	
086	9.535 8385	207	9.563 0905	235	0.436 9095	9.972 7480	28	914	
		207		235			28		
087	9.535 8592		9.563 1140		0.436 8860	9.972 7452		913	
088	9.535 8800	208	9.563 1375	235	0.436 8625	9.972 7425	27	912	
089	9.535 9007	207	9.563 1610	235	0.436 8390	9.972 7397	28	911	
		207		235			28		
.090	9.535 9214		9.563 1845		0.436 8155	9.972 7369		**.910**	
		207		235			28		
091	9.535 9421		9.563 2080		0.436 7920	9.972 7341		909	
092	9.535 9629	208	9.563 2315	235	0.436 7685	9.972 7314	27	908	
093	9.535 9836	207	9.563 2550	235	0.436 7450	9.972 7286	28	907	
		207		235			28		
094	9.536 0043		9.563 2785		0.436 7215	9.972 7258		906	
095	9.536 0250	207	9.563 3020	235	0.436 6980	9.972 7230	28	905	
096	9.536 0457	207	9.563 3255	235	0.436 6745	9.972 7203	27	904	
		208		235			28		
097	9.536 0665		9.563 3490		0.436 6510	9.972 7175		903	
098	9.536 0872	207	9.563 3724	234	0.436 6276	9.972 7147	28	902	
099	9.536 1079	207	9.563 3959	235	0.436 6041	9.972 7120	27	901	
		207		235			28		
.100	9.536 1286		9.563 4194		0.436 5806	9.972 7092		**.900**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	236	235
1	23.6	23.5
2	47.2	47.0
3	70.8	70.5
4	94.4	94.0
5	118.0	117.5
6	141.6	141.0
7	165.2	164.5
8	188.8	188.0
9	212.4	211.5

	234
1	23.4
2	46.8
3	70.2
4	93.6
5	117.0
6	140.4
7	163.8
8	187.2
9	210.6

	208	207
1	20.8	20.7
2	41.6	41.4
3	62.4	62.1
4	83.2	82.8
5	104.0	103.5
6	124.8	124.2
7	145.6	144.9
8	166.4	165.6
9	187.2	186.3

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

$69^\circ.950$ — $69^\circ.900$

20°.100 — 20°.150

20°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.536 1286		9.563 4194		0.436 5806	9.972 7092		.900	
		207		235			28		
101	9.536 1493		9.563 4429		0.436 5571	9.972 7064		899	
102	9.536 1700	207	9.563 4664	235	0.436 5336	9.972 7036	28	898	
103	9.536 1907	207	9.563 4899	235	0.436 5101	9.972 7009	27	897	
		207		235			28		
104	9.536 2114		9.563 5134		0.436 4866	9.972 6981		896	
105	9.536 2322	208	9.563 5368	234	0.436 4632	9.972 6953	28	895	
106	9.536 2529	207	9.563 5603	235	0.436 4397	9.972 6925	28	894	
		207		235			27		
107	9.536 2736		9.563 5838		0.436 4162	9.972 6898		893	
108	9.536 2943	207	9.563 6073	235	0.436 3927	9.972 6870	28	892	
109	9.536 3150	207	9.563 6308	235	0.436 3692	9.972 6842	28	891	
		207		234			28		
.110	9.536 3357		9.563 6542		0.436 3458	9.972 6814		.890	
		207		235			27		
111	9.536 3564		9.563 6777		0.436 3223	9.972 6787		889	
112	9.536 3771	207	9.563 7012	235	0.436 2988	9.972 6759	28	888	
113	9.536 3978	207	9.563 7247	235	0.436 2753	9.972 6731	28	887	
		207		234			28		
114	9.536 4185		9.563 7481		0.436 2519	9.972 6703		886	
115	9.536 4392	207	9.563 7716	235	0.436 2284	9.972 6676	27	885	
116	9.536 4599	207	9.563 7951	235	0.436 2049	9.972 6648	28	884	
		207		235			28		
117	9.536 4806		9.563 8186		0.436 1814	9.972 6620		883	
118	9.536 5013	207	9.563 8420	234	0.436 1580	9.972 6592	28	882	
119	9.536 5219	206	9.563 8655	235	0.436 1345	9.972 6565	27	881	
		207		235			28		
.120	9.536 5426		9.563 8890		0.436 1110	9.972 6537		.880	
		207		234			28		
121	9.536 5633		9.563 9124		0.436 0876	9.972 6509		879	
122	9.536 5840	207	9.563 9359	235	0.436 0641	9.972 6481	28	878	
123	9.536 6047	207	9.563 9594	235	0.436 0406	9.972 6453	28	877	
		207		234			27		
124	9.536 6254		9.563 9828		0.436 0172	9.972 6426		876	
125	9.536 6461	207	9.564 0063	235	0.435 9937	9.972 6398	28	875	
126	9.536 6668	207	9.564 0297	234	0.435 9703	9.972 6370	28	874	
		206		235			28		
127	9.536 6874		9.564 0532		0.435 9468	9.972 6342		873	
128	9.536 7081	207	9.564 0767	235	0.435 9233	9.972 6315	27	872	
129	9.536 7288	207	9.564 1001	234	0.435 8999	9.972 6287	28	871	
		207		235			28		
.130	9.536 7495		9.564 1236		0.435 8764	9.972 6259		.870	
		207		234			28		
131	9.536 7702		9.564 1470		0.435 8530	9.972 6231		869	
132	9.536 7908	206	9.564 1705	235	0.435 8295	9.972 6203	28	868	
133	9.536 8115	207	9.564 1940	235	0.435 8060	9.972 6176	27	867	
		207		234			28		
134	9.536 8322		9.564 2174		0.435 7826	9.972 6148		866	
135	9.536 8529	207	9.564 2409	235	0.435 7591	9.972 6120	28	865	
136	9.536 8735	206	9.564 2643	234	0.435 7357	9.972 6092	28	864	
		207		235			28		
137	9.536 8942		9.564 2878		0.435 7122	9.972 6064		863	
138	9.536 9149	207	9.564 3112	234	0.435 6888	9.972 6037	27	862	
139	9.536 9356	207	9.564 3347	235	0.435 6653	9.972 6009	28	861	
		206		234			28		
.140	9.536 9562		9.564 3581		0.435 6419	9.972 5981		.860	
		207		235			28		
141	9.536 9769		9.564 3816		0.435 6184	9.972 5953		859	
142	9.536 9976	207	9.564 4050	234	0.435 5950	9.972 5925	28	858	
143	9.537 0182	206	9.564 4285	235	0.435 5715	9.972 5898	27	857	
		207		234			28		
144	9.537 0389		9.564 4519		0.435 5481	9.972 5870		856	
145	9.537 0596	207	9.564 4753	234	0.435 5247	9.972 5842	28	855	
146	9.537 0802	206	9.564 4988	235	0.435 5012	9.972 5814	28	854	
		207		234			28		
147	9.537 1009		9.564 5222		0.435 4778	9.972 5786		853	
148	9.537 1215	206	9.564 5457	235	0.435 4543	9.972 5759	27	852	
149	9.537 1422	207	9.564 5691	234	0.435 4309	9.972 5731	28	851	
		207		234			28		
.150	9.537 1629		9.564 5925		0.435 4075	9.972 5703		.850	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	235	234
1	23.5	23.4
2	47.0	46.8
3	70.5	70.2
4	94.0	93.6
5	117.5	117.0
6	141.0	140.4
7	164.5	163.8
8	188.0	187.2
9	211.5	210.6

	208	207
1	20.8	20.7
2	41.6	41.4
3	62.4	62.1
4	83.2	82.8
5	104.0	103.5
6	124.8	124.2
7	145.6	144.9
8	166.4	165.6
9	187.2	186.3

	206
1	20.6
2	41.2
3	61.8
4	82.4
5	103.0
6	123.6
7	144.2
8	164.8
9	185.4

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

69°.900 — 69°.850

20°.150 — 20°.200

20°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.537 1629		9.564 5925		0.435 4075	9.972 5703		.850	
		206		235			28		
151	9.537 1835		9.564 6160		0.435 3840	9.972 5675		849	
		207		234			28		
152	9.537 2042		9.564 6394		0.435 3606	9.972 5647		848	
		206		235			27		
153	9.537 2248		9.564 6629		0.435 3371	9.972 5620		847	
		207		234			28		
154	9.537 2455		9.564 6863		0.435 3137	9.972 5592		846	
		206		234			28		
155	9.537 2661		9.564 7097		0.435 2903	9.972 5564		845	
		207		235			28		
156	9.537 2868		9.564 7332		0.435 2668	9.972 5536		844	
		206		234			28		
157	9.537 3074		9.564 7566		0.435 2434	9.972 5508		843	
		207		234			28		
158	9.537 3281		9.564 7800		0.435 2200	9.972 5480		842	
		206		235			27		
159	9.537 3487		9.564 8035		0.435 1965	9.972 5453		841	
		207		234			28		
.160	9.537 3694		9.564 8269		0.435 1731	9.972 5425		.840	
		206		234			28		
161	9.537 3900		9.564 8503		0.435 1497	9.972 5397		839	
		207		234			28		
162	9.537 4107		9.564 8737		0.435 1263	9.972 5369		838	
		206		235			28		
163	9.537 4313		9.564 8972		0.435 1028	9.972 5341		837	
		206		234			28		
164	9.537 4519		9.564 9206		0.435 0794	9.972 5313		836	
		207		234			27		
165	9.537 4726		9.564 9440		0.435 0560	9.972 5286		835	
		206		234			28		
166	9.537 4932		9.564 9674		0.435 0326	9.972 5258		834	
		207		235			28		
167	9.537 5139		9.564 9909		0.435 0091	9.972 5230		833	
		206		234			28		
168	9.537 5345		9.565 0143		0.434 9857	9.972 5202		832	
		206		234			28		
169	9.537 5551		9.565 0377		0.434 9623	9.972 5174		831	
		207		234			28		
.170	9.537 5758		9.565 0611		0.434 9389	9.972 5146		.830	
		206		234			27		
171	9.537 5964		9.565 0845		0.434 9155	9.972 5119		829	
		206		235			28		
172	9.537 6170		9.565 1080		0.434 8920	9.972 5091		828	
		207		234			28		
173	9.537 6377		9.565 1314		0.434 8686	9.972 5063		827	
		206		234			28		
174	9.537 6583		9.565 1548		0.434 8452	9.972 5035		826	
		206		234			28		
175	9.537 6789		9.565 1782		0.434 8218	9.972 5007		825	
		207		234			28		
176	9.537 6996		9.565 2016		0.434 7984	9.972 4979		824	
		206		234			27		
177	9.537 7202		9.565 2250		0.434 7750	9.972 4952		823	
		206		234			28		
178	9.537 7408		9.565 2484		0.434 7516	9.972 4924		822	
		206		235			28		
179	9.537 7614		9.565 2719		0.434 7281	9.972 4896		821	
		207		234			28		
.180	9.537 7821		9.565 2953		0.434 7047	9.972 4868		.820	
		206		234			28		
181	9.537 8027		9.565 3187		0.434 6813	9.972 4840		819	
		206		234			28		
182	9.537 8233		9.565 3421		0.434 6579	9.972 4812		818	
		206		234			28		
183	9.537 8439		9.565 3655		0.434 6345	9.972 4784		817	
		206		234			27		
184	9.537 8645		9.565 3889		0.434 6111	9.972 4757		816	
		207		234			28		
185	9.537 8852		9.565 4123		0.434 5877	9.972 4729		815	
		206		234			28		
186	9.537 9058		9.565 4357		0.434 5643	9.972 4701		814	
		206		234			28		
187	9.537 9264		9.565 4591		0.434 5409	9.972 4673		813	
		206		234			28		
188	9.537 9470		9.565 4825		0.434 5175	9.972 4645		812	
		206		234			28		
189	9.537 9676		9.565 5059		0.434 4941	9.972 4617		811	
		206		234			28		
.190	9.537 9882		9.565 5293		0.434 4707	9.972 4589		.810	
		207		234			28		
191	9.538 0089		9.565 5527		0.434 4473	9.972 4561		809	
		206		234			27		
192	9.538 0295		9.565 5761		0.434 4239	9.972 4534		808	
		206		234			28		
193	9.538 0501		9.565 5995		0.434 4005	9.972 4506		807	
		206		234			28		
194	9.538 0707		9.565 6229		0.434 3771	9.972 4478		806	
		206		234			28		
195	9.538 0913		9.565 6463		0.434 3537	9.972 4450		805	
		206		234			28		
196	9.538 1119		9.565 6697		0.434 3303	9.972 4422		804	
		206		234			28		
197	9.538 1325		9.565 6931		0.434 3069	9.972 4394		803	
		206		234			28		
198	9.538 1531		9.565 7165		0.434 2835	9.972 4366		802	
		206		234			28		
199	9.538 1737		9.565 7399		0.434 2601	9.972 4338		801	
		206		234			28		
.200	9.538 1943		9.565 7633		0.434 2367	9.972 4310		.800	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	235	234
1	23.5	23.4
2	47.0	46.8
3	70.5	70.2
4	94.0	93.6
5	117.5	117.0
6	141.0	140.4
7	164.5	163.8
8	188.0	187.2
9	211.5	210.6

	207	206
1	20.7	20.6
2	41.4	41.2
3	62.1	61.8
4	82.8	82.4
5	103.5	103.0
6	124.2	123.6
7	144.9	144.2
8	165.6	164.8
9	186.3	185.4

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

69°.850 — 69°.800

$20^\circ.200$ — $20^\circ.250$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.538 1943		9.565 7633		0.434 2367	9.972 4310		**.800**	
		206		234			27		
201	9.538 2149		9.565 7867		0.434 2133	9.972 4283	28	799	
202	9.538 2355	206	9.565 8100	233	0.434 1900	9.972 4255	28	798	
203	9.538 2561	206	9.565 8334	234	0.434 1666	9.972 4227	28	797	
		206		234			28		
204	9.538 2767		9.565 8568		0.434 1432	9.972 4199	28	796	
205	9.538 2973	206	9.565 8802	234	0.434 1198	9.972 4171	28	795	
206	9.538 3179	206	9.565 9036	234	0.434 0964	9.972 4143	28	794	
		206		234			28		
207	9.538 3385		9.565 9270		0.434 0730	9.972 4115	28	793	
208	9.538 3591	206	9.565 9504	234	0.434 0496	9.972 4087	28	792	
209	9.538 3797	206	9.565 9737	233	0.434 0263	9.972 4059	28	791	
		206		234			27		
.210	9.538 4003		9.565 9971		0.434 0029	9.972 4032		**.790**	
		206		234			28		
211	9.538 4209		9.566 0205		0.433 9795	9.972 4004	28	789	
212	9.538 4415	206	9.566 0439	234	0.433 9561	9.972 3976	28	788	
213	9.538 4620	205	9.566 0673	234	0.433 9327	9.972 3948	28	787	
		206		233			28		
214	9.538 4826		9.566 0906		0.433 9094	9.972 3920	28	786	
215	9.538 5032	206	9.566 1140	234	0.433 8860	9.972 3892	28	785	
216	9.538 5238	206	9.566 1374	234	0.433 8626	9.972 3864	28	784	
		206		234			28		
217	9.538 5444		9.566 1608		0.433 8392	9.972 3836	28	783	
218	9.538 5650	206	9.566 1841	233	0.433 8159	9.972 3808	28	782	
219	9.538 5855	205	9.566 2075	234	0.433 7925	9.972 3780	28	781	
		206		234			28		
.220	9.538 6061		9.566 2309		0.433 7691	9.972 3752		**.780**	
		206		234			28		
221	9.538 6267		9.566 2543		0.433 7457	9.972 3724		779	
222	9.538 6473	206	9.566 2776	233	0.433 7224	9.972 3697	27	778	
223	9.538 6679	206	9.566 3010	234	0.433 6990	9.972 3669	28	777	
		205		234			28		
224	9.538 6884		9.566 3244		0.433 6756	9.972 3641	28	776	
225	9.538 7090	206	9.566 3477	233	0.433 6523	9.972 3613	28	775	
226	9.538 7296	206	9.566 3711	234	0.433 6289	9.972 3585	28	774	
		205		234			28		
227	9.538 7501		9.566 3945		0.433 6055	9.972 3557	28	773	
228	9.538 7707	206	9.566 4178	233	0.433 5822	9.972 3529	28	772	
229	9.538 7913	206	9.566 4412	234	0.433 5588	9.972 3501	28	771	
		206		233			28		
.230	9.538 8119		9.566 4645		0.433 5355	9.972 3473		**.770**	
		205		234			28		
231	9.538 8324		9.566 4879		0.433 5121	9.972 3445	28	769	
232	9.538 8530	206	9.566 5113	234	0.433 4887	9.972 3417	28	768	
233	9.538 8736	206	9.566 5346	233	0.433 4654	9.972 3389	28	767	
		205		234			28		
234	9.538 8941		9.566 5580		0.433 4420	9.972 3361	28	766	
235	9.538 9147	206	9.566 5813	233	0.433 4187	9.972 3333	28	765	
236	9.538 9352	205	9.566 6047	234	0.433 3953	9.972 3306	27	764	
		206		234			28		
237	9.538 9558		9.566 6281		0.433 3719	9.972 3278	28	763	
238	9.538 9764	206	9.566 6514	233	0.433 3486	9.972 3250	28	762	
239	9.538 9969	205	9.566 6748	234	0.433 3252	9.972 3222	28	761	
		206		233			28		
.240	9.539 0175		9.566 6981		0.433 3019	9.972 3194		**.760**	
		205		234			28		
241	9.539 0380		9.566 7215		0.433 2785	9.972 3166	28	759	
242	9.539 0586	206	9.566 7448	233	0.433 2552	9.972 3138	28	758	
243	9.539 0792	206	9.566 7682	234	0.433 2318	9.972 3110	28	757	
		205		233			28		
244	9.539 0997		9.566 7915		0.433 2085	9.972 3082	28	756	
245	9.539 1203	206	9.566 8149	234	0.433 1851	9.972 3054	28	755	
246	9.539 1408	205	9.566 8382	233	0.433 1618	9.972 3026	28	754	
		206		234			28		
247	9.539 1614		9.566 8616		0.433 1384	9.972 2998	28	753	
248	9.539 1819	205	9.566 8849	233	0.433 1151	9.972 2970	28	752	
249	9.539 2025	206	9.566 9082	233	0.433 0918	9.972 2942	28	751	
		205		234			28		
.250	9.539 2230		9.566 9316		0.433 0684	9.972 2914		**.750**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	234	233
1	23.4	23.3
2	46.8	46.6
3	70.2	69.9
4	93.6	93.2
5	117.0	116.5
6	140.4	139.8
7	163.8	163.1
8	187.2	186.4
9	210.6	209.7

	206	205
1	20.6	20.5
2	41.2	41.0
3	61.8	61.5
4	82.4	82.0
5	103.0	102.5
6	123.6	123.0
7	144.2	143.5
8	164.8	164.0
9	185.4	184.5

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

$69^\circ.800$ — $69^\circ.750$

$20^\circ.250$ — $20^\circ.300$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.539 2230		9.566 9316		0.433 0684	9.972 2914		**.750**	
		205		233			28		
251	9.539 2435		9.566 9549		0.433 0451	9.972 2886		749	
		206		234			28		
252	9.539 2641		9.566 9783		0.433 0217	9.972 2858		748	
		205		233			28		
253	9.539 2846		9.567 0016		0.432 9984	9.972 2830		747	
		206		233			28		
254	9.539 3052		9.567 0249		0.432 9751	9.972 2802		746	
		205		234			28		
255	9.539 3257		9.567 0483		0.432 9517	9.972 2774		745	
		206		233			28		
256	9.539 3463		9.567 0716		0.432 9284	9.972 2746		744	
		205		234			28		
257	9.539 3668		9.567 0950		0.432 9050	9.972 2718		743	
		205		233			28		
258	9.539 3873		9.567 1183		0.432 8817	9.972 2690		742	
		206		233			28		
259	9.539 4079		9.567 1416		0.432 8584	9.972 2662		741	
		205		234			28		
.260	9.539 4284		9.567 1650		0.432 8350	9.972 2634		**.740**	
		205		233			28		
261	9.539 4489		9.567 1883		0.432 8117	9.972 2606		739	
		206		233			27		
262	9.539 4695		9.567 2116		0.432 7884	9.972 2579		738	
		205		234			28		
263	9.539 4900		9.567 2350		0.432 7650	9.972 2551		737	
		205		233			28		
264	9.539 5105		9.567 2583		0.432 7417	9.972 2523		736	
		206		233			28		
265	9.539 5311		9.567 2816		0.432 7184	9.972 2495		735	
		205		233			28		
266	9.539 5516		9.567 3049		0.432 6951	9.972 2467		734	
		205		234			28		
267	9.539 5721		9.567 3283		0.432 6717	9.972 2439		733	
		206		233			28		
268	9.539 5927		9.567 3516		0.432 6484	9.972 2411		732	
		205		233			28		
269	9.539 6132		9.567 3749		0.432 6251	9.972 2383		731	
		205		233			28		
.270	9.539 6337		9.567 3982		0.432 6018	9.972 2355		**.730**	
		205		234			28		
271	9.539 6542		9.567 4216		0.432 5784	9.972 2327		729	
		206		233			28		
272	9.539 6748		9.567 4449		0.432 5551	9.972 2299		728	
		205		233			28		
273	9.539 6953		9.567 4682		0.432 5318	9.972 2271		727	
		205		233			28		
274	9.539 7158		9.567 4915		0.432 5085	9.972 2243		726	
		205		233			28		
275	9.539 7363		9.567 5148		0.432 4852	9.972 2215		725	
		205		234			28		
276	9.539 7568		9.567 5382		0.432 4618	9.972 2187		724	
		205		233			28		
277	9.539 7773		9.567 5615		0.432 4385	9.972 2159		723	
		206		233			28		
278	9.539 7979		9.567 5848		0.432 4152	9.972 2131		722	
		205		233			28		
279	9.539 8184		9.567 6081		0.432 3919	9.972 2103		721	
		205		233			28		
.280	9.539 8389		9.567 6314		0.432 3686	9.972 2075		**.720**	
		205		233			28		
281	9.539 8594		9.567 6547		0.432 3453	9.972 2047		719	
		205		234			28		
282	9.539 8799		9.567 6781		0.432 3219	9.972 2019		718	
		205		233			28		
283	9.539 9004		9.567 7014		0.432 2986	9.972 1991		717	
		205		233			28		
284	9.539 9209		9.567 7247		0.432 2753	9.972 1963		716	
		205		233			28		
285	9.539 9414		9.567 7480		0.432 2520	9.972 1935		715	
		205		233			28		
286	9.539 9619		9.567 7713		0.432 2287	9.972 1907		714	
		206		233			29		
287	9.539 9825		9.567 7946		0.432 2054	9.972 1878		713	
		205		233			28		
288	9.540 0030		9.567 8179		0.432 1821	9.972 1850		712	
		205		233			28		
289	9.540 0235		9.567 8412		0.432 1588	9.972 1822		711	
		205		233			28		
.290	9.540 0440		9.567 8645		0.432 1355	9.972 1794		**.710**	
		205		233			28		
291	9.540 0645		9.567 8878		0.432 1122	9.972 1766		709	
		205		233			28		
292	9.540 0850		9.567 9111		0.432 0889	9.972 1738		708	
		205		233			28		
293	9.540 1055		9.567 9344		0.432 0656	9.972 1710		707	
		205		233			28		
294	9.540 1260		9.567 9577		0.432 0423	9.972 1682		706	
		205		233			28		
295	9.540 1465		9.567 9810		0.432 0190	9.972 1654		705	
		205		233			28		
296	9.540 1670		9.568 0043		0.431 9957	9.972 1626		704	
		205		233			28		
297	9.540 1875		9.568 0276		0.431 9724	9.972 1598		703	
		204		233			28		
298	9.540 2079		9.568 0509		0.431 9491	9.972 1570		702	
		205		233			28		
299	9.540 2284		9.568 0742		0.431 9258	9.972 1542		701	
		205		233			28		
.300	9.540 2489		9.568 0975		0.431 9025	9.972 1514		**.700**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	234	233
1	23.4	23.3
2	46.8	46.6
3	70.2	69.9
4	93.6	93.2
5	117.0	116.5
6	140.4	139.8
7	163.8	163.1
8	187.2	186.4
9	210.6	209.7

	206	205
1	20.6	20.5
2	41.2	41.0
3	61.8	61.5
4	82.4	82.0
5	103.0	102.5
6	123.6	123.0
7	144.2	143.5
8	164.8	164.0
9	185.4	184.5

	204
1	20.4
2	40.8
3	61.2
4	81.6
5	102.0
6	122.4
7	142.8
8	163.2
9	183.6

	29	28
1	2.9	2.8
2	5.8	5.6
3	8.7	8.4
4	11.6	11.2
5	14.5	14.0
6	17.4	16.8
7	20.3	19.6
8	23.2	22.4
9	26.1	25.2

	27
1	2.7
2	5.4
3	8.1
4	10.8
5	13.5
6	16.2
7	18.9
8	21.6
9	24.3

$69^\circ.750$ — $69^\circ.700$

$20^\circ.300$ — $20^\circ.350$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.540 2489		9.568 0975		0.431 9025	9.972 1514		**.700**	
		205		233			28		
301	9.540 2694		9.568 1208		0.431 8792	9.972 1486		699	
302	9.540 2899	205	9.568 1441	233	0.431 8559	9.972 1458	28	698	
303	9.540 3104	205	9.568 1674	233	0.431 8326	9.972 1430	28	697	
		205		233			28		
304	9.540 3309		9.568 1907		0.431 8093	9.972 1402		696	
305	9.540 3514	205	9.568 2140	233	0.431 7860	9.972 1374	28	695	
306	9.540 3719	205	9.568 2373	233	0.431 7627	9.972 1346	28	694	
		204		233			28		
307	9.540 3923		9.568 2606		0.431 7394	9.972 1318		693	
308	9.540 4128	205	9.568 2838	232	0.431 7162	9.972 1290	28	692	
309	9.540 4333	205	9.568 3071	233	0.431 6929	9.972 1262	28	691	
		205		233			28		
.310	9.540 4538		9.568 3304		0.431 6696	9.972 1234		**.690**	
		205		233			28		
311	9.540 4743		9.568 3537		0.431 6463	9.972 1206		689	
312	9.540 4947	204	9.568 3770	233	0.431 6230	9.972 1178	28	688	
313	9.540 5152	205	9.568 4003	233	0.431 5997	9.972 1149	29	687	
		205		233			28		
314	9.540 5357		9.568 4236		0.431 5764	9.972 1121		686	
315	9.540 5562	205	9.568 4468	232	0.431 5532	9.972 1093	28	685	
316	9.540 5766	204	9.568 4701	233	0.431 5299	9.972 1065	28	684	
		205		233			28		
317	9.540 5971		9.568 4934		0.431 5066	9.972 1037		683	
318	9.540 6176	205	9.568 5167	233	0.431 4833	9.972 1009	28	682	
319	9.540 6381	205	9.568 5400	233	0.431 4600	9.972 0981	28	681	
		204		232			28		
.320	9.540 6585		9.568 5632		0.431 4368	9.972 0953		**.680**	
		205		233			28		
321	9.540 6790		9.568 5865		0.431 4135	9.972 0925		679	
322	9.540 6995	205	9.568 6098	233	0.431 3902	9.972 0897	28	678	
323	9.540 7199	204	9.568 6331	233	0.431 3669	9.972 0869	28	677	
		205		232			28		
324	9.540 7404		9.568 6563		0.431 3437	9.972 0841		676	
325	9.540 7609	205	9.568 6796	233	0.431 3204	9.972 0813	28	675	
326	9.540 7813	204	9.568 7029	233	0.431 2971	9.972 0785	28	674	
		205		232			28		
327	9.540 8018		9.568 7261		0.431 2739	9.972 0757		673	
328	9.540 8222	204	9.568 7494	233	0.431 2506	9.972 0728	29	672	
329	9.540 8427	205	9.568 7727	233	0.431 2273	9.972 0700	28	671	
		205		232			28		
.330	9.540 8632		9.568 7959		0.431 2041	9.972 0672		**.670**	
		204		233			28		
331	9.540 8836		9.568 8192		0.431 1808	9.972 0644		669	
332	9.540 9041	205	9.568 8425	233	0.431 1575	9.972 0616	28	668	
333	9.540 9245	204	9.568 8657	232	0.431 1343	9.972 0588	28	667	
		205		233			28		
334	9.540 9450		9.568 8890		0.431 1110	9.972 0560		666	
335	9.540 9654	204	9.568 9123	233	0.431 0877	9.972 0532	28	665	
336	9.540 9859	205	9.568 9355	232	0.431 0645	9.972 0504	28	664	
		204		233			28		
337	9.541 0063		9.568 9588		0.431 0412	9.972 0476		663	
338	9.541 0268	205	9.568 9820	232	0.431 0180	9.972 0448	28	662	
339	9.541 0472	204	9.569 0053	233	0.430 9947	9.972 0419	29	661	
		205		233			28		
.340	9.541 0677		9.569 0286		0.430 9714	9.972 0391		**.660**	
		204		232			28		
341	9.541 0881		9.569 0518		0.430 9482	9.972 0363		659	
342	9.541 1086	205	9.569 0751	233	0.430 9249	9.972 0335	28	658	
343	9.541 1290	204	9.569 0983	232	0.430 9017	9.972 0307	28	657	
		205		233			28		
344	9.541 1495		9.569 1216		0.430 8784	9.972 0279		656	
345	9.541 1699	204	9.569 1448	232	0.430 8552	9.972 0251	28	655	
346	9.541 1904	205	9.569 1681	233	0.430 8319	9.972 0223	28	654	
		204		232			28		
347	9.541 2108		9.569 1913		0.430 8087	9.972 0195		653	
348	9.541 2312	204	9.569 2146	233	0.430 7854	9.972 0167	28	652	
349	9.541 2517	205	9.569 2378	232	0.430 7622	9.972 0138	29	651	
		204		233			28		
.350	9.541 2721		9.569 2611		0.430 7389	9.972 0110		**.650**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	233	232
1	23.3	23.2
2	46.6	46.4
3	69.9	69.6
4	93.2	92.8
5	116.5	116.0
6	139.8	139.2
7	163.1	162.4
8	186.4	185.6
9	209.7	208.8

	205	204
1	20.5	20.4
2	41.0	40.8
3	61.5	61.2
4	82.0	81.6
5	102.5	102.0
6	123.0	122.4
7	143.5	142.8
8	164.0	163.2
9	184.5	183.6

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

$69^\circ.700$ — $69^\circ.650$

20°.350 — 20°.400

20°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.541 2721		9.569 2611		0.430 7389	9.972 0110		**.650**	
		204		232			28		
351	9.541 2925		9.569 2843		0.430 7157	9.972 0082		649	
352	9.541 3130	205	9.569 3076	233	0.430 6924	9.972 0054	28	648	
353	9.541 3334	204	9.569 3308	232	0.430 6692	9.972 0026	28	647	
		204		233			28		
354	9.541 3538		9.569 3541		0.430 6459	9.971 9998		646	
355	9.541 3743	205	9.569 3773	232	0.430 6227	9.971 9970	28	645	
356	9.541 3947	204	9.569 4006	233	0.430 5994	9.971 9942	28	644	
		204		232			29		
357	9.541 4151		9.569 4238		0.430 5762	9.971 9913		643	
358	9.541 4356	205	9.569 4470	232	0.430 5530	9.971 9885	28	642	
359	9.541 4560	204	9.569 4703	233	0.430 5297	9.971 9857	28	641	
		204		232			28		
.360	9.541 4764		9.569 4935		0.430 5065	9.971 9829		**.640**	
		204		232			28		
361	9.541 4968		9.569 5167		0.430 4833	9.971 9801		639	
362	9.541 5173	205	9.569 5400	233	0.430 4600	9.971 9773	28	638	
363	9.541 5377	204	9.569 5632	232	0.430 4368	9.971 9745	28	637	
		204		233			28		
364	9.541 5581		9.569 5865		0.430 4135	9.971 9717		636	
365	9.541 5785	204	9.569 6097	232	0.430 3903	9.971 9688	29	635	
366	9.541 5990	205	9.569 6329	232	0.430 3671	9.971 9660	28	634	
		204		233			28		
367	9.541 6194		9.569 6562		0.430 3438	9.971 9632		633	
368	9.541 6398	204	9.569 6794	232	0.430 3206	9.971 9604	28	632	
369	9.541 6602	204	9.569 7026	232	0.430 2974	9.971 9576	28	631	
		204		232			28		
.370	9.541 6806		9.569 7258		0.430 2742	9.971 9548		**.630**	
		204		233			28		
371	9.541 7010		9.569 7491		0.430 2509	9.971 9520		629	
372	9.541 7214	204	9.569 7723	232	0.430 2277	9.971 9491	29	628	
373	9.541 7419	205	9.569 7955	232	0.430 2045	9.971 9463	28	627	
		204		233			28		
374	9.541 7623		9.569 8188		0.430 1812	9.971 9435		626	
375	9.541 7827	204	9.569 8420	232	0.430 1580	9.971 9407	28	625	
376	9.541 8031	204	9.569 8652	232	0.430 1348	9.971 9379	28	624	
		204		232			28		
377	9.541 8235		9.569 8884		0.430 1116	9.971 9351		623	
378	9.541 8439	204	9.569 9116	232	0.430 0884	9.971 9323	28	622	
379	9.541 8643	204	9.569 9349	233	0.430 0651	9.971 9294	29	621	
		204		232			28		
.380	9.541 8847		9.569 9581		0.430 0419	9.971 9266		**.620**	
		204		232			28		
381	9.541 9051		9.569 9813		0.430 0187	9.971 9238		619	
382	9.541 9255	204	9.570 0045	232	0.429 9955	9.971 9210	28	618	
383	9.541 9459	204	9.570 0277	232	0.429 9723	9.971 9182	28	617	
		204		233			28		
384	9.541 9663		9.570 0510		0.429 9490	9.971 9154		616	
385	9.541 9867	204	9.570 0742	232	0.429 9258	9.971 9125	29	615	
386	9.542 0071	204	9.570 0974	232	0.429 9026	9.971 9097	28	614	
		204		232			28		
387	9.542 0275		9.570 1206		0.429 8794	9.971 9069		613	
388	9.542 0479	204	9.570 1438	232	0.429 8562	9.971 9041	28	612	
389	9.542 0683	204	9.570 1670	232	0.429 8330	9.971 9013	28	611	
		204		232			28		
.390	9.542 0887		9.570 1902		0.429 8098	9.971 8985		**.610**	
		204		232			29		
391	9.542 1091		9.570 2134		0.429 7866	9.971 8956		609	
392	9.542 1295	204	9.570 2367	233	0.429 7633	9.971 8928	28	608	
393	9.542 1499	204	9.570 2599	232	0.429 7401	9.971 8900	28	607	
		203		232			28		
394	9.542 1702		9.570 2831		0.429 7169	9.971 8872		606	
395	9.542 1906	204	9.570 3063	232	0.429 6937	9.971 8844	28	605	
396	9.542 2110	204	9.570 3295	232	0.429 6705	9.971 8815	29	604	
		204		232			28		
397	9.542 2314		9.570 3527		0.429 6473	9.971 8787		603	
398	9.542 2518	204	9.570 3759	232	0.429 6241	9.971 8759	28	602	
399	9.542 2722	204	9.570 3991	232	0.429 6009	9.971 8731	28	601	
		204		232			28		
.400	9.542 2926		9.570 4223		0.429 5777	9.971 8703		**.600**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	233	232
1	23.3	23.2
2	46.6	46.4
3	69.9	69.6
4	93.2	92.8
5	116.5	116.0
6	139.8	139.2
7	163.1	162.4
8	186.4	185.6
9	209.7	208.8

	205	204
1	20.5	20.4
2	41.0	40.8
3	61.5	61.2
4	82.0	81.6
5	102.5	102.0
6	123.0	122.4
7	143.5	142.8
8	164.0	163.2
9	184.5	183.6

	203
1	20.3
2	40.6
3	60.9
4	81.2
5	101.5
6	121.8
7	142.1
8	162.4
9	182.7

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

69°.650 — 69°.600

$20^\circ.400 - 20^\circ.450$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.542 2926		9.570 4223		0.429 5777	9.971 8703		**.600**	
		203		232			28		
401	9.542 3129		9.570 4455		0.429 5545	9.971 8675		599	
402	9.542 3333	204	9.570 4687	232	0.429 5313	9.971 8646	29	598	
403	9.542 3537	204	9.570 4919	232	0.429 5081	9.971 8618	28	597	
		204		232			28		
404	9.542 3741		9.570 5151		0.429 4849	9.971 8590		596	
405	9.542 3945	204	9.570 5383	232	0.429 4617	9.971 8562	28	595	
406	9.542 4148	203	9.570 5615	232	0.429 4385	9.971 8534	28	594	
		204		232			29		
407	9.542 4352		9.570 5847		0.429 4153	9.971 8505		593	
408	9.542 4556	204	9.570 6079	232	0.429 3921	9.971 8477	28	592	
409	9.542 4759	203	9.570 6311	232	0.429 3689	9.971 8449	28	591	
		204		231			28		
.410	9.542 4963		9.570 6542		0.429 3458	9.971 8421		**.590**	
		204		232			28		
411	9.542 5167		9.570 6774		0.429 3226	9.971 8393		589	
412	9.542 5371	204	9.570 7006	232	0.429 2994	9.971 8364	29	588	
413	9.542 5574	203	9.570 7238	232	0.429 2762	9.971 8336	28	587	
		204		232			28		
414	9.542 5778		9.570 7470		0.429 2530	9.971 8308		586	
415	9.542 5982	204	9.570 7702	232	0.429 2298	9.971 8280	28	585	
416	9.542 6185	203	9.570 7934	232	0.429 2066	9.971 8251	29	584	
		204		232			28		
417	9.542 6389		9.570 8166		0.429 1834	9.971 8223		583	
418	9.542 6593	204	9.570 8397	231	0.429 1603	9.971 8195	28	582	
419	9.542 6796	203	9.570 8629	232	0.429 1371	9.971 8167	28	581	
		204		232			28		
.420	9.542 7000		9.570 8861		0.429 1139	9.971 8139		**.580**	
		203		232			29		
421	9.542 7203		9.570 9093		0.429 0907	9.971 8110		579	
422	9.542 7407	204	9.570 9325	232	0.429 0675	9.971 8082	28	578	
423	9.542 7610	203	9.570 9557	232	0.429 0443	9.971 8054	28	577	
		204		231			28		
424	9.542 7814		9.570 9788		0.429 0212	9.971 8026		576	
425	9.542 8018	204	9.571 0020	232	0.428 9980	9.971 7998	28	575	
426	9.542 8221	203	9.571 0252	232	0.428 9748	9.971 7969	29	574	
		204		232			28		
427	9.542 8425		9.571 0484		0.428 9516	9.971 7941		573	
428	9.542 8628	203	9.571 0715	231	0.428 9285	9.971 7913	28	572	
429	9.542 8832	204	9.571 0947	232	0.428 9053	9.971 7885	28	571	
		203		232			29		
.430	9.542 9035		9.571 1179		0.428 8821	9.971 7856		**.570**	
		204		232			28		
431	9.542 9239		9.571 1411		0.428 8589	9.971 7828		569	
432	9.542 9442	203	9.571 1642	231	0.428 8358	9.971 7800	28	568	
433	9.542 9646	204	9.571 1874	232	0.428 8126	9.971 7772	28	567	
		203		232			29		
434	9.542 9849		9.571 2106		0.428 7894	9.971 7743		566	
435	9.543 0052	203	9.571 2337	231	0.428 7663	9.971 7715	28	565	
436	9.543 0256	204	9.571 2569	232	0.428 7431	9.971 7687	28	564	
		203		232			28		
437	9.543 0459		9.571 2801		0.428 7199	9.971 7659		563	
438	9.543 0663	204	9.571 3032	231	0.428 6968	9.971 7630	29	562	
439	9.543 0866	203	9.571 3264	232	0.428 6736	9.971 7602	28	561	
		204		232			28		
.440	9.543 1070		9.571 3496		0.428 6504	9.971 7574		**.560**	
		203		231			28		
441	9.543 1273		9.571 3727		0.428 6273	9.971 7546		559	
442	9.543 1476	203	9.571 3959	232	0.428 6041	9.971 7517	29	558	
443	9.543 1680	204	9.571 4190	231	0.428 5810	9.971 7489	28	557	
		203		232			28		
444	9.543 1883		9.571 4422		0.428 5578	9.971 7461		556	
445	9.543 2086	203	9.571 4654	232	0.428 5346	9.971 7433	28	555	
446	9.543 2290	204	9.571 4885	231	0.428 5115	9.971 7404	29	554	
		203		232			28		
447	9.543 2493		9.571 5117		0.428 4883	9.971 7376		553	
448	9.543 2696	203	9.571 5348	231	0.428 4652	9.971 7348	28	552	
449	9.543 2900	204	9.571 5580	232	0.428 4420	9.971 7320	28	551	
		203		231			29		
.450	9.543 3103		9.571 5811		0.428 4189	9.971 7291		**.550**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	232	231
1	23.2	23.1
2	46.4	46.2
3	69.6	69.3
4	92.8	92.4
5	116.0	115.5
6	139.2	138.6
7	162.4	161.7
8	185.6	184.8
9	208.8	207.9

	204	203
1	20.4	20.3
2	40.8	40.6
3	61.2	60.9
4	81.6	81.2
5	102.0	101.5
6	122.4	121.8
7	142.8	142.1
8	163.2	162.4
9	183.6	182.7

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

$69^\circ.600 - 69^\circ.550$

$20^\circ.450 - 20^\circ.500$

20°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9·543 3103		9·571 5811		0·428 4189	9·971 7291		·550	
		203		232			28		
451	9·543 3306		9·571 6043		0·428 3957	9·971 7263		549	
452	9·543 3509	203	9·571 6274	231	0·428 3726	9·971 7235	28	548	
453	9·543 3713	204	9·571 6506	232	0·428 3494	9·971 7207	28	547	
		203		232			29		
454	9·543 3916		9·571 6738		0·428 3262	9·971 7178		546	
455	9·543 4119	203	9·571 6969	231	0·428 3031	9·971 7150	28	545	
456	9·543 4322	203	9·571 7200	231	0·428 2800	9·971 7122	28	544	
		203		232			29		
457	9·543 4525		9·571 7432		0·428 2568	9·971 7093		543	
458	9·543 4729	204	9·571 7663	231	0·428 2337	9·971 7065	28	542	
459	9·543 4932	203	9·571 7895	232	0·428 2105	9·971 7037	28	541	
		203		231			28		
·460	9·543 5135		9·571 8126		0·428 1874	9·971 7009		·540	
		203		232			29		
461	9·543 5338		9·571 8358		0·428 1642	9·971 6980		539	
462	9·543 5541	203	9·571 8589	231	0·428 1411	9·971 6952	28	538	
463	9·543 5744	203	9·571 8821	232	0·428 1179	9·971 6924	28	537	
		204		231			28		
464	9·543 5948		9·571 9052		0·428 0948	9·971 6896		536	
465	9·543 6151	203	9·571 9283	231	0·428 0717	9·971 6867	29	535	
466	9·543 6354	203	9·571 9515	232	0·428 0485	9·971 6839	28	534	
		203		231			28		
467	9·543 6557		9·571 9746		0·428 0254	9·971 6811		533	
468	9·543 6760	203	9·571 9978	232	0·428 0022	9·971 6782	29	532	
469	9·543 6963	203	9·572 0209	231	0·427 9791	9·971 6754	28	531	
		203		231			28		
·470	9·543 7166		9·572 0440		0·427 9560	9·971 6726		·530	
		203		232			29		
471	9·543 7369		9·572 0672		0·427 9328	9·971 6697		529	
472	9·543 7572	203	9·572 0903	231	0·427 9097	9·971 6669	28	528	
473	9·543 7775	203	9·572 1134	231	0·427 8866	9·971 6641	28	527	
		203		232			28		
474	9·543 7978		9·572 1366		0·427 8634	9·971 6613		526	
475	9·543 8181	203	9·572 1597	231	0·427 8403	9·971 6584	29	525	
476	9·543 8384	203	9·572 1828	231	0·427 8172	9·971 6556	28	524	
		203		232			28		
477	9·543 8587		9·572 2060		0·427 7940	9·971 6528		523	
478	9·543 8790	203	9·572 2291	231	0·427 7709	9·971 6499	29	522	
479	9·543 8993	203	9·572 2522	231	0·427 7478	9·971 6471	28	521	
		203		231			28		
·480	9·543 9196		9·572 2753		0·427 7247	9·971 6443		·520	
		203		232			29		
481	9·543 9399		9·572 2985		0·427 7015	9·971 6414		519	
482	9·543 9602	203	9·572 3216	231	0·427 6784	9·971 6386	28	518	
483	9·543 9805	203	9·572 3447	231	0·427 6553	9·971 6358	28	517	
		203		231			28		
484	9·544 0008		9·572 3678		0·427 6322	9·971 6330		516	
485	9·544 0211	203	9·572 3910	232	0·427 6090	9·971 6301	29	515	
486	9·544 0414	203	9·572 4141	231	0·427 5859	9·971 6273	28	514	
		203		231			28		
487	9·544 0617		9·572 4372		0·427 5628	9·971 6245		513	
488	9·544 0819	202	9·572 4603	231	0·427 5397	9·971 6216	29	512	
489	9·544 1022	203	9·572 4834	231	0·427 5166	9·971 6188	28	511	
		203		232			28		
·490	9·544 1225		9·572 5066		0·427 4934	9·971 6160		·510	
		203		231			29		
491	9·544 1428		9·572 5297		0·427 4703	9·971 6131		509	
492	9·544 1631	203	9·572 5528	231	0·427 4472	9·971 6103	28	508	
493	9·544 1834	203	9·572 5759	231	0·427 4241	9·971 6075	28	507	
		202		231			29		
494	9·544 2036		9·572 5990		0·427 4010	9·971 6046		506	
495	9·544 2239	203	9·572 6221	231	0·427 3779	9·971 6018	28	505	
496	9·544 2442	203	9·572 6452	231	0·427 3548	9·971 5990	28	504	
		203		231			29		
497	9·544 2645		9·572 6683		0·427 3317	9·971 5961		503	
498	9·544 2847	202	9·572 6915	232	0·427 3085	9·971 5933	28	502	
499	9·544 3050	203	9·572 7146	231	0·427 2854	9·971 5905	28	501	
		203		231			29		
·500	9·544 3253		9·572 7377		0·427 2623	9·971 5876		·500	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	232	231
1	23.2	23.1
2	46.4	46.2
3	69.6	69.3
4	92.8	92.4
5	116.0	115.5
6	139.2	138.6
7	162.4	161.7
8	185.6	184.8
9	208.8	207.9

	204	203
1	20.4	20.3
2	40.8	40.6
3	61.2	60.9
4	81.6	81.2
5	102.0	101.5
6	122.4	121.8
7	142.8	142.1
8	163.2	162.4
9	183.6	182.7

	202
1	20.2
2	40.4
3	60.6
4	80.8
5	101.0
6	121.2
7	141.4
8	161.6
9	181.8

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

$69^\circ.550 - 69^\circ.500$

$20^\circ.500$ — $20^\circ.550$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.544 3253		9.572 7377		0.427 2623	9.971 5876		**.500**	
		203		231			28		
501	9.544 3456		9.572 7608		0.427 2392	9.971 5848		499	
502	9.544 3658	202	9.572 7839	231	0.427 2161	9.971 5820	28	498	
503	9.544 3861	203	9.572 8070	231	0.427 1930	9.971 5791	29	497	
		203		231			28		
504	9.544 4064		9.572 8301		0.427 1699	9.971 5763		496	
505	9.544 4266	202	9.572 8532	231	0.427 1468	9.971 5735	28	495	
506	9.544 4469	203	9.572 8763	231	0.427 1237	9.971 5706	29	494	
		203		231			28		
507	9.544 4672		9.572 8994		0.427 1006	9.971 5678		493	
508	9.544 4874	202	9.572 9225	231	0.427 0775	9.971 5649	29	492	
509	9.544 5077	203	9.572 9456	231	0.427 0544	9.971 5621	28	491	
		203		231			28		
.510	9.544 5280		9.572 9687		0.427 0313	9.971 5593		**.490**	
		202		231			29		
511	9.544 5482		9.572 9918		0.427 0082	9.971 5564		489	
512	9.544 5685	203	9.573 0149	231	0.426 9851	9.971 5536	28	488	
513	9.544 5888	203	9.573 0380	231	0.426 9620	9.971 5508	28	487	
		202		231			29		
514	9.544 6090		9.573 0611		0.426 9389	9.971 5479		486	
515	9.544 6293	203	9.573 0842	231	0.426 9158	9.971 5451	28	485	
516	9.544 6495	202	9.573 1073	231	0.426 8927	9.971 5423	28	484	
		203		231			29		
517	9.544 6698		9.573 1304		0.426 8696	9.971 5394		483	
518	9.544 6900	202	9.573 1535	231	0.426 8465	9.971 5366	28	482	
519	9.544 7103	203	9.573 1765	230	0.426 8235	9.971 5338	28	481	
		202		231			29		
.520	9.544 7305		9.573 1996		0.426 8004	9.971 5309		**.480**	
		203		231			28		
521	9.544 7508		9.573 2227		0.426 7773	9.971 5281		479	
522	9.544 7710	202	9.573 2458	231	0.426 7542	9.971 5252	29	478	
523	9.544 7913	203	9.573 2689	231	0.426 7311	9.971 5224	28	477	
		202		231			28		
524	9.544 8115		9.573 2920		0.426 7080	9.971 5196		476	
525	9.544 8318	203	9.573 3151	231	0.426 6849	9.971 5167	29	475	
526	9.544 8520	202	9.573 3381	230	0.426 6619	9.971 5139	28	474	
		203		231			28		
527	9.544 8723		9.573 3612		0.426 6388	9.971 5111		473	
528	9.544 8925	202	9.573 3843	231	0.426 6157	9.971 5082	29	472	
529	9.544 9128	203	9.573 4074	231	0.426 5926	9.971 5054	28	471	
		202		231			29		
.530	9.544 9330		9.573 4305		0.426 5695	9.971 5025		**.470**	
		202		230			28		
531	9.544 9532		9.573 4535		0.426 5465	9.971 4997		469	
532	9.544 9735	203	9.573 4766	231	0.426 5234	9.971 4969	28	468	
533	9.544 9937	202	9.573 4997	231	0.426 5003	9.971 4940	29	467	
		203		231			28		
534	9.545 0140		9.573 5228		0.426 4772	9.971 4912		466	
535	9.545 0342	202	9.573 5459	231	0.426 4541	9.971 4883	29	465	
536	9.545 0544	202	9.573 5689	230	0.426 4311	9.971 4855	28	464	
		203		231			28		
537	9.545 0747		9.573 5920		0.426 4080	9.971 4827		463	
538	9.545 0949	202	9.573 6151	231	0.426 3849	9.971 4798	29	462	
539	9.545 1151	202	9.573 6381	230	0.426 3619	9.971 4770	28	461	
		203		231			29		
.540	9.545 1354		9.573 6612		0.426 3388	9.971 4741		**.460**	
		202		231			28		
541	9.545 1556		9.573 6843		0.426 3157	9.971 4713		459	
542	9.545 1758	202	9.573 7074	231	0.426 2926	9.971 4685	28	458	
543	9.545 1961	203	9.573 7304	230	0.426 2696	9.971 4656	29	457	
		202		231			28		
544	9.545 2163		9.573 7535		0.426 2465	9.971 4628		456	
545	9.545 2365	202	9.573 7766	231	0.426 2234	9.971 4599	29	455	
546	9.545 2567	202	9.573 7996	230	0.426 2004	9.971 4571	28	454	
		202		231			28		
547	9.545 2769		9.573 8227		0.426 1773	9.971 4543		453	
548	9.545 2972	203	9.573 8458	231	0.426 1542	9.971 4514	29	452	
549	9.545 3174	202	9.573 8688	230	0.426 1312	9.971 4486	28	451	
		202		231			29		
.550	9.545 3376		9.573 8919		0.426 1081	9.971 4457		**.450**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	231	230
1	23.1	23.0
2	46.2	46.0
3	69.3	69.0
4	92.4	92.0
5	115.5	115.0
6	138.6	138.0
7	161.7	161.0
8	184.8	184.0
9	207.9	207.0

	203	202
1	20.3	20.2
2	40.6	40.4
3	60.9	60.6
4	81.2	80.8
5	101.5	101.0
6	121.8	121.2
7	142.1	141.4
8	162.4	161.6
9	182.7	181.8

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

$69^\circ.500$ — $69^\circ.450$

20°.550 — 20°.600

20°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.545 3376	202	9.573 8919	230	0.426 1081	9.971 4457	28	.450	
551	9.545 3578	202	9.573 9149	231	0.426 0851	9.971 4429	28	449	
552	9.545 3780	203	9.573 9380	231	0.426 0620	9.971 4401	29	448	
553	9.545 3983	202	9.573 9611	230	0.426 0389	9.971 4372	28	447	
554	9.545 4185	202	9.573 9841	231	0.426 0159	9.971 4344	29	446	
555	9.545 4387	202	9.574 0072	230	0.425 9928	9.971 4315	28	445	
556	9.545 4589	202	9.574 0302	231	0.425 9698	9.971 4287	29	444	
557	9.545 4791	202	9.574 0533	230	0.425 9467	9.971 4258	28	443	
558	9.545 4993	202	9.574 0763	231	0.425 9237	9.971 4230	28	442	
559	9.545 5195	203	9.574 0994	230	0.425 9006	9.971 4202	29	441	
.560	9.545 5398	202	9.574 1224	231	0.425 8776	9.971 4173	28	.440	
561	9.545 5600	202	9.574 1455	230	0.425 8545	9.971 4145	29	439	
562	9.545 5802	202	9.574 1685	231	0.425 8315	9.971 4116	28	438	
563	9.545 6004	202	9.574 1916	230	0.425 8084	9.971 4088	29	437	
564	9.545 6206	202	9.574 2146	231	0.425 7854	9.971 4059	28	436	
565	9.545 6408	202	9.574 2377	230	0.425 7623	9.971 4031	28	435	
566	9.545 6610	202	9.574 2607	231	0.425 7393	9.971 4003	29	434	
567	9.545 6812	202	9.574 2838	230	0.425 7162	9.971 3974	28	433	
568	9.545 7014	202	9.574 3068	231	0.425 6932	9.971 3946	29	432	
569	9.545 7216	202	9.574 3299	230	0.425 6701	9.971 3917	28	431	
.570	9.545 7418	202	9.574 3529	231	0.425 6471	9.971 3889	29	.430	
571	9.545 7620	202	9.574 3760	230	0.425 6240	9.971 3860	28	429	
572	9.545 7822	202	9.574 3990	230	0.425 6010	9.971 3832	29	428	
573	9.545 8024	202	9.574 4220	231	0.425 5780	9.971 3803	28	427	
574	9.545 8226	202	9.574 4451	230	0.425 5549	9.971 3775	28	426	
575	9.545 8428	202	9.574 4681	231	0.425 5319	9.971 3747	29	425	
576	9.545 8630	201	9.574 4912	230	0.425 5088	9.971 3718	28	424	
577	9.545 8831	202	9.574 5142	230	0.425 4858	9.971 3690	29	423	
578	9.545 9033	202	9.574 5372	231	0.425 4628	9.971 3661	28	422	
579	9.545 9235	202	9.574 5603	230	0.425 4397	9.971 3633	29	421	
.580	9.545 9437	202	9.574 5833	230	0.425 4167	9.971 3604	28	.420	
581	9.545 9639	202	9.574 6063	231	0.425 3937	9.971 3576	29	419	
582	9.545 9841	202	9.574 6294	230	0.425 3706	9.971 3547	28	418	
583	9.546 0043	202	9.574 6524	230	0.425 3476	9.971 3519	29	417	
584	9.546 0245	201	9.574 6754	230	0.425 3246	9.971 3490	28	416	
585	9.546 0446	202	9.574 6984	231	0.425 3016	9.971 3462	29	415	
586	9.546 0648	202	9.574 7215	230	0.425 2785	9.971 3433	28	414	
587	9.546 0850	202	9.574 7445	230	0.425 2555	9.971 3405	29	413	
588	9.546 1052	202	9.574 7675	231	0.425 2325	9.971 3376	28	412	
589	9.546 1254	201	9.574 7906	230	0.425 2094	9.971 3348	28	411	
.590	9.546 1455	202	9.574 8136	230	0.425 1864	9.971 3320	29	.410	
591	9.546 1657	202	9.574 8366	230	0.425 1634	9.971 3291	28	409	
592	9.546 1859	202	9.574 8596	230	0.425 1404	9.971 3263	29	408	
593	9.546 2061	201	9.574 8826	231	0.425 1174	9.971 3234	28	407	
594	9.546 2262	202	9.574 9057	230	0.425 0943	9.971 3206	29	406	
595	9.546 2464	202	9.574 9287	230	0.425 0713	9.971 3177	28	405	
596	9.546 2666	201	9.574 9517	230	0.425 0483	9.971 3149	29	404	
597	9.546 2867	202	9.574 9747	230	0.425 0253	9.971 3120	28	403	
598	9.546 3069	202	9.574 9977	231	0.425 0023	9.971 3092	29	402	
599	9.546 3271	201	9.575 0208	230	0.424 9792	9.971 3063	28	401	
.600	9.546 3472		9.575 0438		0.424 9562	9.971 3035		.400	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	231	230
1	23.1	23.0
2	46.2	46.0
3	69.3	69.0
4	92.4	92.0
5	115.5	115.0
6	138.6	138.0
7	161.7	161.0
8	184.8	184.0
9	207.9	207.0

	203	202
1	20.3	20.2
2	40.6	40.4
3	60.9	60.6
4	81.2	80.8
5	101.5	101.0
6	121.8	121.2
7	142.1	141.4
8	162.4	161.6
9	182.7	181.8

	201
1	20.1
2	40.2
3	60.3
4	80.4
5	100.5
6	120.6
7	140.7
8	160.8
9	180.9

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

69°.450 — 69°.400

20°.600 — 20°.650

20°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.546 3472		9.575 0438		0.424 9562	9.971 3035		.400	
		202		230			29		
601	9.546 3674		9.575 0668		0.424 9332	9.971 3006		399	
602	9.546 3876	202	9.575 0898	230	0.424 9102	9.971 2978	28	398	
603	9.546 4077	201	9.575 1128	230	0.424 8872	9.971 2949	29	397	
		202		230			28		
604	9.546 4279		9.575 1358		0.424 8642	9.971 2921		396	
605	9.546 4481	202	9.575 1588	230	0.424 8412	9.971 2892	29	395	
606	9.546 4682	201	9.575 1818	230	0.424 8182	9.971 2864	28	394	
		202		231			29		
607	9.546 4884		9.575 2049		0.424 7951	9.971 2835		393	
608	9.546 5085	201	9.575 2279	230	0.424 7721	9.971 2807	28	392	
609	9.546 5287	202	9.575 2509	230	0.424 7491	9.971 2778	29	391	
		202		230			28		
.610	9.546 5489		9.575 2739		0.424 7261	9.971 2750		.390	
		201		230			29		
611	9.546 5690		9.575 2969		0.424 7031	9.971 2721		389	
612	9.546 5892	202	9.575 3199	230	0.424 6801	9.971 2693	28	388	
613	9.546 6093	201	9.575 3429	230	0.424 6571	9.971 2664	29	387	
		202		230			28		
614	9.546 6295		9.575 3659		0.424 6341	9.971 2636		386	
615	9.546 6496	201	9.575 3889	230	0.424 6111	9.971 2607	29	385	
616	9.546 6698	202	9.575 4119	230	0.424 5881	9.971 2579	28	384	
		201		230			29		
617	9.546 6899		9.575 4349		0.424 5651	9.971 2550		383	
618	9.546 7101	202	9.575 4579	230	0.424 5421	9.971 2522	28	382	
619	9.546 7302	201	9.575 4809	230	0.424 5191	9.971 2493	29	381	
		202		230			28		
.620	9.546 7504		9.575 5039		0.424 4961	9.971 2465		.380	
		201		230			29		
621	9.546 7705		9.575 5269		0.424 4731	9.971 2436		379	
622	9.546 7906	201	9.575 5499	230	0.424 4501	9.971 2408	28	378	
623	9.546 8108	202	9.575 5729	230	0.424 4271	9.971 2379	29	377	
		201		230			28		
624	9.546 8309		9.575 5959		0.424 4041	9.971 2351		376	
625	9.546 8511	202	9.575 6189	230	0.424 3811	9.971 2322	29	375	
626	9.546 8712	201	9.575 6419	230	0.424 3581	9.971 2293	29	374	
		201		229			28		
627	9.546 8913		9.575 6648		0.424 3352	9.971 2265		373	
628	9.546 9115	202	9.575 6878	230	0.424 3122	9.971 2236	29	372	
629	9.546 9316	201	9.575 7108	230	0.424 2892	9.971 2208	28	371	
		201		230			29		
.630	9.546 9517		9.575 7338		0.424 2662	9.971 2179		.370	
		202		230			28		
631	9.546 9719		9.575 7568		0.424 2432	9.971 2151		369	
632	9.546 9920	201	9.575 7798	230	0.424 2202	9.971 2122	29	368	
633	9.547 0121	201	9.575 8028	230	0.424 1972	9.971 2094	28	367	
		202		230			29		
634	9.547 0323		9.575 8258		0.424 1742	9.971 2065		366	
635	9.547 0524	201	9.575 8487	229	0.424 1513	9.971 2037	28	365	
636	9.547 0725	201	9.575 8717	230	0.424 1283	9.971 2008	29	364	
		202		230			28		
637	9.547 0927		9.575 8947		0.424 1053	9.971 1980		363	
638	9.547 1128	201	9.575 9177	230	0.424 0823	9.971 1951	29	362	
639	9.547 1329	201	9.575 9407	230	0.424 0593	9.971 1922	29	361	
		201		229			28		
.640	9.547 1530		9.575 9636		0.424 0364	9.971 1894		.360	
		202		230			29		
641	9.547 1732		9.575 9866		0.424 0134	9.971 1865		359	
642	9.547 1933	201	9.576 0096	230	0.423 9904	9.971 1837	28	358	
643	9.547 2134	201	9.576 0326	230	0.423 9674	9.971 1808	29	357	
		201		229			28		
644	9.547 2335		9.576 0555		0.423 9445	9.971 1780		356	
645	9.547 2536	201	9.576 0785	230	0.423 9215	9.971 1751	29	355	
646	9.547 2737	201	9.576 1015	230	0.423 8985	9.971 1723	28	354	
		202		230			29		
647	9.547 2939		9.576 1245		0.423 8755	9.971 1694		353	
648	9.547 3140	201	9.576 1474	229	0.423 8526	9.971 1665	29	352	
649	9.547 3341	201	9.576 1704	230	0.423 8296	9.971 1637	28	351	
		201		230			29		
.650	9.547 3542		9.576 1934		0.423 8066	9.971 1608		.350	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	231	230
1	23.1	23.0
2	46.2	46.0
3	69.3	69.0
4	92.4	92.0
5	115.5	115.0
6	138.6	138.0
7	161.7	161.0
8	184.8	184.0
9	207.9	207.0

	229
1	22.9
2	45.8
3	68.7
4	91.6
5	114.5
6	137.4
7	160.3
8	183.2
9	206.1

	202	201
1	20.2	20.1
2	40.4	40.2
3	60.6	60.3
4	80.8	80.4
5	101.0	100.5
6	121.2	120.6
7	141.4	140.7
8	161.6	160.8
9	181.8	180.9

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

69°.400 — 69°.350

$20^\circ.650 - 20^\circ.700$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.547 3542		9.576 1934		0.423 8066	9.971 1608		**.350**	
		201		229			28		
651	9.547 3743		9.576 2163		0.423 7837	9.971 1580		349	
652	9.547 3944	201	9.576 2393	230	0.423 7607	9.971 1551	29	348	
653	9.547 4145	201	9.576 2623	230	0.423 7377	9.971 1523	28	347	
		202		229			29		
654	9.547 4347		9.576 2852		0.423 7148	9.971 1494		346	
655	9.547 4548	201	9.576 3082	230	0.423 6918	9.971 1465	29	345	
656	9.547 4749	201	9.576 3312	230	0.423 6688	9.971 1437	28	344	
		201		229			29		
657	9.547 4950		9.576 3541		0.423 6459	9.971 1408		343	
658	9.547 5151	201	9.576 3771	230	0.423 6229	9.971 1380	28	342	
659	9.547 5352	201	9.576 4001	230	0.423 5999	9.971 1351	29	341	
		201		229			28		
.660	9.547 5553		9.576 4230		0.423 5770	9.971 1323		**.340**	
		201		230			29		
661	9.547 5754		9.576 4460		0.423 5540	9.971 1294		339	
662	9.547 5955	201	9.576 4689	229	0.423 5311	9.971 1265	29	338	
663	9.547 6156	201	9.576 4919	230	0.423 5081	9.971 1237	28	337	
		201		230			29		
664	9.547 6357		9.576 5149		0.423 4851	9.971 1208		336	
665	9.547 6558	201	9.576 5378	229	0.423 4622	9.971 1180	28	335	
666	9.547 6759	201	9.576 5608	230	0.423 4392	9.971 1151	29	334	
		201		229			29		
667	9.547 6960		9.576 5837		0.423 4163	9.971 1122		333	
668	9.547 7161	201	9.576 6067	230	0.423 3933	9.971 1094	28	332	
669	9.547 7362	201	9.576 6296	229	0.423 3704	9.971 1065	29	331	
		200		230			28		
.670	9.547 7562		9.576 6526		0.423 3474	9.971 1037		**.330**	
		201		229			29		
671	9.547 7763		9.576 6755		0.423 3245	9.971 1008		329	
672	9.547 7964	201	9.576 6985	230	0.423 3015	9.971 0979	29	328	
673	9.547 8165	201	9.576 7214	229	0.423 2786	9.971 0951	28	327	
		201		230			29		
674	9.547 8366		9.576 7444		0.423 2556	9.971 0922		326	
675	9.547 8567	201	9.576 7673	229	0.423 2327	9.971 0894	28	325	
676	9.547 8768	201	9.576 7903	230	0.423 2097	9.971 0865	29	324	
		201		229			29		
677	9.547 8969		9.576 8132		0.423 1868	9.971 0836		323	
678	9.547 9169	200	9.576 8362	230	0.423 1638	9.971 0808	28	322	
679	9.547 9370	201	9.576 8591	229	0.423 1409	9.971 0779	29	321	
		201		229			28		
.680	9.547 9571		9.576 8820		0.423 1180	9.971 0751		**.320**	
		201		230			29		
681	9.547 9772		9.576 9050		0.423 0950	9.971 0722		319	
682	9.547 9973	201	9.576 9279	229	0.423 0721	9.971 0693	29	318	
683	9.548 0173	200	9.576 9509	230	0.423 0491	9.971 0665	28	317	
		201		229			29		
684	9.548 0374		9.576 9738		0.423 0262	9.971 0636		316	
685	9.548 0575	201	9.576 9967	229	0.423 0033	9.971 0608	28	315	
686	9.548 0776	201	9.577 0197	230	0.422 9803	9.971 0579	29	314	
		200		229			29		
687	9.548 0976		9.577 0426		0.422 9574	9.971 0550		313	
688	9.548 1177	201	9.577 0656	230	0.422 9344	9.971 0522	28	312	
689	9.548 1378	201	9.577 0885	229	0.422 9115	9.971 0493	29	311	
		201		229			29		
.690	9.548 1579		9.577 1114		0.422 8886	9.971 0464		**.310**	
		200		230			28		
691	9.548 1779		9.577 1344		0.422 8656	9.971 0436		309	
692	9.548 1980	201	9.577 1573	229	0.422 8427	9.971 0407	29	308	
693	9.548 2181	201	9.577 1802	229	0.422 8198	9.971 0379	28	307	
		200		229			29		
694	9.548 2381		9.577 2031		0.422 7969	9.971 0350		306	
695	9.548 2582	201	9.577 2261	230	0.422 7739	9.971 0321	29	305	
696	9.548 2783	201	9.577 2490	229	0.422 7510	9.971 0293	28	304	
		200		229			29		
697	9.548 2983		9.577 2719		0.422 7281	9.971 0264		303	
698	9.548 3184	201	9.577 2949	230	0.422 7051	9.971 0235	29	302	
699	9.548 3385	201	9.577 3178	229	0.422 6822	9.971 0207	28	301	
		200		229			29		
.700	9.548 3585		9.577 3407		0.422 6593	9.971 0178		**.300**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	230	229
1	23.0	22.9
2	46.0	45.8
3	69.0	68.7
4	92.0	91.6
5	115.0	114.5
6	138.0	137.4
7	161.0	160.3
8	184.0	183.2
9	207.0	206.1

	202	201
1	20.2	20.1
2	40.4	40.2
3	60.6	60.3
4	80.8	80.4
5	101.0	100.5
6	121.2	120.6
7	141.4	140.7
8	161.6	160.8
9	181.8	180.9

	200
1	20.0
2	40.0
3	60.0
4	80.0
5	100.0
6	120.0
7	140.0
8	160.0
9	180.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

$69^\circ.350 - 69^\circ.300$

$20^\circ.700$ — $20^\circ.750$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.548 3585		9.577 3407		0.422 6593	9.971 0178		**.300**	
		201		229			29		
701	9.548 3786		9.577 3636		0.422 6364	9.971 0149		299	
702	9.548 3986	200	9.577 3865	229	0.422 6135	9.971 0121	28	298	
703	9.548 4187	201	9.577 4095	230	0.422 5905	9.971 0092	29	297	
		200		229			28		
704	9.548 4387		9.577 4324		0.422 5676	9.971 0064		296	
705	9.548 4588	201	9.577 4553	229	0.422 5447	9.971 0035	29	295	
706	9.548 4788	200	9.577 4782	229	0.422 5218	9.971 0006	29	294	
		201		229			28		
707	9.548 4989		9.577 5011		0.422 4989	9.970 9978		293	
708	9.548 5190	201	9.577 5241	230	0.422 4759	9.970 9949	29	292	
709	9.548 5390	200	9.577 5470	229	0.422 4530	9.970 9920	29	291	
		201		229			28		
.710	9.548 5591		9.577 5699		0.422 4301	9.970 9892		**.290**	
		200		229			29		
711	9.548 5791		9.577 5928		0.422 4072	9.970 9863		289	
712	9.548 5991	200	9.577 6157	229	0.422 3843	9.970 9834	29	288	
713	9.548 6192	201	9.577 6386	229	0.422 3614	9.970 9806	28	287	
		200		229			29		
714	9.548 6392		9.577 6615		0.422 3385	9.970 9777		286	
715	9.548 6593	201	9.577 6845	230	0.422 3155	9.970 9748	29	285	
716	9.548 6793	200	9.577 7074	229	0.422 2926	9.970 9720	28	284	
		201		229			29		
717	9.548 6994		9.577 7303		0.422 2697	9.970 9691		283	
718	9.548 7194	200	9.577 7532	229	0.422 2468	9.970 9662	29	282	
719	9.548 7395	201	9.577 7761	229	0.422 2239	9.970 9634	28	281	
		200		229			29		
.720	9.548 7595		9.577 7990		0.422 2010	9.970 9605		**.280**	
		200		229			29		
721	9.548 7795		9.577 8219		0.422 1781	9.970 9576		279	
722	9.548 7996	201	9.577 8448	229	0.422 1552	9.970 9548	28	278	
723	9.548 8196	200	9.577 8677	229	0.422 1323	9.970 9519	29	277	
		200		229			29		
724	9.548 8396		9.577 8906		0.422 1094	9.970 9490		276	
725	9.548 8597	201	9.577 9135	229	0.422 0865	9.970 9462	28	275	
726	9.548 8797	200	9.577 9364	229	0.422 0636	9.970 9433	29	274	
		200		229			29		
727	9.548 8997		9.577 9593		0.422 0407	9.970 9404		273	
728	9.548 9198	201	9.577 9822	229	0.422 0178	9.970 9376	28	272	
729	9.548 9398	200	9.578 0051	229	0.421 9949	9.970 9347	29	271	
		200		229			29		
.730	9.548 9598		9.578 0280		0.421 9720	9.970 9318		**.270**	
		200		229			29		
731	9.548 9798		9.578 0509		0.421 9491	9.970 9289		269	
732	9.548 9999	201	9.578 0738	229	0.421 9262	9.970 9261	28	268	
733	9.549 0199	200	9.578 0967	229	0.421 9033	9.970 9232	29	267	
		200		229			29		
734	9.549 0399		9.578 1196		0.421 8804	9.970 9203		266	
735	9.549 0599	200	9.578 1425	229	0.421 8575	9.970 9175	28	265	
736	9.549 0800	201	9.578 1654	229	0.421 8346	9.970 9146	29	264	
		200		229			29		
737	9.549 1000		9.578 1883		0.421 8117	9.970 9117		263	
738	9.549 1200	200	9.578 2112	229	0.421 7888	9.970 9089	28	262	
739	9.549 1400	200	9.578 2340	228	0.421 7660	9.970 9060	29	261	
		200		229			29		
.740	9.549 1600		9.578 2569		0.421 7431	9.970 9031		**.260**	
		201		229			29		
741	9.549 1801		9.578 2798		0.421 7202	9.970 9002		259	
742	9.549 2001	200	9.578 3027	229	0.421 6973	9.970 8974	28	258	
743	9.549 2201	200	9.578 3256	229	0.421 6744	9.970 8945	29	257	
		200		229			29		
744	9.549 2401		9.578 3485		0.421 6515	9.970 8916		256	
745	9.549 2601	200	9.578 3714	229	0.421 6286	9.970 8888	28	255	
746	9.549 2801	200	9.578 3942	228	0.421 6058	9.970 8859	29	254	
		200		229			29		
747	9.549 3001		9.578 4171		0.421 5829	9.970 8830		253	
748	9.549 3202	201	9.578 4400	229	0.421 5600	9.970 8802	28	252	
749	9.549 3402	200	9.578 4629	229	0.421 5371	9.970 8773	29	251	
		200		229			29		
.750	9.549 3602		9.578 4858		0.421 5142	9.970 8744		**.250**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	230	229
1	23.0	22.9
2	46.0	45.8
3	69.0	68.7
4	92.0	91.6
5	115.0	114.5
6	138.0	137.4
7	161.0	160.3
8	184.0	183.2
9	207.0	206.1

	228
1	22.8
2	45.6
3	68.4
4	91.2
5	114.0
6	136.8
7	159.6
8	182.4
9	205.2

	201	200
1	20.1	20.0
2	40.2	40.0
3	60.3	60.0
4	80.4	80.0
5	100.5	100.0
6	120.6	120.0
7	140.7	140.0
8	160.8	160.0
9	180.9	180.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

$69^\circ.300$ — $69^\circ.250$

$20^\circ.750 - 20^\circ.800$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.549 3602		9.578 4858		0.421 5142	9.970 8744		**.250**	
		200		228			29		
751	9.549 3802		9.578 5086		0.421 4914	9.970 8715		249	
		200		229			28		
752	9.549 4002		9.578 5315		0.421 4685	9.970 8687		248	
		200		229			29		
753	9.549 4202		9.578 5544		0.421 4456	9.970 8658		247	
		200		229			29		
754	9.549 4402		9.578 5773		0.421 4227	9.970 8629		246	
		200		228			29		
755	9.549 4602		9.578 6001		0.421 3999	9.970 8600		245	
		200		229			28		
756	9.549 4802		9.578 6230		0.421 3770	9.970 8572		244	
		200		229			29		
757	9.549 5002		9.578 6459		0.421 3541	9.970 8543		243	
		200		229			29		
758	9.549 5202		9.578 6688		0.421 3312	9.970 8514		242	
		200		228			28		
759	9.549 5402		9.578 6916		0.421 3084	9.970 8486		241	
		200		229			29		
.760	9.549 5602		9.578 7145		0.421 2855	9.970 8457		**.240**	
		200		229			29		
761	9.549 5802		9.578 7374		0.421 2626	9.970 8428		239	
		200		228			29		
762	9.549 6002		9.578 7602		0.421 2398	9.970 8399		238	
		200		229			28		
763	9.549 6202		9.578 7831		0.421 2169	9.970 8371		237	
		200		229			29		
764	9.549 6402		9.578 8060		0.421 1940	9.970 8342		236	
		199		228			29		
765	9.549 6601		9.578 8288		0.421 1712	9.970 8313		235	
		200		229			29		
766	9.549 6801		9.578 8517		0.421 1483	9.970 8284		234	
		200		229			28		
767	9.549 7001		9.578 8746		0.421 1254	9.970 8256		233	
		200		228			29		
768	9.549 7201		9.578 8974		0.421 1026	9.970 8227		232	
		200		229			29		
769	9.549 7401		9.578 9203		0.421 0797	9.970 8198		231	
		200		228			29		
.770	9.549 7601		9.578 9431		0.421 0569	9.970 8169		**.230**	
		200		229			28		
771	9.549 7801		9.578 9660		0.421 0340	9.970 8141		229	
		200		229			29		
772	9.549 8001		9.578 9889		0.421 0111	9.970 8112		228	
		199		228			29		
773	9.549 8200		9.579 0117		0.420 9883	9.970 8083		227	
		200		229			29		
774	9.549 8400		9.579 0346		0.420 9654	9.970 8054		226	
		200		228			28		
775	9.549 8600		9.579 0574		0.420 9426	9.970 8026		225	
		200		229			29		
776	9.549 8800		9.579 0803		0.420 9197	9.970 7997		224	
		200		228			29		
777	9.549 9000		9.579 1031		0.420 8969	9.970 7968		223	
		199		229			29		
778	9.549 9199		9.579 1260		0.420 8740	9.970 7939		222	
		200		229			28		
779	9.549 9399		9.579 1489		0.420 8511	9.970 7911		221	
		200		228			29		
.780	9.549 9599		9.579 1717		0.420 8283	9.970 7882		**.220**	
		200		229			29		
781	9.549 9799		9.579 1946		0.420 8054	9.970 7853		219	
		199		228			29		
782	9.549 9998		9.579 2174		0.420 7826	9.970 7824		218	
		200		229			28		
783	9.550 0198		9.579 2403		0.420 7597	9.970 7796		217	
		200		228			29		
784	9.550 0398		9.579 2631		0.420 7369	9.970 7767		216	
		200		229			29		
785	9.550 0598		9.579 2860		0.420 7140	9.970 7738		215	
		199		228			29		
786	9.550 0797		9.579 3088		0.420 6912	9.970 7709		214	
		200		228			28		
787	9.550 0997		9.579 3316		0.420 6684	9.970 7681		213	
		200		229			29		
788	9.550 1197		9.579 3545		0.420 6455	9.970 7652		212	
		199		228			29		
789	9.550 1396		9.579 3773		0.420 6227	9.970 7623		211	
		200		229			29		
.790	9.550 1596		9.579 4002		0.420 5998	9.970 7594		**.210**	
		200		228			29		
791	9.550 1796		9.579 4230		0.420 5770	9.970 7565		209	
		199		229			28		
792	9.550 1995		9.579 4459		0.420 5541	9.970 7537		208	
		200		228			29		
793	9.550 2195		9.579 4687		0.420 5313	9.970 7508		207	
		199		228			29		
794	9.550 2394		9.579 4915		0.420 5085	9.970 7479		206	
		200		229			29		
795	9.550 2594		9.579 5144		0.420 4856	9.970 7450		205	
		200		228			29		
796	9.550 2794		9.579 5372		0.420 4628	9.970 7421		204	
		199		229			28		
797	9.550 2993		9.579 5601		0.420 4399	9.970 7393		203	
		200		228			29		
798	9.550 3193		9.579 5829		0.420 4171	9.970 7364		202	
		199		228			29		
799	9.550 3392		9.579 6057		0.420 3943	9.970 7335		201	
		200		229			29		
.800	9.550 3592		9.579 6286		0.420 3714	9.970 7306		**.200**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	229	228
1	22.9	22.8
2	45.8	45.6
3	68.7	68.4
4	91.6	91.2
5	114.5	114.0
6	137.4	136.8
7	160.3	159.6
8	183.2	182.4
9	206.1	205.2

	200
1	20.0
2	40.0
3	60.0
4	80.0
5	100.0
6	120.0
7	140.0
8	160.0
9	180.0

	199
1	19.9
2	39.8
3	59.7
4	79.6
5	99.5
6	119.4
7	139.3
8	159.2
9	179.1

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

$69^\circ.250 - 69^\circ.200$

20°.800 — 20°.850

20°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.550 3592		9.579 6286		0.420 3714	9.970 7306		**.200**	
		199		228			28		
801	9.550 3791		9.579 6514		0.420 3486	9.970 7278		199	
802	9.550 3991	200	9.579 6742	228	0.420 3258	9.970 7249	29	198	
803	9.550 4190	199	9.579 6971	229	0.420 3029	9.970 7220	29	197	
		200		228			29		
804	9.550 4390		9.579 7199		0.420 2801	9.970 7191		196	
805	9.550 4589	199	9.579 7427	228	0.420 2573	9.970 7162	29	195	
806	9.550 4789	200	9.579 7655	228	0.420 2345	9.970 7134	28	194	
		199		229			29		
807	9.550 4988		9.579 7884		0.420 2116	9.970 7105		193	
808	9.550 5188	200	9.579 8112	228	0.420 1888	9.970 7076	29	192	
809	9.550 5387	199	9.579 8340	228	0.420 1660	9.970 7047	29	191	
		200		228			29		
.810	9.550 5587		9.579 8568		0.420 1432	9.970 7018		**.190**	
		199		229			28		
811	9.550 5786		9.579 8797		0.420 1203	9.970 6990		189	
812	9.550 5986	200	9.579 9025	228	0.420 0975	9.970 6961	29	188	
813	9.550 6185	199	9.579 9253	228	0.420 0747	9.970 6932	29	187	
		199		228			29		
814	9.550 6384		9.579 9481		0.420 0519	9.970 6903		186	
815	9.550 6584	200	9.579 9710	229	0.420 0290	9.970 6874	29	185	
816	9.550 6783	199	9.579 9938	228	0.420 0062	9.970 6845	29	184	
		200		228			28		
817	9.550 6983		9.580 0166		0.419 9834	9.970 6817		183	
818	9.550 7182	199	9.580 0394	228	0.419 9606	9.970 6788	29	182	
819	9.550 7381	199	9.580 0622	228	0.419 9378	9.970 6759	29	181	
		200		228			29		
.820	9.550 7581		9.580 0850		0.419 9150	9.970 6730		**.180**	
		199		229			29		
821	9.550 7780		9.580 1079		0.419 8921	9.970 6701		179	
822	9.550 7979	199	9.580 1307	228	0.419 8693	9.970 6673	28	178	
823	9.550 8179	200	9.580 1535	228	0.419 8465	9.970 6644	29	177	
		199		228			29		
824	9.550 8378		9.580 1763		0.419 8237	9.970 6615		176	
825	9.550 8577	199	9.580 1991	228	0.419 8009	9.970 6586	29	175	
826	9.550 8776	199	9.580 2219	228	0.419 7781	9.970 6557	29	174	
		200		228			29		
827	9.550 8976		9.580 2447		0.419 7553	9.970 6528		173	
828	9.550 9175	199	9.580 2675	228	0.419 7325	9.970 6500	28	172	
829	9.550 9374	199	9.580 2903	228	0.419 7097	9.970 6471	29	171	
		199		229			29		
.830	9.550 9573		9.580 3132		0.419 6868	9.970 6442		**.170**	
		200		228			29		
831	9.550 9773		9.580 3360		0.419 6640	9.970 6413		169	
832	9.550 9972	199	9.580 3588	228	0.419 6412	9.970 6384	29	168	
833	9.551 0171	199	9.580 3816	228	0.419 6184	9.970 6355	29	167	
		199		228			29		
834	9.551 0370		9.580 4044		0.419 5956	9.970 6326		166	
835	9.551 0569	199	9.580 4272	228	0.419 5728	9.970 6298	28	165	
836	9.551 0769	200	9.580 4500	228	0.419 5500	9.970 6269	29	164	
		199		228			29		
837	9.551 0968		9.580 4728		0.419 5272	9.970 6240		163	
838	9.551 1167	199	9.580 4956	228	0.419 5044	9.970 6211	29	162	
839	9.551 1366	199	9.580 5184	228	0.419 4816	9.970 6182	29	161	
		199		228			29		
.840	9.551 1565		9.580 5412		0.419 4588	9.970 6153		**.160**	
		199		228			28		
841	9.551 1764		9.580 5640		0.419 4360	9.970 6125		159	
842	9.551 1963	199	9.580 5868	228	0.419 4132	9.970 6096	29	158	
843	9.551 2162	199	9.580 6096	228	0.419 3904	9.970 6067	29	157	
		200		228			29		
844	9.551 2362		9.580 6324		0.419 3676	9.970 6038		156	
845	9.551 2561	199	9.580 6552	228	0.419 3448	9.970 6009	29	155	
846	9.551 2760	199	9.580 6779	227	0.419 3221	9.970 5980	29	154	
		199		228			29		
847	9.551 2959		9.580 7007		0.419 2993	9.970 5951		153	
848	9.551 3158	199	9.580 7235	228	0.419 2765	9.970 5923	28	152	
849	9.551 3357	199	9.580 7463	228	0.419 2537	9.970 5894	29	151	
		199		228			29		
.850	9.551 3556		9.580 7691		0.419 2309	9.970 5865		**.150**	
	cos	d	cotg	d	tang	sin	d	**69°**	P.P.

	229	228
1	22.9	22.8
2	45.8	45.6
3	68.7	68.4
4	91.6	91.2
5	114.5	114.0
6	137.4	136.8
7	160.3	159.6
8	183.2	182.4
9	206.1	205.2

	227
1	22.7
2	45.4
3	68.1
4	90.8
5	113.5
6	136.2
7	158.9
8	181.6
9	204.3

	200	199
1	20.0	19.9
2	40.0	39.8
3	60.0	59.7
4	80.0	79.6
5	100.0	99.5
6	120.0	119.4
7	140.0	139.3
8	160.0	159.2
9	180.0	179.1

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

69°.200 — 69°.150

20°.850 — 20°.900

20°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.551 3556		9.580 7691		0.419 2309	9.970 5865		**.150**	
		199		228			29		
851	9.551 3755		9.580 7919		0.419 2081	9.970 5836		149	
852	9.551 3954	199	9.580 8147	228	0.419 1853	9.970 5807	29	148	
853	9.551 4153	199	9.580 8375	228	0.419 1625	9.970 5778	29	147	
854	9.551 4352	199	9.580 8603	228	0.419 1397	9.970 5749	29	146	
855	9.551 4551	199	9.580 8830	227	0.419 1170	9.970 5720	29	145	
856	9.551 4750	199	9.580 9058	228	0.419 0942	9.970 5692	28	144	
		199		228			29		
857	9.551 4949		9.580 9286		0.419 0714	9.970 5663		143	
858	9.551 5148	199	9.580 9514	228	0.419 0486	9.970 5634	29	142	
859	9.551 5347	199	9.580 9742	228	0.419 0258	9.970 5605	29	141	
.860	9.551 5546	199	9.580 9970	228	0.419 0030	9.970 5576	29	**.140**	
		198		227			29		
861	9.551 5744		9.581 0197		0.418 9803	9.970 5547		139	
862	9.551 5943	199	9.581 0425	228	0.418 9575	9.970 5518	29	138	
863	9.551 6142	199	9.581 0653	228	0.418 9347	9.970 5489	29	137	
864	9.551 6341	199	9.581 0881	228	0.418 9119	9.970 5460	29	136	
865	9.551 6540	199	9.581 1108	227	0.418 8892	9.970 5432	28	135	
866	9.551 6739	199	9.581 1336	228	0.418 8664	9.970 5403	29	134	
867	9.551 6938	199	9.581 1564	228	0.418 8436	9.970 5374	29	133	
868	9.551 7136	198	9.581 1792	228	0.418 8208	9.970 5345	29	132	
869	9.551 7335	199	9.581 2019	227	0.418 7981	9.970 5316	29	131	
.870	9.551 7534	199	9.581 2247	228	0.418 7753	9.970 5287	29	**.130**	
		199		228			29		
871	9.551 7733		9.581 2475		0.418 7525	9.970 5258		129	
872	9.551 7932	199	9.581 2702	227	0.418 7298	9.970 5229	29	128	
873	9.551 8131	199	9.581 2930	228	0.418 7070	9.970 5200	29	127	
874	9.551 8329	198	9.581 3158	228	0.418 6842	9.970 5171	29	126	
875	9.551 8528	199	9.581 3385	227	0.418 6615	9.970 5143	28	125	
876	9.551 8727	199	9.581 3613	228	0.418 6387	9.970 5114	29	124	
877	9.551 8926	199	9.581 3841	228	0.418 6159	9.970 5085	29	123	
878	9.551 9124	198	9.581 4068	227	0.418 5932	9.970 5056	29	122	
879	9.551 9323	199	9.581 4296	228	0.418 5704	9.970 5027	29	121	
.880	9.551 9522	199	9.581 4524	228	0.418 5476	9.970 4998	29	**.120**	
		198		227			29		
881	9.551 9720		9.581 4751		0.418 5249	9.970 4969		119	
882	9.551 9919	199	9.581 4979	228	0.418 5021	9.970 4940	29	118	
883	9.552 0118	199	9.581 5206	227	0.418 4794	9.970 4911	29	117	
884	9.552 0316	198	9.581 5434	228	0.418 4566	9.970 4882	29	116	
885	9.552 0515	199	9.581 5662	228	0.418 4338	9.970 4853	29	115	
886	9.552 0714	199	9.581 5889	227	0.418 4111	9.970 4825	28	114	
887	9.552 0912	198	9.581 6117	228	0.418 3883	9.970 4796	29	113	
888	9.552 1111	199	9.581 6344	227	0.418 3656	9.970 4767	29	112	
889	9.552 1310	199	9.581 6572	228	0.418 3428	9.970 4738	29	111	
.890	9.552 1508	198	9.581 6799	227	0.418 3201	9.970 4709	29	**.110**	
		199		228			29		
891	9.552 1707		9.581 7027		0.418 2973	9.970 4680		109	
892	9.552 1905	198	9.581 7254	227	0.418 2746	9.970 4651	29	108	
893	9.552 2104	199	9.581 7482	228	0.418 2518	9.970 4622	29	107	
894	9.552 2303	199	9.581 7709	227	0.418 2291	9.970 4593	29	106	
895	9.552 2501	198	9.581 7937	228	0.418 2063	9.970 4564	29	105	
896	9.552 2700	199	9.581 8164	227	0.418 1836	9.970 4535	29	104	
897	9.552 2898	198	9.581 8392	228	0.418 1608	9.970 4506	29	103	
898	9.552 3097	199	9.581 8619	227	0.418 1381	9.970 4477	29	102	
899	9.552 3295	198	9.581 8847	228	0.418 1153	9.970 4448	29	101	
.900	9.552 3494	199	9.581 9074	227	0.418 0926	9.970 4419	29	**.100**	
	cos	d	cotg	d	tang	sin	d	**69°**	P.P.

	228	227
1	22.8	22.7
2	45.6	45.4
3	68.4	68.1
4	91.2	90.8
5	114.0	113.5
6	136.8	136.2
7	159.6	158.9
8	182.4	181.6
9	205.2	204.3

	199
1	19.9
2	39.8
3	59.7
4	79.6
5	99.5
6	119.4
7	139.3
8	159.2
9	179.1

	198
1	19.8
2	39.6
3	59.4
4	79.2
5	99.0
6	118.8
7	138.6
8	158.4
9	178.2

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

69°.150 — 69°.100

$20^\circ.900 - 20^\circ.950$

20°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.552 3494		9.581 9074		0.418 0926	9.970 4419		**.100**	
		198		228			29		
901	9.552 3692		9.581 9302		0.418 0698	9.970 4390		099	
902	9.552 3891	199	9.581 9529	227	0.418 0471	9.970 4362	28	098	
903	9.552 4089	198	9.581 9757	228	0.418 0243	9.970 4333	29	097	
		199		227			29		
904	9.552 4288		9.581 9984		0.418 0016	9.970 4304		096	
905	9.552 4486	198	9.582 0211	227	0.417 9789	9.970 4275	29	095	
906	9.552 4685	199	9.582 0439	228	0.417 9561	9.970 4246	29	094	
		198		227			29		
907	9.552 4883		9.582 0666		0.417 9334	9.970 4217		093	
908	9.552 5081	198	9.582 0894	228	0.417 9106	9.970 4188	29	092	
909	9.552 5280	199	9.582 1121	227	0.417 8879	9.970 4159	29	091	
		198		227			29		
.910	9.552 5478		9.582 1348		0.417 8652	9.970 4130		**.090**	
		199		228			29		
911	9.552 5677		9.582 1576		0.417 8424	9.970 4101		089	
912	9.552 5875	198	9.582 1803	227	0.417 8197	9.970 4072	29	088	
913	9.552 6073	198	9.582 2030	227	0.417 7970	9.970 4043	29	087	
		199		228			29		
914	9.552 6272		9.582 2258		0.417 7742	9.970 4014		086	
915	9.552 6470	198	9.582 2485	227	0.417 7515	9.970 3985	29	085	
916	9.552 6668	198	9.582 2712	227	0.417 7288	9.970 3956	29	084	
		199		228			29		
917	9.552 6867		9.582 2940		0.417 7060	9.970 3927		083	
918	9.552 7065	198	9.582 3167	227	0.417 6833	9.970 3898	29	082	
919	9.552 7263	198	9.582 3394	227	0.417 6606	9.970 3869	29	081	
		199		227			29		
.920	9.552 7462		9.582 3621		0.417 6379	9.970 3840		**.080**	
		198		228			29		
921	9.552 7660		9.582 3849		0.417 6151	9.970 3811		079	
922	9.552 7858	198	9.582 4076	227	0.417 5924	9.970 3782	29	078	
923	9.552 8056	198	9.582 4303	227	0.417 5697	9.970 3753	29	077	
		199		227			29		
924	9.552 8255		9.582 4530		0.417 5470	9.970 3724		076	
925	9.552 8453	198	9.582 4758	228	0.417 5242	9.970 3695	29	075	
926	9.552 8651	198	9.582 4985	227	0.417 5015	9.970 3666	29	074	
		198		227			29		
927	9.552 8849		9.582 5212		0.417 4788	9.970 3637		073	
928	9.552 9048	199	9.582 5439	227	0.417 4561	9.970 3608	29	072	
929	9.552 9246	198	9.582 5666	227	0.417 4334	9.970 3579	29	071	
		198		228			29		
.930	9.552 9444		9.582 5894		0.417 4106	9.970 3550		**.070**	
		198		227			29		
931	9.552 9642		9.582 6121		0.417 3879	9.970 3521		069	
932	9.552 9840	198	9.582 6348	227	0.417 3652	9.970 3492	29	068	
933	9.553 0038	198	9.582 6575	227	0.417 3425	9.970 3463	29	067	
		199		227			29		
934	9.553 0237		9.582 6802		0.417 3198	9.970 3434		066	
935	9.553 0435	198	9.582 7029	227	0.417 2971	9.970 3405	29	065	
936	9.553 0633	198	9.582 7256	227	0.417 2744	9.970 3376	29	064	
		198		228			29		
937	9.553 0831		9.582 7484		0.417 2516	9.970 3347		063	
938	9.553 1029	198	9.582 7711	227	0.417 2289	9.970 3318	29	062	
939	9.553 1227	198	9.582 7938	227	0.417 2062	9.970 3289	29	061	
		198		227			29		
.940	9.553 1425		9.582 8165		0.417 1835	9.970 3260		**.060**	
		198		227			29		
941	9.553 1623		9.582 8392		0.417 1608	9.970 3231		059	
942	9.553 1821	198	9.582 8619	227	0.417 1381	9.970 3202	29	058	
943	9.553 2020	199	9.582 8846	227	0.417 1154	9.970 3173	29	057	
		198		227			29		
944	9.553 2218		9.582 9073		0.417 0927	9.970 3144		056	
945	9.553 2416	198	9.582 9300	227	0.417 0700	9.970 3115	29	055	
946	9.553 2614	198	9.582 9527	227	0.417 0473	9.970 3086	29	054	
		198		227			29		
947	9.553 2812		9.582 9754		0.417 0246	9.970 3057		053	
948	9.553 3010	198	9.582 9981	227	0.417 0019	9.970 3028	29	052	
949	9.553 3208	198	9.583 0208	227	0.416 9792	9.970 2999	29	051	
		198		227			29		
.950	9.553 3406		9.583 0435		0.416 9565	9.970 2970		**.050**	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	228	227
1	22.8	22.7
2	45.6	45.4
3	68.4	68.1
4	91.2	90.8
5	114.0	113.5
6	136.8	136.2
7	159.6	158.9
8	182.4	181.6
9	205.2	204.3

	199
1	19.9
2	39.8
3	59.7
4	79.6
5	99.5
6	119.4
7	139.3
8	159.2
9	179.1

	198
1	19.8
2	39.6
3	59.4
4	79.2
5	99.0
6	118.8
7	138.6
8	158.4
9	178.2

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

	28
1	2.8
2	5.6
3	8.4
4	11.2
5	14.0
6	16.8
7	19.6
8	22.4
9	25.2

$69^\circ.100 - 69^\circ.050$

20°.950 — 21°.000

20°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.553 3406		9.583 0435		0.416 9565	9.970 2970		.050	
		198		227			29		
951	9.553 3604		9.583 0662		0.416 9338	9.970 2941		049	
952	9.553 3802	198	9.583 0889	227	0.416 9111	9.970 2912	29	048	
953	9.553 3999	197	9.583 1116	227	0.416 8884	9.970 2883	29	047	
		198		227			29		
954	9.553 4197		9.583 1343		0.416 8657	9.970 2854		046	
955	9.553 4395	198	9.583 1570	227	0.416 8430	9.970 2825	29	045	
956	9.553 4593	198	9.583 1797	227	0.416 8203	9.970 2796	29	044	
		198		227			29		
957	9.553 4791		9.583 2024		0.416 7976	9.970 2767		043	
958	9.553 4989	198	9.583 2251	227	0.416 7749	9.970 2738	29	042	
959	9.553 5187	198	9.583 2478	227	0.416 7522	9.970 2709	29	041	
		198		227			29		
.960	9.553 5385		9.583 2705		0.416 7295	9.970 2680		.040	
		198		227			29		
961	9.553 5583		9.583 2932		0.416 7068	9.970 2651		039	
962	9.553 5781	198	9.583 3159	227	0.416 6841	9.970 2622	29	038	
963	9.553 5978	197	9.583 3386	227	0.416 6614	9.970 2593	29	037	
		198		226			29		
964	9.553 6176		9.583 3612		0.416 6388	9.970 2564		036	
965	9.553 6374	198	9.583 3839	227	0.416 6161	9.970 2535	29	035	
966	9.553 6572	198	9.583 4066	227	0.416 5934	9.970 2506	29	034	
		198		227			29		
967	9.553 6770		9.583 4293		0.416 5707	9.970 2477		033	
968	9.553 6968	198	9.583 4520	227	0.416 5480	9.970 2448	29	032	
969	9.553 7165	197	9.583 4747	227	0.416 5253	9.970 2419	29	031	
		198		227			29		
.970	9.553 7363		9.583 4974		0.416 5026	9.970 2390		.030	
		198		226			29		
971	9.553 7561		9.583 5200		0.416 4800	9.970 2361		029	197
972	9.553 7759	198	9.583 5427	227	0.416 4573	9.970 2331	30	028	
973	9.553 7956	197	9.583 5654	227	0.416 4346	9.970 2302	29	027	1 19.7
		198		227			29		2 39.4
974	9.553 8154		9.583 5881		0.416 4119	9.970 2273		026	3 59.1
975	9.553 8352	198	9.583 6108	227	0.416 3892	9.970 2244	29	025	4 78.8
976	9.553 8550	198	9.583 6334	226	0.416 3666	9.970 2215	29	024	5 98.5
		197		227			29		6 118.2
977	9.553 8747		9.583 6561		0.416 3439	9.970 2186		023	7 137.9
978	9.553 8945	198	9.583 6788	227	0.416 3212	9.970 2157	29	022	8 157.6
979	9.553 9143	198	9.583 7015	227	0.416 2985	9.970 2128	29	021	9 177.3
		197		226			29		
.980	9.553 9340		9.583 7241		0.416 2759	9.970 2099		.020	
		198		227			29		
981	9.553 9538		9.583 7468		0.416 2532	9.970 2070		019	30
982	9.553 9736	198	9.583 7695	227	0.416 2305	9.970 2041	29	018	
983	9.553 9933	197	9.583 7921	226	0.416 2079	9.970 2012	29	017	1 3.0
		198		227			29		2 6.0
984	9.554 0131		9.583 8148		0.416 1852	9.970 1983		016	3 9.0
985	9.554 0329	198	9.583 8375	227	0.416 1625	9.970 1954	29	015	4 12.0
986	9.554 0526	197	9.583 8602	227	0.416 1398	9.970 1925	29	014	5 15.0
		198		226			29		6 18.0
987	9.554 0724		9.583 8828		0.416 1172	9.970 1896		013	7 21.0
988	9.554 0921	197	9.583 9055	227	0.416 0945	9.970 1866	30	012	8 24.0
989	9.554 1119	198	9.583 9282	227	0.416 0718	9.970 1837	29	011	9 27.0
		197		226			29		
.990	9.554 1316		9.583 9508		0.416 0492	9.970 1808		.010	
		198		227			29		
991	9.554 1514		9.583 9735		0.416 0265	9.970 1779		009	29
992	9.554 1712	198	9.583 9961	226	0.416 0039	9.970 1750	29	008	
993	9.554 1909	197	9.584 0188	227	0.415 9812	9.970 1721	29	007	1 2.9
		198		227			29		2 5.8
994	9.554 2107		9.584 0415		0.415 9585	9.970 1692		006	3 8.7
995	9.554 2304	197	9.584 0641	226	0.415 9359	9.970 1663	29	005	4 11.6
996	9.554 2502	198	9.584 0868	227	0.415 9132	9.970 1634	29	004	5 14.5
		197		227			29		6 17.4
997	9.554 2699		9.584 1095		0.415 8905	9.970 1605		003	7 20.3
998	9.554 2897	198	9.584 1321	226	0.415 8679	9.970 1576	29	002	8 23.2
999	9.554 3094	197	9.584 1548	227	0.415 8452	9.970 1546	30	001	9 26.1
		198		226			29		
*.000	9.554 3292		9.584 1774		0.415 8226	9.970 1517		.000	
	cos	d	cotg	d	tang	sin	d	69°	P.P.

	227	226
1	22.7	22.6
2	45.4	45.2
3	68.1	67.8
4	90.8	90.4
5	113.5	113.0
6	136.2	135.6
7	158.9	158.2
8	181.6	180.8
9	204.3	203.4

	198
1	19.8
2	39.6
3	59.4
4	79.2
5	99.0
6	118.8
7	138.6
8	158.4
9	178.2

	197
1	19.7
2	39.4
3	59.1
4	78.8
5	98.5
6	118.2
7	137.9
8	157.6
9	177.3

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

69°.050 — 69°.000

21°.000 — 21°.050

21°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.554 3292		9.584 1774		0.415 8226	9.970 1517		*000	
		197		227			29		
001	9.554 3489		9.584 2001		0.415 7999	9.970 1488		999	
002	9.554 3687	198	9.584 2227	226	0.415 7773	9.970 1459	29	998	
003	9.554 3884	197	9.584 2454	227	0.415 7546	9.970 1430	29	997	
		197		226			29		
004	9.554 4081		9.584 2680		0.415 7320	9.970 1401		996	
005	9.554 4279	198	9.584 2907	227	0.415 7093	9.970 1372	29	995	
006	9.554 4476	197	9.584 3133	226	0.415 6867	9.970 1343	29	994	
		198		227			29		
007	9.554 4674		9.584 3360		0.415 6640	9.970 1314		993	
008	9.554 4871	197	9.584 3586	226	0.415 6414	9.970 1285	29	992	
009	9.554 5068	197	9.584 3813	227	0.415 6187	9.970 1255	30	991	
		198		226			29		
.010	9.554 5266		9.584 4039		0.415 5961	9.970 1226		.990	
		197		227			29		
011	9.554 5463		9.584 4266		0.415 5734	9.970 1197		989	
012	9.554 5660	197	9.584 4492	226	0.415 5508	9.970 1168	29	988	
013	9.554 5858	198	9.584 4719	227	0.415 5281	9.970 1139	29	987	
		197		226			29		
014	9.554 6055		9.584 4945		0.415 5055	9.970 1110		986	
015	9.554 6252	197	9.584 5172	227	0.415 4828	9.970 1081	29	985	
016	9.554 6450	198	9.584 5398	226	0.415 4602	9.970 1052	29	984	
		197		226			29		
017	9.554 6647		9.584 5624		0.415 4376	9.970 1023		983	
018	9.554 6844	197	9.584 5851	227	0.415 4149	9.970 0993	30	982	
019	9.554 7042	198	9.584 6077	226	0.415 3923	9.970 0964	29	981	
		197		227			29		
.020	9.554 7239		9.584 6304		0.415 3696	9.970 0935		.980	
		197		226			29		
021	9.554 7436		9.584 6530		0.415 3470	9.970 0906		979	
022	9.554 7633	197	9.584 6756	226	0.415 3244	9.970 0877	29	978	
023	9.554 7831	198	9.584 6983	227	0.415 3017	9.970 0848	29	977	
		197		226			29		
024	9.554 8028		9.584 7209		0.415 2791	9.970 0819		976	
025	9.554 8225	197	9.584 7435	226	0.415 2565	9.970 0789	30	975	
026	9.554 8422	197	9.584 7662	227	0.415 2338	9.970 0760	29	974	
		197		226			29		
027	9.554 8619		9.584 7888		0.415 2112	9.970 0731		973	
028	9.554 8817	198	9.584 8114	226	0.415 1886	9.970 0702	29	972	
029	9.554 9014	197	9.584 8341	227	0.415 1659	9.970 0673	29	971	
		197		226			29		
.030	9.554 9211		9.584 8567		0.415 1433	9.970 0644		.970	
		197		226			29		
031	9.554 9408		9.584 8793		0.415 1207	9.970 0615		969	
032	9.554 9605	197	9.584 9020	227	0.415 0980	9.970 0586	29	968	
033	9.554 9802	197	9.584 9246	226	0.415 0754	9.970 0556	30	967	
		197		226			29		
034	9.554 9999		9.584 9472		0.415 0528	9.970 0527		966	
035	9.555 0196	197	9.584 9698	226	0.415 0302	9.970 0498	29	965	
036	9.555 0394	198	9.584 9925	227	0.415 0075	9.970 0469	29	964	
		197		226			29		
037	9.555 0591		9.585 0151		0.414 9849	9.970 0440		963	
038	9.555 0788	197	9.585 0377	226	0.414 9623	9.970 0411	29	962	
039	9.555 0985	197	9.585 0603	226	0.414 9397	9.970 0381	30	961	
		197		227			29		
.040	9.555 1182		9.585 0830		0.414 9170	9.970 0352		.960	
		197		226			29		
041	9.555 1379		9.585 1056		0.414 8944	9.970 0323		959	
042	9.555 1576	197	9.585 1282	226	0.414 8718	9.970 0294	29	958	
043	9.555 1773	197	9.585 1508	226	0.414 8492	9.970 0265	29	957	
		197		226			29		
044	9.555 1970		9.585 1734		0.414 8266	9.970 0236		956	
045	9.555 2167	197	9.585 1961	227	0.414 8039	9.970 0207	29	955	
046	9.555 2364	197	9.585 2187	226	0.414 7813	9.970 0177	30	954	
		197		226			29		
047	9.555 2561		9.585 2413		0.414 7587	9.970 0148		953	
048	9.555 2758	197	9.585 2639	226	0.414 7361	9.970 0119	29	952	
049	9.555 2955	197	9.585 2865	226	0.414 7135	9.970 0090	29	951	
		197		226			29		
.050	9.555 3152		9.585 3091		0.414 6909	9.970 0061		.950	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	227	226
1	22.7	22.6
2	45.4	45.2
3	68.1	67.8
4	90.8	90.4
5	113.5	113.0
6	136.2	135.6
7	158.9	158.2
8	181.6	180.8
9	204.3	203.4

	198
1	19.8
2	39.6
3	59.4
4	79.2
5	99.0
6	118.8
7	138.6
8	158.4
9	178.2

	197
1	19.7
2	39.4
3	59.1
4	78.8
5	98.5
6	118.2
7	137.9
8	157.6
9	177.3

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

69°.000 — 68°.950

21°.050 — 21°.100

21°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.555 3152		9.585 3091		0.414 6909	9.970 0061		**.950**	
		197		226			30		
051	9.555 3349		9.585 3317		0.414 6683	9.970 0031		949	
052	9.555 3546	197	9.585 3543	226	0.414 6457	9.970 0002	29	948	
053	9.555 3743	197	9.585 3770	227	0.414 6230	9.969 9973	29	947	
		197		226			29		
054	9.555 3940		9.585 3996		0.414 6004	9.969 9944		946	
055	9.555 4136	196	9.585 4222	226	0.414 5778	9.969 9915	29	945	
056	9.555 4333	197	9.585 4448	226	0.414 5552	9.969 9886	29	944	
		197		226			30		
057	9.555 4530		9.585 4674		0.414 5326	9.969 9856		943	
058	9.555 4727	197	9.585 4900	226	0.414 5100	9.969 9827	29	942	
059	9.555 4924	197	9.585 5126	226	0.414 4874	9.969 9798	29	941	
		197		226			29		
.060	9.555 5121		9.585 5352		0.414 4648	9.969 9769		**.940**	
		197		226			29		
061	9.555 5318		9.585 5578		0.414 4422	9.969 9740		939	
062	9.555 5515	197	9.585 5804	226	0.414 4196	9.969 9710	30	938	
063	9.555 5711	196	9.585 6030	226	0.414 3970	9.969 9681	29	937	
		197		226			29		
064	9.555 5908		9.585 6256		0.414 3744	9.969 9652		936	
065	9.555 6105	197	9.585 6482	226	0.414 3518	9.969 9623	29	935	
066	9.555 6302	197	9.585 6708	226	0.414 3292	9.969 9594	29	934	
		197		226			29		
067	9.555 6499		9.585 6934		0.414 3066	9.969 9565		933	
068	9.555 6695	196	9.585 7160	226	0.414 2840	9.969 9535	30	932	
069	9.555 6892	197	9.585 7386	226	0.414 2614	9.969 9506	29	931	
		197		226			29		
.070	9.555 7089		9.585 7612		0.414 2388	9.969 9477		**.930**	
		197		226			29		
071	9.555 7286		9.585 7838		0.414 2162	9.969 9448		929	
072	9.555 7482	196	9.585 8064	226	0.414 1936	9.969 9419	29	928	
073	9.555 7679	197	9.585 8290	226	0.414 1710	9.969 9389	30	927	
		197		226			29		
074	9.555 7876		9.585 8516		0.414 1484	9.969 9360		926	
075	9.555 8072	196	9.585 8742	226	0.414 1258	9.969 9331	29	925	
076	9.555 8269	197	9.585 8967	225	0.414 1033	9.969 9302	29	924	
		197		226			30		
077	9.555 8466		9.585 9193		0.414 0807	9.969 9272		923	
078	9.555 8662	196	9.585 9419	226	0.414 0581	9.969 9243	29	922	
079	9.555 8859	197	9.585 9645	226	0.414 0355	9.969 9214	29	921	
		197		226			29		
.080	9.555 9056		9.585 9871		0.414 0129	9.969 9185		**.920**	
		196		226			29		
081	9.555 9252		9.586 0097		0.413 9903	9.969 9156		919	
082	9.555 9449	197	9.586 0323	226	0.413 9677	9.969 9126	30	918	
083	9.555 9646	197	9.586 0548	225	0.413 9452	9.969 9097	29	917	
		196		226			29		
084	9.555 9842		9.586 0774		0.413 9226	9.969 9068		916	
085	9.556 0039	197	9.586 1000	226	0.413 9000	9.969 9039	29	915	
086	9.556 0235	196	9.586 1226	226	0.413 8774	9.969 9009	30	914	
		197		226			29		
087	9.556 0432		9.586 1452		0.413 8548	9.969 8980		913	
088	9.556 0629	197	9.586 1678	226	0.413 8322	9.969 8951	29	912	
089	9.556 0825	196	9.586 1903	225	0.413 8097	9.969 8922	29	911	
		197		226			29		
.090	9.556 1022		9.586 2129		0.413 7871	9.969 8893		**.910**	
		196		226			30		
091	9.556 1218		9.586 2355		0.413 7645	9.969 8863		909	
092	9.556 1415	197	9.586 2581	226	0.413 7419	9.969 8834	29	908	
093	9.556 1611	196	9.586 2806	225	0.413 7194	9.969 8805	29	907	
		197		226			29		
094	9.556 1808		9.586 3032		0.413 6968	9.969 8776		906	
095	9.556 2004	196	9.586 3258	226	0.413 6742	9.969 8746	30	905	
096	9.556 2201	197	9.586 3484	226	0.413 6516	9.969 8717	29	904	
		196		225			29		
097	9.556 2397		9.586 3709		0.413 6291	9.969 8688		903	
098	9.556 2594	197	9.586 3935	226	0.413 6065	9.969 8659	29	902	
099	9.556 2790	196	9.586 4161	226	0.413 5839	9.969 8629	30	901	
		197		225			29		
.100	9.556 2987		9.586 4386		0.413 5614	9.969 8600		**.900**	
	cos	d	cotg	d	tang	sin	d	**68°**	P.P.

	227	226
1	22.7	22.6
2	45.4	45.2
3	68.1	67.8
4	90.8	90.4
5	113.5	113.0
6	136.2	135.6
7	158.9	158.2
8	181.6	180.8
9	204.3	203.4

	225
1	22.5
2	45.0
3	67.5
4	90.0
5	112.5
6	135.0
7	157.5
8	180.0
9	202.5

	197	196
1	19.7	19.6
2	39.4	39.2
3	59.1	58.8
4	78.8	78.4
5	98.5	98.0
6	118.2	117.6
7	137.9	137.2
8	157.6	156.8
9	177.3	176.4

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.950 — 68°.900

21°.100 — 21°.150

21°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.556 2987		9.586 4386		0.413 5614	9.969 8600		.900	
		196		226			29		
101	9.556 3183		9.586 4612		0.413 5388	9.969 8571		899	
102	9.556 3379	196	9.586 4838	226	0.413 5162	9.969 8542	29	898	
103	9.556 3576	197	9.586 5063	225	0.413 4937	9.969 8512	30	897	
		196		226			29		
104	9.556 3772		9.586 5289		0.413 4711	9.969 8483		896	
105	9.556 3969	197	9.586 5515	226	0.413 4485	9.969 8454	29	895	
106	9.556 4165	196	9.586 5740	225	0.413 4260	9.969 8425	29	894	
		196		226			30		
107	9.556 4361		9.586 5966		0.413 4034	9.969 8395		893	
108	9.556 4558	197	9.586 6192	226	0.413 3808	9.969 8366	29	892	
109	9.556 4754	196	9.586 6417	225	0.413 3583	9.969 8337	29	891	
		196		226			29		
.110	9.556 4950		9.586 6643		0.413 3357	9.969 8308		.890	
		197		225			30		
111	9.556 5147		9.586 6868		0.413 3132	9.969 8278		889	
112	9.556 5343	196	9.586 7094	226	0.413 2906	9.969 8249	29	888	
113	9.556 5539	196	9.586 7320	226	0.413 2680	9.969 8220	29	887	
		197		225			29		
114	9.556 5736		9.586 7545		0.413 2455	9.969 8191		886	
115	9.556 5932	196	9.586 7771	226	0.413 2229	9.969 8161	30	885	
116	9.556 6128	196	9.586 7996	225	0.413 2004	9.969 8132	29	884	
		196		226			29		
117	9.556 6324		9.586 8222		0.413 1778	9.969 8103		883	
118	9.556 6521	197	9.586 8447	225	0.413 1553	9.969 8073	30	882	
119	9.556 6717	196	9.586 8673	226	0.413 1327	9.969 8044	29	881	
		196		225			29		
.120	9.556 6913		9.586 8898		0.413 1102	9.969 8015		.880	
		196		226			29		
121	9.556 7109		9.586 9124		0.413 0876	9.969 7986		879	
122	9.556 7306	197	9.586 9349	225	0.413 0651	9.969 7956	30	878	
123	9.556 7502	196	9.586 9575	226	0.413 0425	9.969 7927	29	877	
		196		225			29		
124	9.556 7698		9.586 9800		0.413 0200	9.969 7898		876	
125	9.556 7894	196	9.587 0026	226	0.412 9974	9.969 7868	30	875	
126	9.556 8090	196	9.587 0251	225	0.412 9749	9.969 7839	29	874	
		197		226			29		
127	9.556 8287		9.587 0477		0.412 9523	9.969 7810		873	
128	9.556 8483	196	9.587 0702	225	0.412 9298	9.969 7781	29	872	
129	9.556 8679	196	9.587 0928	226	0.412 9072	9.969 7751	30	871	
		196		225			29		
.130	9.556 8875		9.587 1153		0.412 8847	9.969 7722		.870	
		196		225			29		
131	9.556 9071		9.587 1378		0.412 8622	9.969 7693		869	
132	9.556 9267	196	9.587 1604	226	0.412 8396	9.969 7663	30	868	
133	9.556 9463	196	9.587 1829	225	0.412 8171	9.969 7634	29	867	
		196		226			29		
134	9.556 9659		9.587 2055		0.412 7945	9.969 7605		866	
135	9.556 9856	197	9.587 2280	225	0.412 7720	9.969 7576	29	865	
136	9.557 0052	196	9.587 2505	225	0.412 7495	9.969 7546	30	864	
		196		226			29		
137	9.557 0248		9.587 2731		0.412 7269	9.969 7517		863	
138	9.557 0444	196	9.587 2956	225	0.412 7044	9.969 7488	29	862	
139	9.557 0640	196	9.587 3181	225	0.412 6819	9.969 7458	30	861	
		196		226			29		
.140	9.557 0836		9.587 3407		0.412 6593	9.969 7429		.860	
		196		225			29		
141	9.557 1032		9.587 3632		0.412 6368	9.969 7400		859	
142	9.557 1228	196	9.587 3857	225	0.412 6143	9.969 7370	30	858	
143	9.557 1424	196	9.587 4083	226	0.412 5917	9.969 7341	29	857	
		196		225			29		
144	9.557 1620		9.587 4308		0.412 5692	9.969 7312		856	
145	9.557 1816	196	9.587 4533	225	0.412 5467	9.969 7282	30	855	
146	9.557 2012	196	9.587 4759	226	0.412 5241	9.969 7253	29	854	
		196		225			29		
147	9.557 2208		9.587 4984		0.412 5016	9.969 7224		853	
148	9.557 2404	196	9.587 5209	225	0.412 4791	9.969 7194	30	852	
149	9.557 2600	196	9.587 5435	226	0.412 4565	9.969 7165	29	851	
		196		225			29		
.150	9.557 2796		9.587 5660		0.412 4340	9.969 7136		.850	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

68°.900 — 68°.850

	226	225
1	22.6	22.5
2	45.2	45.0
3	67.8	67.5
4	90.4	90.0
5	113.0	112.5
6	135.6	135.0
7	158.2	157.5
8	180.8	180.0
9	203.4	202.5

	197
1	19.7
2	39.4
3	59.1
4	78.8
5	98.5
6	118.2
7	137.9
8	157.6
9	177.3

	196
1	19.6
2	39.2
3	58.8
4	78.4
5	98.0
6	117.6
7	137.2
8	156.8
9	176.4

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

21°.150 — 21°.200

21°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.557 2796		9.587 5660		0.412 4340	9.969 7136		.850	
		196		225			29		
151	9.557 2992		9.587 5885		0.412 4115	9.969 7107		849	
152	9.557 3187	195	9.587 6110	225	0.412 3890	9.969 7077	30	848	
153	9.557 3383	196	9.587 6335	225	0.412 3665	9.969 7048	29	847	
		196		226			29		
154	9.557 3579		9.587 6561		0.412 3439	9.969 7019		846	
155	9.557 3775	196	9.587 6786	225	0.412 3214	9.969 6989	30	845	
156	9.557 3971	196	9.587 7011	225	0.412 2989	9.969 6960	29	844	
		196		225			29		
157	9.557 4167		9.587 7236		0.412 2764	9.969 6931		843	
158	9.557 4363	196	9.587 7462	226	0.412 2538	9.969 6901	30	842	
159	9.557 4559	196	9.587 7687	225	0.412 2313	9.969 6872	29	841	
		195		225			29		
.160	9.557 4754		9.587 7912		0.412 2088	9.969 6843		.840	
		196		225			30		
161	9.557 4950		9.587 8137		0.412 1863	9.969 6813		839	
162	9.557 5146	196	9.587 8362	225	0.412 1638	9.969 6784	29	838	
163	9.557 5342	196	9.587 8587	225	0.412 1413	9.969 6754	30	837	
		196		225			29		
164	9.557 5538		9.587 8812		0.412 1188	9.969 6725		836	
165	9.557 5733	195	9.587 9038	226	0.412 0962	9.969 6696	29	835	
166	9.557 5929	196	9.587 9263	225	0.412 0737	9.969 6666	30	834	
		196		225			29		
167	9.557 6125		9.587 9488		0.412 0512	9.969 6637		833	
168	9.557 6321	196	9.587 9713	225	0.412 0287	9.969 6608	29	832	
169	9.557 6516	195	9.587 9938	225	0.412 0062	9.969 6578	30	831	
		196		225			29		
.170	9.557 6712		9.588 0163		0.411 9837	9.969 6549		.830	
		196		225			29		
171	9.557 6908		9.588 0388		0.411 9612	9.969 6520		829	
172	9.557 7104	196	9.588 0613	225	0.411 9387	9.969 6490	30	828	
173	9.557 7299	195	9.588 0838	225	0.411 9162	9.969 6461	29	827	
		196		225			29		
174	9.557 7495		9.588 1063		0.411 8937	9.969 6432		826	
175	9.557 7691	196	9.588 1288	225	0.411 8712	9.969 6402	30	825	
176	9.557 7886	195	9.588 1513	225	0.411 8487	9.969 6373	29	824	
		196		225			29		
177	9.557 8082		9.588 1738		0.411 8262	9.969 6344		823	
178	9.557 8278	196	9.588 1963	225	0.411 8037	9.969 6314	30	822	
179	9.557 8473	195	9.588 2188	225	0.411 7812	9.969 6285	29	821	
		196		225			30		
.180	9.557 8669		9.588 2413		0.411 7587	9.969 6255		.820	
		195		225			29		
181	9.557 8864		9.588 2638		0.411 7362	9.969 6226		819	
182	9.557 9060	196	9.588 2863	225	0.411 7137	9.969 6197	29	818	
183	9.557 9256	196	9.588 3088	225	0.411 6912	9.969 6167	30	817	
		195		225			29		
184	9.557 9451		9.588 3313		0.411 6687	9.969 6138		816	
185	9.557 9647	196	9.588 3538	225	0.411 6462	9.969 6109	29	815	
186	9.557 9842	195	9.588 3763	225	0.411 6237	9.969 6079	30	814	
		196		225			29		
187	9.558 0038		9.588 3988		0.411 6012	9.969 6050		813	
188	9.558 0234	196	9.588 4213	225	0.411 5787	9.969 6020	30	812	
189	9.558 0429	195	9.588 4438	225	0.411 5562	9.969 5991	29	811	
		196		225			29		
.190	9.558 0625		9.588 4663		0.411 5337	9.969 5962		.810	
		195		225			30		
191	9.558 0820		9.588 4888		0.411 5112	9.969 5932		809	
192	9.558 1016	196	9.588 5113	225	0.411 4887	9.969 5903	29	808	
193	9.558 1211	195	9.588 5338	225	0.411 4662	9.969 5873	30	807	
		196		225			29		
194	9.558 1407		9.588 5563		0.411 4437	9.969 5844		806	
195	9.558 1602	195	9.588 5787	224	0.411 4213	9.969 5815	29	805	
196	9.558 1798	196	9.588 6012	225	0.411 3988	9.969 5785	30	804	
		195		225			29		
197	9.558 1993		9.588 6237		0.411 3763	9.969 5756		803	
198	9.558 2188	195	9.588 6462	225	0.411 3538	9.969 5727	29	802	
199	9.558 2384	196	9.588 6687	225	0.411 3313	9.969 5697	30	801	
		195		225			29		
.200	9.558 2579		9.588 6912		0.411 3088	9.969 5668		.800	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	226	225
1	22.6	22.5
2	45.2	45.0
3	67.8	67.5
4	90.4	90.0
5	113.0	112.5
6	135.6	135.0
7	158.2	157.5
8	180.8	180.0
9	203.4	202.5

	224
1	22.4
2	44.8
3	67.2
4	89.6
5	112.0
6	134.4
7	156.8
8	179.2
9	201.6

	196	195
1	19.6	19.5
2	39.2	39.0
3	58.8	58.5
4	78.4	78.0
5	98.0	97.5
6	117.6	117.0
7	137.2	136.5
8	156.8	156.0
9	176.4	175.5

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.850 — 68°.800

21°.200 — 21°.250

21°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.558 2579		9.588 6912		0.411 3088	9.969 5668		**.800**	
		196		224			30		
201	9.558 2775		9.588 7136		0.411 2864	9.969 5638		799	
202	9.558 2970	195	9.588 7361	225	0.411 2639	9.969 5609	29	798	
203	9.558 3166	196	9.588 7586	225	0.411 2414	9.969 5580	29	797	
		195		225			30		
204	9.558 3361		9.588 7811		0.411 2189	9.969 5550		796	
205	9.558 3556	195	9.588 8036	225	0.411 1964	9.969 5521	29	795	
206	9.558 3752	196	9.588 8260	224	0.411 1740	9.969 5491	30	794	
		195		225			29		
207	9.558 3947		9.588 8485		0.411 1515	9.969 5462		793	
208	9.558 4142	195	9.588 8710	225	0.411 1290	9.969 5432	30	792	
209	9.558 4338	196	9.588 8935	225	0.411 1065	9.969 5403	29	791	
		195		224			29		
.210	9.558 4533		9.588 9159		0.411 0841	9.969 5374		**.790**	
		195		225			30		
211	9.558 4728		9.588 9384		0.411 0616	9.969 5344		789	
212	9.558 4924	196	9.588 9609	225	0.411 0391	9.969 5315	29	788	
213	9.558 5119	195	9.588 9834	225	0.411 0166	9.969 5285	30	787	
		195		224			29		
214	9.558 5314		9.589 0058		0.410 9942	9.969 5256		786	
215	9.558 5509	195	9.589 0283	225	0.410 9717	9.969 5227	29	785	
216	9.558 5705	196	9.589 0508	225	0.410 9492	9.969 5197	30	784	
		195		224			29		
217	9.558 5900		9.589 0732		0.410 9268	9.969 5168		783	
218	9.558 6095	195	9.589 0957	225	0.410 9043	9.969 5138	30	782	
219	9.558 6290	195	9.589 1182	225	0.410 8818	9.969 5109	29	781	
		196		224			30		
.220	9.558 6486		9.589 1406		0.410 8594	9.969 5079		**.780**	
		195		225			29		
221	9.558 6681		9.589 1631		0.410 8369	9.969 5050		779	
222	9.558 6876	195	9.589 1856	225	0.410 8144	9.969 5021	29	778	
223	9.558 7071	195	9.589 2080	224	0.410 7920	9.969 4991	30	777	
		195		225			29		
224	9.558 7266		9.589 2305		0.410 7695	9.969 4962		776	
225	9.558 7462	196	9.589 2529	224	0.410 7471	9.969 4932	30	775	
226	9.558 7657	195	9.589 2754	225	0.410 7246	9.969 4903	29	774	
		195		225			30		
227	9.558 7852		9.589 2979		0.410 7021	9.969 4873		773	
228	9.558 8047	195	9.589 3203	224	0.410 6797	9.969 4844	29	772	
229	9.558 8242	195	9.589 3428	225	0.410 6572	9.969 4814	30	771	
		195		224			29		
.230	9.558 8437		9.589 3652		0.410 6348	9.969 4785		**.770**	
		195		225			29		
231	9.558 8632		9.589 3877		0.410 6123	9.969 4756		769	
232	9.558 8828	196	9.589 4101	224	0.410 5899	9.969 4726	30	768	
233	9.558 9023	195	9.589 4326	225	0.410 5674	9.969 4697	29	767	
		195		225			30		
234	9.558 9218		9.589 4551		0.410 5449	9.969 4667		766	
235	9.558 9413	195	9.589 4775	224	0.410 5225	9.969 4638	29	765	
236	9.558 9608	195	9.589 5000	225	0.410 5000	9.969 4608	30	764	
		195		224			29		
237	9.558 9803		9.589 5224		0.410 4776	9.969 4579		763	
238	9.558 9998	195	9.589 5449	225	0.410 4551	9.969 4549	30	762	
239	9.559 0193	195	9.589 5673	224	0.410 4327	9.969 4520	29	761	
		195		225			30		
.240	9.559 0388		9.589 5898		0.410 4102	9.969 4490		**.760**	
		195		224			29		
241	9.559 0583		9.589 6122		0.410 3878	9.969 4461		759	
242	9.559 0778	195	9.589 6347	225	0.410 3653	9.969 4432	29	758	
243	9.559 0973	195	9.589 6571	224	0.410 3429	9.969 4402	30	757	
		195		224			29		
244	9.559 1168		9.589 6795		0.410 3205	9.969 4373		756	
245	9.559 1363	195	9.589 7020	225	0.410 2980	9.969 4343	30	755	
246	9.559 1558	195	9.589 7244	224	0.410 2756	9.969 4314	29	754	
		195		225			30		
247	9.559 1753		9.589 7469		0.410 2531	9.969 4284		753	
248	9.559 1948	195	9.589 7693	224	0.410 2307	9.969 4255	29	752	
249	9.559 2143	195	9.589 7918	225	0.410 2082	9.969 4225	30	751	
		195		224			29		
.250	9.559 2338		9.589 8142		0.410 1858	9.969 4196		**.750**	
	cos	d	cotg	d	tang	sin	d	**68°**	P.P.

	225	224
1	22.5	22.4
2	45.0	44.8
3	67.5	67.2
4	90.0	89.6
5	112.5	112.0
6	135.0	134.4
7	157.5	156.8
8	180.0	179.2
9	202.5	201.6

	196
1	19.6
2	39.2
3	58.8
4	78.4
5	98.0
6	117.6
7	137.2
8	156.8
9	176.4

	195
1	19.5
2	39.0
3	58.5
4	78.0
5	97.5
6	117.0
7	136.5
8	156.0
9	175.5

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.800 — 68°.750

21°.250 — 21°.300

21°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.559 2338		9.589 8142		0.410 1858	9.969 4196		**.750**	
		195		224			30		
251	9.559 2533		9.589 8366		0.410 1634	9.969 4166		749	
252	9.559 2728	195	9.589 8591	225	0.410 1409	9.969 4137	29	748	
253	9.559 2922	194	9.589 8815	224	0.410 1185	9.969 4107	30	747	
		195		224			29		
254	9.559 3117		9.589 9039		0.410 0961	9.969 4078		746	
255	9.559 3312	195	9.589 9264	225	0.410 0736	9.969 4048	30	745	
256	9.559 3507	195	9.589 9488	224	0.410 0512	9.969 4019	29	744	
		195		224			30		
257	9.559 3702		9.589 9712		0.410 0288	9.969 3989		743	
258	9.559 3897	195	9.589 9937	225	0.410 0063	9.969 3960	29	742	
259	9.559 4092	195	9.590 0161	224	0.409 9839	9.969 3930	30	741	
		194		224			29		
.260	9.559 4286		9.590 0385		0.409 9615	9.969 3901		**.740**	
		195		225			30		
261	9.559 4481		9.590 0610		0.409 9390	9.969 3871		739	
262	9.559 4676	195	9.590 0834	224	0.409 9166	9.969 3842	29	738	
263	9.559 4871	195	9.590 1058	224	0.409 8942	9.969 3812	30	737	
		195		225			29		
264	9.559 5066		9.590 1283		0.409 8717	9.969 3783		736	
265	9.559 5260	194	9.590 1507	224	0.409 8493	9.969 3753	30	735	
266	9.559 5455	195	9.590 1731	224	0.409 8269	9.969 3724	29	734	
		195		224			30		
267	9.559 5650		9.590 1955		0.409 8045	9.969 3694		733	
268	9.559 5845	195	9.590 2180	225	0.409 7820	9.969 3665	29	732	
269	9.559 6039	194	9.590 2404	224	0.409 7596	9.969 3635	30	731	
		195		224			29		
.270	9.559 6234		9.590 2628		0.409 7372	9.969 3606		**.730**	
		195		224			30		
271	9.559 6429		9.590 2852		0.409 7148	9.969 3576		729	
272	9.559 6623	194	9.590 3076	224	0.409 6924	9.969 3547	29	728	
273	9.559 6818	195	9.590 3301	225	0.409 6699	9.969 3517	30	727	
		195		224			29		
274	9.559 7013		9.590 3525		0.409 6475	9.969 3488		726	
275	9.559 7207	194	9.590 3749	224	0.409 6251	9.969 3458	30	725	
276	9.559 7402	195	9.590 3973	224	0.409 6027	9.969 3429	29	724	
		195		224			30		
277	9.559 7597		9.590 4197		0.409 5803	9.969 3399		723	
278	9.559 7791	194	9.590 4422	225	0.409 5578	9.969 3370	29	722	
279	9.559 7986	195	9.590 4646	224	0.409 5354	9.969 3340	30	721	
		195		224			29		
.280	9.559 8181		9.590 4870		0.409 5130	9.969 3311		**.720**	
		194		224			30		
281	9.559 8375		9.590 5094		0.409 4906	9.969 3281		719	
282	9.559 8570	195	9.590 5318	224	0.409 4682	9.969 3252	29	718	
283	9.559 8764	194	9.590 5542	224	0.409 4458	9.969 3222	30	717	
		195		224			29		
284	9.559 8959		9.590 5766		0.409 4234	9.969 3193		716	
285	9.559 9154	195	9.590 5990	224	0.409 4010	9.969 3163	30	715	
286	9.559 9348	194	9.590 6215	225	0.409 3785	9.969 3134	29	714	
		195		224			30		
287	9.559 9543		9.590 6439		0.409 3561	9.969 3104		713	
288	9.559 9737	194	9.590 6663	224	0.409 3337	9.969 3075	29	712	
289	9.559 9932	195	9.590 6887	224	0.409 3113	9.969 3045	30	711	
		194		224			29		
.290	9.560 0126		9.590 7111		0.409 2889	9.969 3016		**.710**	
		195		224			30		
291	9.560 0321		9.590 7335		0.409 2665	9.969 2986		709	
292	9.560 0515	194	9.590 7559	224	0.409 2441	9.969 2956	30	708	
293	9.560 0710	195	9.590 7783	224	0.409 2217	9.969 2927	29	707	
		194		224			30		
294	9.560 0904		9.590 8007		0.409 1993	9.969 2897		706	
295	9.560 1099	195	9.590 8231	224	0.409 1769	9.969 2868	29	705	
296	9.560 1293	194	9.590 8455	224	0.409 1545	9.969 2838	30	704	
		195		224			29		
297	9.560 1488		9.590 8679		0.409 1321	9.969 2809		703	
298	9.560 1682	194	9.590 8903	224	0.409 1097	9.969 2779	30	702	
299	9.560 1877	195	9.590 9127	224	0.409 0873	9.969 2750	29	701	
		194		224			30		
.300	9.560 2071		9.590 9351		0.409 0649	9.969 2720		**.700**	
	cos	d	cotg	d	tang	sin	d	**68°**	P.P.

	225	224
1	22.5	22.4
2	45.0	44.8
3	67.5	67.2
4	90.0	89.6
5	112.5	112.0
6	135.0	134.4
7	157.5	156.8
8	180.0	179.2
9	202.5	201.6

	195
1	19.5
2	39.0
3	58.5
4	78.0
5	97.5
6	117.0
7	136.5
8	156.0
9	175.5

	194
1	19.4
2	38.8
3	58.2
4	77.6
5	97.0
6	116.4
7	135.8
8	155.2
9	174.6

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.750 — 68°.700

21°.300 — 21°.350

21°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.560 2071		9.590 9351		0.409 0649	9.969 2720		.700	
		194		224			29		
301	9.560 2265		9.590 9575		0.409 0425	9.969 2691		699	
302	9.560 2460	195	9.590 9799	224	0.409 0201	9.969 2661	30	698	
303	9.560 2654	194	9.591 0023	224	0.408 9977	9.969 2631	30	697	
		195		224			29		
304	9.560 2849		9.591 0247		0.408 9753	9.969 2602		696	
305	9.560 3043	194	9.591 0471	224	0.408 9529	9.969 2572	30	695	
306	9.560 3237	194	9.591 0695	224	0.408 9305	9.969 2543	29	694	
		195		223			30		
307	9.560 3432		9.591 0918		0.408 9082	9.969 2513		693	
308	9.560 3626	194	9.591 1142	224	0.408 8858	9.969 2484	29	692	
309	9.560 3820	194	9.591 1366	224	0.408 8634	9.969 2454	30	691	
		195		224			30		
.310	9.560 4015		9.591 1590		0.408 8410	9.969 2424		.690	
		194		224			29		
311	9.560 4209		9.591 1814		0.408 8186	9.969 2395		689	
312	9.560 4403	194	9.591 2038	224	0.408 7962	9.969 2365	30	688	
313	9.560 4597	194	9.591 2262	224	0.408 7738	9.969 2336	29	687	
		195		224			30		
314	9.560 4792		9.591 2486		0.408 7514	9.969 2306		686	
315	9.560 4986	194	9.591 2709	223	0.408 7291	9.969 2277	29	685	
316	9.560 5180	194	9.591 2933	224	0.408 7067	9.969 2247	30	684	
		195		224			30		
317	9.560 5375		9.591 3157		0.408 6843	9.969 2217		683	
318	9.560 5569	194	9.591 3381	224	0.408 6619	9.969 2188	29	682	
319	9.560 5763	194	9.591 3605	224	0.408 6395	9.969 2158	30	681	
		194		224			29		
.320	9.560 5957		9.591 3829		0.408 6171	9.969 2129		.680	
		194		223			30		
321	9.560 6151		9.591 4052		0.408 5948	9.969 2099		679	
322	9.560 6346	195	9.591 4276	224	0.408 5724	9.969 2070	29	678	
323	9.560 6540	194	9.591 4500	224	0.408 5500	9.969 2040	30	677	
		194		224			30		
324	9.560 6734		9.591 4724		0.408 5276	9.969 2010		676	
325	9.560 6928	194	9.591 4947	223	0.408 5053	9.969 1981	29	675	
326	9.560 7122	194	9.591 5171	224	0.408 4829	9.969 1951	30	674	
		194		224			29		
327	9.560 7316		9.591 5395		0.408 4605	9.969 1922		673	
328	9.560 7511	195	9.591 5619	224	0.408 4381	9.969 1892	30	672	
329	9.560 7705	194	9.591 5842	223	0.408 4158	9.969 1862	30	671	
		194		224			29		
.330	9.560 7899		9.591 6066		0.408 3934	9.969 1833		.670	
		194		224			30		
331	9.560 8093		9.591 6290		0.408 3710	9.969 1803		669	
332	9.560 8287	194	9.591 6513	223	0.408 3487	9.969 1774	29	668	
333	9.560 8481	194	9.591 6737	224	0.408 3263	9.969 1744	30	667	
		194		224			30		
334	9.560 8675		9.591 6961		0.408 3039	9.969 1714		666	
335	9.560 8869	194	9.591 7184	223	0.408 2816	9.969 1685	29	665	
336	9.560 9063	194	9.591 7408	224	0.408 2592	9.969 1655	30	664	
		194		224			29		
337	9.560 9257		9.591 7632		0.408 2368	9.969 1626		663	
338	9.560 9451	194	9.591 7855	223	0.408 2145	9.969 1596	30	662	
339	9.560 9645	194	9.591 8079	224	0.408 1921	9.969 1566	30	661	
		194		224			29		
.340	9.560 9839		9.591 8303		0.408 1697	9.969 1537		.660	
		194		223			30		
341	9.561 0033		9.591 8526		0.408 1474	9.969 1507		659	
342	9.561 0227	194	9.591 8750	224	0.408 1250	9.969 1478	29	658	
343	9.561 0421	194	9.591 8974	224	0.408 1026	9.969 1448	30	657	
		194		223			30		
344	9.561 0615		9.591 9197		0.408 0803	9.969 1418		656	
345	9.561 0809	194	9.591 9421	224	0.408 0579	9.969 1389	29	655	
346	9.561 1003	194	9.591 9644	223	0.408 0356	9.969 1359	30	654	
		194		224			30		
347	9.561 1197		9.591 9868		0.408 0132	9.969 1329		653	
348	9.561 1391	194	9.592 0091	223	0.407 9909	9.969 1300	29	652	
349	9.561 1585	194	9.592 0315	224	0.407 9685	9.969 1270	30	651	
		194		224			29		
.350	9.561 1779		9.592 0539		0.407 9461	9.969 1241		.650	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	224	223
1	22.4	22.3
2	44.8	44.6
3	67.2	66.9
4	89.6	89.2
5	112.0	111.5
6	134.4	133.8
7	156.8	156.1
8	179.2	178.4
9	201.6	200.7

	195
1	19.5
2	39.0
3	58.5
4	78.0
5	97.5
6	117.0
7	136.5
8	156.0
9	175.5

	194
1	19.4
2	38.8
3	58.2
4	77.6
5	97.0
6	116.4
7	135.8
8	155.2
9	174.6

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.700 — 68°.650

21°.350 — 21°.400

21°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.561 1779		9.592 0539		0.407 9461	9.969 1241		.650	
		194		223			30		
351	9.561 1973		9.592 0762		0.407 9238	9.969 1211		649	
		194		224			30		
352	9.561 2167		9.592 0986		0.407 9014	9.969 1181		648	
		194		223			29		
353	9.561 2361		9.592 1209		0.407 8791	9.969 1152		647	
		194		224			30		
354	9.561 2555		9.592 1433		0.407 8567	9.969 1122		646	
		194		223			30		
355	9.561 2749		9.592 1656		0.407 8344	9.969 1092		645	
		193		224			29		
356	9.561 2942		9.592 1880		0.407 8120	9.969 1063		644	
		194		223			30		
357	9.561 3136		9.592 2103		0.407 7897	9.969 1033		643	
		194		224			30		
358	9.561 3330		9.592 2327		0.407 7673	9.969 1003		642	
		194		223			29		
359	9.561 3524		9.592 2550		0.407 7450	9.969 0974		641	
		194		224			30		
.360	9.561 3718		9.592 2774		0.407 7226	9.969 0944		.640	
		194		223			29		
361	9.561 3912		9.592 2997		0.407 7003	9.969 0915		639	
		193		223			30		
362	9.561 4105		9.592 3220		0.407 6780	9.969 0885		638	
		194		224			30		
363	9.561 4299		9.592 3444		0.407 6556	9.969 0855		637	
		194		223			29		
364	9.561 4493		9.592 3667		0.407 6333	9.969 0826		636	
		194		224			30		
365	9.561 4687		9.592 3891		0.407 6109	9.969 0796		635	
		193		223			30		
366	9.561 4880		9.592 4114		0.407 5886	9.969 0766		634	
		194		224			29		
367	9.561 5074		9.592 4338		0.407 5662	9.969 0737		633	
		194		223			30		
368	9.561 5268		9.592 4561		0.407 5439	9.969 0707		632	
		194		223			30		
369	9.561 5462		9.592 4784		0.407 5216	9.969 0677		631	
		193		224			29		
.370	9.561 5655		9.592 5008		0.407 4992	9.969 0648		.630	
		194		223			30		
371	9.561 5849		9.592 5231		0.407 4769	9.969 0618		629	
		194		223			30		
372	9.561 6043		9.592 5454		0.407 4546	9.969 0588		628	
		193		224			29		
373	9.561 6236		9.592 5678		0.407 4322	9.969 0559		627	
		194		223			30		
374	9.561 6430		9.592 5901		0.407 4099	9.969 0529		626	
		194		223			30		
375	9.561 6624		9.592 6124		0.407 3876	9.969 0499		625	
		193		224			29		
376	9.561 6817		9.592 6348		0.407 3652	9.969 0470		624	
		194		223			30		
377	9.561 7011		9.592 6571		0.407 3429	9.969 0440		623	
		194		223			30		
378	9.561 7205		9.592 6794		0.407 3206	9.969 0410		622	
		193		224			29		
379	9.561 7398		9.592 7018		0.407 2982	9.969 0381		621	
		194		223			30		
.380	9.561 7592		9.592 7241		0.407 2759	9.969 0351		.620	
		194		223			30		
381	9.561 7786		9.592 7464		0.407 2536	9.969 0321		619	
		193		224			29		
382	9.561 7979		9.592 7688		0.407 2312	9.969 0292		618	
		194		223			30		
383	9.561 8173		9.592 7911		0.407 2089	9.969 0262		617	
		193		223			30		
384	9.561 8366		9.592 8134		0.407 1866	9.969 0232		616	
		194		223			29		
385	9.561 8560		9.592 8357		0.407 1643	9.969 0203		615	
		194		224			30		
386	9.561 8754		9.592 8581		0.407 1419	9.969 0173		614	
		193		223			30		
387	9.561 8947		9.592 8804		0.407 1196	9.969 0143		613	
		194		223			29		
388	9.561 9141		9.592 9027		0.407 0973	9.969 0114		612	
		193		223			30		
389	9.561 9334		9.592 9250		0.407 0750	9.969 0084		611	
		194		224			30		
.390	9.561 9528		9.592 9474		0.407 0526	9.969 0054		.610	
		193		223			30		
391	9.561 9721		9.592 9697		0.407 0303	9.969 0024		609	
		194		223			29		
392	9.561 9915		9.592 9920		0.407 0080	9.968 9995		608	
		193		223			30		
393	9.562 0108		9.593 0143		0.406 9857	9.968 9965		607	
		194		223			30		
394	9.562 0302		9.593 0366		0.406 9634	9.968 9935		606	
		193		223			29		
395	9.562 0495		9.593 0589		0.406 9411	9.968 9906		605	
		194		224			30		
396	9.562 0689		9.593 0813		0.406 9187	9.968 9876		604	
		193		223			30		
397	9.562 0882		9.593 1036		0.406 8964	9.968 9846		603	
		193		223			29		
398	9.562 1075		9.593 1259		0.406 8741	9.968 9817		602	
		194		223			30		
399	9.562 1269		9.593 1482		0.406 8518	9.968 9787		601	
		193		223			30		
.400	9.562 1462		9.593 1705		0.406 8295	9.968 9757		.600	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	224	223
1	22.4	22.3
2	44.8	44.6
3	67.2	66.9
4	89.6	89.2
5	112.0	111.5
6	134.4	133.8
7	156.8	156.1
8	179.2	178.4
9	201.6	200.7

	194
1	19.4
2	38.8
3	58.2
4	77.6
5	97.0
6	116.4
7	135.8
8	155.2
9	174.6

	193
1	19.3
2	38.6
3	57.9
4	77.2
5	96.5
6	115.8
7	135.1
8	154.4
9	173.7

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.650 — 68°.600

21°.400 — 21°.450

21°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.562 1462		9.593 1705		0.406 8295	9.968 9757		.600	
		194		223			30		
401	9.562 1656		9.593 1928		0.406 8072	9.968 9727		599	
402	9.562 1849	193	9.593 2151	223	0.406 7849	9.968 9698	29	598	
403	9.562 2043	194	9.593 2374	223	0.406 7626	9.968 9668	30	597	
		193		224			30		
404	9.562 2236		9.593 2598		0.406 7402	9.968 9638		596	
405	9.562 2429	193	9.593 2821	223	0.406 7179	9.968 9609	29	595	
406	9.562 2623	194	9.593 3044	223	0.406 6956	9.968 9579	30	594	
		193		223			30		
407	9.562 2816		9.593 3267		0.406 6733	9.968 9549		593	
408	9.562 3009	193	9.593 3490	223	0.406 6510	9.968 9519	30	592	
409	9.562 3203	194	9.593 3713	223	0.406 6287	9.968 9490	29	591	
		193		223			30		
.410	9.562 3396		9.593 3936		0.406 6064	9.968 9460		.590	
		193		223			30		
411	9.562 3589		9.593 4159		0.406 5841	9.968 9430		589	
412	9.562 3783	194	9.593 4382	223	0.406 5618	9.968 9401	29	588	
413	9.562 3976	193	9.593 4605	223	0.406 5395	9.968 9371	30	587	
		193		223			30		
414	9.562 4169		9.593 4828		0.406 5172	9.968 9341		586	
415	9.562 4362	193	9.593 5051	223	0.406 4949	9.968 9311	30	585	
416	9.562 4556	194	9.593 5274	223	0.406 4726	9.968 9282	29	584	
		193		223			30		
417	9.562 4749		9.593 5497		0.406 4503	9.968 9252		583	
418	9.562 4942	193	9.593 5720	223	0.406 4280	9.968 9222	30	582	
419	9.562 5135	193	9.593 5943	223	0.406 4057	9.968 9192	30	581	
		194		223			29		
.420	9.562 5329		9.593 6166		0.406 3834	9.968 9163		.580	
		193		223			30		
421	9.562 5522		9.593 6389		0.406 3611	9.968 9133		579	
422	9.562 5715	193	9.593 6612	223	0.406 3388	9.968 9103	30	578	
423	9.562 5908	193	9.593 6835	223	0.406 3165	9.968 9074	29	577	
		193		223			30		
424	9.562 6101		9.593 7058		0.406 2942	9.968 9044		576	
425	9.562 6295	194	9.593 7281	223	0.406 2719	9.968 9014	30	575	
426	9.562 6488	193	9.593 7503	222	0.406 2497	9.968 8984	30	574	
		193		223			29		
427	9.562 6681		9.593 7726		0.406 2274	9.968 8955		573	
428	9.562 6874	193	9.593 7949	223	0.406 2051	9.968 8925	30	572	
429	9.562 7067	193	9.593 8172	223	0.406 1828	9.968 8895	30	571	
		193		223			30		
.430	9.562 7260		9.593 8395		0.406 1605	9.968 8865		.570	
		193		223			29		
431	9.562 7453		9.593 8618		0.406 1382	9.968 8836		569	
432	9.562 7647	194	9.593 8841	223	0.406 1159	9.968 8806	30	568	
433	9.562 7840	193	9.593 9064	223	0.406 0936	9.968 8776	30	567	
		193		222			30		
434	9.562 8033		9.593 9286		0.406 0714	9.968 8746		566	
435	9.562 8226	193	9.593 9509	223	0.406 0491	9.968 8717	29	565	
436	9.562 8419	193	9.593 9732	223	0.406 0268	9.968 8687	30	564	
		193		223			30		
437	9.562 8612		9.593 9955		0.406 0045	9.968 8657		563	
438	9.562 8805	193	9.594 0178	223	0.405 9822	9.968 8627	30	562	
439	9.562 8998	193	9.594 0400	222	0.405 9600	9.968 8598	29	561	
		193		223			30		
.440	9.562 9191		9.594 0623		0.405 9377	9.968 8568		.560	
		193		223			30		
441	9.562 9384		9.594 0846		0.405 9154	9.968 8538		559	
442	9.562 9577	193	9.594 1069	223	0.405 8931	9.968 8508	30	558	
443	9.562 9770	193	9.594 1292	223	0.405 8708	9.968 8478	30	557	
		193		222			29		
444	9.562 9963		9.594 1514		0.405 8486	9.968 8449		556	
445	9.563 0156	193	9.594 1737	223	0.405 8263	9.968 8419	30	555	
446	9.563 0349	193	9.594 1960	223	0.405 8040	9.968 8389	30	554	
		193		223			30		
447	9.563 0542		9.594 2183		0.405 7817	9.968 8359		553	
448	9.563 0735	193	9.594 2405	222	0.405 7595	9.968 8330	29	552	
449	9.563 0928	193	9.594 2628	223	0.405 7372	9.968 8300	30	551	
		193		223			30		
.450	9.563 1121		9.594 2851		0.405 7149	9.968 8270		.550	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	224	223
1	22.4	22.3
2	44.8	44.6
3	67.2	66.9
4	89.6	89.2
5	112.0	111.5
6	134.4	133.8
7	156.8	156.1
8	179.2	178.4
9	201.6	200.7

	222
1	22.2
2	44.4
3	66.6
4	88.8
5	111.0
6	133.2
7	155.4
8	177.6
9	199.8

	194	193
1	19.4	19.3
2	38.8	38.6
3	58.2	57.9
4	77.6	77.2
5	97.0	96.5
6	116.4	115.8
7	135.8	135.1
8	155.2	154.4
9	174.6	173.7

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.600 — 68°.550

21°.450 — 21°.500

21°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.563 1121		9.594 2851		0.405 7149	9.968 8270		·550	
		193		222			30		
451	9.563 1314		9.594 3073		0.405 6927	9.968 8240		549	
452	9.563 1507	193	9.594 3296	223	0.405 6704	9.968 8210	30	548	
453	9.563 1699	192	9.594 3519	223	0.405 6481	9.968 8181	29	547	
		193		222			30		
454	9.563 1892		9.594 3741		0.405 6259	9.968 8151		546	
455	9.563 2085	193	9.594 3964	223	0.405 6036	9.968 8121	30	545	
456	9.563 2278	193	9.594 4187	223	0.405 5813	9.968 8091	30	544	
		193		222			30		
457	9.563 2471		9.594 4409		0.405 5591	9.968 8061		543	
458	9.563 2664	193	9.594 4632	223	0.405 5368	9.968 8032	29	542	
459	9.563 2857	193	9.594 4855	223	0.405 5145	9.968 8002	30	541	
		192		222			30		
·460	9.563 3049		9.594 5077		0.405 4923	9.968 7972		·540	
		193		223			30		
461	9.563 3242		9.594 5300		0.405 4700	9.968 7942		539	
462	9.563 3435	193	9.594 5522	222	0.405 4478	9.968 7913	29	538	
463	9.563 3628	193	9.594 5745	223	0.405 4255	9.968 7883	30	537	
		193		223			30		
464	9.563 3821		9.594 5968		0.405 4032	9.968 7853		536	
465	9.563 4013	192	9.594 6190	222	0.405 3810	9.968 7823	30	535	
466	9.563 4206	193	9.594 6413	223	0.405 3587	9.968 7793	30	534	
		193		222			30		
467	9.563 4399		9.594 6635		0.405 3365	9.968 7763		533	
468	9.563 4592	193	9.594 6858	223	0.405 3142	9.968 7734	29	532	
469	9.563 4784	192	9.594 7080	222	0.405 2920	9.968 7704	30	531	
		193		223			30		
·470	9.563 4977		9.594 7303		0.405 2697	9.968 7674		·530	
		193		223			30		
471	9.563 5170		9.594 7526		0.405 2474	9.968 7644		529	
472	9.563 5363	193	9.594 7748	222	0.405 2252	9.968 7614	30	528	
473	9.563 5555	192	9.594 7971	223	0.405 2029	9.968 7585	29	527	
		193		222			30		
474	9.563 5748		9.594 8193		0.405 1807	9.968 7555		526	
475	9.563 5941	193	9.594 8416	223	0.405 1584	9.968 7525	30	525	
476	9.563 6133	192	9.594 8638	222	0.405 1362	9.968 7495	30	524	
		193		223			30		
477	9.563 6326		9.594 8861		0.405 1139	9.968 7465		523	
478	9.563 6519	193	9.594 9083	222	0.405 0917	9.968 7436	29	522	
479	9.563 6711	192	9.594 9306	223	0.405 0694	9.968 7406	30	521	
		193		222			30		
·480	9.563 6904		9.594 9528		0.405 0472	9.968 7376		·520	
		192		222			30		
481	9.563 7096		9.594 9750		0.405 0250	9.968 7346		519	
482	9.563 7289	193	9.594 9973	223	0.405 0027	9.968 7316	30	518	
483	9.563 7482	193	9.595 0195	222	0.404 9805	9.968 7286	30	517	
		192		223			29		
484	9.563 7674		9.595 0418		0.404 9582	9.968 7257		516	
485	9.563 7867	193	9.595 0640	222	0.404 9360	9.968 7227	30	515	
486	9.563 8059	192	9.595 0863	223	0.404 9137	9.968 7197	30	514	
		193		222			30		
487	9.563 8252		9.595 1085		0.404 8915	9.968 7167		513	
488	9.563 8445	193	9.595 1307	222	0.404 8693	9.968 7137	30	512	
489	9.563 8637	192	9.595 1530	223	0.404 8470	9.968 7107	30	511	
		193		222			29		
·490	9.563 8830		9.595 1752		0.404 8248	9.968 7078		·510	
		192		222			30		
491	9.563 9022		9.595 1974		0.404 8026	9.968 7048		509	
492	9.563 9215	193	9.595 2197	223	0.404 7803	9.968 7018	30	508	
493	9.563 9407	192	9.595 2419	222	0.404 7581	9.968 6988	30	507	
		193		222			30		
494	9.563 9600		9.595 2641		0.404 7359	9.968 6958		506	
495	9.563 9792	192	9.595 2864	223	0.404 7136	9.968 6928	30	505	
496	9.563 9985	193	9.595 3086	222	0.404 6914	9.968 6898	30	504	
		192		222			29		
497	9.564 0177		9.595 3308		0.404 6692	9.968 6869		503	
498	9.564 0369	192	9.595 3531	223	0.404 6469	9.968 6839	30	502	
499	9.564 0562	193	9.595 3753	222	0.404 6247	9.968 6809	30	501	
		192		222			30		
·500	9.564 0754		9.595 3975		0.404 6025	9.968 6779		·500	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	223	222
1	22.3	22.2
2	44.6	44.4
3	66.9	66.6
4	89.2	88.8
5	111.5	111.0
6	133.8	133.2
7	156.1	155.4
8	178.4	177.6
9	200.7	199.8

	193
1	19.3
2	38.6
3	57.9
4	77.2
5	96.5
6	115.8
7	135.1
8	154.4
9	173.7

	192
1	19.2
2	38.4
3	57.6
4	76.8
5	96.0
6	115.2
7	134.4
8	153.6
9	172.8

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.550 — 68°.500

$21^\circ.500 - 21^\circ.550$

21°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.564 0754		9.595 3975		0.404 6025	9.968 6779		**.500**	
		193		223			30		
501	9.564 0947		9.595 4198		0.404 5802	9.968 6749		499	
502	9.564 1139	192	9.595 4420	222	0.404 5580	9.968 6719	30	498	
503	9.564 1332	193	9.595 4642	222	0.404 5358	9.968 6689	30	497	
		192		222			29		
504	9.564 1524		9.595 4864		0.404 5136	9.968 6660		496	
505	9.564 1716	192	9.595 5087	223	0.404 4913	9.968 6630	30	495	
506	9.564 1909	193	9.595 5309	222	0.404 4691	9.968 6600	30	494	
		192		222			30		
507	9.564 2101		9.595 5531		0.404 4469	9.968 6570		493	
508	9.564 2293	192	9.595 5753	222	0.404 4247	9.968 6540	30	492	
509	9.564 2486	193	9.595 5976	223	0.404 4024	9.968 6510	30	491	
		192		222			30		
.510	9.564 2678		9.595 6198		0.404 3802	9.968 6480		**.490**	
		192		222			30		
511	9.564 2870		9.595 6420		0.404 3580	9.968 6450		489	
512	9.564 3063	193	9.595 6642	222	0.404 3358	9.968 6421	29	488	
513	9.564 3255	192	9.595 6864	222	0.404 3136	9.968 6391	30	487	
		192		222			30		
514	9.564 3447		9.595 7086		0.404 2914	9.968 6361		486	
515	9.564 3640	193	9.595 7309	223	0.404 2691	9.968 6331	30	485	
516	9.564 3832	192	9.595 7531	222	0.404 2469	9.968 6301	30	484	
		192		222			30		
517	9.564 4024		9.595 7753		0.404 2247	9.968 6271		483	
518	9.564 4216	192	9.595 7975	222	0.404 2025	9.968 6241	30	482	
519	9.564 4409	193	9.595 8197	222	0.404 1803	9.968 6211	30	481	
		192		222			29		
.520	9.564 4601		9.595 8419		0.404 1581	9.968 6182		**.480**	
		192		222			30		
521	9.564 4793		9.595 8641		0.404 1359	9.968 6152		479	
522	9.564 4985	192	9.595 8864	223	0.404 1136	9.968 6122	30	478	
523	9.564 5178	193	9.595 9086	222	0.404 0914	9.968 6092	30	477	
		192		222			30		
524	9.564 5370		9.595 9308		0.404 0692	9.968 6062		476	
525	9.564 5562	192	9.595 9530	222	0.404 0470	9.968 6032	30	475	
526	9.564 5754	192	9.595 9752	222	0.404 0248	9.968 6002	30	474	
		192		222			30		
527	9.564 5946		9.595 9974		0.404 0026	9.968 5972		473	
528	9.564 6138	192	9.596 0196	222	0.403 9804	9.968 5942	30	472	
529	9.564 6331	193	9.596 0418	222	0.403 9582	9.968 5912	30	471	
		192		222			29		
.530	9.564 6523		9.596 0640		0.403 9360	9.968 5883		**.470**	
		192		222			30		
531	9.564 6715		9.596 0862		0.403 9138	9.968 5853		469	
532	9.564 6907	192	9.596 1084	222	0.403 8916	9.968 5823	30	468	
533	9.564 7099	192	9.596 1306	222	0.403 8694	9.968 5793	30	467	
		192		222			30		
534	9.564 7291		9.596 1528		0.403 8472	9.968 5763		466	
535	9.564 7483	192	9.596 1750	222	0.403 8250	9.968 5733	30	465	
536	9.564 7675	192	9.596 1972	222	0.403 8028	9.968 5703	30	464	
		192		222			30		
537	9.564 7867		9.596 2194		0.403 7806	9.968 5673		463	
538	9.564 8059	192	9.596 2416	222	0.403 7584	9.968 5643	30	462	
539	9.564 8251	192	9.596 2638	222	0.403 7362	9.968 5613	30	461	
		193		222			30		
.540	9.564 8444		9.596 2860		0.403 7140	9.968 5583		**.460**	
		192		222			29		
541	9.564 8636		9.596 3082		0.403 6918	9.968 5554		459	
542	9.564 8828	192	9.596 3304	222	0.403 6696	9.968 5524	30	458	
543	9.564 9020	192	9.596 3526	222	0.403 6474	9.968 5494	30	457	
		192		222			30		
544	9.564 9212		9.596 3748		0.403 6252	9.968 5464		456	
545	9.564 9404	192	9.596 3970	222	0.403 6030	9.968 5434	30	455	
546	9.564 9596	192	9.596 4192	222	0.403 5808	9.968 5404	30	454	
		191		221			30		
547	9.564 9787		9.596 4413		0.403 5587	9.968 5374		453	
548	9.564 9979	192	9.596 4635	222	0.403 5365	9.968 5344	30	452	
549	9.565 0171	192	9.596 4857	222	0.403 5143	9.968 5314	30	451	
		192		222			30		
.550	9.565 0363		9.596 5079		0.403 4921	9.968 5284		**.450**	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	223	222
1	22.3	22.2
2	44.6	44.4
3	66.9	66.6
4	89.2	88.8
5	111.5	111.0
6	133.8	133.2
7	156.1	155.4
8	178.4	177.6
9	200.7	199.8

	221
1	22.1
2	44.2
3	66.3
4	88.4
5	110.5
6	132.6
7	154.7
8	176.8
9	198.9

	193	192
1	19.3	19.2
2	38.6	38.4
3	57.9	57.6
4	77.2	76.8
5	96.5	96.0
6	115.8	115.2
7	135.1	134.4
8	154.4	153.6
9	173.7	172.8

	191
1	19.1
2	38.2
3	57.3
4	76.4
5	95.5
6	114.6
7	133.7
8	152.8
9	171.9

	30	29
1	3.0	2.9
2	6.0	5.8
3	9.0	8.7
4	12.0	11.6
5	15.0	14.5
6	18.0	17.4
7	21.0	20.3
8	24.0	23.2
9	27.0	26.1

$68^\circ.500 - 68^\circ.450$

21°.550 — 21°.600

21°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.565 0363		9.596 5079		0.403 4921	9.968 5284		.450	
		192		222			30		
551	9.565 0555		9.596 5301		0.403 4699	9.968 5254		449	
552	9.565 0747	192	9.596 5523	222	0.403 4477	9.968 5224	30	448	
553	9.565 0939	192	9.596 5745	222	0.403 4255	9.968 5194	30	447	
		192		222			30		
554	9.565 1131		9.596 5967		0.403 4033	9.968 5164		446	
555	9.565 1323	192	9.596 6188	221	0.403 3812	9.968 5135	29	445	
556	9.565 1515	192	9.596 6410	222	0.403 3590	9.968 5105	30	444	
		192		222			30		
557	9.565 1707		9.596 6632		0.403 3368	9.968 5075		443	
558	9.565 1899	192	9.596 6854	222	0.403 3146	9.968 5045	30	442	
559	9.565 2090	191	9.596 7076	222	0.403 2924	9.968 5015	30	441	
		192		221			30		
.560	9.565 2282		9.596 7297		0.403 2703	9.968 4985		.440	
		192		222			30		
561	9.565 2474		9.596 7519		0.403 2481	9.968 4955		439	
562	9.565 2666	192	9.596 7741	222	0.403 2259	9.968 4925	30	438	
563	9.565 2858	192	9.596 7963	222	0.403 2037	9.968 4895	30	437	
		191		221			30		
564	9.565 3049		9.596 8184		0.403 1816	9.968 4865		436	
565	9.565 3241	192	9.596 8406	222	0.403 1594	9.968 4835	30	435	
566	9.565 3433	192	9.596 8628	222	0.403 1372	9.968 4805	30	434	
		192		222			30		
567	9.565 3625		9.596 8850		0.403 1150	9.968 4775		433	
568	9.565 3817	192	9.596 9071	221	0.403 0929	9.968 4745	30	432	
569	9.565 4008	191	9.596 9293	222	0.403 0707	9.968 4715	30	431	
		192		222			30		
.570	9.565 4200		9.596 9515		0.403 0485	9.968 4685		.430	
		192		222			30		
571	9.565 4392		9.596 9737		0.403 0263	9.968 4655		429	
572	9.565 4584	192	9.596 9958	221	0.403 0042	9.968 4625	30	428	
573	9.565 4775	191	9.597 0180	222	0.402 9820	9.968 4595	30	427	
		192		222			30		
574	9.565 4967		9.597 0402		0.402 9598	9.968 4565		426	
575	9.565 5159	192	9.597 0623	221	0.402 9377	9.968 4535	30	425	
576	9.565 5350	191	9.597 0845	222	0.402 9155	9.968 4505	30	424	
		192		222			30		
577	9.565 5542		9.597 1067		0.402 8933	9.968 4475		423	
578	9.565 5734	192	9.597 1288	221	0.402 8712	9.968 4445	30	422	
579	9.565 5925	191	9.597 1510	222	0.402 8490	9.968 4415	30	421	
		192		221			30		
.580	9.565 6117		9.597 1731		0.402 8269	9.968 4385		.420	
		192		222			29		
581	9.565 6309		9.597 1953		0.402 8047	9.968 4356		419	
582	9.565 6500	191	9.597 2175	222	0.402 7825	9.968 4326	30	418	
583	9.565 6692	192	9.597 2396	221	0.402 7604	9.968 4296	30	417	
		191		222			30		
584	9.565 6883		9.597 2618		0.402 7382	9.968 4266		416	
585	9.565 7075	192	9.597 2839	221	0.402 7161	9.968 4236	30	415	
586	9.565 7267	192	9.597 3061	222	0.402 6939	9.968 4206	30	414	
		191		222			30		
587	9.565 7458		9.597 3283		0.402 6717	9.968 4176		413	
588	9.565 7650	192	9.597 3504	221	0.402 6496	9.968 4146	30	412	
589	9.565 7841	191	9.597 3726	222	0.402 6274	9.968 4116	30	411	
		192		221			30		
.590	9.565 8033		9.597 3947		0.402 6053	9.968 4086		.410	
		191		222			30		
591	9.565 8224		9.597 4169		0.402 5831	9.968 4056		409	
592	9.565 8416	192	9.597 4390	221	0.402 5610	9.968 4026	30	408	
593	9.565 8607	191	9.597 4612	222	0.402 5388	9.968 3996	30	407	
		192		221			30		
594	9.565 8799		9.597 4833		0.402 5167	9.968 3966		406	
595	9.565 8990	191	9.597 5055	222	0.402 4945	9.968 3936	30	405	
596	9.565 9182	192	9.597 5276	221	0.402 4724	9.968 3906	30	404	
		191		222			30		
597	9.565 9373		9.597 5498		0.402 4502	9.968 3876		403	
598	9.565 9565	192	9.597 5719	221	0.402 4281	9.968 3846	30	402	
599	9.565 9756	191	9.597 5941	222	0.402 4059	9.968 3816	30	401	
		192		221			30		
.600	9.565 9948		9.597 6162		0.402 3838	9.968 3786		.400	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	222	221
1	22.2	22.1
2	44.4	44.2
3	66.6	66.3
4	88.8	88.4
5	111.0	110.5
6	133.2	132.6
7	155.4	154.7
8	177.6	176.8
9	199.8	198.9

	192
1	19.2
2	38.4
3	57.6
4	76.8
5	96.0
6	115.2
7	134.4
8	153.6
9	172.8

	191
1	19.1
2	38.2
3	57.3
4	76.4
5	95.5
6	114.6
7	133.7
8	152.8
9	171.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

	29
1	2.9
2	5.8
3	8.7
4	11.6
5	14.5
6	17.4
7	20.3
8	23.2
9	26.1

68°.450 — 68°.400

21°.600 — 21°.650

21°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.565 9948		9.597 6162		0.402 3838	9.968 3786		**.400**	
		191		222			30		
601	9.566 0139		9.597 6384		0.402 3616	9.968 3756		399	
602	9.566 0331	192	9.597 6605	221	0.402 3395	9.968 3726	30	398	
603	9.566 0522	191	9.597 6827	222	0.402 3173	9.968 3696	30	397	
		192		221			30		
604	9.566 0714		9.597 7048		0.402 2952	9.968 3666		396	
605	9.566 0905	191	9.597 7269	221	0.402 2731	9.968 3636	30	395	
606	9.566 1096	191	9.597 7491	222	0.402 2509	9.968 3605	31	394	
		192		221			30		
607	9.566 1288		9.597 7712		0.402 2288	9.968 3575		393	
608	9.566 1479	191	9.597 7934	222	0.402 2066	9.968 3545	30	392	
609	9.566 1670	191	9.597 8155	221	0.402 1845	9.968 3515	30	391	
		192		221			30		
.610	9.566 1862		9.597 8376		0.402 1624	9.968 3485		**.390**	
		191		222			30		
611	9.566 2053		9.597 8598		0.402 1402	9.968 3455		389	
612	9.566 2244	191	9.597 8819	221	0.402 1181	9.968 3425	30	388	
613	9.566 2436	192	9.597 9040	221	0.402 0960	9.968 3395	30	387	
		191		222			30		
614	9.566 2627		9.597 9262		0.402 0738	9.968 3365		386	
615	9.566 2818	191	9.597 9483	221	0.402 0517	9.968 3335	30	385	
616	9.566 3010	192	9.597 9705	222	0.402 0295	9.968 3305	30	384	
		191		221			30		
617	9.566 3201		9.597 9926		0.402 0074	9.968 3275		383	
618	9.566 3392	191	9.598 0147	221	0.401 9853	9.968 3245	30	382	
619	9.566 3584	192	9.598 0368	221	0.401 9632	9.968 3215	30	381	
		191		222			30		
.620	9.566 3775		9.598 0590		0.401 9410	9.968 3185		**.380**	
		191		221			30		
621	9.566 3966		9.598 0811		0.401 9189	9.968 3155		379	
622	9.566 4157	191	9.598 1032	221	0.401 8968	9.968 3125	30	378	
623	9.566 4349	192	9.598 1254	222	0.401 8746	9.968 3095	30	377	
		191		221			30		
624	9.566 4540		9.598 1475		0.401 8525	9.968 3065		376	
625	9.566 4731	191	9.598 1696	221	0.401 8304	9.968 3035	30	375	
626	9.566 4922	191	9.598 1917	221	0.401 8083	9.968 3005	30	374	
		191		222			30		
627	9.566 5113		9.598 2139		0.401 7861	9.968 2975		373	
628	9.566 5304	191	9.598 2360	221	0.401 7640	9.968 2945	30	372	
629	9.566 5496	192	9.598 2581	221	0.401 7419	9.968 2915	30	371	
		191		221			30		
.630	9.566 5687		9.598 2802		0.401 7198	9.968 2885		**.370**	
		191		221			30		
631	9.566 5878		9.598 3023		0.401 6977	9.968 2855		369	
632	9.566 6069	191	9.598 3245	222	0.401 6755	9.968 2824	31	368	
633	9.566 6260	191	9.598 3466	221	0.401 6534	9.968 2794	30	367	
		191		221			30		
634	9.566 6451		9.598 3687		0.401 6313	9.968 2764		366	
635	9.566 6642	191	9.598 3908	221	0.401 6092	9.968 2734	30	365	
636	9.566 6834	192	9.598 4129	221	0.401 5871	9.968 2704	30	364	
		191		222			30		
637	9.566 7025		9.598 4351		0.401 5649	9.968 2674		363	
638	9.566 7216	191	9.598 4572	221	0.401 5428	9.968 2644	30	362	
639	9.566 7407	191	9.598 4793	221	0.401 5207	9.968 2614	30	361	
		191		221			30		
.640	9.566 7598		9.598 5014		0.401 4986	9.968 2584		**.360**	
		191		221			30		
641	9.566 7789		9.598 5235		0.401 4765	9.968 2554		359	
642	9.566 7980	191	9.598 5456	221	0.401 4544	9.968 2524	30	358	
643	9.566 8171	191	9.598 5677	221	0.401 4323	9.968 2494	30	357	
		191		221			30		
644	9.566 8362		9.598 5898		0.401 4102	9.968 2464		356	
645	9.566 8553	191	9.598 6119	221	0.401 3881	9.968 2434	30	355	
646	9.566 8744	191	9.598 6341	222	0.401 3659	9.968 2403	31	354	
		191		221			30		
647	9.566 8935		9.598 6562		0.401 3438	9.968 2373		353	
648	9.566 9126	191	9.598 6783	221	0.401 3217	9.968 2343	30	352	
649	9.566 9317	191	9.598 7004	221	0.401 2996	9.968 2313	30	351	
		191		221			30		
.650	9.566 9508		9.598 7225		0.401 2775	9.968 2283		**.350**	
	cos	d	cotg	d	tang	sin	d	**68°**	P.P.

	222	221
1	22.2	22.1
2	44.4	44.2
3	66.6	66.3
4	88.8	88.4
5	111.0	110.5
6	133.2	132.6
7	155.4	154.7
8	177.6	176.8
9	199.8	198.9

	192
1	19.2
2	38.4
3	57.6
4	76.8
5	96.0
6	115.2
7	134.4
8	153.6
9	172.8

	191
1	19.1
2	38.2
3	57.3
4	76.4
5	95.5
6	114.6
7	133.7
8	152.8
9	171.9

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

68°.400 — 68°.350

21°.650 — 21°.700

21°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.566 9508		9.598 7225		0.401 2775	9.968 2283		**.350**	
		191		221			30		
651	9.566 9699		9.598 7446		0.401 2554	9.968 2253		349	
652	9.566 9890	191	9.598 7667	221	0.401 2333	9.968 2223	30	348	
653	9.567 0081	191	9.598 7888	221	0.401 2112	9.968 2193	30	347	
		191		221			30		
654	9.567 0272		9.598 8109		0.401 1891	9.968 2163		346	
655	9.567 0463	191	9.598 8330	221	0.401 1670	9.968 2133	30	345	
656	9.567 0654	191	9.598 8551	221	0.401 1449	9.968 2103	30	344	
		190		221			31		
657	9.567 0844		9.598 8772		0.401 1228	9.968 2072		343	
658	9.567 1035	191	9.598 8993	221	0.401 1007	9.968 2042	30	342	
659	9.567 1226	191	9.598 9214	221	0.401 0786	9.968 2012	30	341	
		191		221			30		
.660	9.567 1417		9.598 9435		0.401 0565	9.968 1982		**.340**	
		191		221			30		
661	9.567 1608		9.598 9656		0.401 0344	9.968 1952		339	
662	9.567 1799	191	9.598 9877	221	0.401 0123	9.968 1922	30	338	
663	9.567 1990	191	9.599 0098	221	0.400 9902	9.968 1892	30	337	
		190		221			30		
664	9.567 2180		9.599 0319		0.400 9681	9.968 1862		336	
665	9.567 2371	191	9.599 0540	221	0.400 9460	9.968 1832	30	335	
666	9.567 2562	191	9.599 0760	220	0.400 9240	9.968 1802	30	334	
		191		221			31		
667	9.567 2753		9.599 0981		0.400 9019	9.968 1771		333	
668	9.567 2944	191	9.599 1202	221	0.400 8798	9.968 1741	30	332	
669	9.567 3134	190	9.599 1423	221	0.400 8577	9.968 1711	30	331	
		191		221			30		
.670	9.567 3325		9.599 1644		0.400 8356	9.968 1681		**.330**	
		191		221			30		
671	9.567 3516		9.599 1865		0.400 8135	9.968 1651		329	
672	9.567 3707	191	9.599 2086	221	0.400 7914	9.968 1621	30	328	
673	9.567 3897	190	9.599 2307	221	0.400 7693	9.968 1591	30	327	
		191		221			30		
674	9.567 4088		9.599 2528		0.400 7472	9.968 1561		326	
675	9.567 4279	191	9.599 2748	220	0.400 7252	9.968 1530	31	325	
676	9.567 4470	191	9.599 2969	221	0.400 7031	9.968 1500	30	324	
		190		221			30		
677	9.567 4660		9.599 3190		0.400 6810	9.968 1470		323	
678	9.567 4851	191	9.599 3411	221	0.400 6589	9.968 1440	30	322	
679	9.567 5042	191	9.599 3632	221	0.400 6368	9.968 1410	30	321	
		190		221			30		
.680	9.567 5232		9.599 3853		0.400 6147	9.968 1380		**.320**	
		191		220			30		
681	9.567 5423		9.599 4073		0.400 5927	9.968 1350		319	
682	9.567 5614	191	9.599 4294	221	0.400 5706	9.968 1320	30	318	
683	9.567 5804	190	9.599 4515	221	0.400 5485	9.968 1289	31	317	
		191		221			30		
684	9.567 5995		9.599 4736		0.400 5264	9.968 1259		316	
685	9.567 6186	191	9.599 4956	220	0.400 5044	9.968 1229	30	315	
686	9.567 6376	190	9.599 5177	221	0.400 4823	9.968 1199	30	314	
		191		221			30		
687	9.567 6567		9.599 5398		0.400 4602	9.968 1169		313	
688	9.567 6757	190	9.599 5619	221	0.400 4381	9.968 1139	30	312	
689	9.567 6948	191	9.599 5839	220	0.400 4161	9.968 1109	30	311	
		191		221			31		
.690	9.567 7139		9.599 6060		0.400 3940	9.968 1078		**.310**	
		190		221			30		
691	9.567 7329		9.599 6281		0.400 3719	9.968 1048		309	
692	9.567 7520	191	9.599 6502	221	0.400 3498	9.968 1018	30	308	
693	9.567 7710	190	9.599 6722	220	0.400 3278	9.968 0988	30	307	
		191		221			30		
694	9.567 7901		9.599 6943		0.400 3057	9.968 0958		306	
695	9.567 8091	190	9.599 7164	221	0.400 2836	9.968 0928	30	305	
696	9.567 8282	191	9.599 7384	220	0.400 2616	9.968 0897	31	304	
		190		221			30		
697	9.567 8472		9.599 7605		0.400 2395	9.968 0867		303	
698	9.567 8663	191	9.599 7826	221	0.400 2174	9.968 0837	30	302	
699	9.567 8853	190	9.599 8046	220	0.400 1954	9.968 0807	30	301	
		191		221			30		
.700	9.567 9044		9.599 8267		0.400 1733	9.968 0777		**.300**	
	cos	d	cotg	d	tang	sin	d	**68°**	P.P.

	221	220
1	22.1	22.0
2	44.2	44.0
3	66.3	66.0
4	88.4	88.0
5	110.5	110.0
6	132.6	132.0
7	154.7	154.0
8	176.8	176.0
9	198.9	198.0

	191
1	19.1
2	38.2
3	57.3
4	76.4
5	95.5
6	114.6
7	133.7
8	152.8
9	171.9

	190
1	19.0
2	38.0
3	57.0
4	76.0
5	95.0
6	114.0
7	133.0
8	152.0
9	171.0

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

68°.350 — 68°.300

21°.700 — 21°.750

21°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.567 9044		9.599 8267		0.400 1733	9.968 0777		.300	
		190		221			30		
701	9.567 9234		9.599 8488		0.400 1512	9.968 0747		299	
		191		220			30		
702	9.567 9425		9.599 8708		0.400 1292	9.968 0717		298	
		190		221			31		
703	9.567 9615		9.599 8929		0.400 1071	9.968 0686		297	
		191		220			30		
704	9.567 9806		9.599 9149		0.400 0851	9.968 0656		296	
		190		221			30		
705	9.567 9996		9.599 9370		0.400 0630	9.968 0626		295	
		190		221			30		
706	9.568 0186		9.599 9591		0.400 0409	9.968 0596		294	
		191		220			30		
707	9.568 0377		9.599 9811		0.400 0189	9.968 0566		293	
		190		221			31		
708	9.568 0567		9.600 0032		0.399 9968	9.968 0535		292	
		191		220			30		
709	9.568 0758		9.600 0252		0.399 9748	9.968 0505		291	
		190		221			30		
.710	9.568 0948		9.600 0473		0.399 9527	9.968 0475		.290	
		190		220			30		
711	9.568 1138		9.600 0693		0.399 9307	9.968 0445		289	
		191		221			30		
712	9.568 1329		9.600 0914		0.399 9086	9.968 0415		288	
		190		220			30		
713	9.568 1519		9.600 1134		0.399 8866	9.968 0385		287	
		190		221			31		
714	9.568 1709		9.600 1355		0.399 8645	9.968 0354		286	
		191		221			30		
715	9.568 1900		9.600 1576		0.399 8424	9.968 0324		285	
		190		220			30		
716	9.568 2090		9.600 1796		0.399 8204	9.968 0294		284	
		190		221			30		
717	9.568 2280		9.600 2017		0.399 7983	9.968 0264		283	
		191		220			30		
718	9.568 2471		9.600 2237		0.399 7763	9.968 0234		282	
		190		221			31		
719	9.568 2661		9.600 2458		0.399 7542	9.968 0203		281	
		190		220			30		
.720	9.568 2851		9.600 2678		0.399 7322	9.968 0173		.280	
		191		220			30		
721	9.568 3042		9.600 2898		0.399 7102	9.968 0143		279	
		190		221			30		
722	9.568 3232		9.600 3119		0.399 6881	9.968 0113		278	
		190		220			30		
723	9.568 3422		9.600 3339		0.399 6661	9.968 0083		277	
		190		221			31		
724	9.568 3612		9.600 3560		0.399 6440	9.968 0052		276	
		191		220			30		
725	9.568 3803		9.600 3780		0.399 6220	9.968 0022		275	
		190		221			30		
726	9.568 3993		9.600 4001		0.399 5999	9.967 9992		274	
		190		220			30		
727	9.568 4183		9.600 4221		0.399 5779	9.967 9962		273	
		190		221			30		
728	9.568 4373		9.600 4442		0.399 5558	9.967 9932		272	
		190		220			31		
729	9.568 4563		9.600 4662		0.399 5338	9.967 9901		271	
		191		220			30		
.730	9.568 4754		9.600 4882		0.399 5118	9.967 9871		.270	
		190		221			30		
731	9.568 4944		9.600 5103		0.399 4897	9.967 9841		269	
		190		220			30		
732	9.568 5134		9.600 5323		0.399 4677	9.967 9811		268	
		190		221			30		
733	9.568 5324		9.600 5544		0.399 4456	9.967 9781		267	
		190		220			31		
734	9.568 5514		9.600 5764		0.399 4236	9.967 9750		266	
		190		220			30		
735	9.568 5704		9.600 5984		0.399 4016	9.967 9720		265	
		191		221			30		
736	9.568 5895		9.600 6205		0.399 3795	9.967 9690		264	
		190		220			30		
737	9.568 6085		9.600 6425		0.399 3575	9.967 9660		263	
		190		220			30		
738	9.568 6275		9.600 6645		0.399 3355	9.967 9630		262	
		190		221			31		
739	9.568 6465		9.600 6866		0.399 3134	9.967 9599		261	
		190		220			30		
.740	9.568 6655		9.600 7086		0.399 2914	9.967 9569		.260	
		190		220			30		
741	9.568 6845		9.600 7306		0.399 2694	9.967 9539		259	
		190		220			30		
742	9.568 7035		9.600 7526		0.399 2474	9.967 9509		258	
		190		221			31		
743	9.568 7225		9.600 7747		0.399 2253	9.967 9478		257	
		190		220			30		
744	9.568 7415		9.600 7967		0.399 2033	9.967 9448		256	
		190		220			30		
745	9.568 7605		9.600 8187		0.399 1813	9.967 9418		255	
		190		221			30		
746	9.568 7795		9.600 8408		0.399 1592	9.967 9388		254	
		190		220			31		
747	9.568 7985		9.600 8628		0.399 1372	9.967 9357		253	
		190		220			30		
748	9.568 8175		9.600 8848		0.399 1152	9.967 9327		252	
		190		220			30		
749	9.568 8365		9.600 9068		0.399 0932	9.967 9297		251	
		190		221			30		
.750	9.568 8555		9.600 9289		0.399 0711	9.967 9267		.250	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	221	220
1	22.1	22.0
2	44.2	44.0
3	66.3	66.0
4	88.4	88.0
5	110.5	110.0
6	132.6	132.0
7	154.7	154.0
8	176.8	176.0
9	198.9	198.0

	191
1	19.1
2	38.2
3	57.3
4	76.4
5	95.5
6	114.6
7	133.7
8	152.8
9	171.9

	190
1	19.0
2	38.0
3	57.0
4	76.0
5	95.0
6	114.0
7	133.0
8	152.0
9	171.0

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

68°.300 — 68°.250

21°.750 — 21°.800

21°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.568 8555		9.600 9289		0.399 0711	9.967 9267		.250	
		190		220			31		
751	9.568 8745		9.600 9509		0.399 0491	9.967 9236		249	
752	9.568 8935	190	9.600 9729	220	0.399 0271	9.967 9206	30	248	
753	9.568 9125	190	9.600 9949	220	0.399 0051	9.967 9176	30	247	
		190		220			30		
754	9.568 9315		9.601 0169		0.398 9831	9.967 9146		246	
755	9.568 9505	190	9.601 0390	221	0.398 9610	9.967 9116	30	245	
756	9.568 9695	190	9.601 0610	220	0.398 9390	9.967 9085	31	244	
		190		220			30		
757	9.568 9885		9.601 0830		0.398 9170	9.967 9055		243	
758	9.569 0075	190	9.601 1050	220	0.398 8950	9.967 9025	30	242	
759	9.569 0265	190	9.601 1270	220	0.398 8730	9.967 8995	30	241	
		190		221			31		
.760	9.569 0455		9.601 1491		0.398 8509	9.967 8964		.240	
		190		220			30		
761	9.569 0645		9.601 1711		0.398 8289	9.967 8934		239	
762	9.569 0835	190	9.601 1931	220	0.398 8069	9.967 8904	30	238	
763	9.569 1024	189	9.601 2151	220	0.398 7849	9.967 8873	31	237	
		190		220			30		
764	9.569 1214		9.601 2371		0.398 7629	9.967 8843		236	
765	9.569 1404	190	9.601 2591	220	0.398 7409	9.967 8813	30	235	
766	9.569 1594	190	9.601 2811	220	0.398 7189	9.967 8783	30	234	
		190		220			31		
767	9.569 1784		9.601 3031		0.398 6969	9.967 8752		233	
768	9.569 1974	190	9.601 3251	220	0.398 6749	9.967 8722	30	232	
769	9.569 2163	189	9.601 3472	221	0.398 6528	9.967 8692	30	231	
		190		220			30		
.770	9.569 2353		9.601 3692		0.398 6308	9.967 8662		.230	
		190		220			31		
771	9.569 2543		9.601 3912		0.398 6088	9.967 8631		229	
772	9.569 2733	190	9.601 4132	220	0.398 5868	9.967 8601	30	228	
773	9.569 2923	190	9.601 4352	220	0.398 5648	9.967 8571	30	227	
		189		220			30		
774	9.569 3112		9.601 4572		0.398 5428	9.967 8541		226	
775	9.569 3302	190	9.601 4792	220	0.398 5208	9.967 8510	31	225	
776	9.569 3492	190	9.601 5012	220	0.398 4988	9.967 8480	30	224	
		190		220			30		
777	9.569 3682		9.601 5232		0.398 4768	9.967 8450		223	
778	9.569 3871	189	9.601 5452	220	0.398 4548	9.967 8419	31	222	
779	9.569 4061	190	9.601 5672	220	0.398 4328	9.967 8389	30	221	
		190		220			30		
.780	9.569 4251		9.601 5892		0.398 4108	9.967 8359		.220	
		189		220			30		
781	9.569 4440		9.601 6112		0.398 3888	9.967 8329		219	
782	9.569 4630	190	9.601 6332	220	0.398 3668	9.967 8298	31	218	
783	9.569 4820	190	9.601 6552	220	0.398 3448	9.967 8268	30	217	
		189		220			30		
784	9.569 5009		9.601 6772		0.398 3228	9.967 8238		216	
785	9.569 5199	190	9.601 6992	220	0.398 3008	9.967 8207	31	215	
786	9.569 5389	190	9.601 7212	220	0.398 2788	9.967 8177	30	214	
		189		220			30		
787	9.569 5578		9.601 7432		0.398 2568	9.967 8147		213	
788	9.569 5768	190	9.601 7652	220	0.398 2348	9.967 8116	31	212	
789	9.569 5958	190	9.601 7871	219	0.398 2129	9.967 8086	30	211	
		189		220			30		
.790	9.569 6147		9.601 8091		0.398 1909	9.967 8056		.210	
		190		220			30		
791	9.569 6337		9.601 8311		0.398 1689	9.967 8026		209	
792	9.569 6526	189	9.601 8531	220	0.398 1469	9.967 7995	31	208	
793	9.569 6716	190	9.601 8751	220	0.398 1249	9.967 7965	30	207	
		190		220			30		
794	9.569 6906		9.601 8971		0.398 1029	9.967 7935		206	
795	9.569 7095	189	9.601 9191	220	0.398 0809	9.967 7904	31	205	
796	9.569 7285	190	9.601 9411	220	0.398 0589	9.967 7874	30	204	
		189		220			30		
797	9.569 7474		9.601 9631		0.398 0369	9.967 7844		203	
798	9.569 7664	190	9.601 9850	219	0.398 0150	9.967 7813	31	202	
799	9.569 7853	189	9.602 0070	220	0.397 9930	9.967 7783	30	201	
		190		220			30		
.800	9.569 8043		9.602 0290		0.397 9710	9.967 7753		.200	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	221	220
1	22.1	22.0
2	44.2	44.0
3	66.3	66.0
4	88.4	88.0
5	110.5	110.0
6	132.6	132.0
7	154.7	154.0
8	176.8	176.0
9	198.9	198.0

	219
1	21.9
2	43.8
3	65.7
4	87.6
5	109.5
6	131.4
7	153.3
8	175.2
9	197.1

	190	189
1	19.0	18.9
2	38.0	37.8
3	57.0	56.7
4	76.0	75.6
5	95.0	94.5
6	114.0	113.4
7	133.0	132.3
8	152.0	151.2
9	171.0	170.1

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

68°.250 — 68°.200

21°.800 — 21°.850

21°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.569 8043		9.602 0290		0.397 9710	9.967 7753		.200	
		189		220			31		
801	9.569 8232		9.602 0510		0.397 9490	9.967 7722		199	
802	9.569 8422	190	9.602 0730	220	0.397 9270	9.967 7692	30	198	
803	9.569 8611	189	9.602 0950	220	0.397 9050	9.967 7662	30	197	
		190		219			30		
804	9.569 8801		9.602 1169		0.397 8831	9.967 7632		196	
805	9.569 8990	189	9.602 1389	220	0.397 8611	9.967 7601	31	195	
806	9.569 9180	190	9.602 1609	220	0.397 8391	9.967 7571	30	194	
		189		220			30		
807	9.569 9369		9.602 1829		0.397 8171	9.967 7541		193	
808	9.569 9559	190	9.602 2048	219	0.397 7952	9.967 7510	31	192	
809	9.569 9748	189	9.602 2268	220	0.397 7732	9.967 7480	30	191	
		189		220			30		
.810	9.569 9937		9.602 2488		0.397 7512	9.967 7450		.190	
		190		220			31		
811	9.570 0127		9.602 2708		0.397 7292	9.967 7419		189	
812	9.570 0316	189	9.602 2927	219	0.397 7073	9.967 7389	30	188	
813	9.570 0506	190	9.602 3147	220	0.397 6853	9.967 7359	30	187	
		189		220			31		
814	9.570 0695		9.602 3367		0.397 6633	9.967 7328		186	
815	9.570 0884	189	9.602 3587	220	0.397 6413	9.967 7298	30	185	
816	9.570 1074	190	9.602 3806	219	0.397 6194	9.967 7268	30	184	
		189		220			31		
817	9.570 1263		9.602 4026		0.397 5974	9.967 7237		183	
818	9.570 1452	189	9.602 4246	220	0.397 5754	9.967 7207	30	182	
819	9.570 1642	190	9.602 4465	219	0.397 5535	9.967 7176	31	181	
		189		220			30		
.820	9.570 1831		9.602 4685		0.397 5315	9.967 7146		.180	
		189		220			30		
821	9.570 2020		9.602 4905		0.397 5095	9.967 7116		179	
822	9.570 2210	190	9.602 5124	219	0.397 4876	9.967 7085	31	178	
823	9.570 2399	189	9.602 5344	220	0.397 4656	9.967 7055	30	177	
		189		220			30		
824	9.570 2588		9.602 5564		0.397 4436	9.967 7025		176	
825	9.570 2778	190	9.602 5783	219	0.397 4217	9.967 6994	31	175	
826	9.570 2967	189	9.602 6003	220	0.397 3997	9.967 6964	30	174	
		189		219			30		
827	9.570 3156		9.602 6222		0.397 3778	9.967 6934		173	
828	9.570 3345	189	9.602 6442	220	0.397 3558	9.967 6903	31	172	
829	9.570 3535	190	9.602 6662	220	0.397 3338	9.967 6873	30	171	
		189		219			30		
.830	9.570 3724		9.602 6881		0.397 3119	9.967 6843		.170	
		189		220			31		
831	9.570 3913		9.602 7101		0.397 2899	9.967 6812		169	
832	9.570 4102	189	9.602 7320	219	0.397 2680	9.967 6782	30	168	
833	9.570 4291	189	9.602 7540	220	0.397 2460	9.967 6751	31	167	
		190		220			30		
834	9.570 4481		9.602 7760		0.397 2240	9.967 6721		166	
835	9.570 4670	189	9.602 7979	219	0.397 2021	9.967 6691	30	165	
836	9.570 4859	189	9.602 8199	220	0.397 1801	9.967 6660	31	164	
		189		219			30		
837	9.570 5048		9.602 8418		0.397 1582	9.967 6630		163	
838	9.570 5237	189	9.602 8638	220	0.397 1362	9.967 6600	30	162	
839	9.570 5426	189	9.602 8857	219	0.397 1143	9.967 6569	31	161	
		190		220			30		
.840	9.570 5616		9.602 9077		0.397 0923	9.967 6539		.160	
		189		219			31		
841	9.570 5805		9.602 9296		0.397 0704	9.967 6508		159	
842	9.570 5994	189	9.602 9516	220	0.397 0484	9.967 6478	30	158	
843	9.570 6183	189	9.602 9735	219	0.397 0265	9.967 6448	30	157	
		189		220			31		
844	9.570 6372		9.602 9955		0.397 0045	9.967 6417		156	
845	9.570 6561	189	9.603 0174	219	0.396 9826	9.967 6387	30	155	
846	9.570 6750	189	9.603 0394	220	0.396 9606	9.967 6357	30	154	
		189		219			31		
847	9.570 6939		9.603 0613		0.396 9387	9.967 6326		153	
848	9.570 7128	189	9.603 0833	220	0.396 9167	9.967 6296	30	152	
849	9.570 7317	189	9.603 1052	219	0.396 8948	9.967 6265	31	151	
		189		219			30		
.850	9.570 7506		9.603 1271		0.396 8729	9.967 6235		.150	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	220	219
1	22.0	21.9
2	44.0	43.8
3	66.0	65.7
4	88.0	87.6
5	110.0	109.5
6	132.0	131.4
7	154.0	153.3
8	176.0	175.2
9	198.0	197.1

	190
1	19.0
2	38.0
3	57.0
4	76.0
5	95.0
6	114.0
7	133.0
8	152.0
9	171.0

	189
1	18.9
2	37.8
3	56.7
4	75.6
5	94.5
6	113.4
7	132.3
8	151.2
9	170.1

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

68°.200 — 68°.150

$21^\circ.850 - 21^\circ.900$

21°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.570 7506		9.603 1271		0.396 8729	9.967 6235		.150	
		189		220			30		
851	9.570 7695		9.603 1491		0.396 8509	9.967 6205		149	
852	9.570 7884	189	9.603 1710	219	0.396 8290	9.967 6174	31	148	
853	9.570 8073	189	9.603 1930	220	0.396 8070	9.967 6144	30	147	
		189		219			31		
854	9.570 8262		9.603 2149		0.396 7851	9.967 6113		146	
855	9.570 8451	189	9.603 2368	219	0.396 7632	9.967 6083	30	145	
856	9.570 8640	189	9.603 2588	220	0.396 7412	9.967 6053	30	144	
		189		219			31		
857	9.570 8829		9.603 2807		0.396 7193	9.967 6022		143	
858	9.570 9018	189	9.603 3027	220	0.396 6973	9.967 5992	30	142	
859	9.570 9207	189	9.603 3246	219	0.396 6754	9.967 5961	31	141	
		189		219			30		
.860	9.570 9396		9.603 3465		0.396 6535	9.967 5931		.140	
		189		220			30		
861	9.570 9585		9.603 3685		0.396 6315	9.967 5901		139	
862	9.570 9774	189	9.603 3904	219	0.396 6096	9.967 5870	31	138	
863	9.570 9963	189	9.603 4123	219	0.396 5877	9.967 5840	30	137	
		189		220			31		
864	9.571 0152		9.603 4343		0.396 5657	9.967 5809		136	
865	9.571 0341	189	9.603 4562	219	0.396 5438	9.967 5779	30	135	
866	9.571 0530	189	9.603 4781	219	0.396 5219	9.967 5749	30	134	
		189		219			31		
867	9.571 0719		9.603 5000		0.396 5000	9.967 5718		133	
868	9.571 0907	188	9.603 5220	220	0.396 4780	9.967 5688	30	132	
869	9.571 1096	189	9.603 5439	219	0.396 4561	9.967 5657	31	131	
		189		219			30		
.870	9.571 1285		9.603 5658		0.396 4342	9.967 5627		.130	
		189		220			31		
871	9.571 1474		9.603 5878		0.396 4122	9.967 5596		129	
872	9.571 1663	189	9.603 6097	219	0.396 3903	9.967 5566	30	128	
873	9.571 1852	189	9.603 6316	219	0.396 3684	9.967 5536	30	127	
		188		219			31		
874	9.571 2040		9.603 6535		0.396 3465	9.967 5505		126	
875	9.571 2229	189	9.603 6755	220	0.396 3245	9.967 5475	30	125	
876	9.571 2418	189	9.603 6974	219	0.396 3026	9.967 5444	31	124	
		189		219			30		
877	9.571 2607		9.603 7193		0.396 2807	9.967 5414		123	
878	9.571 2796	189	9.603 7412	219	0.396 2588	9.967 5383	31	122	
879	9.571 2984	188	9.603 7631	219	0.396 2369	9.967 5353	30	121	
		189		220			31		
.880	9.571 3173		9.603 7851		0.396 2149	9.967 5322		.120	
		189		219			30		
881	9.571 3362		9.603 8070		0.396 1930	9.967 5292		119	
882	9.571 3551	189	9.603 8289	219	0.396 1711	9.967 5262	30	118	
883	9.571 3739	188	9.603 8508	219	0.396 1492	9.967 5231	31	117	
		189		219			30		
884	9.571 3928		9.603 8727		0.396 1273	9.967 5201		116	
885	9.571 4117	189	9.603 8946	219	0.396 1054	9.967 5170	31	115	
886	9.571 4305	188	9.603 9166	220	0.396 0834	9.967 5140	30	114	
		189		219			31		
887	9.571 4494		9.603 9385		0.396 0615	9.967 5109		113	
888	9.571 4683	189	9.603 9604	219	0.396 0396	9.967 5079	30	112	
889	9.571 4871	188	9.603 9823	219	0.396 0177	9.967 5048	31	111	
		189		219			30		
.890	9.571 5060		9.604 0042		0.395 9958	9.967 5018		.110	
		189		219			30		
891	9.571 5249		9.604 0261		0.395 9739	9.967 4988		109	
892	9.571 5437	188	9.604 0480	219	0.395 9520	9.967 4957	31	108	
893	9.571 5626	189	9.604 0699	219	0.395 9301	9.967 4927	30	107	
		189		219			31		
894	9.571 5815		9.604 0918		0.395 9082	9.967 4896		106	
895	9.571 6003	188	9.604 1137	219	0.395 8863	9.967 4866	30	105	
896	9.571 6192	189	9.604 1357	220	0.395 8643	9.967 4835	31	104	
		188		219			30		
897	9.571 6380		9.604 1576		0.395 8424	9.967 4805		103	
898	9.571 6569	189	9.604 1795	219	0.395 8205	9.967 4774	31	102	
899	9.571 6758	189	9.604 2014	219	0.395 7986	9.967 4744	30	101	
		188		219			31		
.900	9.571 6946		9.604 2233		0.395 7767	9.967 4713		.100	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	220	219
1	22.0	21.9
2	44.0	43.8
3	66.0	65.7
4	88.0	87.6
5	110.0	109.5
6	132.0	131.4
7	154.0	153.3
8	176.0	175.2
9	198.0	197.1

	189
1	18.9
2	37.8
3	56.7
4	75.6
5	94.5
6	113.4
7	132.3
8	151.2
9	170.1

	188
1	18.8
2	37.6
3	56.4
4	75.2
5	94.0
6	112.8
7	131.6
8	150.4
9	169.2

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

$68^\circ.150 - 68^\circ.100$

21°.900 — 21°.950

21°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.571 6946		9.604 2233		0.395 7767	9.967 4713		.100	
		189		219			30		
901	9.571 7135		9.604 2452		0.395 7548	9.967 4683		099	
902	9.571 7323	188	9.604 2671	219	0.395 7329	9.967 4652	31	098	
903	9.571 7512	189	9.604 2890	219	0.395 7110	9.967 4622	30	097	
		188		219			31		
904	9.571 7700		9.604 3109		0.395 6891	9.967 4591		096	
905	9.571 7889	189	9.604 3328	219	0.395 6672	9.967 4561	30	095	
906	9.571 8077	188	9.604 3547	219	0.395 6453	9.967 4531	30	094	
		189		219			31		
907	9.571 8266		9.604 3766		0.395 6234	9.967 4500		093	
908	9.571 8454	188	9.604 3985	219	0.395 6015	9.967 4470	30	092	
909	9.571 8643	189	9.604 4204	219	0.395 5796	9.967 4439	31	091	
		188		219			30		
.910	9.571 8831		9.604 4423	218	0.395 5577	9.967 4409		.090	
		189					31		
911	9.571 9020		9.604 4641	219	0.395 5359	9.967 4378		089	
912	9.571 9208	188	9.604 4860	219	0.395 5140	9.967 4348	30	088	
913	9.571 9396	188	9.604 5079	219	0.395 4921	9.967 4317	31	087	
		189		219			30		
914	9.571 9585		9.604 5298		0.395 4702	9.967 4287		086	
915	9.571 9773	188	9.604 5517	219	0.395 4483	9.967 4256	31	085	
916	9.571 9962	189	9.604 5736	219	0.395 4264	9.967 4226	30	084	
		188		219			31		
917	9.572 0150		9.604 5955		0.395 4045	9.967 4195		083	
918	9.572 0339	189	9.604 6174	219	0.395 3826	9.967 4165	30	082	
919	9.572 0527	188	9.604 6393	219	0.395 3607	9.967 4134	31	081	
		188		219			30		
.920	9.572 0715		9.604 6612		0.395 3388	9.967 4104		.080	
		189		218			31		
921	9.572 0904		9.604 6830		0.395 3170	9.967 4073		079	
922	9.572 1092	188	9.604 7049	219	0.395 2951	9.967 4043	30	078	
923	9.572 1280	188	9.604 7268	219	0.395 2732	9.967 4012	31	077	
		189		219			30		
924	9.572 1469		9.604 7487		0.395 2513	9.967 3982		076	
925	9.572 1657	188	9.604 7706	219	0.395 2294	9.967 3951	31	075	
926	9.572 1845	188	9.604 7925	219	0.395 2075	9.967 3921	30	074	
		189		218			31		
927	9.572 2034		9.604 8143		0.395 1857	9.967 3890		073	
928	9.572 2222	188	9.604 8362	219	0.395 1638	9.967 3860	30	072	
929	9.572 2410	188	9.604 8581	219	0.395 1419	9.967 3829	31	071	
		188		219			30		
.930	9.572 2598		9.604 8800		0.395 1200	9.967 3799		.070	
		189		219			31		
931	9.572 2787		9.604 9019	218	0.395 0981	9.967 3768		069	
932	9.572 2975	188	9.604 9237	219	0.395 0763	9.967 3738	30	068	
933	9.572 3163	188	9.604 9456	219	0.395 0544	9.967 3707	31	067	
		188		219			31		
934	9.572 3351		9.604 9675		0.395 0325	9.967 3676		066	
935	9.572 3540	189	9.604 9894	219	0.395 0106	9.967 3646	30	065	
936	9.572 3728	188	9.605 0112	218	0.394 9888	9.967 3615	31	064	
		188		219			30		
937	9.572 3916		9.605 0331		0.394 9669	9.967 3585		063	
938	9.572 4104	188	9.605 0550	219	0.394 9450	9.967 3554	31	062	
939	9.572 4292	188	9.605 0769	219	0.394 9231	9.967 3524	30	061	
		189		218			31		
.940	9.572 4481		9.605 0987		0.394 9013	9.967 3493		.060	
		188		219			30		
941	9.572 4669		9.605 1206		0.394 8794	9.967 3463		059	
942	9.572 4857	188	9.605 1425	219	0.394 8575	9.967 3432	31	058	
943	9.572 5045	188	9.605 1643	218	0.394 8357	9.967 3402	30	057	
		188		219			31		
944	9.572 5233		9.605 1862		0.394 8138	9.967 3371		056	
945	9.572 5421	188	9.605 2081	219	0.394 7919	9.967 3341	30	055	
946	9.572 5610	189	9.605 2299	218	0.394 7701	9.967 3310	31	054	
		188		219			30		
947	9.572 5798		9.605 2518		0.394 7482	9.967 3280		053	
948	9.572 5986	188	9.605 2737	219	0.394 7263	9.967 3249	31	052	
949	9.572 6174	188	9.605 2955	218	0.394 7045	9.967 3218	31	051	
		188		219			30		
.950	9.572 6362		9.605 3174		0.394 6826	9.967 3188		.050	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	219	218
1	21.9	21.8
2	43.8	43.6
3	65.7	65.4
4	87.6	87.2
5	109.5	109.0
6	131.4	130.8
7	153.3	152.6
8	175.2	174.4
9	197.1	196.2

	189
1	18.9
2	37.8
3	56.7
4	75.6
5	94.5
6	113.4
7	132.3
8	151.2
9	170.1

	188
1	18.8
2	37.6
3	56.4
4	75.2
5	94.0
6	112.8
7	131.6
8	150.4
9	169.2

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

68°.100 — 68°.050

21°.950 — 22°.000

21°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.572 6362		9.605 3174		0.394 6826	9.967 3188		.050	
		188		219			31		
951	9.572 6550		9.605 3393		0.394 6607	9.967 3157		049	
952	9.572 6738	188	9.605 3611	218	0.394 6389	9.967 3127	30	048	
953	9.572 6926	188	9.605 3830	219	0.394 6170	9.967 3096	31	047	
		188		218			30		
954	9.572 7114		9.605 4048		0.394 5952	9.967 3066		046	
955	9.572 7302	188	9.605 4267	219	0.394 5733	9.967 3035	31	045	
956	9.572 7490	188	9.605 4486	219	0.394 5514	9.967 3005	30	044	
		188		218			31		
957	9.572 7678		9.605 4704		0.394 5296	9.967 2974		043	
958	9.572 7866	188	9.605 4923	219	0.394 5077	9.967 2943	31	042	
959	9.572 8054	188	9.605 5141	218	0.394 4859	9.967 2913	30	041	
		188		219			31		
.960	9.572 8242		9.605 5360		0.394 4640	9.967 2882		.040	
		188		218			30		
961	9.572 8430		9.605 5578		0.394 4422	9.967 2852		039	
962	9.572 8618	188	9.605 5797	219	0.394 4203	9.967 2821	31	038	
963	9.572 8806	188	9.605 6016	219	0.394 3984	9.967 2791	30	037	
		188		218			31		
964	9.572 8994		9.605 6234		0.394 3766	9.967 2760		036	
965	9.572 9182	188	9.605 6453	219	0.394 3547	9.967 2730	30	035	
966	9.572 9370	188	9.605 6671	218	0.394 3329	9.967 2699	31	034	
		188		219			31		
967	9.572 9558		9.605 6890		0.394 3110	9.967 2668		033	
968	9.572 9746	188	9.605 7108	218	0.394 2892	9.967 2638	30	032	
969	9.572 9934	188	9.605 7327	219	0.394 2673	9.967 2607	31	031	
		188		218			30		
.970	9.573 0122		9.605 7545		0.394 2455	9.967 2577		.030	
		188		218			31		
971	9.573 0310		9.605 7763		0.394 2237	9.967 2546		029	
972	9.573 0497	187	9.605 7982	219	0.394 2018	9.967 2515	31	028	
973	9.573 0685	188	9.605 8200	218	0.394 1800	9.967 2485	30	027	
		188		219			31		
974	9.573 0873		9.605 8419		0.394 1581	9.967 2454		026	
975	9.573 1061	188	9.605 8637	218	0.394 1363	9.967 2424	30	025	
976	9.573 1249	188	9.605 8856	219	0.394 1144	9.967 2393	31	024	
		188		218			30		
977	9.573 1437		9.605 9074		0.394 0926	9.967 2363		023	
978	9.573 1625	188	9.605 9293	219	0.394 0707	9.967 2332	31	022	
979	9.573 1812	187	9.605 9511	218	0.394 0489	9.967 2301	31	021	
		188		218			30		
.980	9.573 2000		9.605 9729		0.394 0271	9.967 2271		.020	
		188		219			31		
981	9.573 2188		9.605 9948		0.394 0052	9.967 2240		019	
982	9.573 2376	188	9.606 0166	218	0.393 9834	9.967 2210	30	018	
983	9.573 2563	187	9.606 0384	218	0.393 9616	9.967 2179	31	017	
		188		219			31		
984	9.573 2751		9.606 0603		0.393 9397	9.967 2148		016	
985	9.573 2939	188	9.606 0821	218	0.393 9179	9.967 2118	30	015	
986	9.573 3127	188	9.606 1040	219	0.393 8960	9.967 2087	31	014	
		187		218			30		
987	9.573 3314		9.606 1258		0.393 8742	9.967 2057		013	
988	9.573 3502	188	9.606 1476	218	0.393 8524	9.967 2026	31	012	
989	9.573 3690	188	9.606 1695	219	0.393 8305	9.967 1995	31	011	
		188		218			30		
.990	9.573 3878		9.606 1913		0.393 8087	9.967 1965		.010	
		187		218			31		
991	9.573 4065		9.606 2131		0.393 7869	9.967 1934		009	
992	9.573 4253	188	9.606 2349	218	0.393 7651	9.967 1904	30	008	
993	9.573 4441	188	9.606 2568	219	0.393 7432	9.967 1873	31	007	
		187		218			31		
994	9.573 4628		9.606 2786		0.393 7214	9.967 1842		006	
995	9.573 4816	188	9.606 3004	218	0.393 6996	9.967 1812	30	005	
996	9.573 5004	188	9.606 3223	219	0.393 6777	9.967 1781	31	004	
		187		218			31		
997	9.573 5191		9.606 3441		0.393 6559	9.967 1750		003	
998	9.573 5379	188	9.606 3659	218	0.393 6341	9.967 1720	30	002	
999	9.573 5567	188	9.606 3877	218	0.393 6123	9.967 1689	31	001	
		187		219			30		
*.000	9.573 5754		9.606 4096		0.393 5904	9.967 1659		.000	
	cos	d	cotg	d	tang	sin	d	68°	P.P.

	219	218
1	21.9	21.8
2	43.8	43.6
3	65.7	65.4
4	87.6	87.2
5	109.5	109.0
6	131.4	130.8
7	153.3	152.6
8	175.2	174.4
9	197.1	196.2

	188
1	18.8
2	37.6
3	56.4
4	75.2
5	94.0
6	112.8
7	131.6
8	150.4
9	169.2

	187
1	18.7
2	37.4
3	56.1
4	74.8
5	93.5
6	112.2
7	130.9
8	149.6
9	168.3

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

68°.050 — 68°.000

22°.000 — 22°.050

22°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.573 5754		9.606 4096		0.393 5904	9.967 1659		*000	
		188		218			31		
001	9.573 5942		9.606 4314		0.393 5686	9.967 1628		999	
002	9.573 6129	187	9.606 4532	218	0.393 5468	9.967 1597	31	998	
003	9.573 6317	188	9.606 4750	218	0.393 5250	9.967 1567	30	997	
		188		218			31		
004	9.573 6505		9.606 4968		0.393 5032	9.967 1536		996	
005	9.573 6692	187	9.606 5187	219	0.393 4813	9.967 1505	31	995	
006	9.573 6880	188	9.606 5405	218	0.393 4595	9.967 1475	30	994	
		187		218			31		
007	9.573 7067		9.606 5623		0.393 4377	9.967 1444		993	
008	9.573 7255	188	9.606 5841	218	0.393 4159	9.967 1414	30	992	
009	9.573 7442	187	9.606 6059	218	0.393 3941	9.967 1383	31	991	
		188		219			31		
.010	9.573 7630		9.606 6278		0.393 3722	9.967 1352		.990	
		187		218			30		
011	9.573 7817		9.606 6496		0.393 3504	9.967 1322		989	
012	9.573 8005	188	9.606 6714	218	0.393 3286	9.967 1291	31	988	
013	9.573 8192	187	9.606 6932	218	0.393 3068	9.967 1260	31	987	
		188		218			30		
014	9.573 8380		9.606 7150		0.393 2850	9.967 1230		986	
015	9.573 8567	187	9.606 7368	218	0.393 2632	9.967 1199	31	985	
016	9.573 8755	188	9.606 7586	218	0.393 2414	9.967 1168	31	984	
		187		218			30		
017	9.573 8942		9.606 7804		0.393 2196	9.967 1138		983	
018	9.573 9130	188	9.606 8022	218	0.393 1978	9.967 1107	31	982	
019	9.573 9317	187	9.606 8241	219	0.393 1759	9.967 1076	31	981	
		187		218			30		
.020	9.573 9504		9.606 8459		0.393 1541	9.967 1046		.980	
		188		218			31		
021	9.573 9692		9.606 8677		0.393 1323	9.967 1015		979	
022	9.573 9879	187	9.606 8895	218	0.393 1105	9.967 0984	31	978	
023	9.574 0067	188	9.606 9113	218	0.393 0887	9.967 0954	30	977	
		187		218			31		
024	9.574 0254		9.606 9331		0.393 0669	9.967 0923		976	
025	9.574 0441	187	9.606 9549	218	0.393 0451	9.967 0893	30	975	
026	9.574 0629	188	9.606 9767	218	0.393 0233	9.967 0862	31	974	
		187		218			31		
027	9.574 0816		9.606 9985		0.393 0015	9.967 0831		973	
028	9.574 1004	188	9.607 0203	218	0.392 9797	9.967 0801	30	972	
029	9.574 1191	187	9.607 0421	218	0.392 9579	9.967 0770	31	971	
		187		218			31		
.030	9.574 1378		9.607 0639		0.392 9361	9.967 0739		.970	
		188		218			30		
031	9.574 1566		9.607 0857		0.392 9143	9.967 0709		969	
032	9.574 1753	187	9.607 1075	218	0.392 8925	9.967 0678	31	968	
033	9.574 1940	187	9.607 1293	218	0.392 8707	9.967 0647	31	967	
		187		218			31		
034	9.574 2127		9.607 1511		0.392 8489	9.967 0616		966	
035	9.574 2315	188	9.607 1729	218	0.392 8271	9.967 0586	30	965	
036	9.574 2502	187	9.607 1947	218	0.392 8053	9.967 0555	31	964	
		187		218			31		
037	9.574 2689		9.607 2165		0.392 7835	9.967 0524		963	
038	9.574 2876	187	9.607 2383	218	0.392 7617	9.967 0494	30	962	
039	9.574 3064	188	9.607 2601	218	0.392 7399	9.967 0463	31	961	
		187		218			31		
.040	9.574 3251		9.607 2819		0.392 7181	9.967 0432		.960	
		187		217			30		
041	9.574 3438		9.607 3036		0.392 6964	9.967 0402		959	
042	9.574 3625	187	9.607 3254	218	0.392 6746	9.967 0371	31	958	
043	9.574 3813	188	9.607 3472	218	0.392 6528	9.967 0340	31	957	
		187		218			30		
044	9.574 4000		9.607 3690		0.392 6310	9.967 0310		956	
045	9.574 4187	187	9.607 3908	218	0.392 6092	9.967 0279	31	955	
046	9.574 4374	187	9.607 4126	218	0.392 5874	9.967 0248	31	954	
		187		218			30		
047	9.574 4561		9.607 4344		0.392 5656	9.967 0218		953	
048	9.574 4749	188	9.607 4562	218	0.392 5438	9.967 0187	31	952	
049	9.574 4936	187	9.607 4780	218	0.392 5220	9.967 0156	31	951	
		187		217			31		
.050	9.574 5123		9.607 4997		0.392 5003	9.967 0125		.950	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	219	218
1	21.9	21.8
2	43.8	43.6
3	65.7	65.4
4	87.6	87.2
5	109.5	109.0
6	131.4	130.8
7	153.3	152.6
8	175.2	174.4
9	197.1	196.2

	217
1	21.7
2	43.4
3	65.1
4	86.8
5	108.5
6	130.2
7	151.9
8	173.6
9	195.3

	188	187
1	18.8	18.7
2	37.6	37.4
3	56.4	56.1
4	75.2	74.8
5	94.0	93.5
6	112.8	112.2
7	131.6	130.9
8	150.4	149.6
9	169.2	168.3

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

68°.000 — 67°.950

22°.050 — 22°.100

22°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.574 5123		9.607 4997		0.392 5003	9.967 0125		**.950**	
		187		218			30		
051	9.574 5310		9.607 5215		0.392 4785	9.967 0095		949	
052	9.574 5497	187	9.607 5433	218	0.392 4567	9.967 0064	31	948	
053	9.574 5684	187	9.607 5651	218	0.392 4349	9.967 0033	31	947	
		187		218			30		
054	9.574 5871		9.607 5869		0.392 4131	9.967 0003		946	
055	9.574 6058	187	9.607 6086	217	0.392 3914	9.966 9972	31	945	
056	9.574 6245	187	9.607 6304	218	0.392 3696	9.966 9941	31	944	
		188		218			31		
057	9.574 6433		9.607 6522		0.392 3478	9.966 9910		943	
058	9.574 6620	187	9.607 6740	218	0.392 3260	9.966 9880	30	942	
059	9.574 6807	187	9.607 6958	218	0.392 3042	9.966 9849	31	941	
		187		217			31		
.060	9.574 6994		9.607 7175		0.392 2825	9.966 9818		**.940**	
		187		218			30		
061	9.574 7181		9.607 7393		0.392 2607	9.966 9788		939	
062	9.574 7368	187	9.607 7611	218	0.392 2389	9.966 9757	31	938	
063	9.574 7555	187	9.607 7829	218	0.392 2171	9.966 9726	31	937	
		187		217			31		
064	9.574 7742		9.607 8046		0.392 1954	9.966 9695		936	
065	9.574 7929	187	9.607 8264	218	0.392 1736	9.966 9665	30	935	
066	9.574 8116	187	9.607 8482	218	0.392 1518	9.966 9634	31	934	
		187		218			31		
067	9.574 8303		9.607 8700		0.392 1300	9.966 9603		933	
068	9.574 8490	187	9.607 8917	217	0.392 1083	9.966 9573	30	932	
069	9.574 8677	187	9.607 9135	218	0.392 0865	9.966 9542	31	931	
		187		218			31		
.070	9.574 8864		9.607 9353		0.392 0647	9.966 9511		**.930**	
		187		217			31		
071	9.574 9051		9.607 9570		0.392 0430	9.966 9480		929	
072	9.574 9238	187	9.607 9788	218	0.392 0212	9.966 9450	30	928	
073	9.574 9425	187	9.608 0006	218	0.391 9994	9.966 9419	31	927	
		186		217			31		
074	9.574 9611		9.608 0223		0.391 9777	9.966 9388		926	
075	9.574 9798	187	9.608 0441	218	0.391 9559	9.966 9357	31	925	
076	9.574 9985	187	9.608 0659	218	0.391 9341	9.966 9327	30	924	
		187		217			31		
077	9.575 0172		9.608 0876		0.391 9124	9.966 9296		923	
078	9.575 0359	187	9.608 1094	218	0.391 8906	9.966 9265	31	922	
079	9.575 0546	187	9.608 1311	217	0.391 8689	9.966 9234	31	921	
		187		218			30		
.080	9.575 0733		9.608 1529		0.391 8471	9.966 9204		**.920**	
		187		218			31		
081	9.575 0920		9.608 1747		0.391 8253	9.966 9173		919	
082	9.575 1106	186	9.608 1964	217	0.391 8036	9.966 9142	31	918	
083	9.575 1293	187	9.608 2182	218	0.391 7818	9.966 9111	31	917	
		187		217			30		
084	9.575 1480		9.608 2399		0.391 7601	9.966 9081		916	
085	9.575 1667	187	9.608 2617	218	0.391 7383	9.966 9050	31	915	
086	9.575 1854	187	9.608 2835	218	0.391 7165	9.966 9019	31	914	
		187		217			31		
087	9.575 2041		9.608 3052		0.391 6948	9.966 8988		913	
088	9.575 2227	186	9.608 3270	218	0.391 6730	9.966 8958	30	912	
089	9.575 2414	187	9.608 3487	217	0.391 6513	9.966 8927	31	911	
		187		218			31		
.090	9.575 2601		9.608 3705		0.391 6295	9.966 8896		**.910**	
		187		217			31		
091	9.575 2788		9.608 3922		0.391 6078	9.966 8865		909	
092	9.575 2974	186	9.608 4140	218	0.391 5860	9.966 8835	30	908	
093	9.575 3161	187	9.608 4357	217	0.391 5643	9.966 8804	31	907	
		187		218			31		
094	9.575 3348		9.608 4575		0.391 5425	9.966 8773		906	
095	9.575 3535	187	9.608 4792	217	0.391 5208	9.966 8742	31	905	
096	9.575 3721	186	9.608 5010	218	0.391 4990	9.966 8712	30	904	
		187		217			31		
097	9.575 3908		9.608 5227		0.391 4773	9.966 8681		903	
098	9.575 4095	187	9.608 5445	218	0.391 4555	9.966 8650	31	902	
099	9.575 4281	186	9.608 5662	217	0.391 4338	9.966 8619	31	901	
		187		218			31		
.100	9.575 4468		9.608 5880		0.391 4120	9.966 8588		**.900**	
	cos	d	cotg	d	tang	sin	d	**67°**	P.P.

	218	217
1	21.8	21.7
2	43.6	43.4
3	65.4	65.1
4	87.2	86.8
5	109.0	108.5
6	130.8	130.2
7	152.6	151.9
8	174.4	173.6
9	196.2	195.3

	188	187
1	18.8	18.7
2	37.6	37.4
3	56.4	56.1
4	75.2	74.8
5	94.0	93.5
6	112.8	112.2
7	131.6	130.9
8	150.4	149.6
9	169.2	168.3

	186
1	18.6
2	37.2
3	55.8
4	74.4
5	93.0
6	111.6
7	130.2
8	148.8
9	167.4

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

67°.950 — 67°.900

$22^\circ.100$ — $22^\circ.150$

22°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.575 4468		9.608 5880		0.391 4120	9.966 8588		.900	
		187		217			30		
101	9.575 4655		9.608 6097		0.391 3903	9.966 8558		899	
102	9.575 4841	186	9.608 6314	217	0.391 3686	9.966 8527	31	898	
103	9.575 5028	187	9.608 6532	218	0.391 3468	9.966 8496	31	897	
		187		217			31		
104	9.575 5215		9.608 6749		0.391 3251	9.966 8465		896	
105	9.575 5401	186	9.608 6967	218	0.391 3033	9.966 8435	30	895	
106	9.575 5588	187	9.608 7184	217	0.391 2816	9.966 8404	31	894	
		186		218			31		
107	9.575 5774		9.608 7402		0.391 2598	9.966 8373		893	
108	9.575 5961	187	9.608 7619	217	0.391 2381	9.966 8342	31	892	
109	9.575 6148	187	9.608 7836	217	0.391 2164	9.966 8311	31	891	
		186		218			30		
.110	9.575 6334		9.608 8054		0.391 1946	9.966 8281		.890	
		187		217			31		
111	9.575 6521		9.608 8271		0.391 1729	9.966 8250		889	
112	9.575 6707	186	9.608 8488	217	0.391 1512	9.966 8219	31	888	
113	9.575 6894	187	9.608 8706	218	0.391 1294	9.966 8188	31	887	
		186		217			31		
114	9.575 7080		9.608 8923		0.391 1077	9.966 8157		886	
115	9.575 7267	187	9.608 9140	217	0.391 0860	9.966 8127	30	885	
116	9.575 7454	187	9.608 9358	218	0.391 0642	9.966 8096	31	884	
		186		217			31		
117	9.575 7640		9.608 9575		0.391 0425	9.966 8065		883	
118	9.575 7827	187	9.608 9792	217	0.391 0208	9.966 8034	31	882	
119	9.575 8013	186	9.609 0010	218	0.390 9990	9.966 8003	31	881	
		187		217			30		
.120	9.575 8200		9.609 0227		0.390 9773	9.966 7973		.880	
		186		217			31		
121	9.575 8386		9.609 0444		0.390 9556	9.966 7942		879	
122	9.575 8572	186	9.609 0662	218	0.390 9338	9.966 7911	31	878	
123	9.575 8759	187	9.609 0879	217	0.390 9121	9.966 7880	31	877	
		186		217			31		
124	9.575 8945		9.609 1096		0.390 8904	9.966 7849		876	
125	9.575 9132	187	9.609 1313	217	0.390 8687	9.966 7818	31	875	
126	9.575 9318	186	9.609 1531	218	0.390 8469	9.966 7788	30	874	
		187		217			31		
127	9.575 9505		9.609 1748		0.390 8252	9.966 7757		873	
128	9.575 9691	186	9.609 1965	217	0.390 8035	9.966 7726	31	872	
129	9.575 9877	186	9.609 2182	217	0.390 7818	9.966 7695	31	871	
		187		218			31		
.130	9.576 0064		9.609 2400		0.390 7600	9.966 7664		.870	
		186		217			30		
131	9.576 0250		9.609 2617		0.390 7383	9.966 7634		869	
132	9.576 0437	187	9.609 2834	217	0.390 7166	9.966 7603	31	868	
133	9.576 0623	186	9.609 3051	217	0.390 6949	9.966 7572	31	867	
		186		217			31		
134	9.576 0809		9.609 3268		0.390 6732	9.966 7541		866	
135	9.576 0996	187	9.609 3485	217	0.390 6515	9.966 7510	31	865	
136	9.576 1182	186	9.609 3703	218	0.390 6297	9.966 7479	31	864	
		186		217			30		
137	9.576 1368		9.609 3920		0.390 6080	9.966 7449		863	
138	9.576 1555	187	9.609 4137	217	0.390 5863	9.966 7418	31	862	
139	9.576 1741	186	9.609 4354	217	0.390 5646	9.966 7387	31	861	
		186		217			31		
.140	9.576 1927		9.609 4571		0.390 5429	9.966 7356		.860	
		187		217			31		
141	9.576 2114		9.609 4788		0.390 5212	9.966 7325		859	
142	9.576 2300	186	9.609 5006	218	0.390 4994	9.966 7294	31	858	
143	9.576 2486	186	9.609 5223	217	0.390 4777	9.966 7264	30	857	
		186		217			31		
144	9.576 2672		9.609 5440		0.390 4560	9.966 7233		856	
145	9.576 2859	187	9.609 5657	217	0.390 4343	9.966 7202	31	855	
146	9.576 3045	186	9.609 5874	217	0.390 4126	9.966 7171	31	854	
		186		217			31		
147	9.576 3231		9.609 6091		0.390 3909	9.966 7140		853	
148	9.576 3417	186	9.609 6308	217	0.390 3692	9.966 7109	31	852	
149	9.576 3604	187	9.609 6525	217	0.390 3475	9.966 7078	31	851	
		186		217			30		
.150	9.576 3790		9.609 6742		0.390 3258	9.966 7048		.850	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	218	217
1	21.8	21.7
2	43.6	43.4
3	65.4	65.1
4	87.2	86.8
5	109.0	108.5
6	130.8	130.2
7	152.6	151.9
8	174.4	173.6
9	196.2	195.3

	187
1	18.7
2	37.4
3	56.1
4	74.8
5	93.5
6	112.2
7	130.9
8	149.6
9	168.3

	186
1	18.6
2	37.2
3	55.8
4	74.4
5	93.0
6	111.6
7	130.2
8	148.8
9	167.4

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

$67^\circ.900$ — $67^\circ.850$

22°.150 — 22°.200

22°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.576 3790		9.609 6742		0.390 3258	9.966 7048		.850	
		186		217			31		
151	9.576 3976		9.609 6959		0.390 3041	9.966 7017		849	
152	9.576 4162	186	9.609 7176	217	0.390 2824	9.966 6986	31	848	
153	9.576 4348	186	9.609 7393	217	0.390 2607	9.966 6955	31	847	
		187		217			31		
154	9.576 4535		9.609 7610		0.390 2390	9.966 6924		846	
155	9.576 4721	186	9.609 7827	217	0.390 2173	9.966 6893	31	845	
156	9.576 4907	186	9.609 8044	217	0.390 1956	9.966 6862	31	844	
		186		217			30		
157	9.576 5093		9.609 8261		0.390 1739	9.966 6832		843	
158	9.576 5279	186	9.609 8478	217	0.390 1522	9.966 6801	31	842	
159	9.576 5465	186	9.609 8695	217	0.390 1305	9.966 6770	31	841	
		186		217			31		
.160	9.576 5651		9.609 8912		0.390 1088	9.966 6739		.840	
		186		217			31		
161	9.576 5837		9.609 9129		0.390 0871	9.966 6708		839	
162	9.576 6024	187	9.609 9346	217	0.390 0654	9.966 6677	31	838	
163	9.576 6210	186	9.609 9563	217	0.390 0437	9.966 6646	31	837	
		186		217			31		
164	9.576 6396		9.609 9780		0.390 0220	9.966 6615		836	
165	9.576 6582	186	9.609 9997	217	0.390 0003	9.966 6585	30	835	
166	9.576 6768	186	9.610 0214	217	0.389 9786	9.966 6554	31	834	
		186		217			31		
167	9.576 6954		9.610 0431		0.389 9569	9.966 6523		833	
168	9.576 7140	186	9.610 0648	217	0.389 9352	9.966 6492	31	832	
169	9.576 7326	186	9.610 0865	217	0.389 9135	9.966 6461	31	831	
		186		217			31		
.170	9.576 7512		9.610 1082		0.389 8918	9.966 6430		.830	
		186		217			31		
171	9.576 7698		9.610 1299		0.389 8701	9.966 6399		829	
172	9.576 7884	186	9.610 1516	217	0.389 8484	9.966 6368	31	828	
173	9.576 8070	186	9.610 1733	217	0.389 8267	9.966 6337	31	827	
		186		216			30		
174	9.576 8256		9.610 1949		0.389 8051	9.966 6307		826	
175	9.576 8442	186	9.610 2166	217	0.389 7834	9.966 6276	31	825	
176	9.576 8628	186	9.610 2383	217	0.389 7617	9.966 6245	31	824	
		186		217			31		
177	9.576 8814		9.610 2600		0.389 7400	9.966 6214		823	
178	9.576 9000	186	9.610 2817	217	0.389 7183	9.966 6183	31	822	
179	9.576 9186	186	9.610 3034	217	0.389 6966	9.966 6152	31	821	
		186		217			31		
.180	9.576 9372		9.610 3251		0.389 6749	9.966 6121		.820	
		186		216			31		
181	9.576 9558		9.610 3467		0.389 6533	9.966 6090		819	
182	9.576 9744	186	9.610 3684	217	0.389 6316	9.966 6059	31	818	
183	9.576 9929	185	9.610 3901	217	0.389 6099	9.966 6029	30	817	
		186		217			31		
184	9.577 0115		9.610 4118		0.389 5882	9.966 5998		816	
185	9.577 0301	186	9.610 4335	217	0.389 5665	9.966 5967	31	815	
186	9.577 0487	186	9.610 4551	216	0.389 5449	9.966 5936	31	814	
		186		217			31		
187	9.577 0673		9.610 4768		0.389 5232	9.966 5905		813	
188	9.577 0859	186	9.610 4985	217	0.389 5015	9.966 5874	31	812	
189	9.577 1045	186	9.610 5202	217	0.389 4798	9.966 5843	31	811	
		186		216			31		
.190	9.577 1231		9.610 5418		0.389 4582	9.966 5812		.810	
		185		217			31		
191	9.577 1416		9.610 5635		0.389 4365	9.966 5781		809	
192	9.577 1602	186	9.610 5852	217	0.389 4148	9.966 5750	31	808	
193	9.577 1788	186	9.610 6069	217	0.389 3931	9.966 5719	31	807	
		186		216			31		
194	9.577 1974		9.610 6285		0.389 3715	9.966 5688		806	
195	9.577 2160	186	9.610 6502	217	0.389 3498	9.966 5658	30	805	
196	9.577 2345	185	9.610 6719	217	0.389 3281	9.966 5627	31	804	
		186		216			31		
197	9.577 2531		9.610 6935		0.389 3065	9.966 5596		803	
198	9.577 2717	186	9.610 7152	217	0.389 2848	9.966 5565	31	802	
199	9.577 2903	186	9.610 7369	217	0.389 2631	9.966 5534	31	801	
		185		217			31		
.200	9.577 3088		9.610 7586		0.389 2414	9.966 5503		.800	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	217	216
1	21.7	21.6
2	43.4	43.2
3	65.1	64.8
4	86.8	86.4
5	108.5	108.0
6	130.2	129.6
7	151.9	151.2
8	173.6	172.8
9	195.3	194.4

	187	186
1	18.7	18.6
2	37.4	37.2
3	56.1	55.8
4	74.8	74.4
5	93.5	93.0
6	112.2	111.6
7	130.9	130.2
8	149.6	148.8
9	168.3	167.4

	185
1	18.5
2	37.0
3	55.5
4	74.0
5	92.5
6	111.0
7	129.5
8	148.0
9	166.5

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

67°.850 — 67°.800

22°.200 — 22°.250

22°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.577 3088		9.610 7586		0.389 2414	9.966 5503		**.800**	
		186		216			31		
201	9.577 3274		9.610 7802		0.389 2198	9.966 5472		799	
202	9.577 3460	186	9.610 8019	217	0.389 1981	9.966 5441	31	798	
203	9.577 3646	186	9.610 8235	216	0.389 1765	9.966 5410	31	797	
		185		217			31		
204	9.577 3831		9.610 8452		0.389 1548	9.966 5379		796	
205	9.577 4017	186	9.610 8669	217	0.389 1331	9.966 5348	31	795	
206	9.577 4203	186	9.610 8885	216	0.389 1115	9.966 5317	31	794	
		185		217			31		
207	9.577 4388		9.610 9102		0.389 0898	9.966 5286		793	
208	9.577 4574	186	9.610 9319	217	0.389 0681	9.966 5255	31	792	
209	9.577 4760	186	9.610 9535	216	0.389 0465	9.966 5224	31	791	
		185		217			31		
.210	9.577 4945		9.610 9752		0.389 0248	9.966 5193		**.790**	
		186		216			30		
211	9.577 5131		9.610 9968		0.389 0032	9.966 5163		789	
212	9.577 5317	186	9.611 0185	217	0.388 9815	9.966 5132	31	788	
213	9.577 5502	185	9.611 0402	217	0.388 9598	9.966 5101	31	787	
		186		216			31		
214	9.577 5688		9.611 0618		0.388 9382	9.966 5070		786	
215	9.577 5873	185	9.611 0835	217	0.388 9165	9.966 5039	31	785	
216	9.577 6059	186	9.611 1051	216	0.388 8949	9.966 5008	31	784	
		186		217			31		
217	9.577 6245		9.611 1268		0.388 8732	9.966 4977		783	
218	9.577 6430	185	9.611 1484	216	0.388 8516	9.966 4946	31	782	
219	9.577 6616	186	9.611 1701	217	0.388 8299	9.966 4915	31	781	
		185		216			31		
.220	9.577 6801		9.611 1917		0.388 8083	9.966 4884		**.780**	
		186		217			31		
221	9.577 6987		9.611 2134		0.388 7866	9.966 4853		779	
222	9.577 7172	185	9.611 2350	216	0.388 7650	9.966 4822	31	778	
223	9.577 7358	186	9.611 2567	217	0.388 7433	9.966 4791	31	777	
		185		216			31		
224	9.577 7543		9.611 2783		0.388 7217	9.966 4760		776	
225	9.577 7729	186	9.611 3000	217	0.388 7000	9.966 4729	31	775	
226	9.577 7914	185	9.611 3216	216	0.388 6784	9.966 4698	31	774	
		186		217			31		
227	9.577 8100		9.611 3433		0.388 6567	9.966 4667		773	
228	9.577 8285	185	9.611 3649	216	0.388 6351	9.966 4636	31	772	
229	9.577 8471	186	9.611 3866	217	0.388 6134	9.966 4605	31	771	
		185		216			31		
.230	9.577 8656		9.611 4082		0.388 5918	9.966 4574		**.770**	
		186		217			31		
231	9.577 8842		9.611 4299		0.388 5701	9.966 4543		769	
232	9.577 9027	185	9.611 4515	216	0.388 5485	9.966 4512	31	768	
233	9.577 9213	186	9.611 4731	216	0.388 5269	9.966 4481	31	767	
		185		217			31		
234	9.577 9398		9.611 4948		0.388 5052	9.966 4450		766	
235	9.577 9584	186	9.611 5164	216	0.388 4836	9.966 4419	31	765	
236	9.577 9769	185	9.611 5381	217	0.388 4619	9.966 4388	31	764	
		185		216			31		
237	9.577 9954		9.611 5597		0.388 4403	9.966 4357		763	
238	9.578 0140	186	9.611 5813	216	0.388 4187	9.966 4326	31	762	
239	9.578 0325	185	9.611 6030	217	0.388 3970	9.966 4295	31	761	
		186		216			31		
.240	9.578 0511		9.611 6246		0.388 3754	9.966 4264		**.760**	
		185		217			31		
241	9.578 0696		9.611 6463		0.388 3537	9.966 4233		759	
242	9.578 0881	185	9.611 6679	216	0.388 3321	9.966 4202	31	758	
243	9.578 1067	186	9.611 6895	216	0.388 3105	9.966 4171	31	757	
		185		217			31		
244	9.578 1252		9.611 7112		0.388 2888	9.966 4140		756	
245	9.578 1437	185	9.611 7328	216	0.388 2672	9.966 4109	31	755	
246	9.578 1623	186	9.611 7544	216	0.388 2456	9.966 4078	31	754	
		185		217			31		
247	9.578 1808		9.611 7761		0.388 2239	9.966 4047		753	
248	9.578 1993	185	9.611 7977	216	0.388 2023	9.966 4016	31	752	
249	9.578 2178	185	9.611 8193	216	0.388 1807	9.966 3985	31	751	
		186		216			31		
.250	9.578 2364		9.611 8409		0.388 1591	9.966 3954		**.750**	
	cos	d	cotg	d	tang	sin	d	**67°**	P.P.

	217	216
1	21.7	21.6
2	43.4	43.2
3	65.1	64.8
4	86.8	86.4
5	108.5	108.0
6	130.2	129.6
7	151.9	151.2
8	173.6	172.8
9	195.3	194.4

	186
1	18.6
2	37.2
3	55.8
4	74.4
5	93.0
6	111.6
7	130.2
8	148.8
9	167.4

	185
1	18.5
2	37.0
3	55.5
4	74.0
5	92.5
6	111.0
7	129.5
8	148.0
9	166.5

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

	30
1	3.0
2	6.0
3	9.0
4	12.0
5	15.0
6	18.0
7	21.0
8	24.0
9	27.0

67°.800 — 67°.750

$22^\circ.250 - 22^\circ.300$

22°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.578 2364		9.611 8409		0.388 1591	9.966 3954		.750	
		185		217			31		
251	9.578 2549		9.611 8626		0.388 1374	9.966 3923		749	
252	9.578 2734	185	9.611 8842	216	0.388 1158	9.966 3892	31	748	
253	9.578 2920	186	9.611 9058	216	0.388 0942	9.966 3861	31	747	
		185		217			31		
254	9.578 3105		9.611 9275		0.388 0725	9.966 3830		746	
255	9.578 3290	185	9.611 9491	216	0.388 0509	9.966 3799	31	745	
256	9.578 3475	185	9.611 9707	216	0.388 0293	9.966 3768	31	744	
		185		216			31		
257	9.578 3660		9.611 9923		0.388 0077	9.966 3737		743	
258	9.578 3846	186	9.612 0140	217	0.387 9860	9.966 3706	31	742	
259	9.578 4031	185	9.612 0356	216	0.387 9644	9.966 3675	31	741	
		185		216			31		
.260	9.578 4216		9.612 0572		0.387 9428	9.966 3644		.740	
		185		216			31		
261	9.578 4401		9.612 0788		0.387 9212	9.966 3613		739	
262	9.578 4586	185	9.612 1004	216	0.387 8996	9.966 3582	31	738	
263	9.578 4772	186	9.612 1221	217	0.387 8779	9.966 3551	31	737	
		185		216			31		
264	9.578 4957		9.612 1437		0.387 8563	9.966 3520		736	
265	9.578 5142	185	9.612 1653	216	0.387 8347	9.966 3489	31	735	
266	9.578 5327	185	9.612 1869	216	0.387 8131	9.966 3458	31	734	
		185		216			31		
267	9.578 5512		9.612 2085		0.387 7915	9.966 3427		733	
268	9.578 5697	185	9.612 2301	216	0.387 7699	9.966 3396	31	732	
269	9.578 5882	185	9.612 2518	217	0.387 7482	9.966 3365	31	731	
		185		216			31		
.270	9.578 6067		9.612 2734		0.387 7266	9.966 3334		.730	
		186		216			31		
271	9.578 6253		9.612 2950		0.387 7050	9.966 3303		729	
272	9.578 6438	185	9.612 3166	216	0.387 6834	9.966 3272	31	728	
273	9.578 6623	185	9.612 3382	216	0.387 6618	9.966 3241	31	727	
		185		216			31		
274	9.578 6808		9.612 3598		0.387 6402	9.966 3210		726	
275	9.578 6993	185	9.612 3814	216	0.387 6186	9.966 3179	31	725	
276	9.578 7178	185	9.612 4030	216	0.387 5970	9.966 3148	31	724	
		185		216			32		
277	9.578 7363		9.612 4246		0.387 5754	9.966 3116		723	
278	9.578 7548	185	9.612 4462	216	0.387 5538	9.966 3085	31	722	
279	9.578 7733	185	9.612 4679	217	0.387 5321	9.966 3054	31	721	
		185		216			31		
.280	9.578 7918		9.612 4895		0.387 5105	9.966 3023		.720	
		185		216			31		
281	9.578 8103		9.612 5111		0.387 4889	9.966 2992		719	
282	9.578 8288	185	9.612 5327	216	0.387 4673	9.966 2961	31	718	
283	9.578 8473	185	9.612 5543	216	0.387 4457	9.966 2930	31	717	
		185		216			31		
284	9.578 8658		9.612 5759		0.387 4241	9.966 2899		716	
285	9.578 8843	185	9.612 5975	216	0.387 4025	9.966 2868	31	715	
286	9.578 9028	185	9.612 6191	216	0.387 3809	9.966 2837	31	714	
		185		216			31		
287	9.578 9213		9.612 6407		0.387 3593	9.966 2806		713	
288	9.578 9398	185	9.612 6623	216	0.387 3377	9.966 2775	31	712	
289	9.578 9583	185	9.612 6839	216	0.387 3161	9.966 2744	31	711	
		184		216			31		
.290	9.578 9767		9.612 7055		0.387 2945	9.966 2713		.710	
		185		216			31		
291	9.578 9952		9.612 7271		0.387 2729	9.966 2682		709	
292	9.579 0137	185	9.612 7487	216	0.387 2513	9.966 2651	31	708	
293	9.579 0322	185	9.612 7703	216	0.387 2297	9.966 2619	32	707	
		185		216			31		
294	9.579 0507		9.612 7919		0.387 2081	9.966 2588		706	
295	9.579 0692	185	9.612 8135	216	0.387 1865	9.966 2557	31	705	
296	9.579 0877	185	9.612 8351	216	0.387 1649	9.966 2526	31	704	
		185		215			31		
297	9.579 1062		9.612 8566		0.387 1434	9.966 2495		703	
298	9.579 1246	184	9.612 8782	216	0.387 1218	9.966 2464	31	702	
299	9.579 1431	185	9.612 8998	216	0.387 1002	9.966 2433	31	701	
		185		216			31		
.300	9.579 1616		9.612 9214		0.387 0786	9.966 2402		.700	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	217	216
1	21.7	21.6
2	43.4	43.2
3	65.1	64.8
4	86.8	86.4
5	108.5	108.0
6	130.2	129.6
7	151.9	151.2
8	173.6	172.8
9	195.3	194.4

	215
1	21.5
2	43.0
3	64.5
4	86.0
5	107.5
6	129.0
7	150.5
8	172.0
9	193.5

	186	185
1	18.6	18.5
2	37.2	37.0
3	55.8	55.5
4	74.4	74.0
5	93.0	92.5
6	111.6	111.0
7	130.2	129.5
8	148.8	148.0
9	167.4	166.5

	184
1	18.4
2	36.8
3	55.2
4	73.6
5	92.0
6	110.4
7	128.8
8	147.2
9	165.6

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

$67^\circ.750 - 67^\circ.700$

$22^\circ.300 - 22^\circ.350$

22°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.579 1616		9.612 9214		0.387 0786	9.966 2402		**.700**	
		185		216			31		
301	9.579 1801		9.612 9430		0.387 0570	9.966 2371		699	
302	9.579 1986	185	9.612 9646	216	0.387 0354	9.966 2340	31	698	
303	9.579 2170	184	9.612 9862	216	0.387 0138	9.966 2309	31	697	
		185		216			32		
304	9.579 2355		9.613 0078		0.386 9922	9.966 2277		696	
305	9.579 2540	185	9.613 0294	216	0.386 9706	9.966 2246	31	695	
306	9.579 2725	185	9.613 0509	215	0.386 9491	9.966 2215	31	694	
		185		216			31		
307	9.579 2910		9.613 0725		0.386 9275	9.966 2184		693	
308	9.579 3094	184	9.613 0941	216	0.386 9059	9.966 2153	31	692	
309	9.579 3279	185	9.613 1157	216	0.386 8843	9.966 2122	31	691	
		185		216			31		
.310	9.579 3464		9.613 1373		0.386 8627	9.966 2091		**.690**	
		184		216			31		
311	9.579 3648		9.613 1589		0.386 8411	9.966 2060		689	
312	9.579 3833	185	9.613 1805	216	0.386 8195	9.966 2029	31	688	
313	9.579 4018	185	9.613 2020	215	0.386 7980	9.966 1998	31	687	
		185		216			32		
314	9.579 4203		9.613 2236		0.386 7764	9.966 1966		686	
315	9.579 4387	184	9.613 2452	216	0.386 7548	9.966 1935	31	685	
316	9.579 4572	185	9.613 2668	216	0.386 7332	9.966 1904	31	684	
		185		215			31		
317	9.579 4757		9.613 2883		0.386 7117	9.966 1873		683	
318	9.579 4941	184	9.613 3099	216	0.386 6901	9.966 1842	31	682	
319	9.579 5126	185	9.613 3315	216	0.386 6685	9.966 1811	31	681	
		185		216			31		
.320	9.579 5311		9.613 3531		0.386 6469	9.966 1780		**.680**	
		184		216			31		
321	9.579 5495		9.613 3747		0.386 6253	9.966 1749		679	
322	9.579 5680	185	9.613 3962	215	0.386 6038	9.966 1718	31	678	
323	9.579 5864	184	9.613 4178	216	0.386 5822	9.966 1686	32	677	
		185		216			31		
324	9.579 6049		9.613 4394		0.386 5606	9.966 1655		676	
325	9.579 6234	185	9.613 4609	215	0.386 5391	9.966 1624	31	675	
326	9.579 6418	184	9.613 4825	216	0.386 5175	9.966 1593	31	674	
		185		216			31		
327	9.579 6603		9.613 5041		0.386 4959	9.966 1562		673	
328	9.579 6787	184	9.613 5257	216	0.386 4743	9.966 1531	31	672	
329	9.579 6972	185	9.613 5472	215	0.386 4528	9.966 1500	31	671	
		184		216			31		
.330	9.579 7156		9.613 5688		0.386 4312	9.966 1469		**.670**	
		185		216			32		
331	9.579 7341		9.613 5904		0.386 4096	9.966 1437		669	
332	9.579 7525	184	9.613 6119	215	0.386 3881	9.966 1406	31	668	
333	9.579 7710	185	9.613 6335	216	0.386 3665	9.966 1375	31	667	
		185		216			31		
334	9.579 7895		9.613 6551		0.386 3449	9.966 1344		666	
335	9.579 8079	184	9.613 6766	215	0.386 3234	9.966 1313	31	665	
336	9.579 8264	185	9.613 6982	216	0.386 3018	9.966 1282	31	664	
		184		215			31		
337	9.579 8448		9.613 7197		0.386 2803	9.966 1251		663	
338	9.579 8632	184	9.613 7413	216	0.386 2587	9.966 1219	32	662	
339	9.579 8817	185	9.613 7629	216	0.386 2371	9.966 1188	31	661	
		184		215			31		
.340	9.579 9001		9.613 7844		0.386 2156	9.966 1157		**.660**	
		185		216			31		
341	9.579 9186		9.613 8060		0.386 1940	9.966 1126		659	
342	9.579 9370	184	9.613 8275	215	0.386 1725	9.966 1095	31	658	
343	9.579 9555	185	9.613 8491	216	0.386 1509	9.966 1064	31	657	
		184		216			31		
344	9.579 9739		9.613 8707		0.386 1293	9.966 1033		656	
345	9.579 9924	185	9.613 8922	215	0.386 1078	9.966 1001	32	655	
346	9.580 0108	184	9.613 9138	216	0.386 0862	9.966 0970	31	654	
		184		215			31		
347	9.580 0292		9.613 9353		0.386 0647	9.966 0939		653	
348	9.580 0477	185	9.613 9569	216	0.386 0431	9.966 0908	31	652	
349	9.580 0661	184	9.613 9784	215	0.386 0216	9.966 0877	31	651	
		184		216			31		
.350	9.580 0845		9.614 0000		0.386 0000	9.966 0846		**.650**	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	216	215
1	21.6	21.5
2	43.2	43.0
3	64.8	64.5
4	86.4	86.0
5	108.0	107.5
6	129.6	129.0
7	151.2	150.5
8	172.8	172.0
9	194.4	193.5

	185
1	18.5
2	37.0
3	55.5
4	74.0
5	92.5
6	111.0
7	129.5
8	148.0
9	166.5

	184
1	18.4
2	36.8
3	55.2
4	73.6
5	92.0
6	110.4
7	128.8
8	147.2
9	165.6

	32
1	3.2
2	6.4
3	9.6
4	12.8
5	16.0
6	19.2
7	22.4
8	25.6
9	28.8

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

$67^\circ.700 - 67^\circ.650$

$22^\circ.350 - 22^\circ.400$

22°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.580 0845		9.614 0000		0.386 0000	9.966 0846		**.650**	
		185		215			32		
351	9.580 1030		9.614 0215		0.385 9785	9.966 0814		649	
352	9.580 1214	184	9.614 0431	216	0.385 9569	9.966 0783	31	648	
353	9.580 1398	184	9.614 0646	215	0.385 9354	9.966 0752	31	647	
		185		216			31		
354	9.580 1583		9.614 0862		0.385 9138	9.966 0721		646	
355	9.580 1767	184	9.614 1077	215	0.385 8923	9.966 0690	31	645	
356	9.580 1951	184	9.614 1293	216	0.385 8707	9.966 0659	31	644	
		185		215			32		
357	9.580 2136		9.614 1508		0.385 8492	9.966 0627		643	
358	9.580 2320	184	9.614 1724	216	0.385 8276	9.966 0596	31	642	
359	9.580 2504	184	9.614 1939	215	0.385 8061	9.966 0565	31	641	
		185		216			31		
.360	9.580 2689		9.614 2155		0.385 7845	9.966 0534		**.640**	
		184		215			31		
361	9.580 2873		9.614 2370		0.385 7630	9.966 0503		639	
362	9.580 3057	184	9.614 2586	216	0.385 7414	9.966 0471	32	638	
363	9.580 3241	184	9.614 2801	215	0.385 7199	9.966 0440	31	637	
		185		215			31		
364	9.580 3426		9.614 3016		0.385 6984	9.966 0409		636	
365	9.580 3610	184	9.614 3232	216	0.385 6768	9.966 0378	31	635	
366	9.580 3794	184	9.614 3447	215	0.385 6553	9.966 0347	31	634	
		184		216			31		
367	9.580 3978		9.614 3663		0.385 6337	9.966 0316		633	
368	9.580 4162	184	9.614 3878	215	0.385 6122	9.966 0284	32	632	
369	9.580 4347	185	9.614 4093	215	0.385 5907	9.966 0253	31	631	
		184		216			31		
.370	9.580 4531		9.614 4309		0.385 5691	9.966 0222		**.630**	
		184		215			31		
371	9.580 4715		9.614 4524		0.385 5476	9.966 0191		629	
372	9.580 4899	184	9.614 4740	216	0.385 5260	9.966 0160	31	628	
373	9.580 5083	184	9.614 4955	215	0.385 5045	9.966 0128	32	627	
		184		215			31		
374	9.580 5267		9.614 5170		0.385 4830	9.966 0097		626	
375	9.580 5452	185	9.614 5386	216	0.385 4614	9.966 0066	31	625	
376	9.580 5636	184	9.614 5601	215	0.385 4399	9.966 0035	31	624	
		184		215			31		
377	9.580 5820		9.614 5816		0.385 4184	9.966 0004		623	
378	9.580 6004	184	9.614 6032	216	0.385 3968	9.965 9972	32	622	
379	9.580 6188	184	9.614 6247	215	0.385 3753	9.965 9941	31	621	
		184		215			31		
.380	9.580 6372		9.614 6462		0.385 3538	9.965 9910		**.620**	
		184		215			31		
381	9.580 6556		9.614 6677		0.385 3323	9.965 9879		619	
382	9.580 6740	184	9.614 6893	216	0.385 3107	9.965 9848	31	618	
383	9.580 6924	184	9.614 7108	215	0.385 2892	9.965 9816	32	617	
		184		215			31		
384	9.580 7108		9.614 7323		0.385 2677	9.965 9785		616	
385	9.580 7292	184	9.614 7538	215	0.385 2462	9.965 9754	31	615	
386	9.580 7476	184	9.614 7754	216	0.385 2246	9.965 9723	31	614	
		184		215			32		
387	9.580 7660		9.614 7969		0.385 2031	9.965 9691		613	
388	9.580 7844	184	9.614 8184	215	0.385 1816	9.965 9660	31	612	
389	9.580 8028	184	9.614 8399	215	0.385 1601	9.965 9629	31	611	
		184		216			31		
.390	9.580 8212		9.614 8615		0.385 1385	9.965 9598		**.610**	
		184		215			31		
391	9.580 8396		9.614 8830		0.385 1170	9.965 9567		609	
392	9.580 8580	184	9.614 9045	215	0.385 0955	9.965 9535	32	608	
393	9.580 8764	184	9.614 9260	215	0.385 0740	9.965 9504	31	607	
		184		215			31		
394	9.580 8948		9.614 9475		0.385 0525	9.965 9473		606	
395	9.580 9132	184	9.614 9691	216	0.385 0309	9.965 9442	31	605	
396	9.580 9316	184	9.614 9906	215	0.385 0094	9.965 9410	32	604	
		184		215			31		
397	9.580 9500		9.615 0121		0.384 9879	9.965 9379		603	
398	9.580 9684	184	9.615 0336	215	0.384 9664	9.965 9348	31	602	
399	9.580 9868	184	9.615 0551	215	0.384 9449	9.965 9317	31	601	
		184		215			32		
.400	9.581 0052		9.615 0766		0.384 9234	9.965 9285		**.600**	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	216
1	21.6
2	43.2
3	64.8
4	86.4
5	108.0
6	129.6
7	151.2
8	172.8
9	194.4

	215
1	21.5
2	43.0
3	64.5
4	86.0
5	107.5
6	129.0
7	150.5
8	172.0
9	193.5

	185
1	18.5
2	37.0
3	55.5
4	74.0
5	92.5
6	111.0
7	129.5
8	148.0
9	166.5

	184
1	18.4
2	36.8
3	55.2
4	73.6
5	92.0
6	110.4
7	128.8
8	147.2
9	165.6

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

$67^\circ.650 - 67^\circ.600$

22°.400 — 22°.450

22°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.581 0052		9.615 0766		0.384 9234	9.965 9285		.600	
		184		216			31		
401	9.581 0236		9.615 0982		0.384 9018	9.965 9254		599	
402	9.581 0420	184	9.615 1197	215	0.384 8803	9.965 9223	31	598	
403	9.581 0604	184	9.615 1412	215	0.384 8588	9.965 9192	31	597	
		183		215			32		
404	9.581 0787		9.615 1627		0.384 8373	9.965 9160		596	
405	9.581 0971	184	9.615 1842	215	0.384 8158	9.965 9129	31	595	
406	9.581 1155	184	9.615 2057	215	0.384 7943	9.965 9098	31	594	
		184		215			31		
407	9.581 1339		9.615 2272		0.384 7728	9.965 9067		593	
408	9.581 1523	184	9.615 2487	215	0.384 7513	9.965 9035	32	592	
409	9.581 1707	184	9.615 2702	215	0.384 7298	9.965 9004	31	591	
		183		216			31		
.410	9.581 1890		9.615 2918		0.384 7082	9.965 8973		.590	
		184		215			31		
411	9.581 2074		9.615 3133		0.384 6867	9.965 8942		589	
412	9.581 2258	184	9.615 3348	215	0.384 6652	9.965 8910	32	588	
413	9.581 2442	184	9.615 3563	215	0.384 6437	9.965 8879	31	587	
		184		215			31		
414	9.581 2626		9.615 3778		0.384 6222	9.965 8848		586	
415	9.581 2809	183	9.615 3993	215	0.384 6007	9.965 8817	31	585	
416	9.581 2993	184	9.615 4208	215	0.384 5792	9.965 8785	32	584	
		184		215			31		
417	9.581 3177		9.615 4423		0.384 5577	9.965 8754		583	
418	9.581 3361	184	9.615 4638	215	0.384 5362	9.965 8723	31	582	
419	9.581 3544	183	9.615 4853	215	0.384 5147	9.965 8692	31	581	
		184		215			32		
.420	9.581 3728		9.615 5068		0.384 4932	9.965 8660		.580	
		184		215			31		
421	9.581 3912		9.615 5283		0.384 4717	9.965 8629		579	
422	9.581 4096	184	9.615 5498	215	0.384 4502	9.965 8598	31	578	
423	9.581 4279	183	9.615 5713	215	0.384 4287	9.965 8566	32	577	
		184		215			31		
424	9.581 4463		9.615 5928		0.384 4072	9.965 8535		576	
425	9.581 4647	184	9.615 6143	215	0.384 3857	9.965 8504	31	575	
426	9.581 4830	183	9.615 6358	215	0.384 3642	9.965 8473	31	574	
		184		215			32		
427	9.581 5014		9.615 6573		0.384 3427	9.965 8441		573	
428	9.581 5198	184	9.615 6788	215	0.384 3212	9.965 8410	31	572	
429	9.581 5381	183	9.615 7002	214	0.384 2998	9.965 8379	31	571	
		184		215			32		
.430	9.581 5565		9.615 7217		0.384 2783	9.965 8347		.570	
		183		215			31		
431	9.581 5748		9.615 7432		0.384 2568	9.965 8316		569	
432	9.581 5932	184	9.615 7647	215	0.384 2353	9.965 8285	31	568	
433	9.581 6116	184	9.615 7862	215	0.384 2138	9.965 8254	31	567	
		183		215			32		
434	9.581 6299		9.615 8077		0.384 1923	9.965 8222		566	
435	9.581 6483	184	9.615 8292	215	0.384 1708	9.965 8191	31	565	
436	9.581 6666	183	9.615 8507	215	0.384 1493	9.965 8160	31	564	
		184		215			32		
437	9.581 6850		9.615 8722		0.384 1278	9.965 8128		563	
438	9.581 7034	184	9.615 8936	214	0.384 1064	9.965 8097	31	562	
439	9.581 7217	183	9.615 9151	215	0.384 0849	9.965 8066	31	561	
		184		215			32		
.440	9.581 7401		9.615 9366		0.384 0634	9.965 8034		.560	
		183		215			31		
441	9.581 7584		9.615 9581		0.384 0419	9.965 8003		559	
442	9.581 7768	184	9.615 9796	215	0.384 0204	9.965 7972	31	558	
443	9.581 7951	183	9.616 0011	215	0.383 9989	9.965 7941	31	557	
		184		214			32		
444	9.581 8135		9.616 0225		0.383 9775	9.965 7909		556	
445	9.581 8318	183	9.616 0440	215	0.383 9560	9.965 7878	31	555	
446	9.581 8502	184	9.616 0655	215	0.383 9345	9.965 7847	31	554	
		183		215			32		
447	9.581 8685		9.616 0870		0.383 9130	9.965 7815		553	
448	9.581 8869	184	9.616 1085	215	0.383 8915	9.965 7784	31	552	
449	9.581 9052	183	9.616 1299	214	0.383 8701	9.965 7753	31	551	
		184		215			32		
.450	9.581 9236		9.616 1514		0.383 8486	9.965 7721		.550	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	216	215
1	21.6	21.5
2	43.2	43.0
3	64.8	64.5
4	86.4	86.0
5	108.0	107.5
6	129.6	129.0
7	151.2	150.5
8	172.8	172.0
9	194.4	193.5

	214
1	21.4
2	42.8
3	64.2
4	85.6
5	107.0
6	128.4
7	149.8
8	171.2
9	192.6

	184
1	18.4
2	36.8
3	55.2
4	73.6
5	92.0
6	110.4
7	128.8
8	147.2
9	165.6

	183
1	18.3
2	36.6
3	54.9
4	73.2
5	91.5
6	109.8
7	128.1
8	146.4
9	164.7

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

67°.600 — 67°.550

22°.450 — 22°.500

22°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.581 9236		9.616 1514		0.383 8486	9.965 7721		**.550**	
		183		215			31		
451	9.581 9419		9.616 1729		0.383 8271	9.965 7690		549	
452	9.581 9602	183	9.616 1944	215	0.383 8056	9.965 7659	31	548	
453	9.581 9786	184	9.616 2158	214	0.383 7842	9.965 7627	32	547	
		183		215			31		
454	9.581 9969		9.616 2373		0.383 7627	9.965 7596		546	
455	9.582 0153	184	9.616 2588	215	0.383 7412	9.965 7565	31	545	
456	9.582 0336	183	9.616 2803	215	0.383 7197	9.965 7533	32	544	
		183		214			31		
457	9.582 0519		9.616 3017		0.383 6983	9.965 7502		543	
458	9.582 0703	184	9.616 3232	215	0.383 6768	9.965 7471	31	542	
459	9.582 0886	183	9.616 3447	215	0.383 6553	9.965 7439	32	541	
		184		215			31		
.460	9.582 1070		9.616 3662		0.383 6338	9.965 7408		**.540**	
		183		214			31		
461	9.582 1253		9.616 3876		0.383 6124	9.965 7377		539	
462	9.582 1436	183	9.616 4091	215	0.383 5909	9.965 7345	32	538	
463	9.582 1620	184	9.616 4306	215	0.383 5694	9.965 7314	31	537	
		183		214			31		
464	9.582 1803		9.616 4520		0.383 5480	9.965 7283		536	
465	9.582 1986	183	9.616 4735	215	0.383 5265	9.965 7251	32	535	
466	9.582 2170	184	9.616 4950	215	0.383 5050	9.965 7220	31	534	
		183		214			31		
467	9.582 2353		9.616 5164		0.383 4836	9.965 7189		533	
468	9.582 2536	183	9.616 5379	215	0.383 4621	9.965 7157	32	532	
469	9.582 2719	183	9.616 5593	214	0.383 4407	9.965 7126	31	531	
		184		215			31		
.470	9.582 2903		9.616 5808		0.383 4192	9.965 7095		**.530**	
		183		215			32		
471	9.582 3086		9.616 6023		0.383 3977	9.965 7063		529	
472	9.582 3269	183	9.616 6237	214	0.383 3763	9.965 7032	31	528	
473	9.582 3452	183	9.616 6452	215	0.383 3548	9.965 7001	31	527	
		184		214			32		
474	9.582 3636		9.616 6666		0.383 3334	9.965 6969		526	
475	9.582 3819	183	9.616 6881	215	0.383 3119	9.965 6938	31	525	
476	9.582 4002	183	9.616 7096	215	0.383 2904	9.965 6907	31	524	
		183		214			32		
477	9.582 4185		9.616 7310		0.383 2690	9.965 6875		523	
478	9.582 4369	184	9.616 7525	215	0.383 2475	9.965 6844	31	522	
479	9.582 4552	183	9.616 7739	214	0.383 2261	9.965 6812	32	521	
		183		215			31		
.480	9.582 4735		9.616 7954		0.383 2046	9.965 6781		**.520**	
		183		214			31		
481	9.582 4918		9.616 8168		0.383 1832	9.965 6750		519	
482	9.582 5101	183	9.616 8383	215	0.383 1617	9.965 6718	32	518	
483	9.582 5284	183	9.616 8597	214	0.383 1403	9.965 6687	31	517	
		184		215			31		
484	9.582 5468		9.616 8812		0.383 1188	9.965 6656		516	
485	9.582 5651	183	9.616 9026	214	0.383 0974	9.965 6624	32	515	
486	9.582 5834	183	9.616 9241	215	0.383 0759	9.965 6593	31	514	
		183		214			32		
487	9.582 6017		9.616 9455		0.383 0545	9.965 6561		513	
488	9.582 6200	183	9.616 9670	215	0.383 0330	9.965 6530	31	512	
489	9.582 6383	183	9.616 9884	214	0.383 0116	9.965 6499	31	511	
		183		215			32		
.490	9.582 6566		9.617 0099		0.382 9901	9.965 6467		**.510**	
		183		214			31		
491	9.582 6749		9.617 0313		0.382 9687	9.965 6436		509	
492	9.582 6932	183	9.617 0528	215	0.382 9472	9.965 6405	31	508	
493	9.582 7115	183	9.617 0742	214	0.382 9258	9.965 6373	32	507	
		183		215			31		
494	9.582 7298		9.617 0957		0.382 9043	9.965 6342		506	
495	9.582 7482	184	9.617 1171	214	0.382 8829	9.965 6310	32	505	
496	9.582 7665	183	9.617 1386	215	0.382 8614	9.965 6279	31	504	
		183		214			31		
497	9.582 7848		9.617 1600		0.382 8400	9.965 6248		503	
498	9.582 8031	183	9.617 1814	214	0.382 8186	9.965 6216	32	502	
499	9.582 8214	183	9.617 2029	215	0.382 7971	9.965 6185	31	501	
		183		214			32		
.500	9.582 8397		9.617 2243		0.382 7757	9.965 6153		**.500**	
	cos	d	cotg	d	tang	sin	d	**67°**	P.P.

	215
1	21.5
2	43.0
3	64.5
4	86.0
5	107.5
6	129.0
7	150.5
8	172.0
9	193.5

	214
1	21.4
2	42.8
3	64.2
4	85.6
5	107.0
6	128.4
7	149.8
8	171.2
9	192.6

	184
1	18.4
2	36.8
3	55.2
4	73.6
5	92.0
6	110.4
7	128.8
8	147.2
9	165.6

	183
1	18.3
2	36.6
3	54.9
4	73.2
5	91.5
6	109.8
7	128.1
8	146.4
9	164.7

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

67°.550 — 67°.500

$22^\circ.500 - 22^\circ.550$

22°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.582 8397		9.617 2243		0.382 7757	9.965 6153		**.500**	
		183		215			31		
501	9.582 8580		9.617 2458		0.382 7542	9.965 6122		499	
502	9.582 8763	183	9.617 2672	214	0.382 7328	9.965 6091	31	498	
503	9.582 8946	183	9.617 2886	214	0.382 7114	9.965 6059	32	497	
		183		215			31		
504	9.582 9129		9.617 3101		0.382 6899	9.965 6028		496	
505	9.582 9311	182	9.617 3315	214	0.382 6685	9.965 5996	32	495	
506	9.582 9494	183	9.617 3529	214	0.382 6471	9.965 5965	31	494	
		183		215			31		
507	9.582 9677		9.617 3744		0.382 6256	9.965 5934		493	
508	9.582 9860	183	9.617 3958	214	0.382 6042	9.965 5902	32	492	
509	9.583 0043	183	9.617 4172	214	0.382 5828	9.965 5871	31	491	
		183		215			32		
.510	9.583 0226		9.617 4387		0.382 5613	9.965 5839		**.490**	
		183		214			31		
511	9.583 0409		9.617 4601		0.382 5399	9.965 5808		489	
512	9.583 0592	183	9.617 4815	214	0.382 5185	9.965 5777	31	488	
513	9.583 0775	183	9.617 5030	215	0.382 4970	9.965 5745	32	487	
		183		214			31		
514	9.583 0958		9.617 5244		0.382 4756	9.965 5714		486	
515	9.583 1141	183	9.617 5458	214	0.382 4542	9.965 5682	32	485	
516	9.583 1323	182	9.617 5672	214	0.382 4328	9.965 5651	31	484	
		183		215			32		
517	9.583 1506		9.617 5887		0.382 4113	9.965 5619		483	
518	9.583 1689	183	9.617 6101	214	0.382 3899	9.965 5588	31	482	
519	9.583 1872	183	9.617 6315	214	0.382 3685	9.965 5557	31	481	
		183		214			32		
.520	9.583 2055		9.617 6529		0.382 3471	9.965 5525		**.480**	
		182		215			31		
521	9.583 2237		9.617 6744		0.382 3256	9.965 5494		479	
522	9.583 2420	183	9.617 6958	214	0.382 3042	9.965 5462	32	478	
523	9.583 2603	183	9.617 7172	214	0.382 2828	9.965 5431	31	477	
		183		214			32		
524	9.583 2786		9.617 7386		0.382 2614	9.965 5399		476	
525	9.583 2969	183	9.617 7601	215	0.382 2399	9.965 5368	31	475	
526	9.583 3151	182	9.617 7815	214	0.382 2185	9.965 5337	31	474	
		183		214			32		
527	9.583 3334		9.617 8029		0.382 1971	9.965 5305		473	
528	9.583 3517	183	9.617 8243	214	0.382 1757	9.965 5274	31	472	
529	9.583 3700	183	9.617 8457	214	0.382 1543	9.965 5242	32	471	
		182		215			31		
.530	9.583 3882		9.617 8672		0.382 1328	9.965 5211		**.470**	
		183		214			32		
531	9.583 4065		9.617 8886		0.382 1114	9.965 5179		469	
532	9.583 4248	183	9.617 9100	214	0.382 0900	9.965 5148	31	468	
533	9.583 4431	183	9.617 9314	214	0.382 0686	9.965 5117	31	467	
		182		214			32		
534	9.583 4613		9.617 9528		0.382 0472	9.965 5085		466	
535	9.583 4796	183	9.617 9742	214	0.382 0258	9.965 5054	31	465	
536	9.583 4979	183	9.617 9956	214	0.382 0044	9.965 5022	32	464	
		182		214			31		
537	9.583 5161		9.618 0170		0.381 9830	9.965 4991		463	
538	9.583 5344	183	9.618 0385	215	0.381 9615	9.965 4959	32	462	
539	9.583 5527	183	9.618 0599	214	0.381 9401	9.965 4928	31	461	
		182		214			32		
.540	9.583 5709		9.618 0813		0.381 9187	9.965 4896		**.460**	
		183		214			31		
541	9.583 5892		9.618 1027		0.381 8973	9.965 4865		459	
542	9.583 6074	182	9.618 1241	214	0.381 8759	9.965 4833	32	458	
543	9.583 6257	183	9.618 1455	214	0.381 8545	9.965 4802	31	457	
		183		214			32		
544	9.583 6440		9.618 1669		0.381 8331	9.965 4770		456	
545	9.583 6622	182	9.618 1883	214	0.381 8117	9.965 4739	31	455	
546	9.583 6805	183	9.618 2097	214	0.381 7903	9.965 4708	31	454	
		182		214			32		
547	9.583 6987		9.618 2311		0.381 7689	9.965 4676		453	
548	9.583 7170	183	9.618 2525	214	0.381 7475	9.965 4645	31	452	
549	9.583 7352	182	9.618 2739	214	0.381 7261	9.965 4613	32	451	
		183		214			31		
.550	9.583 7535		9.618 2953		0.381 7047	9.965 4582		**.450**	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	215
1	21.5
2	43.0
3	64.5
4	86.0
5	107.5
6	129.0
7	150.5
8	172.0
9	193.5

	214
1	21.4
2	42.8
3	64.2
4	85.6
5	107.0
6	128.4
7	149.8
8	171.2
9	192.6

	183
1	18.3
2	36.6
3	54.9
4	73.2
5	91.5
6	109.8
7	128.1
8	146.4
9	164.7

	182
1	18.2
2	36.4
3	54.6
4	72.8
5	91.0
6	109.2
7	127.4
8	145.6
9	163.8

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

$67^\circ.500 - 67^\circ.450$

$22^\circ.550 - 22^\circ.600$

22°	sin	d	tang	d	cotg	cos	d		P.P.
·550	9.583 7535		9.618 2953		0.381 7047	9.965 4582		·450	
		183		214			32		
551	9.583 7718		9.618 3167		0.381 6833	9.965 4550		449	
552	9.583 7900	182	9.618 3381	214	0.381 6619	9.965 4519	31	448	
553	9.583 8083	183	9.618 3595	214	0.381 6405	9.965 4487	32	447	
		182		214			31		
554	9.583 8265		9.618 3809		0.381 6191	9.965 4456		446	
555	9.583 8448	183	9.618 4023	214	0.381 5977	9.965 4424	32	445	
556	9.583 8630	182	9.618 4237	214	0.381 5763	9.965 4393	31	444	
		183		214			32		
557	9.583 8813		9.618 4451		0.381 5549	9.965 4361		443	
558	9.583 8995	182	9.618 4665	214	0.381 5335	9.965 4330	31	442	
559	9.583 9178	183	9.618 4879	214	0.381 5121	9.965 4298	32	441	
		182		214			31		
·560	9.583 9360		9.618 5093		0.381 4907	9.965 4267		·440	
		182		214			32		
561	9.583 9542		9.618 5307		0.381 4693	9.965 4235		439	
562	9.583 9725	183	9.618 5521	214	0.381 4479	9.965 4204	31	438	
563	9.583 9907	182	9.618 5735	214	0.381 4265	9.965 4172	32	437	
		183		214			31		
564	9.584 0090		9.618 5949		0.381 4051	9.965 4141		436	
565	9.584 0272	182	9.618 6163	214	0.381 3837	9.965 4109	32	435	
566	9.584 0455	183	9.618 6377	214	0.381 3623	9.965 4078	31	434	
		182		214			32		
567	9.584 0637		9.618 6591		0.381 3409	9.965 4046		433	
568	9.584 0819	182	9.618 6804	213	0.381 3196	9.965 4015	31	432	
569	9.584 1002	183	9.618 7018	214	0.381 2982	9.965 3983	32	431	
		182		214			31		
·570	9.584 1184		9.618 7232		0.381 2768	9.965 3952		·430	
		182		214			32		
571	9.584 1366		9.618 7446		0.381 2554	9.965 3920		429	
572	9.584 1549	183	9.618 7660	214	0.381 2340	9.965 3889	31	428	
573	9.584 1731	182	9.618 7874	214	0.381 2126	9.965 3857	32	427	
		182		214			31		
574	9.584 1913		9.618 8088		0.381 1912	9.965 3826		426	
575	9.584 2096	183	9.618 8301	213	0.381 1699	9.965 3794	32	425	
576	9.584 2278	182	9.618 8515	214	0.381 1485	9.965 3763	31	424	
		182		214			32		
577	9.584 2460		9.618 8729		0.381 1271	9.965 3731		423	
578	9.584 2643	183	9.618 8943	214	0.381 1057	9.965 3700	31	422	
579	9.584 2825	182	9.618 9157	214	0.381 0843	9.965 3668	32	421	
		182		214			31		
·580	9.584 3007		9.618 9371		0.381 0629	9.965 3637		·420	
		183		213			32		
581	9.584 3190		9.618 9584		0.381 0416	9.965 3605		419	
582	9.584 3372	182	9.618 9798	214	0.381 0202	9.965 3574	31	418	
583	9.584 3554	182	9.619 0012	214	0.380 9988	9.965 3542	32	417	
		182		214			31		
584	9.584 3736		9.619 0226		0.380 9774	9.965 3511		416	
585	9.584 3919	183	9.619 0439	213	0.380 9561	9.965 3479	32	415	
586	9.584 4101	182	9.619 0653	214	0.380 9347	9.965 3448	31	414	
		182		214			32		
587	9.584 4283		9.619 0867		0.380 9133	9.965 3416		413	
588	9.584 4465	182	9.619 1081	214	0.380 8919	9.965 3385	31	412	
589	9.584 4647	182	9.619 1294	213	0.380 8706	9.965 3353	32	411	
		183		214			32		
·590	9.584 4830		9.619 1508		0.380 8492	9.965 3321		·410	
		182		214			31		
591	9.584 5012		9.619 1722		0.380 8278	9.965 3290		409	
592	9.584 5194	182	9.619 1936	214	0.380 8064	9.965 3258	32	408	
593	9.584 5376	182	9.619 2149	213	0.380 7851	9.965 3227	31	407	
		182		214			32		
594	9.584 5558		9.619 2363		0.380 7637	9.965 3195		406	
595	9.584 5740	182	9.619 2577	214	0.380 7423	9.965 3164	31	405	
596	9.584 5923	183	9.619 2790	213	0.380 7210	9.965 3132	32	404	
		182		214			31		
597	9.584 6105		9.619 3004		0.380 6996	9.965 3101		403	
598	9.584 6287	182	9.619 3218	214	0.380 6782	9.965 3069	32	402	
599	9.584 6469	182	9.619 3431	213	0.380 6569	9.965 3038	31	401	
		182		214			32		
.600	9.584 6651		9.619 3645		0.380 6355	9.965 3006		·400	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	214
1	21.4
2	42.8
3	64.2
4	85.6
5	107.0
6	128.4
7	149.8
8	171.2
9	192.6

	213
1	21.3
2	42.6
3	63.9
4	85.2
5	106.5
6	127.8
7	149.1
8	170.4
9	191.7

	183
1	18.3
2	36.6
3	54.9
4	73.2
5	91.5
6	109.8
7	128.1
8	146.4
9	164.7

	182
1	18.2
2	36.4
3	54.6
4	72.8
5	91.0
6	109.2
7	127.4
8	145.6
9	163.8

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

$67^\circ.450 - 67^\circ.400$

22°.600 — 22°.650

22°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.584 6651		9.619 3645		0.380 6355	9.965 3006		**.400**	
		182		214			32		
601	9.584 6833		9.619 3859		0.380 6141	9.965 2974		399	
602	9.584 7015	182	9.619 4072	213	0.380 5928	9.965 2943	31	398	
603	9.584 7197	182	9.619 4286	214	0.380 5714	9.965 2911	32	397	
		182		213			31		
604	9.584 7379		9.619 4499		0.380 5501	9.965 2880		396	
605	9.584 7561	182	9.619 4713	214	0.380 5287	9.965 2848	32	395	
606	9.584 7743	182	9.619 4927	214	0.380 5073	9.965 2817	31	394	
		182		213			32		
607	9.584 7925		9.619 5140		0.380 4860	9.965 2785		393	
608	9.584 8107	182	9.619 5354	214	0.380 4646	9.965 2754	31	392	
609	9.584 8289	182	9.619 5567	213	0.380 4433	9.965 2722	32	391	
		182		214			32		
.610	9.584 8471		9.619 5781		0.380 4219	9.965 2690		**.390**	
		182		214			31		
611	9.584 8653		9.619 5995		0.380 4005	9.965 2659		389	
612	9.584 8835	182	9.619 6208	213	0.380 3792	9.965 2627	32	388	
613	9.584 9017	182	9.619 6422	214	0.380 3578	9.965 2596	31	387	
		182		213			32		
614	9.584 9199		9.619 6635		0.380 3365	9.965 2564		386	
615	9.584 9381	182	9.619 6849	214	0.380 3151	9.965 2533	31	385	
616	9.584 9563	182	9.619 7062	213	0.380 2938	9.965 2501	32	384	
		182		214			32		
617	9.584 9745		9.619 7276		0.380 2724	9.965 2469		383	
618	9.584 9927	182	9.619 7489	213	0.380 2511	9.965 2438	31	382	
619	9.585 0109	182	9.619 7703	214	0.380 2297	9.965 2406	32	381	
		182		213			31		
.620	9.585 0291		9.619 7916		0.380 2084	9.965 2375		**.380**	
		182		214			32		
621	9.585 0473		9.619 8130		0.380 1870	9.965 2343		379	
622	9.585 0655	182	9.619 8343	213	0.380 1657	9.965 2312	31	378	
623	9.585 0837	182	9.619 8557	214	0.380 1443	9.965 2280	32	377	
		182		213			32		
624	9.585 1019		9.619 8770		0.380 1230	9.965 2248		376	
625	9.585 1201	182	9.619 8984	214	0.380 1016	9.965 2217	31	375	
626	9.585 1382	181	9.619 9197	213	0.380 0803	9.965 2185	32	374	
		182		214			31		
627	9.585 1564		9.619 9411		0.380 0589	9.965 2154		373	
628	9.585 1746	182	9.619 9624	213	0.380 0376	9.965 2122	32	372	
629	9.585 1928	182	9.619 9838	214	0.380 0162	9.965 2090	32	371	
		182		213			31		
.630	9.585 2110		9.620 0051		0.379 9949	9.965 2059		**.370**	
		182		213			32		
631	9.585 2292		9.620 0264		0.379 9736	9.965 2027		369	
632	9.585 2473	181	9.620 0478	214	0.379 9522	9.965 1996	31	368	
633	9.585 2655	182	9.620 0691	213	0.379 9309	9.965 1964	32	367	
		182		214			32		
634	9.585 2837		9.620 0905		0.379 9095	9.965 1932		366	
635	9.585 3019	182	9.620 1118	213	0.379 8882	9.965 1901	31	365	
636	9.585 3201	182	9.620 1331	213	0.379 8669	9.965 1869	32	364	
		181		214			31		
637	9.585 3382		9.620 1545		0.379 8455	9.965 1838		363	
638	9.585 3564	182	9.620 1758	213	0.379 8242	9.965 1806	32	362	
639	9.585 3746	182	9.620 1972	214	0.379 8028	9.965 1774	32	361	
		182		213			31		
.640	9.585 3928		9.620 2185		0.379 7815	9.965 1743		**.360**	
		181		213			32		
641	9.585 4109		9.620 2398		0.379 7602	9.965 1711		359	
642	9.585 4291	182	9.620 2612	214	0.379 7388	9.965 1679	32	358	
643	9.585 4473	182	9.620 2825	213	0.379 7175	9.965 1648	31	357	
		181		213			32		
644	9.585 4654		9.620 3038		0.379 6962	9.965 1616		356	
645	9.585 4836	182	9.620 3252	214	0.379 6748	9.965 1585	31	355	
646	9.585 5018	182	9.620 3465	213	0.379 6535	9.965 1553	32	354	
		182		213			32		
647	9.585 5200		9.620 3678		0.379 6322	9.965 1521		353	
648	9.585 5381	181	9.620 3891	213	0.379 6109	9.965 1490	31	352	
649	9.585 5563	182	9.620 4105	214	0.379 5895	9.965 1458	32	351	
		182		213			32		
.650	9.585 5745		9.620 4318		0.379 5682	9.965 1426		**.350**	
	cos	d	cotg	d	tang	sin	d	**67°**	P.P.

	214
1	21.4
2	42.8
3	64.2
4	85.6
5	107.0
6	128.4
7	149.8
8	171.2
9	192.6

	213
1	21.3
2	42.6
3	63.9
4	85.2
5	106.5
6	127.8
7	149.1
8	170.4
9	191.7

	182
1	18.2
2	36.4
3	54.6
4	72.8
5	91.0
6	109.2
7	127.4
8	145.6
9	163.8

	181
1	18.1
2	36.2
3	54.3
4	72.4
5	90.5
6	108.6
7	126.7
8	144.8
9	162.9

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

67°.400 — 67°.350

22°.650 — 22°.700

22°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.585 5745		9.620 4318		0.379 5682	9.965 1426		**.350**	
		181		213			31		
651	9.585 5926		9.620 4531		0.379 5469	9.965 1395		349	
652	9.585 6108	182	9.620 4745	214	0.379 5255	9.965 1363	32	348	
653	9.585 6289	181	9.620 4958	213	0.379 5042	9.965 1332	31	347	
		182		213			32		
654	9.585 6471		9.620 5171		0.379 4829	9.965 1300		346	
655	9.585 6653	182	9.620 5384	213	0.379 4616	9.965 1268	32	345	
656	9.585 6834	181	9.620 5598	214	0.379 4402	9.965 1237	31	344	
		182		213			32		
657	9.585 7016		9.620 5811		0.379 4189	9.965 1205		343	
658	9.585 7197	181	9.620 6024	213	0.379 3976	9.965 1173	32	342	
659	9.585 7379	182	9.620 6237	213	0.379 3763	9.965 1142	31	341	
		182		213			32		
.660	9.585 7561		9.620 6450		0.379 3550	9.965 1110		**.340**	
		181		214			32		
661	9.585 7742		9.620 6664		0.379 3336	9.965 1078		339	
662	9.585 7924	182	9.620 6877	213	0.379 3123	9.965 1047	31	338	
663	9.585 8105	181	9.620 7090	213	0.379 2910	9.965 1015	32	337	
		182		213			31		
664	9.585 8287		9.620 7303		0.379 2697	9.965 0984		336	
665	9.585 8468	181	9.620 7516	213	0.379 2484	9.965 0952	32	335	
666	9.585 8650	182	9.620 7730	214	0.379 2270	9.965 0920	32	334	
		181		213			31		
667	9.585 8831		9.620 7943		0.379 2057	9.965 0889		333	
668	9.585 9013	182	9.620 8156	213	0.379 1844	9.965 0857	32	332	
669	9.585 9194	181	9.620 8369	213	0.379 1631	9.965 0825	32	331	
		182		213			31		
.670	9.585 9376		9.620 8582		0.379 1418	9.965 0794		**.330**	
		181		213			32		
671	9.585 9557		9.620 8795		0.379 1205	9.965 0762		329	
672	9.585 9739	182	9.620 9008	213	0.379 0992	9.965 0730	32	328	
673	9.585 9920	181	9.620 9221	213	0.379 0779	9.965 0699	31	327	
		182		214			32		
674	9.586 0102		9.620 9435		0.379 0565	9.965 0667		326	
675	9.586 0283	181	9.620 9648	213	0.379 0352	9.965 0635	32	325	
676	9.586 0464	181	9.620 9861	213	0.379 0139	9.965 0604	31	324	
		182		213			32		
677	9.586 0646		9.621 0074		0.378 9926	9.965 0572		323	
678	9.586 0827	181	9.621 0287	213	0.378 9713	9.965 0540	32	322	
679	9.586 1009	182	9.621 0500	213	0.378 9500	9.965 0509	31	321	
		181		213			32		
.680	9.586 1190		9.621 0713		0.378 9287	9.965 0477		**.320**	
		181		213			32		
681	9.586 1371		9.621 0926		0.378 9074	9.965 0445		319	
682	9.586 1553	182	9.621 1139	213	0.378 8861	9.965 0414	31	318	
683	9.586 1734	181	9.621 1352	213	0.378 8648	9.965 0382	32	317	
		181		213			32		
684	9.586 1915		9.621 1565		0.378 8435	9.965 0350		316	
685	9.586 2097	182	9.621 1778	213	0.378 8222	9.965 0318	32	315	
686	9.586 2278	181	9.621 1991	213	0.378 8009	9.965 0287	31	314	
		181		213			32		
687	9.586 2459		9.621 2204		0.378 7796	9.965 0255		313	
688	9.586 2641	182	9.621 2417	213	0.378 7583	9.965 0223	32	312	
689	9.586 2822	181	9.621 2630	213	0.378 7370	9.965 0192	31	311	
		181		213			32		
.690	9.586 3003		9.621 2843		0.378 7157	9.965 0160		**.310**	
		182		213			32		
691	9.586 3185		9.621 3056		0.378 6944	9.965 0128		309	
692	9.586 3366	181	9.621 3269	213	0.378 6731	9.965 0097	31	308	
693	9.586 3547	181	9.621 3482	213	0.378 6518	9.965 0065	32	307	
		181		213			32		
694	9.586 3728		9.621 3695		0.378 6305	9.965 0033		306	
695	9.586 3910	182	9.621 3908	213	0.378 6092	9.965 0002	31	305	
696	9.586 4091	181	9.621 4121	213	0.378 5879	9.964 9970	32	304	
		181		213			32		
697	9.586 4272		9.621 4334		0.378 5666	9.964 9938		303	
698	9.586 4453	181	9.621 4547	213	0.378 5453	9.964 9906	32	302	
699	9.586 4635	182	9.621 4760	213	0.378 5240	9.964 9875	31	301	
		181		213			32		
.700	9.586 4816		9.621 4973		0.378 5027	9.964 9843		**.300**	
	cos	d	cotg	d	tang	sin	d	**67°**	P.P.

	214
1	21.4
2	42.8
3	64.2
4	85.6
5	107.0
6	128.4
7	149.8
8	171.2
9	192.6

	213
1	21.3
2	42.6
3	63.9
4	85.2
5	106.5
6	127.8
7	149.1
8	170.4
9	191.7

	182
1	18.2
2	36.4
3	54.6
4	72.8
5	91.0
6	109.2
7	127.4
8	145.6
9	163.8

	181
1	18.1
2	36.2
3	54.3
4	72.4
5	90.5
6	108.6
7	126.7
8	144.8
9	162.9

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

67°.350 — 67°.300

$22^\circ.700$ — $22^\circ.750$

22°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.586 4816		9.621 4973		0.378 5027	9.964 9843		**.300**	
		181		213			32		
701	9.586 4997		9.621 5186		0.378 4814	9.964 9811		299	
702	9.586 5178	181	9.621 5399	213	0.378 4601	9.964 9780	31	298	
703	9.586 5359	181	9.621 5611	212	0.378 4389	9.964 9748	32	297	
		182		213			32		
704	9.586 5541		9.621 5824		0.378 4176	9.964 9716		296	
705	9.586 5722	181	9.621 6037	213	0.378 3963	9.964 9685	31	295	
706	9.586 5903	181	9.621 6250	213	0.378 3750	9.964 9653	32	294	
		181		213			32		
707	9.586 6084		9.621 6463		0.378 3537	9.964 9621		293	
708	9.586 6265	181	9.621 6676	213	0.378 3324	9.964 9589	32	292	
709	9.586 6446	181	9.621 6889	213	0.378 3111	9.964 9558	31	291	
		181		212			32		
.710	9.586 6627		9.621 7101		0.378 2899	9.964 9526		**.290**	
		181		213			32		
711	9.586 6808		9.621 7314		0.378 2686	9.964 9494		289	
712	9.586 6990	182	9.621 7527	213	0.378 2473	9.964 9462	32	288	
713	9.586 7171	181	9.621 7740	213	0.378 2260	9.964 9431	31	287	
		181		213			32		
714	9.586 7352		9.621 7953		0.378 2047	9.964 9399		286	
715	9.586 7533	181	9.621 8166	213	0.378 1834	9.964 9367	32	285	
716	9.586 7714	181	9.621 8378	212	0.378 1622	9.964 9336	31	284	
		181		213			32		
717	9.586 7895		9.621 8591		0.378 1409	9.964 9304		283	
718	9.586 8076	181	9.621 8804	213	0.378 1196	9.964 9272	32	282	
719	9.586 8257	181	9.621 9017	213	0.378 0983	9.964 9240	32	281	
		181		212			31		
.720	9.586 8438		9.621 9229		0.378 0771	9.964 9209		**.280**	
		181		213			32		
721	9.586 8619		9.621 9442		0.378 0558	9.964 9177		279	
722	9.586 8800	181	9.621 9655	213	0.378 0345	9.964 9145	32	278	
723	9.586 8981	181	9.621 9868	213	0.378 0132	9.964 9113	32	277	
		181		212			31		
724	9.586 9162		9.622 0080		0.377 9920	9.964 9082		276	
725	9.586 9343	181	9.622 0293	213	0.377 9707	9.964 9050	32	275	
726	9.586 9524	181	9.622 0506	213	0.377 9494	9.964 9018	32	274	
		181		213			32		
727	9.586 9705		9.622 0719		0.377 9281	9.964 8986		273	
728	9.586 9886	181	9.622 0931	212	0.377 9069	9.964 8955	31	272	
729	9.587 0067	181	9.622 1144	213	0.377 8856	9.964 8923	32	271	
		181		213			32		
.730	9.587 0248		9.622 1357		0.377 8643	9.964 8891		**.270**	
		181		212			32		
731	9.587 0429		9.622 1569		0.377 8431	9.964 8859		269	
732	9.587 0610	181	9.622 1782	213	0.377 8218	9.964 8828	31	268	
733	9.587 0791	181	9.622 1995	213	0.377 8005	9.964 8796	32	267	
		181		212			32		
734	9.587 0972		9.622 2207		0.377 7793	9.964 8764		266	
735	9.587 1152	180	9.622 2420	213	0.377 7580	9.964 8732	32	265	
736	9.587 1333	181	9.622 2633	213	0.377 7367	9.964 8701	31	264	
		181		212			32		
737	9.587 1514		9.622 2845		0.377 7155	9.964 8669		263	
738	9.587 1695	181	9.622 3058	213	0.377 6942	9.964 8637	32	262	
739	9.587 1876	181	9.622 3271	213	0.377 6729	9.964 8605	32	261	
		181		212			31		
.740	9.587 2057		9.622 3483		0.377 6517	9.964 8574		**.260**	
		181		213			32		
741	9.587 2238		9.622 3696		0.377 6304	9.964 8542		259	
742	9.587 2418	180	9.622 3908	212	0.377 6092	9.964 8510	32	258	
743	9.587 2599	181	9.622 4121	213	0.377 5879	9.964 8478	32	257	
		181		213			32		
744	9.587 2780		9.622 4334		0.377 5666	9.964 8446		256	
745	9.587 2961	181	9.622 4546	212	0.377 5454	9.964 8415	31	255	
746	9.587 3142	181	9.622 4759	213	0.377 5241	9.964 8383	32	254	
		181		212			32		
747	9.587 3323		9.622 4971		0.377 5029	9.964 8351		253	
748	9.587 3503	180	9.622 5184	213	0.377 4816	9.964 8319	32	252	
749	9.587 3684	181	9.622 5397	213	0.377 4603	9.964 8288	31	251	
		181		212			32		
.750	9.587 3865		9.622 5609		0.377 4391	9.964 8256		**.250**	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	213	212
1	21.3	21.2
2	42.6	42.4
3	63.9	63.6
4	85.2	84.8
5	106.5	106.0
6	127.8	127.2
7	149.1	148.4
8	170.4	169.6
9	191.7	190.8

	182	181
1	18.2	18.1
2	36.4	36.2
3	54.6	54.3
4	72.8	72.4
5	91.0	90.5
6	109.2	108.6
7	127.4	126.7
8	145.6	144.8
9	163.8	162.9

	180
1	18.0
2	36.0
3	54.0
4	72.0
5	90.0
6	108.0
7	126.0
8	144.0
9	162.0

	32
1	3.2
2	6.4
3	9.6
4	12.8
5	16.0
6	19.2
7	22.4
8	25.6
9	28.8

	31
1	3.1
2	6.2
3	9.3
4	12.4
5	15.5
6	18.6
7	21.7
8	24.8
9	27.9

$67^\circ.300$ — $67^\circ.250$

$22^\circ.750 - 22^\circ.800$

22°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.587 3865		9.622 5609		0.377 4391	9.964 8256		.250	
		181		213			32		
751	9.587 4046		9.622 5822		0.377 4178	9.964 8224		249	
752	9.587 4226	180	9.622 6034	212	0.377 3966	9.964 8192	32	248	
753	9.587 4407	181	9.622 6247	213	0.377 3753	9.964 8160	32	247	
		181		212			31		
754	9.587 4588		9.622 6459		0.377 3541	9.964 8129		246	
755	9.587 4769	181	9.622 6672	213	0.377 3328	9.964 8097	32	245	
756	9.587 4949	180	9.622 6884	212	0.377 3116	9.964 8065	32	244	
		181		213			32		
757	9.587 5130		9.622 7097		0.377 2903	9.964 8033		243	
758	9.587 5311	181	9.622 7309	212	0.377 2691	9.964 8001	32	242	
759	9.587 5491	180	9.622 7522	213	0.377 2478	9.964 7970	31	241	
		181		212			32		
.760	9.587 5672		9.622 7734		0.377 2266	9.964 7938		.240	
		181		213			32		
761	9.587 5853		9.622 7947		0.377 2053	9.964 7906		239	
762	9.587 6033	180	9.622 8159	212	0.377 1841	9.964 7874	32	238	
763	9.587 6214	181	9.622 8372	213	0.377 1628	9.964 7842	32	237	
		181		212			31		
764	9.587 6395		9.622 8584		0.377 1416	9.964 7811		236	
765	9.587 6575	180	9.622 8796	212	0.377 1204	9.964 7779	32	235	
766	9.587 6756	181	9.622 9009	213	0.377 0991	9.964 7747	32	234	
		180		212			32		
767	9.587 6936		9.622 9221		0.377 0779	9.964 7715		233	
768	9.587 7117	181	9.622 9434	213	0.377 0566	9.964 7683	32	232	
769	9.587 7298	181	9.622 9646	212	0.377 0354	9.964 7652	31	231	
		180		213			32		
.770	9.587 7478		9.622 9859		0.377 0141	9.964 7620		.230	
		181		212			32		
771	9.587 7659		9.623 0071		0.376 9929	9.964 7588		229	
772	9.587 7839	180	9.623 0283	212	0.376 9717	9.964 7556	32	228	
773	9.587 8020	181	9.623 0496	213	0.376 9504	9.964 7524	32	227	
		181		212			32		
774	9.587 8201		9.623 0708		0.376 9292	9.964 7492		226	
775	9.587 8381	180	9.623 0920	212	0.376 9080	9.964 7461	31	225	
776	9.587 8562	181	9.623 1133	213	0.376 8867	9.964 7429	32	224	
		180		212			32		
777	9.587 8742		9.623 1345		0.376 8655	9.964 7397		223	
778	9.587 8923	181	9.623 1557	212	0.376 8443	9.964 7365	32	222	
779	9.587 9103	180	9.623 1770	213	0.376 8230	9.964 7333	32	221	
		181		212			31		
.780	9.587 9284		9.623 1982		0.376 8018	9.964 7302		.220	
		180		212			32		
781	9.587 9464		9.623 2194		0.376 7806	9.964 7270		219	
782	9.587 9645	181	9.623 2407	213	0.376 7593	9.964 7238	32	218	
783	9.587 9825	180	9.623 2619	212	0.376 7381	9.964 7206	32	217	
		181		212			32		
784	9.588 0006		9.623 2831		0.376 7169	9.964 7174		216	
785	9.588 0186	180	9.623 3044	213	0.376 6956	9.964 7142	32	215	
786	9.588 0366	180	9.623 3256	212	0.376 6744	9.964 7110	32	214	
		181		212			31		
787	9.588 0547		9.623 3468		0.376 6532	9.964 7079		213	
788	9.588 0727	180	9.623 3681	213	0.376 6319	9.964 7047	32	212	
789	9.588 0908	181	9.623 3893	212	0.376 6107	9.964 7015	32	211	
		180		212			32		
.790	9.588 1088		9.623 4105		0.376 5895	9.964 6983		.210	
		181		212			32		
791	9.588 1269		9.623 4317		0.376 5683	9.964 6951		209	
792	9.588 1449	180	9.623 4530	213	0.376 5470	9.964 6919	32	208	
793	9.588 1629	180	9.623 4742	212	0.376 5258	9.964 6888	31	207	
		181		212			32		
794	9.588 1810		9.623 4954		0.376 5046	9.964 6856		206	
795	9.588 1990	180	9.623 5166	212	0.376 4834	9.964 6824	32	205	
796	9.588 2170	180	9.623 5378	212	0.376 4622	9.964 6792	32	204	
		181		213			32		
797	9.588 2351		9.623 5591		0.376 4409	9.964 6760		203	
798	9.588 2531	180	9.623 5803	212	0.376 4197	9.964 6728	32	202	
799	9.588 2711	180	9.623 6015	212	0.376 3985	9.964 6696	32	201	
		181		212			31		
.800	9.588 2892		9.623 6227		0.376 3773	9.964 6665		.200	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	213
1	21.3
2	42.6
3	63.9
4	85.2
5	106.5
6	127.8
7	149.1
8	170.4
9	191.7

	212
1	21.2
2	42.4
3	63.6
4	84.8
5	106.0
6	127.2
7	148.4
8	169.6
9	190.8

	181
1	18.1
2	36.2
3	54.3
4	72.4
5	90.5
6	108.6
7	126.7
8	144.8
9	162.9

	180
1	18.0
2	36.0
3	54.0
4	72.0
5	90.0
6	108.0
7	126.0
8	144.0
9	162.0

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

$67^\circ.250 - 67^\circ.200$

22°.800 — 22°.850

22°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.588 2892		9.623 6227		0.376 3773	9.964 6665		**.200**	
		180		212			32		
801	9.588 3072		9.623 6439		0.376 3561	9.964 6633		199	
802	9.588 3252	180	9.623 6652	213	0.376 3348	9.964 6601	32	198	
803	9.588 3433	181	9.623 6864	212	0.376 3136	9.964 6569	32	197	
		180		212			32		
804	9.588 3613		9.623 7076		0.376 2924	9.964 6537		196	
805	9.588 3793	180	9.623 7288	212	0.376 2712	9.964 6505	32	195	
806	9.588 3974	181	9.623 7500	212	0.376 2500	9.964 6473	32	194	
		180		212			32		
807	9.588 4154		9.623 7712		0.376 2288	9.964 6441		193	
808	9.588 4334	180	9.623 7924	212	0.376 2076	9.964 6410	31	192	
809	9.588 4514	180	9.623 8137	213	0.376 1863	9.964 6378	32	191	
		180		212			32		
.810	9.588 4694		9.623 8349		0.376 1651	9.964 6346		**.190**	
		181		212			32		
811	9.588 4875		9.623 8561		0.376 1439	9.964 6314		189	
812	9.588 5055	180	9.623 8773	212	0.376 1227	9.964 6282	32	188	
813	9.588 5235	180	9.623 8985	212	0.376 1015	9.964 6250	32	187	
		180		212			32		
814	9.588 5415		9.623 9197		0.376 0803	9.964 6218		186	
815	9.588 5596	181	9.623 9409	212	0.376 0591	9.964 6186	32	185	
816	9.588 5776	180	9.623 9621	212	0.376 0379	9.964 6155	31	184	
		180		212			32		
817	9.588 5956		9.623 9833		0.376 0167	9.964 6123		183	
818	9.588 6136	180	9.624 0045	212	0.375 9955	9.964 6091	32	182	
819	9.588 6316	180	9.624 0257	212	0.375 9743	9.964 6059	32	181	
		180		212			32		
.820	9.588 6496		9.624 0469		0.375 9531	9.964 6027		**.180**	
		180		212			32		
821	9.588 6676		9.624 0681		0.375 9319	9.964 5995		179	
822	9.588 6857	181	9.624 0893	212	0.375 9107	9.964 5963	32	178	
823	9.588 7037	180	9.624 1105	212	0.375 8895	9.964 5931	32	177	
		180		212			32		
824	9.588 7217		9.624 1317		0.375 8683	9.964 5899		176	
825	9.588 7397	180	9.624 1529	212	0.375 8471	9.964 5868	31	175	
826	9.588 7577	180	9.624 1741	212	0.375 8259	9.964 5836	32	174	
		180		212			32		
827	9.588 7757		9.624 1953		0.375 8047	9.964 5804		173	
828	9.588 7937	180	9.624 2165	212	0.375 7835	9.964 5772	32	172	
829	9.588 8117	180	9.624 2377	212	0.375 7623	9.964 5740	32	171	
		180		212			32		
.830	9.588 8297		9.624 2589		0.375 7411	9.964 5708		**.170**	
		180		212			32		
831	9.588 8477		9.624 2801		0.375 7199	9.964 5676		169	
832	9.588 8657	180	9.624 3013	212	0.375 6987	9.964 5644	32	168	
833	9.588 8837	180	9.624 3225	212	0.375 6775	9.964 5612	32	167	
		180		212			32		
834	9.588 9017		9.624 3437		0.375 6563	9.964 5580		166	
835	9.588 9197	180	9.624 3649	212	0.375 6351	9.964 5548	32	165	
836	9.588 9377	180	9.624 3861	212	0.375 6139	9.964 5516	32	164	
		180		212			31		
837	9.588 9557		9.624 4073		0.375 5927	9.964 5485		163	
838	9.588 9737	180	9.624 4285	212	0.375 5715	9.964 5453	32	162	
839	9.588 9917	180	9.624 4497	212	0.375 5503	9.964 5421	32	161	
		180		212			32		
.840	9.589 0097		9.624 4709		0.375 5291	9.964 5389		**.160**	
		180		212			32		
841	9.589 0277		9.624 4921		0.375 5079	9.964 5357		159	
842	9.589 0457	180	9.624 5132	211	0.375 4868	9.964 5325	32	158	
843	9.589 0637	180	9.624 5344	212	0.375 4656	9.964 5293	32	157	
		180		212			32		
844	9.589 0817		9.624 5556		0.375 4444	9.964 5261		156	
845	9.589 0997	180	9.624 5768	212	0.375 4232	9.964 5229	32	155	
846	9.589 1177	180	9.624 5980	212	0.375 4020	9.964 5197	32	154	
		180		212			32		
847	9.589 1357		9.624 6192		0.375 3808	9.964 5165		153	
848	9.589 1537	180	9.624 6404	212	0.375 3596	9.964 5133	32	152	
849	9.589 1717	180	9.624 6615	211	0.375 3385	9.964 5101	32	151	
		180		212			32		
.850	9.589 1897		9.624 6827		0.375 3173	9.964 5069		**.150**	
	cos	d	cotg	d	tang	sin	d	**67°**	P.P.

	213	212
1	21.3	21.2
2	42.6	42.4
3	63.9	63.6
4	85.2	84.8
5	106.5	106.0
6	127.8	127.2
7	149.1	148.4
8	170.4	169.6
9	191.7	190.8

	211
1	21.1
2	42.2
3	63.3
4	84.4
5	105.5
6	126.6
7	147.7
8	168.8
9	189.9

	181
1	18.1
2	36.2
3	54.3
4	72.4
5	90.5
6	108.6
7	126.7
8	144.8
9	162.9

	180
1	18.0
2	36.0
3	54.0
4	72.0
5	90.0
6	108.0
7	126.0
8	144.0
9	162.0

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

67°.200 — 67°.150

22°.850 — 22°.900

22°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.589 1897		9.624 6827		0.375 3173	9.964 5069		**.150**	
		180		212			31		
851	9.589 2077		9.624 7039		0.375 2961	9.964 5038		149	
852	9.589 2256	179	9.624 7251	212	0.375 2749	9.964 5006	32	148	
853	9.589 2436	180	9.624 7463	212	0.375 2537	9.964 4974	32	147	
		180		211			32		
854	9.589 2616		9.624 7674		0.375 2326	9.964 4942		146	
855	9.589 2796	180	9.624 7886	212	0.375 2114	9.964 4910	32	145	
856	9.589 2976	180	9.624 8098	212	0.375 1902	9.964 4878	32	144	
		180		212			32		
857	9.589 3156		9.624 8310		0.375 1690	9.964 4846		143	
858	9.589 3335	179	9.624 8522	212	0.375 1478	9.964 4814	32	142	
859	9.589 3515	180	9.624 8733	211	0.375 1267	9.964 4782	32	141	
		180		212			32		
.860	9.589 3695		9.624 8945		0.375 1055	9.964 4750		**.140**	
		180		212			32		
861	9.589 3875		9.624 9157		0.375 0843	9.964 4718		139	
862	9.589 4055	180	9.624 9368	211	0.375 0632	9.964 4686	32	138	
863	9.589 4234	179	9.624 9580	212	0.375 0420	9.964 4654	32	137	
		180		212			32		
864	9.589 4414		9.624 9792		0.375 0208	9.964 4622		136	
865	9.589 4594	180	9.625 0004	212	0.374 9996	9.964 4590	32	135	
866	9.589 4774	180	9.625 0215	211	0.374 9785	9.964 4558	32	134	
		179		212			32		
867	9.589 4953		9.625 0427		0.374 9573	9.964 4526		133	
868	9.589 5133	180	9.625 0639	212	0.374 9361	9.964 4494	32	132	
869	9.589 5313	180	9.625 0850	211	0.374 9150	9.964 4462	32	131	
		179		212			32		
.870	9.589 5492		9.625 1062		0.374 8938	9.964 4430		**.130**	
		180		212			32		
871	9.589 5672		9.625 1274		0.374 8726	9.964 4398		129	
872	9.589 5852	180	9.625 1485	211	0.374 8515	9.964 4366	32	128	
873	9.589 6032	180	9.625 1697	212	0.374 8303	9.964 4334	32	127	
		179		212			32		
874	9.589 6211		9.625 1909		0.374 8091	9.964 4302		126	
875	9.589 6391	180	9.625 2120	211	0.374 7880	9.964 4270	32	125	
876	9.589 6571	180	9.625 2332	212	0.374 7668	9.964 4238	32	124	
		179		212			31		
877	9.589 6750		9.625 2544		0.374 7456	9.964 4207		123	
878	9.589 6930	180	9.625 2755	211	0.374 7245	9.964 4175	32	122	
879	9.589 7109	179	9.625 2967	212	0.374 7033	9.964 4143	32	121	
		180		212			32		
.880	9.589 7289		9.625 3179		0.374 6821	9.964 4111		**.120**	
		180		211			32		
881	9.589 7469		9.625 3390		0.374 6610	9.964 4079		119	
882	9.589 7648	179	9.625 3602	212	0.374 6398	9.964 4047	32	118	
883	9.589 7828	180	9.625 3813	211	0.374 6187	9.964 4015	32	117	
		179		212			32		
884	9.589 8007		9.625 4025		0.374 5975	9.964 3983		116	
885	9.589 8187	180	9.625 4236	211	0.374 5764	9.964 3951	32	115	
886	9.589 8367	180	9.625 4448	212	0.374 5552	9.964 3919	32	114	
		179		212			32		
887	9.589 8546		9.625 4660		0.374 5340	9.964 3887		113	
888	9.589 8726	180	9.625 4871	211	0.374 5129	9.964 3855	32	112	
889	9.589 8905	179	9.625 5083	212	0.374 4917	9.964 3823	32	111	
		180		211			32		
.890	9.589 9085		9.625 5294		0.374 4706	9.964 3791		**.110**	
		179		212			32		
891	9.589 9264		9.625 5506		0.374 4494	9.964 3759		109	
892	9.589 9444	180	9.625 5717	211	0.374 4283	9.964 3727	32	108	
893	9.589 9623	179	9.625 5929	212	0.374 4071	9.964 3695	32	107	
		180		211			32		
894	9.589 9803		9.625 6140		0.374 3860	9.964 3663		106	
895	9.589 9982	179	9.625 6352	212	0.374 3648	9.964 3631	32	105	
896	9.590 0162	180	9.625 6563	211	0.374 3437	9.964 3599	32	104	
		179		212			32		
897	9.590 0341		9.625 6775		0.374 3225	9.964 3567		103	
898	9.590 0521	180	9.625 6986	211	0.374 3014	9.964 3535	32	102	
899	9.590 0700	179	9.625 7198	212	0.374 2802	9.964 3503	32	101	
		180		211			33		
.900	9.590 0880		9.625 7409		0.374 2591	9.964 3470		**.100**	
	cos	d	cotg	d	tang	sin	d	**67°**	P.P.

67°.150 — 67°.100

	212
1	21.2
2	42.4
3	63.6
4	84.8
5	106.0
6	127.2
7	148.4
8	169.6
9	190.8

	211
1	21.1
2	42.2
3	63.3
4	84.4
5	105.5
6	126.6
7	147.7
8	168.8
9	189.9

	180
1	18.0
2	36.0
3	54.0
4	72.0
5	90.0
6	108.0
7	126.0
8	144.0
9	162.0

	179	33
1	17.9	3.3
2	35.8	6.6
3	53.7	9.9
4	71.6	13.2
5	89.5	16.5
6	107.4	19.8
7	125.3	23.1
8	143.2	26.4
9	161.1	29.7

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

22°.900 — 22°.950

22°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.590 0880		9.625 7409		0.374 2591	9.964 3470		.100	
		179		212			32		
901	9.590 1059		9.625 7621		0.374 2379	9.964 3438		099	
902	9.590 1238	179	9.625 7832	211	0.374 2168	9.964 3406	32	098	
903	9.590 1418	180	9.625 8043	211	0.374 1957	9.964 3374	32	097	
		179		212			32		
904	9.590 1597		9.625 8255		0.374 1745	9.964 3342		096	
905	9.590 1777	180	9.625 8466	211	0.374 1534	9.964 3310	32	095	
906	9.590 1956	179	9.625 8678	212	0.374 1322	9.964 3278	32	094	
		179		211			32		
907	9.590 2135		9.625 8889		0.374 1111	9.964 3246		093	
908	9.590 2315	180	9.625 9101	212	0.374 0899	9.964 3214	32	092	
909	9.590 2494	179	9.625 9312	211	0.374 0688	9.964 3182	32	091	
		180		211			32		
.910	9.590 2674		9.625 9523		0.374 0477	9.964 3150		.090	
		179		212			32		
911	9.590 2853		9.625 9735		0.374 0265	9.964 3118		089	
912	9.590 3032	179	9.625 9946	211	0.374 0054	9.964 3086	32	088	
913	9.590 3212	180	9.626 0157	211	0.373 9843	9.964 3054	32	087	
		179		212			32		
914	9.590 3391		9.626 0369		0.373 9631	9.964 3022		086	
915	9.590 3570	179	9.626 0580	211	0.373 9420	9.964 2990	32	085	
916	9.590 3750	180	9.626 0792	212	0.373 9208	9.964 2958	32	084	
		179		211			32		
917	9.590 3929		9.626 1003		0.373 8997	9.964 2926		083	
918	9.590 4108	179	9.626 1214	211	0.373 8786	9.964 2894	32	082	
919	9.590 4287	179	9.626 1426	212	0.373 8574	9.964 2862	32	081	
		180		211			32		
.920	9.590 4467		9.626 1637		0.373 8363	9.964 2830		.080	
		179		211			32		
921	9.590 4646		9.626 1848		0.373 8152	9.964 2798		079	
922	9.590 4825	179	9.626 2059	211	0.373 7941	9.964 2766	32	078	
923	9.590 5004	179	9.626 2271	212	0.373 7729	9.964 2734	32	077	
		180		211			32		
924	9.590 5184		9.626 2482		0.373 7518	9.964 2702		076	
925	9.590 5363	179	9.626 2693	211	0.373 7307	9.964 2670	32	075	
926	9.590 5542	179	9.626 2905	212	0.373 7095	9.964 2637	33	074	
		179		211			32		
927	9.590 5721		9.626 3116		0.373 6884	9.964 2605		073	
928	9.590 5901	180	9.626 3327	211	0.373 6673	9.964 2573	32	072	
929	9.590 6080	179	9.626 3538	211	0.373 6462	9.964 2541	32	071	
		179		212			32		
.930	9.590 6259		9.626 3750		0.373 6250	9.964 2509		.070	
		179		211			32		
931	9.590 6438		9.626 3961		0.373 6039	9.964 2477		069	
932	9.590 6617	179	9.626 4172	211	0.373 5828	9.964 2445	32	068	
933	9.590 6796	179	9.626 4383	211	0.373 5617	9.964 2413	32	067	
		180		212			32		
934	9.590 6976		9.626 4595		0.373 5405	9.964 2381		066	
935	9.590 7155	179	9.626 4806	211	0.373 5194	9.964 2349	32	065	
936	9.590 7334	179	9.626 5017	211	0.373 4983	9.964 2317	32	064	
		179		211			32		
937	9.590 7513		9.626 5228		0.373 4772	9.964 2285		063	
938	9.590 7692	179	9.626 5439	211	0.373 4561	9.964 2253	32	062	
939	9.590 7871	179	9.626 5651	212	0.373 4349	9.964 2221	32	061	
		179		211			33		
.940	9.590 8050		9.626 5862		0.373 4138	9.964 2188		.060	
		179		211			32		
941	9.590 8229		9.626 6073		0.373 3927	9.964 2156		059	
942	9.590 8408	179	9.626 6284	211	0.373 3716	9.964 2124	32	058	
943	9.590 8587	179	9.626 6495	211	0.373 3505	9.964 2092	32	057	
		180		211			32		
944	9.590 8767		9.626 6706		0.373 3294	9.964 2060		056	
945	9.590 8946	179	9.626 6918	212	0.373 3082	9.964 2028	32	055	
946	9.590 9125	179	9.626 7129	211	0.373 2871	9.964 1996	32	054	
		179		211			32		
947	9.590 9304		9.626 7340		0.373 2660	9.964 1964		053	
948	9.590 9483	179	9.626 7551	211	0.373 2449	9.964 1932	32	052	
949	9.590 9662	179	9.626 7762	211	0.373 2238	9.964 1900	32	051	
		179		211			32		
.950	9.590 9841		9.626 7973		0.373 2027	9.964 1868		.050	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	212
1	21.2
2	42.4
3	63.6
4	84.8
5	106.0
6	127.2
7	148.4
8	169.6
9	190.8

	211
1	21.1
2	42.2
3	63.3
4	84.4
5	105.5
6	126.6
7	147.7
8	168.8
9	189.9

	180
1	18.0
2	36.0
3	54.0
4	72.0
5	90.0
6	108.0
7	126.0
8	144.0
9	162.0

	179
1	17.9
2	35.8
3	53.7
4	71.6
5	89.5
6	107.4
7	125.3
8	143.2
9	161.1

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

67°.100 — 67°.050

22°.950 — 23°.000

22°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.590 9841		9.626 7973		0.373 2027	9.964 1868		.050	
		179		211			32		
951	9.591 0020		9.626 8184		0.373 1816	9.964 1836		049	
952	9.591 0199	179	9.626 8395	211	0.373 1605	9.964 1803	33	048	
953	9.591 0378	179	9.626 8606	211	0.373 1394	9.964 1771	32	047	
		179		211			32		
954	9.591 0557		9.626 8817		0.373 1183	9.964 1739		046	
955	9.591 0736	179	9.626 9029	212	0.373 0971	9.964 1707	32	045	
956	9.591 0915	179	9.626 9240	211	0.373 0760	9.964 1675	32	044	
		179		211			32		
957	9.591 1094		9.626 9451		0.373 0549	9.964 1643		043	
958	9.591 1273	179	9.626 9662	211	0.373 0338	9.964 1611	32	042	
959	9.591 1451	178	9.626 9873	211	0.373 0127	9.964 1579	32	041	
		179		211			32		
.960	9.591 1630		9.627 0084		0.372 9916	9.964 1547		.040	
		179		211			33		
961	9.591 1809		9.627 0295		0.372 9705	9.964 1514		039	
962	9.591 1988	179	9.627 0506	211	0.372 9494	9.964 1482	32	038	
963	9.591 2167	179	9.627 0717	211	0.372 9283	9.964 1450	32	037	
		179		211			32		
964	9.591 2346		9.627 0928		0.372 9072	9.964 1418		036	
965	9.591 2525	179	9.627 1139	211	0.372 8861	9.964 1386	32	035	
966	9.591 2704	179	9.627 1350	211	0.372 8650	9.964 1354	32	034	
		179		211			32		
967	9.591 2883		9.627 1561		0.372 8439	9.964 1322		033	
968	9.591 3061	178	9.627 1772	211	0.372 8228	9.964 1290	32	032	
969	9.591 3240	179	9.627 1983	211	0.372 8017	9.964 1257	33	031	
		179		211			32		
.970	9.591 3419		9.627 2194		0.372 7806	9.964 1225		.030	
		179		211			32		
971	9.591 3598		9.627 2405		0.372 7595	9.964 1193		029	
972	9.591 3777	179	9.627 2616	211	0.372 7384	9.964 1161	32	028	
973	9.591 3956	179	9.627 2827	211	0.372 7173	9.964 1129	32	027	
		178		211			32		
974	9.591 4134		9.627 3038		0.372 6962	9.964 1097		026	
975	9.591 4313	179	9.627 3248	210	0.372 6752	9.964 1065	32	025	
976	9.591 4492	179	9.627 3459	211	0.372 6541	9.964 1033	32	024	
		179		211			33		
977	9.591 4671		9.627 3670		0.372 6330	9.964 1000		023	
978	9.591 4849	178	9.627 3881	211	0.372 6119	9.964 0968	32	022	
979	9.591 5028	179	9.627 4092	211	0.372 5908	9.964 0936	32	021	
		179		211			32		
.980	9.591 5207		9.627 4303		0.372 5697	9.964 0904		.020	
		179		211			32		
981	9.591 5386		9.627 4514		0.372 5486	9.964 0872		019	
982	9.591 5564	178	9.627 4725	211	0.372 5275	9.964 0840	32	018	
983	9.591 5743	179	9.627 4936	211	0.372 5064	9.964 0808	32	017	
		179		210			33		
984	9.591 5922		9.627 5146		0.372 4854	9.964 0775		016	
985	9.591 6101	179	9.627 5357	211	0.372 4643	9.964 0743	32	015	
986	9.591 6279	178	9.627 5568	211	0.372 4432	9.964 0711	32	014	
		179		211			32		
987	9.591 6458		9.627 5779		0.372 4221	9.964 0679		013	
988	9.591 6637	179	9.627 5990	211	0.372 4010	9.964 0647	32	012	
989	9.591 6815	178	9.627 6201	211	0.372 3799	9.964 0615	32	011	
		179		210			33		
.990	9.591 6994		9.627 6411		0.372 3589	9.964 0582		.010	
		179		211			32		
991	9.591 7173		9.627 6622		0.372 3378	9.964 0550		009	
992	9.591 7351	178	9.627 6833	211	0.372 3167	9.964 0518	32	008	
993	9.591 7530	179	9.627 7044	211	0.372 2956	9.964 0486	32	007	
		179		211			32		
994	9.591 7709		9.627 7255		0.372 2745	9.964 0454		006	
995	9.591 7887	178	9.627 7465	210	0.372 2535	9.964 0422	32	005	
996	9.591 8066	179	9.627 7676	211	0.372 2324	9.964 0390	32	004	
		178		211			33		
997	9.591 8244		9.627 7887		0.372 2113	9.964 0357		003	
998	9.591 8423	179	9.627 8098	211	0.372 1902	9.964 0325	32	002	
999	9.591 8602	179	9.627 8309	211	0.372 1691	9.964 0293	32	001	
		178		210			32		
*.000	9.591 8780		9.627 8519		0.372 1481	9.964 0261		.000	
	cos	d	cotg	d	tang	sin	d	67°	P.P.

	212	211
1	21.2	21.1
2	42.4	42.2
3	63.6	63.3
4	84.8	84.4
5	106.0	105.5
6	127.2	126.6
7	148.4	147.7
8	169.6	168.8
9	190.8	189.9

	210
1	21.0
2	42.0
3	63.0
4	84.0
5	105.0
6	126.0
7	147.0
8	168.0
9	189.0

	179
1	17.9
2	35.8
3	53.7
4	71.6
5	89.5
6	107.4
7	125.3
8	143.2
9	161.1

	178
1	17.8
2	35.6
3	53.4
4	71.2
5	89.0
6	106.8
7	124.6
8	142.4
9	160.2

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

67°.050 — 67°.000

23°.000 — 23°.050

23°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.591 8780		9.627 8519		0.372 1481	9.964 0261		*000	
		179		211			32		
001	9.591 8959		9.627 8730		0.372 1270	9.964 0229		999	
002	9.591 9137	178	9.627 8941	211	0.372 1059	9.964 0196	33	998	
003	9.591 9316	179	9.627 9151	210	0.372 0849	9.964 0164	32	997	
		178		211			32		
004	9.591 9494		9.627 9362		0.372 0638	9.964 0132		996	
005	9.591 9673	179	9.627 9573	211	0.372 0427	9.964 0100	32	995	
006	9.591 9851	178	9.627 9784	211	0.372 0216	9.964 0068	32	994	
		179		210			32		
007	9.592 0030		9.627 9994		0.372 0006	9.964 0036		993	
008	9.592 0208	178	9.628 0205	211	0.371 9795	9.964 0003	33	992	
009	9.592 0387	179	9.628 0416	211	0.371 9584	9.963 9971	32	991	
		178		210			32		
.010	9.592 0565		9.628 0626		0.371 9374	9.963 9939		.990	
		179		211			32		
011	9.592 0744		9.628 0837		0.371 9163	9.963 9907		989	
012	9.592 0922	178	9.628 1048	211	0.371 8952	9.963 9875	32	988	
013	9.592 1101	179	9.628 1258	210	0.371 8742	9.963 9842	33	987	
		178		211			32		
014	9.592 1279		9.628 1469		0.371 8531	9.963 9810		986	
015	9.592 1458	179	9.628 1680	211	0.371 8320	9.963 9778	32	985	
016	9.592 1636	178	9.628 1890	210	0.371 8110	9.963 9746	32	984	
		179		211			32		
017	9.592 1815		9.628 2101		0.371 7899	9.963 9714		983	
018	9.592 1993	178	9.628 2312	211	0.371 7688	9.963 9681	33	982	
019	9.592 2171	178	9.628 2522	210	0.371 7478	9.963 9649	32	981	
		179		211			32		
.020	9.592 2350		9.628 2733		0.371 7267	9.963 9617		.980	
		178		210			32		
021	9.592 2528		9.628 2943		0.371 7057	9.963 9585		979	
022	9.592 2707	179	9.628 3154	211	0.371 6846	9.963 9553	32	978	
023	9.592 2885	178	9.628 3365	211	0.371 6635	9.963 9520	33	977	
		178		210			32		
024	9.592 3063		9.628 3575		0.371 6425	9.963 9488		976	
025	9.592 3242	179	9.628 3786	211	0.371 6214	9.963 9456	32	975	
026	9.592 3420	178	9.628 3996	210	0.371 6004	9.963 9424	32	974	
		178		211			32		
027	9.592 3598		9.628 4207		0.371 5793	9.963 9392		973	
028	9.592 3777	179	9.628 4417	210	0.371 5583	9.963 9359	33	972	
029	9.592 3955	178	9.628 4628	211	0.371 5372	9.963 9327	32	971	
		178		210			32		
.030	9.592 4133		9.628 4838		0.371 5162	9.963 9295		.970	
		179		211			32		
031	9.592 4312		9.628 5049		0.371 4951	9.963 9263		969	
032	9.592 4490	178	9.628 5260	211	0.371 4740	9.963 9230	33	968	
033	9.592 4668	178	9.628 5470	210	0.371 4530	9.963 9198	32	967	
		179		211			32		
034	9.592 4847		9.628 5681		0.371 4319	9.963 9166		966	
035	9.592 5025	178	9.628 5891	210	0.371 4109	9.963 9134	32	965	
036	9.592 5203	178	9.628 6102	211	0.371 3898	9.963 9102	32	964	
		178		210			33		
037	9.592 5381		9.628 6312		0.371 3688	9.963 9069		963	
038	9.592 5560	179	9.628 6522	210	0.371 3478	9.963 9037	32	962	
039	9.592 5738	178	9.628 6733	211	0.371 3267	9.963 9005	32	961	
		178		210			32		
.040	9.592 5916		9.628 6943		0.371 3057	9.963 8973		.960	
		178		211			33		
041	9.592 6094		9.628 7154		0.371 2846	9.963 8940		959	
042	9.592 6272	178	9.628 7364	210	0.371 2636	9.963 8908	32	958	
043	9.592 6451	179	9.628 7575	211	0.371 2425	9.963 8876	32	957	
		178		210			32		
044	9.592 6629		9.628 7785		0.371 2215	9.963 8844		956	
045	9.592 6807	178	9.628 7996	211	0.371 2004	9.963 8811	33	955	
046	9.592 6985	178	9.628 8206	210	0.371 1794	9.963 8779	32	954	
		178		210			32		
047	9.592 7163		9.628 8416		0.371 1584	9.963 8747		953	
048	9.592 7342	179	9.628 8627	211	0.371 1373	9.963 8715	32	952	
049	9.592 7520	178	9.628 8837	210	0.371 1163	9.963 8682	33	951	
		178		211			32		
.050	9.592 7698		9.628 9048		0.371 0952	9.963 8650		.950	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	211
1	21.1
2	42.2
3	63.3
4	84.4
5	105.5
6	126.6
7	147.7
8	168.8
9	189.9

	210
1	21.0
2	42.0
3	63.0
4	84.0
5	105.0
6	126.0
7	147.0
8	168.0
9	189.0

	179
1	17.9
2	35.8
3	53.7
4	71.6
5	89.5
6	107.4
7	125.3
8	143.2
9	161.1

	178
1	17.8
2	35.6
3	53.4
4	71.2
5	89.0
6	106.8
7	124.6
8	142.4
9	160.2

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

67°.000 — 66°.950

23°.050 — 23°.100

23°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.592 7698		9.628 9048		0.371 0952	9.963 8650		.950	
		178		210			32		
051	9.592 7876		9.628 9258		0.371 0742	9.963 8618		949	
052	9.592 8054	178	9.628 9468	210	0.371 0532	9.963 8586	32	948	
053	9.592 8232	178	9.628 9679	211	0.371 0321	9.963 8553	33	947	
054	9.592 8410	178	9.628 9889	210	0.371 0111	9.963 8521	32	946	
055	9.592 8588	178	9.629 0100	211	0.370 9900	9.963 8489	32	945	
056	9.592 8766	178	9.629 0310	210	0.370 9690	9.963 8457	32	944	
057	9.592 8945	179	9.629 0520	210	0.370 9480	9.963 8424	33	943	
058	9.592 9123	178	9.629 0731	211	0.370 9269	9.963 8392	32	942	
059	9.592 9301	178	9.629 0941	210	0.370 9059	9.963 8360	32	941	
.060	9.592 9479	178	9.629 1151	210	0.370 8849	9.963 8328	32	.940	
		178		211			33		
061	9.592 9657		9.629 1362		0.370 8638	9.963 8295		939	
062	9.592 9835	178	9.629 1572	210	0.370 8428	9.963 8263	32	938	
063	9.593 0013	178	9.629 1782	210	0.370 8218	9.963 8231	32	937	
064	9.593 0191	178	9.629 1992	210	0.370 8008	9.963 8198	33	936	
065	9.593 0369	178	9.629 2203	211	0.370 7797	9.963 8166	32	935	
066	9.593 0547	178	9.629 2413	210	0.370 7587	9.963 8134	32	934	
067	9.593 0725	178	9.629 2623	210	0.370 7377	9.963 8102	32	933	
068	9.593 0903	178	9.629 2834	211	0.370 7166	9.963 8069	33	932	
069	9.593 1081	178	9.629 3044	210	0.370 6956	9.963 8037	32	931	
.070	9.593 1259	178	9.629 3254	210	0.370 6746	9.963 8005	32	.930	
		178		210			33		
071	9.593 1437		9.629 3464		0.370 6536	9.963 7972		929	
072	9.593 1615	178	9.629 3675	211	0.370 6325	9.963 7940	32	928	
073	9.593 1793	178	9.629 3885	210	0.370 6115	9.963 7908	32	927	
074	9.593 1971	178	9.629 4095	210	0.370 5905	9.963 7876	32	926	
075	9.593 2149	178	9.629 4305	210	0.370 5695	9.963 7843	33	925	
076	9.593 2327	177	9.629 4515	211	0.370 5485	9.963 7811	32	924	
077	9.593 2504	178	9.629 4726	210	0.370 5274	9.963 7779	32	923	
078	9.593 2682	178	9.629 4936	210	0.370 5064	9.963 7746	33	922	
079	9.593 2860	178	9.629 5146	210	0.370 4854	9.963 7714	32	921	
.080	9.593 3038	178	9.629 5356	210	0.370 4644	9.963 7682	32	.920	
		178		210			32		
081	9.593 3216		9.629 5566		0.370 4434	9.963 7650		919	
082	9.593 3394	178	9.629 5777	211	0.370 4223	9.963 7617	33	918	
083	9.593 3572	178	9.629 5987	210	0.370 4013	9.963 7585	32	917	
084	9.593 3750	178	9.629 6197	210	0.370 3803	9.963 7553	32	916	
085	9.593 3927	177	9.629 6407	210	0.370 3593	9.963 7520	33	915	
086	9.593 4105	178	9.629 6617	210	0.370 3383	9.963 7488	32	914	
087	9.593 4283	178	9.629 6827	210	0.370 3173	9.963 7456	32	913	
088	9.593 4461	178	9.629 7037	210	0.370 2963	9.963 7423	33	912	
089	9.593 4639	178	9.629 7248	211	0.370 2752	9.963 7391	32	911	
.090	9.593 4816	177	9.629 7458	210	0.370 2542	9.963 7359	32	.910	
		178		210			33		
091	9.593 4994		9.629 7668		0.370 2332	9.963 7326		909	
092	9.593 5172	178	9.629 7878	210	0.370 2122	9.963 7294	32	908	
093	9.593 5350	178	9.629 8088	210	0.370 1912	9.963 7262	32	907	
094	9.593 5528	178	9.629 8298	210	0.370 1702	9.963 7230	32	906	
095	9.593 5705	177	9.629 8508	210	0.370 1492	9.963 7197	33	905	
096	9.593 5883	178	9.629 8718	210	0.370 1282	9.963 7165	32	904	
097	9.593 6061	178	9.629 8928	210	0.370 1072	9.963 7133	32	903	
098	9.593 6239	178	9.629 9138	210	0.370 0862	9.963 7100	33	902	
099	9.593 6416	177	9.629 9348	210	0.370 0652	9.963 7068	32	901	
.100	9.593 6594	178	9.629 9558	210	0.370 0442	9.963 7036	32	.900	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	211	210
1	21.1	21.0
2	42.2	42.0
3	63.3	63.0
4	84.4	84.0
5	105.5	105.0
6	126.6	126.0
7	147.7	147.0
8	168.8	168.0
9	189.9	189.0

	179	178
1	17.9	17.8
2	35.8	35.6
3	53.7	53.4
4	71.6	71.2
5	89.5	89.0
6	107.4	106.8
7	125.3	124.6
8	143.2	142.4
9	161.1	160.2

	177
1	17.7
2	35.4
3	53.1
4	70.8
5	88.5
6	106.2
7	123.9
8	141.6
9	159.3

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

	32
1	3.2
2	6.4
3	9.6
4	12.8
5	16.0
6	19.2
7	22.4
8	25.6
9	28.8

66°.950 — 66°.900

23°.100 — 23°.150

23°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.593 6594		9.629 9558		0.370 0442	9.963 7036		.900	
		178		210			33		
101	9.593 6772		9.629 9768		0.370 0232	9.963 7003		899	
102	9.593 6949	177	9.629 9978	210	0.370 0022	9.963 6971	32	898	
103	9.593 7127	178	9.630 0188	210	0.369 9812	9.963 6939	32	897	
		178		211			33		
104	9.593 7305		9.630 0399		0.369 9601	9.963 6906		896	
105	9.593 7482	177	9.630 0609	210	0.369 9391	9.963 6874	32	895	
106	9.593 7660	178	9.630 0819	210	0.369 9181	9.963 6842	32	894	
		178		210			33		
107	9.593 7838		9.630 1029		0.369 8971	9.963 6809		893	
108	9.593 8015	177	9.630 1238	209	0.369 8762	9.963 6777	32	892	
109	9.593 8193	178	9.630 1448	210	0.369 8552	9.963 6745	32	891	
		178		210			33		
.110	9.593 8371		9.630 1658		0.369 8342	9.963 6712		.890	
		177		210			32		
111	9.593 8548		9.630 1868		0.369 8132	9.963 6680		889	
112	9.593 8726	178	9.630 2078	210	0.369 7922	9.963 6647	33	888	
113	9.593 8903	177	9.630 2288	210	0.369 7712	9.963 6615	32	887	
		178		210			32		
114	9.593 9081		9.630 2498		0.369 7502	9.963 6583		886	
115	9.593 9259	178	9.630 2708	210	0.369 7292	9.963 6550	33	885	
116	9.593 9436	177	9.630 2918	210	0.369 7082	9.963 6518	32	884	
		178		210			32		
117	9.593 9614		9.630 3128		0.369 6872	9.963 6486		883	
118	9.593 9791	177	9.630 3338	210	0.369 6662	9.963 6453	33	882	
119	9.593 9969	178	9.630 3548	210	0.369 6452	9.963 6421	32	881	
		177		210			32		
.120	9.594 0146		9.630 3758		0.369 6242	9.963 6389		.880	
		178		210			33		
121	9.594 0324		9.630 3968		0.369 6032	9.963 6356		879	
122	9.594 0501	177	9.630 4178	210	0.369 5822	9.963 6324	32	878	
123	9.594 0679	178	9.630 4387	209	0.369 5613	9.963 6292	32	877	
		177		210			33		
124	9.594 0856		9.630 4597		0.369 5403	9.963 6259		876	
125	9.594 1034	178	9.630 4807	210	0.369 5193	9.963 6227	32	875	
126	9.594 1211	177	9.630 5017	210	0.369 4983	9.963 6194	33	874	
		178		210			32		
127	9.594 1389		9.630 5227		0.369 4773	9.963 6162		873	
128	9.594 1566	177	9.630 5437	210	0.369 4563	9.963 6130	32	872	
129	9.594 1744	178	9.630 5647	210	0.369 4353	9.963 6097	33	871	
		177		209			32		
.130	9.594 1921		9.630 5856		0.369 4144	9.963 6065		.870	
		178		210			32		
131	9.594 2099		9.630 6066		0.369 3934	9.963 6033		869	
132	9.594 2276	177	9.630 6276	210	0.369 3724	9.963 6000	33	868	
133	9.594 2454	178	9.630 6486	210	0.369 3514	9.963 5968	32	867	
		177		210			33		
134	9.594 2631		9.630 6696		0.369 3304	9.963 5935		866	
135	9.594 2808	177	9.630 6905	209	0.369 3095	9.963 5903	32	865	
136	9.594 2986	178	9.630 7115	210	0.369 2885	9.963 5871	32	864	
		177		210			33		
137	9.594 3163		9.630 7325		0.369 2675	9.963 5838		863	
138	9.594 3341	178	9.630 7535	210	0.369 2465	9.963 5806	32	862	
139	9.594 3518	177	9.630 7745	210	0.369 2255	9.963 5773	33	861	
		177		209			32		
.140	9.594 3695		9.630 7954		0.369 2046	9.963 5741		.860	
		178		210			32		
141	9.594 3873		9.630 8164		0.369 1836	9.963 5709		859	
142	9.594 4050	177	9.630 8374	210	0.369 1626	9.963 5676	33	858	
143	9.594 4227	177	9.630 8584	210	0.369 1416	9.963 5644	32	857	
		178		209			33		
144	9.594 4405		9.630 8793		0.369 1207	9.963 5611		856	
145	9.594 4582	177	9.630 9003	210	0.369 0997	9.963 5579	32	855	
146	9.594 4759	177	9.630 9213	210	0.369 0787	9.963 5547	32	854	
		178		209			33		
147	9.594 4937		9.630 9422		0.369 0578	9.963 5514		853	
148	9.594 5114	177	9.630 9632	210	0.369 0368	9.963 5482	32	852	
149	9.594 5291	177	9.630 9842	210	0.369 0158	9.963 5449	33	851	
		178		210			32		
.150	9.594 5469		9.631 0052		0.368 9948	9.963 5417		.850	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	211	210
1	21.1	21.0
2	42.2	42.0
3	63.3	63.0
4	84.4	84.0
5	105.5	105.0
6	126.6	126.0
7	147.7	147.0
8	168.8	168.0
9	189.9	189.0

	209
1	20.9
2	41.8
3	62.7
4	83.6
5	104.5
6	125.4
7	146.3
8	167.2
9	188.1

	178
1	17.8
2	35.6
3	53.4
4	71.2
5	89.0
6	106.8
7	124.6
8	142.4
9	160.2

	177
1	17.7
2	35.4
3	53.1
4	70.8
5	88.5
6	106.2
7	123.9
8	141.6
9	159.3

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

66°.900 — 66°.850

23°.150 — 23°.200

23°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.594 5469		9.631 0052		0.368 9948	9.963 5417		.850	
		177		209			32		
151	9.594 5646		9.631 0261		0.368 9739	9.963 5385		849	
152	9.594 5823	177	9.631 0471	210	0.368 9529	9.963 5352	33	848	
153	9.594 6000	177	9.631 0681	210	0.368 9319	9.963 5320	32	847	
		178		209			33		
154	9.594 6178		9.631 0890		0.368 9110	9.963 5287		846	
155	9.594 6355	177	9.631 1100	210	0.368 8900	9.963 5255	32	845	
156	9.594 6532	177	9.631 1310	210	0.368 8690	9.963 5223	32	844	
		177		209			33		
157	9.594 6709		9.631 1519		0.368 8481	9.963 5190		843	
158	9.594 6887	178	9.631 1729	210	0.368 8271	9.963 5158	32	842	
159	9.594 7064	177	9.631 1938	209	0.368 8062	9.963 5125	33	841	
		177		210			32		
.160	9.594 7241		9.631 2148		0.368 7852	9.963 5093		.840	
		177		210			33		
161	9.594 7418		9.631 2358		0.368 7642	9.963 5060		839	
162	9.594 7595	177	9.631 2567	209	0.368 7433	9.963 5028	32	838	
163	9.594 7773	178	9.631 2777	210	0.368 7223	9.963 4996	32	837	
		177		209			33		
164	9.594 7950		9.631 2986		0.368 7014	9.963 4963		836	
165	9.594 8127	177	9.631 3196	210	0.368 6804	9.963 4931	32	835	
166	9.594 8304	177	9.631 3406	210	0.368 6594	9.963 4898	33	834	
		177		209			32		
167	9.594 8481		9.631 3615		0.368 6385	9.963 4866		833	
168	9.594 8658	177	9.631 3825	210	0.368 6175	9.963 4833	33	832	
169	9.594 8835	177	9.631 4034	209	0.368 5966	9.963 4801	32	831	
		177		210			32		
.170	9.594 9012		9.631 4244		0.368 5756	9.963 4769		.830	
		178		209			33		
171	9.594 9190		9.631 4453		0.368 5547	9.963 4736		829	
172	9.594 9367	177	9.631 4663	210	0.368 5337	9.963 4704	32	828	
173	9.594 9544	177	9.631 4873	210	0.368 5127	9.963 4671	33	827	
		177		209			32		
174	9.594 9721		9.631 5082		0.368 4918	9.963 4639		826	
175	9.594 9898	177	9.631 5292	210	0.368 4708	9.963 4606	33	825	
176	9.595 0075	177	9.631 5501	209	0.368 4499	9.963 4574	32	824	
		177		210			33		
177	9.595 0252		9.631 5711		0.368 4289	9.963 4541		823	
178	9.595 0429	177	9.631 5920	209	0.368 4080	9.963 4509	32	822	
179	9.595 0606	177	9.631 6130	210	0.368 3870	9.963 4477	32	821	
		177		209			33		
.180	9.595 0783		9.631 6339		0.368 3661	9.963 4444		.820	
		177		210			32		
181	9.595 0960		9.631 6549		0.368 3451	9.963 4412		819	
182	9.595 1137	177	9.631 6758	209	0.368 3242	9.963 4379	33	818	
183	9.595 1314	177	9.631 6967	209	0.368 3033	9.963 4347	32	817	
		177		210			33		
184	9.595 1491		9.631 7177		0.368 2823	9.963 4314		816	
185	9.595 1668	177	9.631 7386	209	0.368 2614	9.963 4282	32	815	
186	9.595 1845	177	9.631 7596	210	0.368 2404	9.963 4249	33	814	
		177		209			32		
187	9.595 2022		9.631 7805		0.368 2195	9.963 4217		813	
188	9.595 2199	177	9.631 8015	210	0.368 1985	9.963 4184	33	812	
189	9.595 2376	177	9.631 8224	209	0.368 1776	9.963 4152	32	811	
		177		209			33		
.190	9.595 2553		9.631 8433		0.368 1567	9.963 4119		.810	
		177		210			32		
191	9.595 2730		9.631 8643		0.368 1357	9.963 4087		809	
192	9.595 2907	177	9.631 8852	209	0.368 1148	9.963 4054	33	808	
193	9.595 3084	177	9.631 9062	210	0.368 0938	9.963 4022	32	807	
		177		209			32		
194	9.595 3261		9.631 9271		0.368 0729	9.963 3990		806	
195	9.595 3437	176	9.631 9480	209	0.368 0520	9.963 3957	33	805	
196	9.595 3614	177	9.631 9690	210	0.368 0310	9.963 3925	32	804	
		177		209			33		
197	9.595 3791		9.631 9899		0.368 0101	9.963 3892		803	
198	9.595 3968	177	9.632 0109	210	0.367 9891	9.963 3860	32	802	
199	9.595 4145	177	9.632 0318	209	0.367 9682	9.963 3827	33	801	
		177		209			32		
.200	9.595 4322		9.632 0527		0.367 9473	9.963 3795		.800	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	210	209
1	21.0	20.9
2	42.0	41.8
3	63.0	62.7
4	84.0	83.6
5	105.0	104.5
6	126.0	125.4
7	147.0	146.3
8	168.0	167.2
9	189.0	188.1

	178	177
1	17.8	17.7
2	35.6	35.4
3	53.4	53.1
4	71.2	70.8
5	89.0	88.5
6	106.8	106.2
7	124.6	123.9
8	142.4	141.6
9	160.2	159.3

	176
1	17.6
2	35.2
3	52.8
4	70.4
5	88.0
6	105.6
7	123.2
8	140.8
9	158.4

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

	32
1	3.2
2	6.4
3	9.6
4	12.8
5	16.0
6	19.2
7	22.4
8	25.6
9	28.8

66°.850 — 66°.800

23°.200 — 23°.250

23°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.595 4322		9.632 0527		0.367 9473	9.963 3795		**.800**	
		177		210			33		
201	9.595 4499		9.632 0737		0.367 9263	9.963 3762		799	
202	9.595 4676	177	9.632 0946	209	0.367 9054	9.963 3730	32	798	
203	9.595 4852	176	9.632 1155	209	0.367 8845	9.963 3697	33	797	
		177		210			32		
204	9.595 5029		9.632 1365		0.367 8635	9.963 3665		796	
205	9.595 5206	177	9.632 1574	209	0.367 8426	9.963 3632	33	795	
206	9.595 5383	177	9.632 1783	209	0.367 8217	9.963 3600	32	794	
		177		209			33		
207	9.595 5560		9.632 1992		0.367 8008	9.963 3567		793	
208	9.595 5736	176	9.632 2202	210	0.367 7798	9.963 3535	32	792	
209	9.595 5913	177	9.632 2411	209	0.367 7589	9.963 3502	33	791	
		177		209			32		
.210	9.595 6090		9.632 2620		0.367 7380	9.963 3470		**.790**	
		177		210			33		
211	9.595 6267		9.632 2830		0.367 7170	9.963 3437		789	
212	9.595 6443	176	9.632 3039	209	0.367 6961	9.963 3405	32	788	
213	9.595 6620	177	9.632 3248	209	0.367 6752	9.963 3372	33	787	
		177		209			32		
214	9.595 6797		9.632 3457		0.367 6543	9.963 3340		786	
215	9.595 6974	177	9.632 3667	210	0.367 6333	9.963 3307	33	785	
216	9.595 7150	176	9.632 3876	209	0.367 6124	9.963 3275	32	784	
		177		209			33		
217	9.595 7327		9.632 4085		0.367 5915	9.963 3242		783	
218	9.595 7504	177	9.632 4294	209	0.367 5706	9.963 3210	32	782	
219	9.595 7680	176	9.632 4503	209	0.367 5497	9.963 3177	33	781	
		177		210			32		
.220	9.595 7857		9.632 4713		0.367 5287	9.963 3145		**.780**	
		177		209			33		
221	9.595 8034		9.632 4922		0.367 5078	9.963 3112		779	
222	9.595 8211	177	9.632 5131	209	0.367 4869	9.963 3080	32	778	
223	9.595 8387	176	9.632 5340	209	0.367 4660	9.963 3047	33	777	
		177		209			33		
224	9.595 8564		9.632 5549		0.367 4451	9.963 3014		776	
225	9.595 8740	176	9.632 5759	210	0.367 4241	9.963 2982	32	775	
226	9.595 8917	177	9.632 5968	209	0.367 4032	9.963 2949	33	774	
		177		209			32		
227	9.595 9094		9.632 6177		0.367 3823	9.963 2917		773	
228	9.595 9270	176	9.632 6386	209	0.367 3614	9.963 2884	33	772	
229	9.595 9447	177	9.632 6595	209	0.367 3405	9.963 2852	32	771	
		177		209			33		
.230	9.595 9624		9.632 6804		0.367 3196	9.963 2819		**.770**	
		176		209			32		
231	9.595 9800		9.632 7013		0.367 2987	9.963 2787		769	
232	9.595 9977	177	9.632 7223	210	0.367 2777	9.963 2754	33	768	
233	9.596 0153	176	9.632 7432	209	0.367 2568	9.963 2722	32	767	
		177		209			33		
234	9.596 0330		9.632 7641		0.367 2359	9.963 2689		766	
235	9.596 0506	176	9.632 7850	209	0.367 2150	9.963 2657	32	765	
236	9.596 0683	177	9.632 8059	209	0.367 1941	9.963 2624	33	764	
		177		209			32		
237	9.596 0860		9.632 8268		0.367 1732	9.963 2592		763	
238	9.596 1036	176	9.632 8477	209	0.367 1523	9.963 2559	33	762	
239	9.596 1213	177	9.632 8686	209	0.367 1314	9.963 2526	33	761	
		176		209			32		
.240	9.596 1389		9.632 8895		0.367 1105	9.963 2494		**.760**	
		177		209			33		
241	9.596 1566		9.632 9104		0.367 0896	9.963 2461		759	
242	9.596 1742	176	9.632 9313	209	0.367 0687	9.963 2429	32	758	
243	9.596 1919	177	9.632 9522	209	0.367 0478	9.963 2396	33	757	
		176		209			32		
244	9.596 2095		9.632 9731		0.367 0269	9.963 2364		756	
245	9.596 2272	177	9.632 9940	209	0.367 0060	9.963 2331	33	755	
246	9.596 2448	176	9.633 0149	209	0.366 9851	9.963 2299	32	754	
		176		209			33		
247	9.596 2624		9.633 0358		0.366 9642	9.963 2266		753	
248	9.596 2801	177	9.633 0567	209	0.366 9433	9.963 2233	33	752	
249	9.596 2977	176	9.633 0776	209	0.366 9224	9.963 2201	32	751	
		177		209			33		
.250	9.596 3154		9.633 0985		0.366 9015	9.963 2168		**.750**	
	cos	d	cotg	d	tang	sin	d	**66°**	P.P.

	210
1	21.0
2	42.0
3	63.0
4	84.0
5	105.0
6	126.0
7	147.0
8	168.0
9	189.0

	209
1	20.9
2	41.8
3	62.7
4	83.6
5	104.5
6	125.4
7	146.3
8	167.2
9	188.1

	177
1	17.7
2	35.4
3	53.1
4	70.8
5	88.5
6	106.2
7	123.9
8	141.6
9	159.3

	176
1	17.6
2	35.2
3	52.8
4	70.4
5	88.0
6	105.6
7	123.2
8	140.8
9	158.4

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

66°.800 — 66°.750

$23^\circ.250 - 23^\circ.300$

23°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.596 3154		9.633 0985		0.366 9015	9.963 2168		**.750**	
		176		209			32		
251	9.596 3330		9.633 1194		0.366 8806	9.963 2136		749	
252	9.596 3507	177	9.633 1403	209	0.366 8597	9.963 2103	33	748	
253	9.596 3683	176	9.633 1612	209	0.366 8388	9.963 2071	32	747	
254	9.596 3859	176	9.633 1821	209	0.366 8179	9.963 2038	33	746	
255	9.596 4036	177	9.633 2030	209	0.366 7970	9.963 2005	33	745	
256	9.596 4212	176	9.633 2239	209	0.366 7761	9.963 1973	32	744	
257	9.596 4389	177	9.633 2448	209	0.366 7552	9.963 1940	33	743	
258	9.596 4565	176	9.633 2657	209	0.366 7343	9.963 1908	32	742	
259	9.596 4741	176	9.633 2866	209	0.366 7134	9.963 1875	33	741	
.260	9.596 4918	177	9.633 3075	209	0.366 6925	9.963 1843	32	**.740**	
		176		209			33		
261	9.596 5094		9.633 3284		0.366 6716	9.963 1810		739	
262	9.596 5270	176	9.633 3493	209	0.366 6507	9.963 1777	33	738	
263	9.596 5447	177	9.633 3702	209	0.366 6298	9.963 1745	32	737	
264	9.596 5623	176	9.633 3911	209	0.366 6089	9.963 1712	33	736	
265	9.596 5799	176	9.633 4120	209	0.366 5880	9.963 1680	32	735	
266	9.596 5976	177	9.633 4328	208	0.366 5672	9.963 1647	33	734	
267	9.596 6152	176	9.633 4537	209	0.366 5463	9.963 1614	33	733	
268	9.596 6328	176	9.633 4746	209	0.366 5254	9.963 1582	32	732	
269	9.596 6504	176	9.633 4955	209	0.366 5045	9.963 1549	33	731	
.270	9.596 6681	177	9.633 5164	209	0.366 4836	9.963 1517	32	**.730**	
		176		209			33		
271	9.596 6857		9.633 5373		0.366 4627	9.963 1484		729	
272	9.596 7033	176	9.633 5582	209	0.366 4418	9.963 1451	33	728	
273	9.596 7209	176	9.633 5790	208	0.366 4210	9.963 1419	32	727	
274	9.596 7386	177	9.633 5999	209	0.366 4001	9.963 1386	33	726	
275	9.596 7562	176	9.633 6208	209	0.366 3792	9.963 1354	32	725	
276	9.596 7738	176	9.633 6417	209	0.366 3583	9.963 1321	33	724	
277	9.596 7914	176	9.633 6626	209	0.366 3374	9.963 1288	33	723	
278	9.596 8090	176	9.633 6835	209	0.366 3165	9.963 1256	32	722	
279	9.596 8267	177	9.633 7043	208	0.366 2957	9.963 1223	33	721	
.280	9.596 8443	176	9.633 7252	209	0.366 2748	9.963 1191	32	**.720**	
		176		209			33		
281	9.596 8619		9.633 7461		0.366 2539	9.963 1158		719	
282	9.596 8795	176	9.633 7670	209	0.366 2330	9.963 1125	33	718	
283	9.596 8971	176	9.633 7878	208	0.366 2122	9.963 1093	32	717	
284	9.596 9147	176	9.633 8087	209	0.366 1913	9.963 1060	33	716	
285	9.596 9324	177	9.633 8296	209	0.366 1704	9.963 1028	32	715	
286	9.596 9500	176	9.633 8505	209	0.366 1495	9.963 0995	33	714	
287	9.596 9676	176	9.633 8713	208	0.366 1287	9.963 0962	33	713	
288	9.596 9852	176	9.633 8922	209	0.366 1078	9.963 0930	32	712	
289	9.597 0028	176	9.633 9131	209	0.366 0869	9.963 0897	33	711	
.290	9.597 0204	176	9.633 9340	209	0.366 0660	9.963 0864	33	**.710**	
		176		208			32		
291	9.597 0380		9.633 9548		0.366 0452	9.963 0832		709	
292	9.597 0556	176	9.633 9757	209	0.366 0243	9.963 0799	33	708	
293	9.597 0732	176	9.633 9966	209	0.366 0034	9.963 0767	32	707	
294	9.597 0908	176	9.634 0174	208	0.365 9826	9.963 0734	33	706	
295	9.597 1084	176	9.634 0383	209	0.365 9617	9.963 0701	33	705	
296	9.597 1260	176	9.634 0592	209	0.365 9408	9.963 0669	32	704	
297	9.597 1436	176	9.634 0800	208	0.365 9200	9.963 0636	33	703	
298	9.597 1612	177	9.634 1009	209	0.365 8991	9.963 0603	33	702	
299	9.597 1789	176	9.634 1218	209	0.365 8782	9.963 0571	32	701	
.300	9.597 1965		9.634 1426	208	0.365 8574	9.963 0538	33	**.700**	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	209
1	20.9
2	41.8
3	62.7
4	83.6
5	104.5
6	125.4
7	146.3
8	167.2
9	188.1

	208
1	20.8
2	41.6
3	62.4
4	83.2
5	104.0
6	124.8
7	145.6
8	166.4
9	187.2

	177
1	17.7
2	35.4
3	53.1
4	70.8
5	88.5
6	106.2
7	123.9
8	141.6
9	159.3

	176
1	17.6
2	35.2
3	52.8
4	70.4
5	88.0
6	105.6
7	123.2
8	140.8
9	158.4

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

$66^\circ.750 - 66^\circ.700$

23°.300 — 23°.350

23°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.597 1965		9.634 1426		0.365 8574	9.963 0538		.700	
		176		209			33		
301	9.597 2141		9.634 1635		0.365 8365	9.963 0505		699	
302	9.597 2316	175	9.634 1844	209	0.365 8156	9.963 0473	32	698	
303	9.597 2492	176	9.634 2052	208	0.365 7948	9.963 0440	33	697	
		176		209			33		
304	9.597 2668		9.634 2261		0.365 7739	9.963 0407		696	
305	9.597 2844	176	9.634 2470	209	0.365 7530	9.963 0375	32	695	
306	9.597 3020	176	9.634 2678	208	0.365 7322	9.963 0342	33	694	
		176		209			32		
307	9.597 3196		9.634 2887		0.365 7113	9.963 0310		693	
308	9.597 3372	176	9.634 3095	208	0.365 6905	9.963 0277	33	692	
309	9.597 3548	176	9.634 3304	209	0.365 6696	9.963 0244	33	691	
		176		209			32		
.310	9.597 3724		9.634 3513		0.365 6487	9.963 0212		.690	
		176		208			33		
311	9.597 3900		9.634 3721		0.365 6279	9.963 0179		689	
312	9.597 4076	176	9.634 3930	209	0.365 6070	9.963 0146	33	688	
313	9.597 4252	176	9.634 4138	208	0.365 5862	9.963 0114	32	687	
		176		209			33		
314	9.597 4428		9.634 4347		0.365 5653	9.963 0081		686	
315	9.597 4604	176	9.634 4555	208	0.365 5445	9.963 0048	33	685	
316	9.597 4779	175	9.634 4764	209	0.365 5236	9.963 0016	32	684	
		176		208			33		
317	9.597 4955		9.634 4972		0.365 5028	9.962 9983		683	
318	9.597 5131	176	9.634 5181	209	0.365 4819	9.962 9950	33	682	
319	9.597 5307	176	9.634 5389	208	0.365 4611	9.962 9918	32	681	
		176		209			33		
.320	9.597 5483		9.634 5598		0.365 4402	9.962 9885		.680	
		176		208			33		
321	9.597 5659		9.634 5806		0.365 4194	9.962 9852		679	
322	9.597 5835	176	9.634 6015	209	0.365 3985	9.962 9820	32	678	
323	9.597 6010	175	9.634 6223	208	0.365 3777	9.962 9787	33	677	
		176		209			33		
324	9.597 6186		9.634 6432		0.365 3568	9.962 9754		676	
325	9.597 6362	176	9.634 6640	208	0.365 3360	9.962 9721	33	675	
326	9.597 6538	176	9.634 6849	209	0.365 3151	9.962 9689	32	674	
		175		208			33		
327	9.597 6713		9.634 7057		0.365 2943	9.962 9656		673	
328	9.597 6889	176	9.634 7266	209	0.365 2734	9.962 9623	33	672	
329	9.597 7065	176	9.634 7474	208	0.365 2526	9.962 9591	32	671	
		176		209			33		
.330	9.597 7241		9.634 7683		0.365 2317	9.962 9558		.670	
		176		208			33		
331	9.597 7417		9.634 7891		0.365 2109	9.962 9525		669	
332	9.597 7592	175	9.634 8100	209	0.365 1900	9.962 9493	32	668	
333	9.597 7768	176	9.634 8308	208	0.365 1692	9.962 9460	33	667	
		176		208			33		
334	9.597 7944		9.634 8516		0.365 1484	9.962 9427		666	
335	9.597 8119	175	9.634 8725	209	0.365 1275	9.962 9395	32	665	
336	9.597 8295	176	9.634 8933	208	0.365 1067	9.962 9362	33	664	
		176		209			33		
337	9.597 8471		9.634 9142		0.365 0858	9.962 9329		663	
338	9.597 8647	176	9.634 9350	208	0.365 0650	9.962 9296	33	662	
339	9.597 8822	175	9.634 9558	208	0.365 0442	9.962 9264	32	661	
		176		209			33		
.340	9.597 8998		9.634 9767		0.365 0233	9.962 9231		.660	
		176		208			33		
341	9.597 9174		9.634 9975		0.365 0025	9.962 9198		659	
342	9.597 9349	175	9.635 0184	209	0.364 9816	9.962 9166	32	658	
343	9.597 9525	176	9.635 0392	208	0.364 9608	9.962 9133	33	657	
		175		208			33		
344	9.597 9700		9.635 0600		0.364 9400	9.962 9100		656	
345	9.597 9876	176	9.635 0809	209	0.364 9191	9.962 9068	32	655	
346	9.598 0052	176	9.635 1017	208	0.364 8983	9.962 9035	33	654	
		175		208			33		
347	9.598 0227		9.635 1225		0.364 8775	9.962 9002		653	
348	9.598 0403	176	9.635 1434	209	0.364 8566	9.962 8969	33	652	
349	9.598 0578	175	9.635 1642	208	0.364 8358	9.962 8937	32	651	
		176		208			33		
.350	9.598 0754		9.635 1850		0.364 8150	9.962 8904		.650	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	209
1	20.9
2	41.8
3	62.7
4	83.6
5	104.5
6	125.4
7	146.3
8	167.2
9	188.1

	208
1	20.8
2	41.6
3	62.4
4	83.2
5	104.0
6	124.8
7	145.6
8	166.4
9	187.2

	176
1	17.6
2	35.2
3	52.8
4	70.4
5	88.0
6	105.6
7	123.2
8	140.8
9	158.4

	175
1	17.5
2	35.0
3	52.5
4	70.0
5	87.5
6	105.0
7	122.5
8	140.0
9	157.5

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

66°.700 — 66°.650

$23^\circ.350 - 23^\circ.400$

23°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.598 0754		9.635 1850		0.364 8150	9.962 8904		.650	
		176		208			33		
351	9.598 0930		9.635 2058		0.364 7942	9.962 8871		649	
352	9.598 1105	175	9.635 2267	209	0.364 7733	9.962 8838	33	648	
353	9.598 1281	176	9.635 2475	208	0.364 7525	9.962 8806	32	647	
		175		208			33		
354	9.598 1456		9.635 2683		0.364 7317	9.962 8773		646	
355	9.598 1632	176	9.635 2892	209	0.364 7108	9.962 8740	33	645	
356	9.598 1807	175	9.635 3100	208	0.364 6900	9.962 8708	32	644	
		176		208			33		
357	9.598 1983		9.635 3308		0.364 6692	9.962 8675		643	
358	9.598 2158	175	9.635 3516	208	0.364 6484	9.962 8642	33	642	
359	9.598 2334	176	9.635 3725	209	0.364 6275	9.962 8609	33	641	
		175		208			32		
.360	9.598 2509		9.635 3933		0.364 6067	9.962 8577		.640	
		176		208			33		
361	9.598 2685		9.635 4141		0.364 5859	9.962 8544		639	
362	9.598 2860	175	9.635 4349	208	0.364 5651	9.962 8511	33	638	
363	9.598 3036	176	9.635 4558	209	0.364 5442	9.962 8478	33	637	
		175		208			32		
364	9.598 3211		9.635 4766		0.364 5234	9.962 8446		636	
365	9.598 3387	176	9.635 4974	208	0.364 5026	9.962 8413	33	635	
366	9.598 3562	175	9.635 5182	208	0.364 4818	9.962 8380	33	634	
		176		208			33		
367	9.598 3738		9.635 5390		0.364 4610	9.962 8347		633	
368	9.598 3913	175	9.635 5599	209	0.364 4401	9.962 8315	32	632	
369	9.598 4089	176	9.635 5807	208	0.364 4193	9.962 8282	33	631	
		175		208			33		
.370	9.598 4264		9.635 6015		0.364 3985	9.962 8249		.630	
		175		208			33		
371	9.598 4439		9.635 6223		0.364 3777	9.962 8216		629	
372	9.598 4615	176	9.635 6431	208	0.364 3569	9.962 8184	32	628	
373	9.598 4790	175	9.635 6639	208	0.364 3361	9.962 8151	33	627	
		176		208			33		
374	9.598 4966		9.635 6847		0.364 3153	9.962 8118		626	
375	9.598 5141	175	9.635 7056	209	0.364 2944	9.962 8085	33	625	
376	9.598 5316	175	9.635 7264	208	0.364 2736	9.962 8053	32	624	
		176		208			33		
377	9.598 5492		9.635 7472		0.364 2528	9.962 8020		623	
378	9.598 5667	175	9.635 7680	208	0.364 2320	9.962 7987	33	622	
379	9.598 5842	175	9.635 7888	208	0.364 2112	9.962 7954	33	621	
		176		208			32		
.380	9.598 6018		9.635 8096		0.364 1904	9.962 7922		.620	
		175		208			33		
381	9.598 6193		9.635 8304		0.364 1696	9.962 7889		619	
382	9.598 6368	175	9.635 8512	208	0.364 1488	9.962 7856	33	618	
383	9.598 6544	176	9.635 8720	208	0.364 1280	9.962 7823	33	617	
		175		209			33		
384	9.598 6719		9.635 8929		0.364 1071	9.962 7790		616	
385	9.598 6894	175	9.635 9137	208	0.364 0863	9.962 7758	32	615	
386	9.598 7070	176	9.635 9345	208	0.364 0655	9.962 7725	33	614	
		175		208			33		
387	9.598 7245		9.635 9553		0.364 0447	9.962 7692		613	
388	9.598 7420	175	9.635 9761	208	0.364 0239	9.962 7659	33	612	
389	9.598 7595	175	9.635 9969	208	0.364 0031	9.962 7627	32	611	
		176		208			33		
.390	9.598 7771		9.636 0177		0.363 9823	9.962 7594		.610	
		175		208			33		
391	9.598 7946		9.636 0385		0.363 9615	9.962 7561		609	
392	9.598 8121	175	9.636 0593	208	0.363 9407	9.962 7528	33	608	
393	9.598 8296	175	9.636 0801	208	0.363 9199	9.962 7495	33	607	
		175		208			32		
394	9.598 8471		9.636 1009		0.363 8991	9.962 7463		606	
395	9.598 8647	176	9.636 1217	208	0.363 8783	9.962 7430	33	605	
396	9.598 8822	175	9.636 1425	208	0.363 8575	9.962 7397	33	604	
		175		208			33		
397	9.598 8997		9.636 1633		0.363 8367	9.962 7364		603	
398	9.598 9172	175	9.636 1841	208	0.363 8159	9.962 7331	33	602	
399	9.598 9347	175	9.636 2049	208	0.363 7951	9.962 7299	32	601	
		176		208			33		
.400	9.598 9523		9.636 2257		0.363 7743	9.962 7266		.600	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	209
1	20.9
2	41.8
3	62.7
4	83.6
5	104.5
6	125.4
7	146.3
8	167.2
9	188.1

	208
1	20.8
2	41.6
3	62.4
4	83.2
5	104.0
6	124.8
7	145.6
8	166.4
9	187.2

	176
1	17.6
2	35.2
3	52.8
4	70.4
5	88.0
6	105.6
7	123.2
8	140.8
9	158.4

	175
1	17.5
2	35.0
3	52.5
4	70.0
5	87.5
6	105.0
7	122.5
8	140.0
9	157.5

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

$66^\circ.650 - 66^\circ.600$

23°.400 — 23°.450

23°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.598 9523		9.636 2257		0.363 7743	9.962 7266		.600	
		175		208			33		
401	9.598 9698		9.636 2465		0.363 7535	9.962 7233		599	
402	9.598 9873	175	9.636 2673	208	0.363 7327	9.962 7200	33	598	
403	9.599 0048	175	9.636 2881	208	0.363 7119	9.962 7167	33	597	
		175		208			32		
404	9.599 0223		9.636 3089		0.363 6911	9.962 7135		596	
405	9.599 0398	175	9.636 3297	208	0.363 6703	9.962 7102	33	595	
406	9.599 0573	175	9.636 3504	207	0.363 6496	9.962 7069	33	594	
		176		208			33		
407	9.599 0749		9.636 3712		0.363 6288	9.962 7036		593	
408	9.599 0924	175	9.636 3920	208	0.363 6080	9.962 7003	33	592	
409	9.599 1099	175	9.636 4128	208	0.363 5872	9.962 6971	32	591	
		175		208			33		
.410	9.599 1274		9.636 4336		0.363 5664	9.962 6938		.590	
		175		208			33		
411	9.599 1449		9.636 4544		0.363 5456	9.962 6905		589	
412	9.599 1624	175	9.636 4752	208	0.363 5248	9.962 6872	33	588	
413	9.599 1799	175	9.636 4960	208	0.363 5040	9.962 6839	33	587	
		175		208			33		
414	9.599 1974		9.636 5168		0.363 4832	9.962 6806		586	
415	9.599 2149	175	9.636 5375	207	0.363 4625	9.962 6774	32	585	
416	9.599 2324	175	9.636 5583	208	0.363 4417	9.962 6741	33	584	
		175		208			33		
417	9.599 2499		9.636 5791		0.363 4209	9.962 6708		583	
418	9.599 2674	175	9.636 5999	208	0.363 4001	9.962 6675	33	582	
419	9.599 2849	175	9.636 6207	208	0.363 3793	9.962 6642	33	581	
		175		208			33		
.420	9.599 3024		9.636 6415		0.363 3585	9.962 6609		.580	
		175		207			32		
421	9.599 3199		9.636 6622		0.363 3378	9.962 6577		579	
422	9.599 3374	175	9.636 6830	208	0.363 3170	9.962 6544	33	578	
423	9.599 3549	175	9.636 7038	208	0.363 2962	9.962 6511	33	577	
		175		208			33		
424	9.599 3724		9.636 7246		0.363 2754	9.962 6478		576	
425	9.599 3899	175	9.636 7454	208	0.363 2546	9.962 6445	33	575	
426	9.599 4074	175	9.636 7661	207	0.363 2339	9.962 6412	33	574	
		175		208			32		
427	9.599 4249		9.636 7869		0.363 2131	9.962 6380		573	
428	9.599 4424	175	9.636 8077	208	0.363 1923	9.962 6347	33	572	
429	9.599 4599	175	9.636 8285	208	0.363 1715	9.962 6314	33	571	
		175		208			33		
.430	9.599 4774		9.636 8493		0.363 1507	9.962 6281		.570	
		175		207			33		
431	9.599 4949		9.636 8700		0.363 1300	9.962 6248		569	
432	9.599 5123	174	9.636 8908	208	0.363 1092	9.962 6215	33	568	
433	9.599 5298	175	9.636 9116	208	0.363 0884	9.962 6183	32	567	
		175		208			33		
434	9.599 5473		9.636 9324		0.363 0676	9.962 6150		566	
435	9.599 5648	175	9.636 9531	207	0.363 0469	9.962 6117	33	565	
436	9.599 5823	175	9.636 9739	208	0.363 0261	9.962 6084	33	564	
		175		208			33		
437	9.599 5998		9.636 9947		0.363 0053	9.962 6051		563	
438	9.599 6173	175	9.637 0154	207	0.362 9846	9.962 6018	33	562	
439	9.599 6347	174	9.637 0362	208	0.362 9638	9.962 5985	33	561	
		175		208			32		
.440	9.599 6522		9.637 0570		0.362 9430	9.962 5953		.560	
		175		207			33		
441	9.599 6697		9.637 0777		0.362 9223	9.962 5920		559	
442	9.599 6872	175	9.637 0985	208	0.362 9015	9.962 5887	33	558	
443	9.599 7047	175	9.637 1193	208	0.362 8807	9.962 5854	33	557	
		175		207			33		
444	9.599 7222		9.637 1400		0.362 8600	9.962 5821		556	
445	9.599 7396	174	9.637 1608	208	0.362 8392	9.962 5788	33	555	
446	9.599 7571	175	9.637 1816	208	0.362 8184	9.962 5755	33	554	
		175		207			33		
447	9.599 7746		9.637 2023		0.362 7977	9.962 5722		553	
448	9.599 7921	175	9.637 2231	208	0.362 7769	9.962 5690	32	552	
449	9.599 8095	174	9.637 2439	208	0.362 7561	9.962 5657	33	551	
		175		207			33		
.450	9.599 8270		9.637 2646		0.362 7354	9.962 5624		.550	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	208	207
1	20.8	20.7
2	41.6	41.4
3	62.4	62.1
4	83.2	82.8
5	104.0	103.5
6	124.8	124.2
7	145.6	144.9
8	166.4	165.6
9	187.2	186.3

	176	175
1	17.6	17.5
2	35.2	35.0
3	52.8	52.5
4	70.4	70.0
5	88.0	87.5
6	105.6	105.0
7	123.2	122.5
8	140.8	140.0
9	158.4	157.5

	174
1	17.4
2	34.8
3	52.2
4	69.6
5	87.0
6	104.4
7	121.8
8	139.2
9	156.6

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

	32
1	3.2
2	6.4
3	9.6
4	12.8
5	16.0
6	19.2
7	22.4
8	25.6
9	28.8

66°.600 — 66°.550

23°.450 — 23°.500

23°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.599 8270		9.637 2646		0.362 7354	9.962 5624		**.550**	
		175		208			33		
451	9.599 8445		9.637 2854		0.362 7146	9.962 5591		549	
452	9.599 8620	175	9.637 3062	208	0.362 6938	9.962 5558	33	548	
453	9.599 8794	174	9.637 3269	207	0.362 6731	9.962 5525	33	547	
		175		208			33		
454	9.599 8969		9.637 3477		0.362 6523	9.962 5492		546	
455	9.599 9144	175	9.637 3684	207	0.362 6316	9.962 5459	33	545	
456	9.599 9318	174	9.637 3892	208	0.362 6108	9.962 5427	32	544	
		175		208			33		
457	9.599 9493		9.637 4100		0.362 5900	9.962 5394		543	
458	9.599 9668	175	9.637 4307	207	0.362 5693	9.962 5361	33	542	
459	9.599 9842	174	9.637 4515	208	0.362 5485	9.962 5328	33	541	
		175		207			33		
.460	9.600 0017		9.637 4722		0.362 5278	9.962 5295		**.540**	
		175		208			33		
461	9.600 0192		9.637 4930		0.362 5070	9.962 5262		539	
462	9.600 0366	174	9.637 5137	207	0.362 4863	9.962 5229	33	538	
463	9.600 0541	175	9.637 5345	208	0.362 4655	9.962 5196	33	537	
		175		207			33		
464	9.600 0716		9.637 5552		0.362 4448	9.962 5163		536	
465	9.600 0890	174	9.637 5760	208	0.362 4240	9.962 5130	33	535	
466	9.600 1065	175	9.637 5967	207	0.362 4033	9.962 5098	32	534	
		175		208			33		
467	9.600 1240		9.637 6175		0.362 3825	9.962 5065		533	
468	9.600 1414	174	9.637 6382	207	0.362 3618	9.962 5032	33	532	
469	9.600 1589	175	9.637 6590	208	0.362 3410	9.962 4999	33	531	
		174		207			33		
.470	9.600 1763		9.637 6797		0.362 3203	9.962 4966		**.530**	
		175		208			33		
471	9.600 1938		9.637 7005		0.362 2995	9.962 4933		529	
472	9.600 2112	174	9.637 7212	207	0.362 2788	9.962 4900	33	528	
473	9.600 2287	175	9.637 7420	208	0.362 2580	9.962 4867	33	527	
		175		207			33		
474	9.600 2462		9.637 7627		0.362 2373	9.962 4834		526	
475	9.600 2636	174	9.637 7835	208	0.362 2165	9.962 4801	33	525	
476	9.600 2811	175	9.637 8042	207	0.362 1958	9.962 4768	33	524	
		174		208			33		
477	9.600 2985		9.637 8250		0.362 1750	9.962 4735		523	
478	9.600 3160	175	9.637 8457	207	0.362 1543	9.962 4703	32	522	
479	9.600 3334	174	9.637 8665	208	0.362 1335	9.962 4670	33	521	
		175		207			33		
.480	9.600 3509		9.637 8872		0.362 1128	9.962 4637		**.520**	
		174		207			33		
481	9.600 3683		9.637 9079		0.362 0921	9.962 4604		519	
482	9.600 3858	175	9.637 9287	208	0.362 0713	9.962 4571	33	518	
483	9.600 4032	174	9.637 9494	207	0.362 0506	9.962 4538	33	517	
		175		208			33		
484	9.600 4207		9.637 9702		0.362 0298	9.962 4505		516	
485	9.600 4381	174	9.637 9909	207	0.362 0091	9.962 4472	33	515	
486	9.600 4555	174	9.638 0116	207	0.361 9884	9.962 4439	33	514	
		175		208			33		
487	9.600 4730		9.638 0324		0.361 9676	9.962 4406		513	
488	9.600 4904	174	9.638 0531	207	0.361 9469	9.962 4373	33	512	
489	9.600 5079	175	9.638 0738	207	0.361 9262	9.962 4340	33	511	
		174		208			33		
.490	9.600 5253		9.638 0946		0.361 9054	9.962 4307		**.510**	
		175		207			33		
491	9.600 5428		9.638 1153		0.361 8847	9.962 4274		509	
492	9.600 5602	174	9.638 1360	207	0.361 8640	9.962 4241	33	508	
493	9.600 5776	174	9.638 1568	208	0.361 8432	9.962 4209	32	507	
		175		207			33		
494	9.600 5951		9.638 1775		0.361 8225	9.962 4176		506	
495	9.600 6125	174	9.638 1982	207	0.361 8018	9.962 4143	33	505	
496	9.600 6299	174	9.638 2190	208	0.361 7810	9.962 4110	33	504	
		175		207			33		
497	9.600 6474		9.638 2397		0.361 7603	9.962 4077		503	
498	9.600 6648	174	9.638 2604	207	0.361 7396	9.962 4044	33	502	
499	9.600 6822	174	9.638 2812	208	0.361 7188	9.962 4011	33	501	
		175		207			33		
.500	9.600 6997		9.638 3019		0.361 6981	9.962 3978		**.500**	
	cos	d	cotg	d	tang	sin	d	**66°**	P.P.

	208
1	20.8
2	41.6
3	62.4
4	83.2
5	104.0
6	124.8
7	145.6
8	166.4
9	187.2

	207
1	20.7
2	41.4
3	62.1
4	82.8
5	103.5
6	124.2
7	144.9
8	165.6
9	186.3

	175
1	17.5
2	35.0
3	52.5
4	70.0
5	87.5
6	105.0
7	122.5
8	140.0
9	157.5

	174
1	17.4
2	34.8
3	52.2
4	69.6
5	87.0
6	104.4
7	121.8
8	139.2
9	156.6

	33	32
1	3.3	3.2
2	6.6	6.4
3	9.9	9.6
4	13.2	12.8
5	16.5	16.0
6	19.8	19.2
7	23.1	22.4
8	26.4	25.6
9	29.7	28.8

66°.550 — 66°.500

23°.500 — 23°.550

23°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.600 6997		9.638 3019		0.361 6981	9.962 3978		.500	
		174		207			33		
501	9.600 7171		9.638 3226		0.361 6774	9.962 3945		499	
502	9.600 7345	174	9.638 3434	208	0.361 6566	9.962 3912	33	498	
503	9.600 7520	175	9.638 3641	207	0.361 6359	9.962 3879	33	497	
		174		207			33		
504	9.600 7694		9.638 3848		0.361 6152	9.962 3846		496	
505	9.600 7868	174	9.638 4055	207	0.361 5945	9.962 3813	33	495	
506	9.600 8043	175	9.638 4263	208	0.361 5737	9.962 3780	33	494	
		174		207			33		
507	9.600 8217		9.638 4470		0.361 5530	9.962 3747		493	
508	9.600 8391	174	9.638 4677	207	0.361 5323	9.962 3714	33	492	
509	9.600 8565	174	9.638 4884	207	0.361 5116	9.962 3681	33	491	
		175		207			33		
.510	9.600 8740		9.638 5091		0.361 4909	9.962 3648		.490	
		174		208			33		
511	9.600 8914		9.638 5299		0.361 4701	9.962 3615		489	
512	9.600 9088	174	9.638 5506	207	0.361 4494	9.962 3582	33	488	
513	9.600 9262	174	9.638 5713	207	0.361 4287	9.962 3549	33	487	
		175		207			33		
514	9.600 9437		9.638 5920		0.361 4080	9.962 3516		486	
515	9.600 9611	174	9.638 6127	207	0.361 3873	9.962 3483	33	485	
516	9.600 9785	174	9.638 6335	208	0.361 3665	9.962 3450	33	484	
		174		207			33		
517	9.600 9959		9.638 6542		0.361 3458	9.962 3417		483	
518	9.601 0133	174	9.638 6749	207	0.361 3251	9.962 3384	33	482	
519	9.601 0307	174	9.638 6956	207	0.361 3044	9.962 3351	33	481	
		175		207			33		
.520	9.601 0482		9.638 7163		0.361 2837	9.962 3318		.480	
		174		207			33		
521	9.601 0656		9.638 7370		0.361 2630	9.962 3285		479	
522	9.601 0830	174	9.638 7578	208	0.361 2422	9.962 3252	33	478	
523	9.601 1004	174	9.638 7785	207	0.361 2215	9.962 3219	33	477	
		174		207			33		
524	9.601 1178		9.638 7992		0.361 2008	9.962 3186		476	
525	9.601 1352	174	9.638 8199	207	0.361 1801	9.962 3153	33	475	
526	9.601 1526	174	9.638 8406	207	0.361 1594	9.962 3120	33	474	
		175		207			33		
527	9.601 1701		9.638 8613		0.361 1387	9.962 3087		473	
528	9.601 1875	174	9.638 8820	207	0.361 1180	9.962 3054	33	472	
529	9.601 2049	174	9.638 9027	207	0.361 0973	9.962 3021	33	471	
		174		207			33		
.530	9.601 2223		9.638 9234		0.361 0766	9.962 2988		.470	
		174		208			33		
531	9.601 2397		9.638 9442		0.361 0558	9.962 2955		469	
532	9.601 2571	174	9.638 9649	207	0.361 0351	9.962 2922	33	468	
533	9.601 2745	174	9.638 9856	207	0.361 0144	9.962 2889	33	467	
		174		207			33		
534	9.601 2919		9.639 0063		0.360 9937	9.962 2856		466	
535	9.601 3093	174	9.639 0270	207	0.360 9730	9.962 2823	33	465	
536	9.601 3267	174	9.639 0477	207	0.360 9523	9.962 2790	33	464	
		174		207			33		
537	9.601 3441		9.639 0684		0.360 9316	9.962 2757		463	
538	9.601 3615	174	9.639 0891	207	0.360 9109	9.962 2724	33	462	
539	9.601 3789	174	9.639 1098	207	0.360 8902	9.962 2691	33	461	
		174		207			33		
.540	9.601 3963		9.639 1305		0.360 8695	9.962 2658		.460	
		174		207			33		
541	9.601 4137		9.639 1512		0.360 8488	9.962 2625		459	
542	9.601 4311	174	9.639 1719	207	0.360 8281	9.962 2592	33	458	
543	9.601 4485	174	9.639 1926	207	0.360 8074	9.962 2559	33	457	
		174		207			33		
544	9.601 4659		9.639 2133		0.360 7867	9.962 2526		456	
545	9.601 4833	174	9.639 2340	207	0.360 7660	9.962 2493	33	455	
546	9.601 5007	174	9.639 2547	207	0.360 7453	9.962 2460	33	454	
		174		207			33		
547	9.601 5181		9.639 2754		0.360 7246	9.962 2427		453	
548	9.601 5355	174	9.639 2961	207	0.360 7039	9.962 2394	33	452	
549	9.601 5529	174	9.639 3168	207	0.360 6832	9.962 2361	33	451	
		174		207			33		
.550	9.601 5703		9.639 3375		0.360 6625	9.962 2328		.450	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	208
1	20.8
2	41.6
3	62.4
4	83.2
5	104.0
6	124.8
7	145.6
8	166.4
9	187.2

	207
1	20.7
2	41.4
3	62.1
4	82.8
5	103.5
6	124.2
7	144.9
8	165.6
9	186.3

	175
1	17.5
2	35.0
3	52.5
4	70.0
5	87.5
6	105.0
7	122.5
8	140.0
9	157.5

	174
1	17.4
2	34.8
3	52.2
4	69.6
5	87.0
6	104.4
7	121.8
8	139.2
9	156.6

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

66°.500 — 66°.450

$23^\circ.550 - 23^\circ.600$

23°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.601 5703		9.639 3375		0.360 6625	9.962 2328		**.450**	
		174		207			33		
551	9.601 5877		9.639 3582		0.360 6418	9.962 2295		449	
552	9.601 6050	173	9.639 3789	207	0.360 6211	9.962 2262	33	448	
553	9.601 6224	174	9.639 3996	207	0.360 6004	9.962 2229	33	447	
		174		206			33		
554	9.601 6398		9.639 4202		0.360 5798	9.962 2196		446	
555	9.601 6572	174	9.639 4409	207	0.360 5591	9.962 2163	33	445	
556	9.601 6746	174	9.639 4616	207	0.360 5384	9.962 2130	33	444	
		174		207			33		
557	9.601 6920		9.639 4823		0.360 5177	9.962 2097		443	
558	9.601 7094	174	9.639 5030	207	0.360 4970	9.962 2064	33	442	
559	9.601 7268	174	9.639 5237	207	0.360 4763	9.962 2031	33	441	
		173		207			33		
.560	9.601 7441		9.639 5444		0.360 4556	9.962 1998		**.440**	
		174		207			34		
561	9.601 7615		9.639 5651		0.360 4349	9.962 1964		439	
562	9.601 7789	174	9.639 5858	207	0.360 4142	9.962 1931	33	438	
563	9.601 7963	174	9.639 6064	206	0.360 3936	9.962 1898	33	437	
		174		207			33		
564	9.601 8137		9.639 6271		0.360 3729	9.962 1865		436	
565	9.601 8310	173	9.639 6478	207	0.360 3522	9.962 1832	33	435	
566	9.601 8484	174	9.639 6685	207	0.360 3315	9.962 1799	33	434	
		174		207			33		
567	9.601 8658		9.639 6892		0.360 3108	9.962 1766		433	
568	9.601 8832	174	9.639 7099	207	0.360 2901	9.962 1733	33	432	
569	9.601 9005	173	9.639 7305	206	0.360 2695	9.962 1700	33	431	
		174		207			33		
.570	9.601 9179		9.639 7512		0.360 2488	9.962 1667		**.430**	
		174		207			33		
571	9.601 9353		9.639 7719		0.360 2281	9.962 1634		429	
572	9.601 9527	174	9.639 7926	207	0.360 2074	9.962 1601	33	428	
573	9.601 9700	173	9.639 8133	207	0.360 1867	9.962 1568	33	427	
		174		206			33		
574	9.601 9874		9.639 8339		0.360 1661	9.962 1535		426	
575	9.602 0048	174	9.639 8546	207	0.360 1454	9.962 1502	33	425	
576	9.602 0222	174	9.639 8753	207	0.360 1247	9.962 1468	34	424	
		173		207			33		
577	9.602 0395		9.639 8960		0.360 1040	9.962 1435		423	
578	9.602 0569	174	9.639 9167	207	0.360 0833	9.962 1402	33	422	
579	9.602 0743	174	9.639 9373	206	0.360 0627	9.962 1369	33	421	
		173		207			33		
.580	9.602 0916		9.639 9580		0.360 0420	9.962 1336		**.420**	
		174		207			33		
581	9.602 1090		9.639 9787		0.360 0213	9.962 1303		419	
582	9.602 1264	174	9.639 9994	207	0.360 0006	9.962 1270	33	418	
583	9.602 1437	173	9.640 0200	206	0.359 9800	9.962 1237	33	417	
		174		207			33		
584	9.602 1611		9.640 0407		0.359 9593	9.962 1204		416	
585	9.602 1784	173	9.640 0614	207	0.359 9386	9.962 1171	33	415	
586	9.602 1958	174	9.640 0820	206	0.359 9180	9.962 1138	33	414	
		174		207			33		
587	9.602 2132		9.640 1027		0.359 8973	9.962 1105		413	
588	9.602 2305	173	9.640 1234	207	0.359 8766	9.962 1071	34	412	
589	9.602 2479	174	9.640 1441	207	0.359 8559	9.962 1038	33	411	
		173		206			33		
.590	9.602 2652		9.640 1647		0.359 8353	9.962 1005		**.410**	
		174		207			33		
591	9.602 2826		9.640 1854		0.359 8146	9.962 0972		409	
592	9.602 3000	174	9.640 2061	207	0.359 7939	9.962 0939	33	408	
593	9.602 3173	173	9.640 2267	206	0.359 7733	9.962 0906	33	407	
		174		207			33		
594	9.602 3347		9.640 2474		0.359 7526	9.962 0873		406	
595	9.602 3520	173	9.640 2681	207	0.359 7319	9.962 0840	33	405	
596	9.602 3694	174	9.640 2887	206	0.359 7113	9.962 0807	33	404	
		173		207			33		
597	9.602 3867		9.640 3094		0.359 6906	9.962 0774		403	
598	9.602 4041	174	9.640 3300	206	0.359 6700	9.962 0740	34	402	
599	9.602 4214	173	9.640 3507	207	0.359 6493	9.962 0707	33	401	
		174		207			33		
.600	9.602 4388		9.640 3714		0.359 6286	9.962 0674		**.400**	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	207
1	20.7
2	41.4
3	62.1
4	82.8
5	103.5
6	124.2
7	144.9
8	165.6
9	186.3

	206
1	20.6
2	41.2
3	61.8
4	82.4
5	103.0
6	123.6
7	144.2
8	164.8
9	185.4

	174
1	17.4
2	34.8
3	52.2
4	69.6
5	87.0
6	104.4
7	121.8
8	139.2
9	156.6

	173
1	17.3
2	34.6
3	51.9
4	69.2
5	86.5
6	103.8
7	121.1
8	138.4
9	155.7

	34	33
1	3.4	3.3
2	6.8	6.6
3	10.2	9.9
4	13.6	13.2
5	17.0	16.5
6	20.4	19.8
7	23.8	23.1
8	27.2	26.4
9	30.6	29.7

$66^\circ.450 - 66^\circ.400$

23°.600 — 23°.650

23°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.602 4388		9.640 3714		0.359 6286	9.962 0674		**.400**	
		173		206			33		
601	9.602 4561		9.640 3920		0.359 6080	9.962 0641		399	
602	9.602 4735	174	9.640 4127	207	0.359 5873	9.962 0608	33	398	
603	9.602 4908	173	9.640 4333	206	0.359 5667	9.962 0575	33	397	
		174		207			33		
604	9.602 5082		9.640 4540		0.359 5460	9.962 0542		396	
605	9.602 5255	173	9.640 4747	207	0.359 5253	9.962 0509	33	395	
606	9.602 5429	174	9.640 4953	206	0.359 5047	9.962 0475	34	394	
		173		207			33		
607	9.602 5602		9.640 5160		0.359 4840	9.962 0442		393	
608	9.602 5776	174	9.640 5366	206	0.359 4634	9.962 0409	33	392	
609	9.602 5949	173	9.640 5573	207	0.359 4427	9.962 0376	33	391	
		173		206			33		
.610	9.602 6122		9.640 5779		0.359 4221	9.962 0343		**.390**	
		174		207			33		
611	9.602 6296		9.640 5986		0.359 4014	9.962 0310		389	
612	9.602 6469	173	9.640 6193	207	0.359 3807	9.962 0277	33	388	
613	9.602 6643	174	9.640 6399	206	0.359 3601	9.962 0244	33	387	
		173		207			34		
614	9.602 6816		9.640 6606		0.359 3394	9.962 0210		386	
615	9.602 6989	173	9.640 6812	206	0.359 3188	9.962 0177	33	385	
616	9.602 7163	174	9.640 7019	207	0.359 2981	9.962 0144	33	384	
		173		206			33		
617	9.602 7336		9.640 7225		0.359 2775	9.962 0111		383	
618	9.602 7509	173	9.640 7432	207	0.359 2568	9.962 0078	33	382	
619	9.602 7683	174	9.640 7638	206	0.359 2362	9.962 0045	33	381	
		173		207			33		
.620	9.602 7856		9.640 7845		0.359 2155	9.962 0012		**.380**	
		173		206			34		
621	9.602 8029		9.640 8051		0.359 1949	9.961 9978		379	
622	9.602 8203	174	9.640 8258	207	0.359 1742	9.961 9945	33	378	
623	9.602 8376	173	9.640 8464	206	0.359 1536	9.961 9912	33	377	
		173		206			33		
624	9.602 8549		9.640 8670		0.359 1330	9.961 9879		376	
625	9.602 8723	174	9.640 8877	207	0.359 1123	9.961 9846	33	375	
626	9.602 8896	173	9.640 9083	206	0.359 0917	9.961 9813	33	374	
		173		207			34		
627	9.602 9069		9.640 9290		0.359 0710	9.961 9779		373	
628	9.602 9242	173	9.640 9496	206	0.359 0504	9.961 9746	33	372	
629	9.602 9416	174	9.640 9703	207	0.359 0297	9.961 9713	33	371	
		173		206			33		
.630	9.602 9589		9.640 9909		0.359 0091	9.961 9680		**.370**	
		173		206			33		
631	9.602 9762		9.641 0115		0.358 9885	9.961 9647		369	
632	9.602 9935	173	9.641 0322	207	0.358 9678	9.961 9614	33	368	
633	9.603 0109	174	9.641 0528	206	0.358 9472	9.961 9580	34	367	
		173		207			33		
634	9.603 0282		9.641 0735		0.358 9265	9.961 9547		366	
635	9.603 0455	173	9.641 0941	206	0.358 9059	9.961 9514	33	365	
636	9.603 0628	173	9.641 1147	206	0.358 8853	9.961 9481	33	364	
		174		207			33		
637	9.603 0802		9.641 1354		0.358 8646	9.961 9448		363	
638	9.603 0975	173	9.641 1560	206	0.358 8440	9.961 9415	33	362	
639	9.603 1148	173	9.641 1766	206	0.358 8234	9.961 9381	34	361	
		173		207			33		
.640	9.603 1321		9.641 1973		0.358 8027	9.961 9348		**.360**	
		173		206			33		
641	9.603 1494		9.641 2179		0.358 7821	9.961 9315		359	
642	9.603 1667	173	9.641 2385	206	0.358 7615	9.961 9282	33	358	
643	9.603 1841	174	9.641 2592	207	0.358 7408	9.961 9249	33	357	
		173		206			33		
644	9.603 2014		9.641 2798		0.358 7202	9.961 9216		356	
645	9.603 2187	173	9.641 3004	206	0.358 6996	9.961 9182	34	355	
646	9.603 2360	173	9.641 3211	207	0.358 6789	9.961 9149	33	354	
		173		206			33		
647	9.603 2533		9.641 3417		0.358 6583	9.961 9116		353	
648	9.603 2706	173	9.641 3623	206	0.358 6377	9.961 9083	33	352	
649	9.603 2879	173	9.641 3830	207	0.358 6170	9.961 9050	33	351	
		173		206			34		
.650	9.603 3052		9.641 4036		0.358 5964	9.961 9016		**.350**	
	cos	d	cotg	d	tang	sin	d	**66°**	P.P.

66°.400 — 66°.350

	207
1	20.7
2	41.4
3	62.1
4	82.8
5	103.5
6	124.2
7	144.9
8	165.6
9	186.3

	206
1	20.6
2	41.2
3	61.8
4	82.4
5	103.0
6	123.6
7	144.2
8	164.8
9	185.4

	174
1	17.4
2	34.8
3	52.2
4	69.6
5	87.0
6	104.4
7	121.8
8	139.2
9	156.6

	173
1	17.3
2	34.6
3	51.9
4	69.2
5	86.5
6	103.8
7	121.1
8	138.4
9	155.7

	34	33
1	3.4	3.3
2	6.8	6.6
3	10.2	9.9
4	13.6	13.2
5	17.0	16.5
6	20.4	19.8
7	23.8	23.1
8	27.2	26.4
9	30.6	29.7

$23^\circ.650 - 23^\circ.700$

23°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.603 3052		9.641 4036		0.358 5964	9.961 9016		.350	
		173		206			33		
651	9.603 3225		9.641 4242		0.358 5758	9.961 8983		349	
652	9.603 3398	173	9.641 4448	206	0.358 5552	9.961 8950	33	348	
653	9.603 3572	174	9.641 4655	207	0.358 5345	9.961 8917	33	347	
		173		206			33		
654	9.603 3745		9.641 4861		0.358 5139	9.961 8884		346	
655	9.603 3918	173	9.641 5067	206	0.358 4933	9.961 8850	34	345	
656	9.603 4091	173	9.641 5273	206	0.358 4727	9.961 8817	33	344	
		173		207			33		
657	9.603 4264		9.641 5480		0.358 4520	9.961 8784		343	
658	9.603 4437	173	9.641 5686	206	0.358 4314	9.961 8751	33	342	
659	9.603 4610	173	9.641 5892	206	0.358 4108	9.961 8718	33	341	
		173		206			34		
.660	9.603 4783		9.641 6098		0.358 3902	9.961 8684		.340	
		173		207			33		
661	9.603 4956		9.641 6305		0.358 3695	9.961 8651		339	
662	9.603 5129	173	9.641 6511	206	0.358 3489	9.961 8618	33	338	
663	9.603 5302	173	9.641 6717	206	0.358 3283	9.961 8585	33	337	
		173		206			33		
664	9.603 5475		9.641 6923		0.358 3077	9.961 8552		336	
665	9.603 5648	173	9.641 7129	206	0.358 2871	9.961 8518	34	335	
666	9.603 5821	173	9.641 7336	207	0.358 2664	9.961 8485	33	334	
		173		206			33		
667	9.603 5994		9.641 7542		0.358 2458	9.961 8452		333	
668	9.603 6167	173	9.641 7748	206	0.358 2252	9.961 8419	33	332	
669	9.603 6339	172	9.641 7954	206	0.358 2046	9.961 8385	34	331	
		173		206			33		
.670	9.603 6512		9.641 8160		0.358 1840	9.961 8352		.330	
		173		206			33		
671	9.603 6685		9.641 8366		0.358 1634	9.961 8319		329	
672	9.603 6858	173	9.641 8572	206	0.358 1428	9.961 8286	33	328	
673	9.603 7031	173	9.641 8779	207	0.358 1221	9.961 8253	33	327	
		173		206			34		
674	9.603 7204		9.641 8985		0.358 1015	9.961 8219		326	
675	9.603 7377	173	9.641 9191	206	0.358 0809	9.961 8186	33	325	
676	9.603 7550	173	9.641 9397	206	0.358 0603	9.961 8153	33	324	
		173		206			33		
677	9.603 7723		9.641 9603		0.358 0397	9.961 8120		323	
678	9.603 7895	172	9.641 9809	206	0.358 0191	9.961 8086	34	322	
679	9.603 8068	173	9.642 0015	206	0.357 9985	9.961 8053	33	321	
		173		206			33		
.680	9.603 8241		9.642 0221		0.357 9779	9.961 8020		.320	
		173		206			33		
681	9.603 8414		9.642 0427		0.357 9573	9.961 7987		319	
682	9.603 8587	173	9.642 0633	206	0.357 9367	9.961 7953	34	318	
683	9.603 8760	173	9.642 0840	207	0.357 9160	9.961 7920	33	317	
		172		206			33		
684	9.603 8932		9.642 1046		0.357 8954	9.961 7887		316	
685	9.603 9105	173	9.642 1252	206	0.357 8748	9.961 7854	33	315	
686	9.603 9278	173	9.642 1458	206	0.357 8542	9.961 7820	34	314	
		173		206			33		
687	9.603 9451		9.642 1664		0.357 8336	9.961 7787		313	
688	9.603 9624	173	9.642 1870	206	0.357 8130	9.961 7754	33	312	
689	9.603 9796	172	9.642 2076	206	0.357 7924	9.961 7721	33	311	
		173		206			34		
.690	9.603 9969		9.642 2282		0.357 7718	9.961 7687		.310	
		173		206			33		
691	9.604 0142		9.642 2488		0.357 7512	9.961 7654		309	
692	9.604 0315	173	9.642 2694	206	0.357 7306	9.961 7621	33	308	
693	9.604 0487	172	9.642 2900	206	0.357 7100	9.961 7588	33	307	
		173		206			34		
694	9.604 0660		9.642 3106		0.357 6894	9.961 7554		306	
695	9.604 0833	173	9.642 3312	206	0.357 6688	9.961 7521	33	305	
696	9.604 1006	173	9.642 3518	206	0.357 6482	9.961 7488	33	304	
		172		206			33		
697	9.604 1178		9.642 3724		0.357 6276	9.961 7455		303	
698	9.604 1351	173	9.642 3930	206	0.357 6070	9.961 7421	34	302	
699	9.604 1524	173	9.642 4136	206	0.357 5864	9.961 7388	33	301	
		172		206			33		
.700	9.604 1696		9.642 4342		0.357 5658	9.961 7355		.300	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	207	206
1	20.7	20.6
2	41.4	41.2
3	62.1	61.8
4	82.8	82.4
5	103.5	103.0
6	124.2	123.6
7	144.9	144.2
8	165.6	164.8
9	186.3	185.4

	174	173
1	17.4	17.3
2	34.8	34.6
3	52.2	51.9
4	69.6	69.2
5	87.0	86.5
6	104.4	103.8
7	121.8	121.1
8	139.2	138.4
9	156.6	155.7

	172
1	17.2
2	34.4
3	51.6
4	68.8
5	86.0
6	103.2
7	120.4
8	137.6
9	154.8

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

$66^\circ.350 - 66^\circ.300$

$23^\circ.700 - 23^\circ.750$

23°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.604 1696		9.642 4342		0.357 5658	9.961 7355		.300	
		173		206			34		
701	9.604 1869		9.642 4548		0.357 5452	9.961 7321		299	
702	9.604 2042	173	9.642 4753	205	0.357 5247	9.961 7288	33	298	
703	9.604 2214	172	9.642 4959	206	0.357 5041	9.961 7255	33	297	
		173		206			33		
704	9.604 2387		9.642 5165		0.357 4835	9.961 7222		296	
705	9.604 2560	173	9.642 5371	206	0.357 4629	9.961 7188	34	295	
706	9.604 2732	172	9.642 5577	206	0.357 4423	9.961 7155	33	294	
		173		206			33		
707	9.604 2905		9.642 5783		0.357 4217	9.961 7122		293	
708	9.604 3077	172	9.642 5989	206	0.357 4011	9.961 7088	34	292	
709	9.604 3250	173	9.642 6195	206	0.357 3805	9.961 7055	33	291	
		173		206			33		
.710	9.604 3423		9.642 6401		0.357 3599	9.961 7022		.290	
		172		206			33		
711	9.604 3595		9.642 6607		0.357 3393	9.961 6989		289	
712	9.604 3768	173	9.642 6812	205	0.357 3188	9.961 6955	34	288	
713	9.604 3940	172	9.642 7018	206	0.357 2982	9.961 6922	33	287	
		173		206			33		
714	9.604 4113		9.642 7224		0.357 2776	9.961 6889		286	
715	9.604 4285	172	9.642 7430	206	0.357 2570	9.961 6855	34	285	
716	9.604 4458	173	9.642 7636	206	0.357 2364	9.961 6822	33	284	
		173		206			33		
717	9.604 4631		9.642 7842		0.357 2158	9.961 6789		283	
718	9.604 4803	172	9.642 8048	206	0.357 1952	9.961 6756	33	282	
719	9.604 4976	173	9.642 8253	205	0.357 1747	9.961 6722	34	281	
		172		206			33		
.720	9.604 5148		9.642 8459		0.357 1541	9.961 6689		.280	
		173		206			33		
721	9.604 5321		9.642 8665		0.357 1335	9.961 6656		279	
722	9.604 5493	172	9.642 8871	206	0.357 1129	9.961 6622	34	278	
723	9.604 5666	173	9.642 9077	206	0.357 0923	9.961 6589	33	277	
		172		205			33		
724	9.604 5838		9.642 9282		0.357 0718	9.961 6556		276	
725	9.604 6011	173	9.642 9488	206	0.357 0512	9.961 6522	34	275	
726	9.604 6183	172	9.642 9694	206	0.357 0306	9.961 6489	33	274	
		173		206			33		
727	9.604 6356		9.642 9900		0.357 0100	9.961 6456		273	
728	9.604 6528	172	9.643 0106	206	0.356 9894	9.961 6422	34	272	
729	9.604 6700	172	9.643 0311	205	0.356 9689	9.961 6389	33	271	
		173		206			33		
.730	9.604 6873		9.643 0517		0.356 9483	9.961 6356		.270	
		172		206			34		
731	9.604 7045		9.643 0723		0.356 9277	9.961 6322		269	
732	9.604 7218	173	9.643 0929	206	0.356 9071	9.961 6289	33	268	
733	9.604 7390	172	9.643 1134	205	0.356 8866	9.961 6256	33	267	
		173		206			33		
734	9.604 7563		9.643 1340		0.356 8660	9.961 6223		266	
735	9.604 7735	172	9.643 1546	206	0.356 8454	9.961 6189	34	265	
736	9.604 7907	172	9.643 1751	205	0.356 8249	9.961 6156	33	264	
		173		206			33		
737	9.604 8080		9.643 1957		0.356 8043	9.961 6123		263	
738	9.604 8252	172	9.643 2163	206	0.356 7837	9.961 6089	34	262	
739	9.604 8424	172	9.643 2369	206	0.356 7631	9.961 6056	33	261	
		173		205			33		
.740	9.604 8597		9.643 2574		0.356 7426	9.961 6023		.260	
		172		206			34		
741	9.604 8769		9.643 2780		0.356 7220	9.961 5989		259	
742	9.604 8941	172	9.643 2986	206	0.356 7014	9.961 5956	33	258	
743	9.604 9114	173	9.643 3191	205	0.356 6809	9.961 5923	33	257	
		172		206			34		
744	9.604 9286		9.643 3397		0.356 6603	9.961 5889		256	
745	9.604 9458	172	9.643 3603	206	0.356 6397	9.961 5856	33	255	
746	9.604 9631	173	9.643 3808	205	0.356 6192	9.961 5822	34	254	
		172		206			33		
747	9.604 9803		9.643 4014		0.356 5986	9.961 5789		253	
748	9.604 9975	172	9.643 4219	205	0.356 5781	9.961 5756	33	252	
749	9.605 0148	173	9.643 4425	206	0.356 5575	9.961 5722	34	251	
		172		206			33		
.750	9.605 0320		9.643 4631		0.356 5369	9.961 5689		.250	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	206
1	20.6
2	41.2
3	61.8
4	82.4
5	103.0
6	123.6
7	144.2
8	164.8
9	185.4

	205
1	20.5
2	41.0
3	61.5
4	82.0
5	102.5
6	123.0
7	143.5
8	164.0
9	184.5

	173
1	17.3
2	34.6
3	51.9
4	69.2
5	86.5
6	103.8
7	121.1
8	138.4
9	155.7

	172
1	17.2
2	34.4
3	51.6
4	68.8
5	86.0
6	103.2
7	120.4
8	137.6
9	154.8

	34	33
1	3.4	3.3
2	6.8	6.6
3	10.2	9.9
4	13.6	13.2
5	17.0	16.5
6	20.4	19.8
7	23.8	23.1
8	27.2	26.4
9	30.6	29.7

$66^\circ.300 - 66^\circ.250$

$23^\circ.750 - 23^\circ.800$

23°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.605 0320		9.643 4631		0.356 5369	9.961 5689		.250	
		172		205			33		
751	9.605 0492		9.643 4836		0.356 5164	9.961 5656		249	
752	9.605 0664	172	9.643 5042	206	0.356 4958	9.961 5622	34	248	
753	9.605 0837	173	9.643 5248	206	0.356 4752	9.961 5589	33	247	
		172		205			33		
754	9.605 1009		9.643 5453		0.356 4547	9.961 5556		246	
755	9.605 1181	172	9.643 5659	206	0.356 4341	9.961 5522	34	245	
756	9.605 1353	172	9.643 5864	205	0.356 4136	9.961 5489	33	244	
		172		206			33		
757	9.605 1525		9.643 6070		0.356 3930	9.961 5456		243	
758	9.605 1698	173	9.643 6275	205	0.356 3725	9.961 5422	34	242	
759	9.605 1870	172	9.643 6481	206	0.356 3519	9.961 5389	33	241	
		172		206			34		
.760	9.605 2042		9.643 6687		0.356 3313	9.961 5355		.240	
		172		205			33		
761	9.605 2214		9.643 6892		0.356 3108	9.961 5322		239	
762	9.605 2386	172	9.643 7098	206	0.356 2902	9.961 5289	33	238	
763	9.605 2559	173	9.643 7303	205	0.356 2697	9.961 5255	34	237	
		172		206			33		
764	9.605 2731		9.643 7509		0.356 2491	9.961 5222		236	
765	9.605 2903	172	9.643 7714	205	0.356 2286	9.961 5189	33	235	
766	9.605 3075	172	9.643 7920	206	0.356 2080	9.961 5155	34	234	
		172		205			33		
767	9.605 3247		9.643 8125		0.356 1875	9.961 5122		233	
768	9.605 3419	172	9.643 8331	206	0.356 1669	9.961 5088	34	232	
769	9.605 3591	172	9.643 8536	205	0.356 1464	9.961 5055	33	231	
		172		206			33		
.770	9.605 3763		9.643 8742		0.356 1258	9.961 5022		.230	
		173		205			34		
771	9.605 3936		9.643 8947		0.356 1053	9.961 4988		229	
772	9.605 4108	172	9.643 9153	206	0.356 0847	9.961 4955	33	228	
773	9.605 4280	172	9.643 9358	205	0.356 0642	9.961 4922	33	227	
		172		206			34		
774	9.605 4452		9.643 9564		0.356 0436	9.961 4888		226	
775	9.605 4624	172	9.643 9769	205	0.356 0231	9.961 4855	33	225	
776	9.605 4796	172	9.643 9975	206	0.356 0025	9.961 4821	34	224	
		172		205			33		
777	9.605 4968		9.644 0180		0.355 9820	9.961 4788		223	
778	9.605 5140	172	9.644 0385	205	0.355 9615	9.961 4755	33	222	
779	9.605 5312	172	9.644 0591	206	0.355 9409	9.961 4721	34	221	
		172		205			33		
.780	9.605 5484		9.644 0796		0.355 9204	9.961 4688		.220	
		172		206			34		
781	9.605 5656		9.644 1002		0.355 8998	9.961 4654		219	
782	9.605 5828	172	9.644 1207	205	0.355 8793	9.961 4621	33	218	
783	9.605 6000	172	9.644 1413	206	0.355 8587	9.961 4588	33	217	
		172		205			34		
784	9.605 6172		9.644 1618		0.355 8382	9.961 4554		216	
785	9.605 6344	172	9.644 1823	205	0.355 8177	9.961 4521	33	215	
786	9.605 6516	172	9.644 2029	206	0.355 7971	9.961 4487	34	214	
		172		205			33		
787	9.605 6688		9.644 2234		0.355 7766	9.961 4454		213	
788	9.605 6860	172	9.644 2439	205	0.355 7561	9.961 4421	33	212	
789	9.605 7032	172	9.644 2645	206	0.355 7355	9.961 4387	34	211	
		172		205			33		
.790	9.605 7204		9.644 2850		0.355 7150	9.961 4354		.210	
		172		206			34		
791	9.605 7376		9.644 3056		0.355 6944	9.961 4320		209	
792	9.605 7548	172	9.644 3261	205	0.355 6739	9.961 4287	33	208	
793	9.605 7720	172	9.644 3466	205	0.355 6534	9.961 4253	34	207	
		172		206			33		
794	9.605 7892		9.644 3672		0.355 6328	9.961 4220		206	
795	9.605 8064	172	9.644 3877	205	0.355 6123	9.961 4187	33	205	
796	9.605 8235	171	9.644 4082	205	0.355 5918	9.961 4153	34	204	
		172		205			33		
797	9.605 8407		9.644 4287		0.355 5713	9.961 4120		203	
798	9.605 8579	172	9.644 4493	206	0.355 5507	9.961 4086	34	202	
799	9.605 8751	172	9.644 4698	205	0.355 5302	9.961 4053	33	201	
		172		205			33		
.800	9.605 8923		9.644 4903		0.355 5097	9.961 4020		.200	
	cos	d	cotg	d	tang	sin	d	66°	P.P.

	206
1	20.6
2	41.2
3	61.8
4	82.4
5	103.0
6	123.6
7	144.2
8	164.8
9	185.4

	205
1	20.5
2	41.0
3	61.5
4	82.0
5	102.5
6	123.0
7	143.5
8	164.0
9	184.5

	173
1	17.3
2	34.6
3	51.9
4	69.2
5	86.5
6	103.8
7	121.1
8	138.4
9	155.7

	172
1	17.2
2	34.4
3	51.6
4	68.8
5	86.0
6	103.2
7	120.4
8	137.6
9	154.8

	171
1	17.1
2	34.2
3	51.3
4	68.4
5	85.5
6	102.6
7	119.7
8	136.8
9	153.9

	34	33
1	3.4	3.3
2	6.8	6.6
3	10.2	9.9
4	13.6	13.2
5	17.0	16.5
6	20.4	19.8
7	23.8	23.1
8	27.2	26.4
9	30.6	29.7

$66^\circ.250 - 66^\circ.200$

23°.800 — 23°.850

23°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.605 8923		9.644 4903		0.355 5097	9.961 4020		**.200**	
		172		206			34		
801	9.605 9095		9.644 5109		0.355 4891	9.961 3986		199	
802	9.605 9267	172	9.644 5314	205	0.355 4686	9.961 3953	33	198	
803	9.605 9438	171	9.644 5519	205	0.355 4481	9.961 3919	34	197	
		172		205			33		
804	9.605 9610		9.644 5724		0.355 4276	9.961 3886		196	
805	9.605 9782	172	9.644 5930	206	0.355 4070	9.961 3852	34	195	
806	9.605 9954	172	9.644 6135	205	0.355 3865	9.961 3819	33	194	
		172		205			34		
807	9.606 0126		9.644 6340		0.355 3660	9.961 3785		193	
808	9.606 0298	172	9.644 6546	206	0.355 3454	9.961 3752	33	192	
809	9.606 0469	171	9.644 6751	205	0.355 3249	9.961 3719	33	191	
		172		205			34		
.810	9.606 0641		9.644 6956		0.355 3044	9.961 3685		**.190**	
		172		205			33		
811	9.606 0813		9.644 7161		0.355 2839	9.961 3652		189	
812	9.606 0985	172	9.644 7366	205	0.355 2634	9.961 3618	34	188	
813	9.606 1156	171	9.644 7572	206	0.355 2428	9.961 3585	33	187	
		172		205			34		
814	9.606 1328		9.644 7777		0.355 2223	9.961 3551		186	
815	9.606 1500	172	9.644 7982	205	0.355 2018	9.961 3518	33	185	
816	9.606 1672	172	9.644 8187	205	0.355 1813	9.961 3484	34	184	
		171		205			33		
817	9.606 1843		9.644 8392		0.355 1608	9.961 3451		183	
818	9.606 2015	172	9.644 8598	206	0.355 1402	9.961 3417	34	182	
819	9.606 2187	172	9.644 8803	205	0.355 1197	9.961 3384	33	181	
		171		205			33		
.820	9.606 2358		9.644 9008		0.355 0992	9.961 3351		**.180**	
		172		205			34		
821	9.606 2530		9.644 9213		0.355 0787	9.961 3317		179	
822	9.606 2702	172	9.644 9418	205	0.355 0582	9.961 3284	33	178	
823	9.606 2873	171	9.644 9623	205	0.355 0377	9.961 3250	34	177	
		172		205			33		
824	9.606 3045		9.644 9828		0.355 0172	9.961 3217		176	
825	9.606 3217	172	9.645 0034	206	0.354 9966	9.961 3183	34	175	
826	9.606 3388	171	9.645 0239	205	0.354 9761	9.961 3150	33	174	
		172		205			34		
827	9.606 3560		9.645 0444		0.354 9556	9.961 3116		173	
828	9.606 3732	172	9.645 0649	205	0.354 9351	9.961 3083	33	172	
829	9.606 3903	171	9.645 0854	205	0.354 9146	9.961 3049	34	171	
		172		205			33		
.830	9.606 4075		9.645 1059		0.354 8941	9.961 3016		**.170**	
		172		205			34		
831	9.606 4247		9.645 1264		0.354 8736	9.961 2982		169	
832	9.606 4418	171	9.645 1469	205	0.354 8531	9.961 2949	33	168	
833	9.606 4590	172	9.645 1674	205	0.354 8326	9.961 2915	34	167	
		171		205			33		
834	9.606 4761		9.645 1879		0.354 8121	9.961 2882		166	
835	9.606 4933	172	9.645 2085	206	0.354 7915	9.961 2848	34	165	
836	9.606 5105	172	9.645 2290	205	0.354 7710	9.961 2815	33	164	
		171		205			34		
837	9.606 5276		9.645 2495		0.354 7505	9.961 2781		163	
838	9.606 5448	172	9.645 2700	205	0.354 7300	9.961 2748	33	162	
839	9.606 5619	171	9.645 2905	205	0.354 7095	9.961 2714	34	161	
		172		205			33		
.840	9.606 5791		9.645 3110		0.354 6890	9.961 2681		**.160**	
		171		205			34		
841	9.606 5962		9.645 3315		0.354 6685	9.961 2647		159	
842	9.606 6134	172	9.645 3520	205	0.354 6480	9.961 2614	33	158	
843	9.606 6305	171	9.645 3725	205	0.354 6275	9.961 2581	33	157	
		172		205			34		
844	9.606 6477		9.645 3930		0.354 6070	9.961 2547		156	
845	9.606 6648	171	9.645 4135	205	0.354 5865	9.961 2513	34	155	
846	9.606 6820	172	9.645 4340	205	0.354 5660	9.961 2480	33	154	
		171		205			34		
847	9.606 6991		9.645 4545		0.354 5455	9.961 2446		153	
848	9.606 7163	172	9.645 4750	205	0.354 5250	9.961 2413	33	152	
849	9.606 7334	171	9.645 4955	205	0.354 5045	9.961 2379	34	151	
		172		205			33		
.850	9.606 7506		9.645 5160		0.354 4840	9.961 2346		**.150**	
	cos	d	cotg	d	tang	sin	d	**66°**	P.P.

	206
1	20.6
2	41.2
3	61.8
4	82.4
5	103.0
6	123.6
7	144.2
8	164.8
9	185.4

	205
1	20.5
2	41.0
3	61.5
4	82.0
5	102.5
6	123.0
7	143.5
8	164.0
9	184.5

	172
1	17.2
2	34.4
3	51.6
4	68.8
5	86.0
6	103.2
7	120.4
8	137.6
9	154.8

	171
1	17.1
2	34.2
3	51.3
4	68.4
5	85.5
6	102.6
7	119.7
8	136.8
9	153.9

	34	33
1	3.4	3.3
2	6.8	6.6
3	10.2	9.9
4	13.6	13.2
5	17.0	16.5
6	20.4	19.8
7	23.8	23.1
8	27.2	26.4
9	30.6	29.7

66°.200 — 66°.150

23°.850 — 23°.900

23°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.606 7506		9.645 5160		0.354 4840	9.961 2346		**.150**	
		171		205			34		
851	9.606 7677		9.645 5365		0.354 4635	9.961 2312		149	
852	9.606 7849	172	9.645 5570	205	0.354 4430	9.961 2279	33	148	
853	9.606 8020	171	9.645 5775	205	0.354 4225	9.961 2245	34	147	
		171		205			33		
854	9.606 8191		9.645 5980		0.354 4020	9.961 2212		146	
855	9.606 8363	172	9.645 6184	204	0.354 3816	9.961 2178	34	145	
856	9.606 8534	171	9.645 6389	205	0.354 3611	9.961 2145	33	144	
		172		205			34		
857	9.606 8706		9.645 6594		0.354 3406	9.961 2111		143	
858	9.606 8877	171	9.645 6799	205	0.354 3201	9.961 2078	33	142	
859	9.606 9048	171	9.645 7004	205	0.354 2996	9.961 2044	34	141	
		172		205			33		
.860	9.606 9220		9.645 7209		0.354 2791	9.961 2011		**.140**	
		171		205			34		
861	9.606 9391		9.645 7414		0.354 2586	9.961 1977		139	
862	9.606 9563	172	9.645 7619	205	0.354 2381	9.961 1944	33	138	
863	9.606 9734	171	9.645 7824	205	0.354 2176	9.961 1910	34	137	
		171		205			33		
864	9.606 9905		9.645 8029		0.354 1971	9.961 1877		136	
865	9.607 0077	172	9.645 8233	204	0.354 1767	9.961 1843	34	135	
866	9.607 0248	171	9.645 8438	205	0.354 1562	9.961 1810	33	134	
		171		205			34		
867	9.607 0419		9.645 8643		0.354 1357	9.961 1776		133	
868	9.607 0591	172	9.645 8848	205	0.354 1152	9.961 1743	33	132	
869	9.607 0762	171	9.645 9053	205	0.354 0947	9.961 1709	34	131	
		171		205			34		
.870	9.607 0933		9.645 9258		0.354 0742	9.961 1675		**.130**	
		171		205			33		
871	9.607 1104		9.645 9463		0.354 0537	9.961 1642		129	
872	9.607 1276	172	9.645 9667	204	0.354 0333	9.961 1608	34	128	
873	9.607 1447	171	9.645 9872	205	0.354 0128	9.961 1575	33	127	
		171		205			34		
874	9.607 1618		9.646 0077		0.353 9923	9.961 1541		126	
875	9.607 1789	171	9.646 0282	205	0.353 9718	9.961 1508	33	125	
876	9.607 1961	172	9.646 0487	205	0.353 9513	9.961 1474	34	124	
		171		204			33		
877	9.607 2132		9.646 0691		0.353 9309	9.961 1441		123	
878	9.607 2303	171	9.646 0896	205	0.353 9104	9.961 1407	34	122	
879	9.607 2474	171	9.646 1101	205	0.353 8899	9.961 1374	33	121	
		172		205			34		
.880	9.607 2646		9.646 1306		0.353 8694	9.961 1340		**.120**	
		171		204			34		
881	9.607 2817		9.646 1510		0.353 8490	9.961 1306		119	
882	9.607 2988	171	9.646 1715	205	0.353 8285	9.961 1273	33	118	
883	9.607 3159	171	9.646 1920	205	0.353 8080	9.961 1239	34	117	
		171		205			33		
884	9.607 3330		9.646 2125		0.353 7875	9.961 1206		116	
885	9.607 3502	172	9.646 2329	204	0.353 7671	9.961 1172	34	115	
886	9.607 3673	171	9.646 2534	205	0.353 7466	9.961 1139	33	114	
		171		205			34		
887	9.607 3844		9.646 2739		0.353 7261	9.961 1105		113	
888	9.607 4015	171	9.646 2944	205	0.353 7056	9.961 1071	34	112	
889	9.607 4186	171	9.646 3148	204	0.353 6852	9.961 1038	33	111	
		171		205			34		
.890	9.607 4357		9.646 3353		0.353 6647	9.961 1004		**.110**	
		171		205			33		
891	9.607 4528		9.646 3558		0.353 6442	9.961 0971		109	
892	9.607 4700	172	9.646 3762	204	0.353 6238	9.961 0937	34	108	
893	9.607 4871	171	9.646 3967	205	0.353 6033	9.961 0904	33	107	
		171		205			34		
894	9.607 5042		9.646 4172		0.353 5828	9.961 0870		106	
895	9.607 5213	171	9.646 4376	204	0.353 5624	9.961 0836	34	105	
896	9.607 5384	171	9.646 4581	205	0.353 5419	9.961 0803	33	104	
		171		205			34		
897	9.607 5555		9.646 4786		0.353 5214	9.961 0769		103	
898	9.607 5726	171	9.646 4990	204	0.353 5010	9.961 0736	33	102	
899	9.607 5897	171	9.646 5195	205	0.353 4805	9.961 0702	34	101	
		171		205			34		
.900	9.607 6068		9.646 5400		0.353 4600	9.961 0668		**.100**	
	cos	d	cotg	d	tang	sin	d	**66°**	P.P.

	205
1	20.5
2	41.0
3	61.5
4	82.0
5	102.5
6	123.0
7	143.5
8	164.0
9	184.5

	204
1	20.4
2	40.8
3	61.2
4	81.6
5	102.0
6	122.4
7	142.8
8	163.2
9	183.6

	172
1	17.2
2	34.4
3	51.6
4	68.8
5	86.0
6	103.2
7	120.4
8	137.6
9	154.8

	171
1	17.1
2	34.2
3	51.3
4	68.4
5	85.5
6	102.6
7	119.7
8	136.8
9	153.9

	34	33
1	3.4	3.3
2	6.8	6.6
3	10.2	9.9
4	13.6	13.2
5	17.0	16.5
6	20.4	19.8
7	23.8	23.1
8	27.2	26.4
9	30.6	29.7

66°.150 — 66°.100

23°.900 — 23°.950

23°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.607 6068		9.646 5400		0.353 4600	9.961 0668		**.100**	
		171		204			33		
901	9.607 6239		9.646 5604		0.353 4396	9.961 0635		099	
902	9.607 6410	171	9.646 5809	205	0.353 4191	9.961 0601	34	098	
903	9.607 6581	171	9.646 6014	205	0.353 3986	9.961 0568	33	097	
		171		204			34		
904	9.607 6752		9.646 6218		0.353 3782	9.961 0534		096	
905	9.607 6923	171	9.646 6423	205	0.353 3577	9.961 0501	33	095	
906	9.607 7094	171	9.646 6627	204	0.353 3373	9.961 0467	34	094	
		171		205			34		
907	9.607 7265		9.646 6832		0.353 3168	9.961 0433		093	
908	9.607 7436	171	9.646 7037	205	0.353 2963	9.961 0400	33	092	
909	9.607 7607	171	9.646 7241	204	0.353 2759	9.961 0366	34	091	
		171		205			33		
.910	9.607 7778		9.646 7446		0.353 2554	9.961 0333		**.090**	
		171		204			34		
911	9.607 7949		9.646 7650		0.353 2350	9.961 0299		089	
912	9.607 8120	171	9.646 7855	205	0.353 2145	9.961 0265	34	088	
913	9.607 8291	171	9.646 8060	205	0.353 1940	9.961 0232	33	087	
		171		204			34		
914	9.607 8462		9.646 8264		0.353 1736	9.961 0198		086	
915	9.607 8633	171	9.646 8469	205	0.353 1531	9.961 0164	34	085	
916	9.607 8804	171	9.646 8673	204	0.353 1327	9.961 0131	33	084	
		171		205			34		
917	9.607 8975		9.646 8878		0.353 1122	9.961 0097		083	
918	9.607 9146	171	9.646 9082	204	0.353 0918	9.961 0064	33	082	
919	9.607 9317	171	9.646 9287	205	0.353 0713	9.961 0030	34	081	
		171		204			34		
.920	9.607 9488		9.646 9491		0.353 0509	9.960 9996		**.080**	
		171		205			33		
921	9.607 9659		9.646 9696		0.353 0304	9.960 9963		079	
922	9.607 9829	170	9.646 9900	204	0.353 0100	9.960 9929	34	078	
923	9.608 0000	171	9.647 0105	205	0.352 9895	9.960 9896	33	077	
		171		204			34		
924	9.608 0171		9.647 0309		0.352 9691	9.960 9862		076	
925	9.608 0342	171	9.647 0514	205	0.352 9486	9.960 9828	34	075	
926	9.608 0513	171	9.647 0718	204	0.352 9282	9.960 9795	33	074	
		171		205			34		
927	9.608 0684		9.647 0923		0.352 9077	9.960 9761		073	
928	9.608 0854	170	9.647 1127	204	0.352 8873	9.960 9727	34	072	
929	9.608 1025	171	9.647 1332	205	0.352 8668	9.960 9694	33	071	
		171		204			34		
.930	9.608 1196		9.647 1536		0.352 8464	9.960 9660		**.070**	
		171		204			34		
931	9.608 1367		9.647 1740		0.352 8260	9.960 9626		069	
932	9.608 1538	171	9.647 1945	205	0.352 8055	9.960 9593	33	068	
933	9.608 1708	170	9.647 2149	204	0.352 7851	9.960 9559	34	067	
		171		205			33		
934	9.608 1879		9.647 2354		0.352 7646	9.960 9526		066	
935	9.608 2050	171	9.647 2558	204	0.352 7442	9.960 9492	34	065	
936	9.608 2221	171	9.647 2763	205	0.352 7237	9.960 9458	34	064	
		171		204			33		
937	9.608 2392		9.647 2967		0.352 7033	9.960 9425		063	
938	9.608 2562	170	9.647 3171	204	0.352 6829	9.960 9391	34	062	
939	9.608 2733	171	9.647 3376	205	0.352 6624	9.960 9357	34	061	
		171		204			33		
.940	9.608 2904		9.647 3580		0.352 6420	9.960 9324		**.060**	
		171		205			34		
941	9.608 3075		9.647 3785		0.352 6215	9.960 9290		059	
942	9.608 3245	170	9.647 3989	204	0.352 6011	9.960 9256	34	058	
943	9.608 3416	171	9.647 4193	204	0.352 5807	9.960 9223	33	057	
		171		205			34		
944	9.608 3587		9.647 4398		0.352 5602	9.960 9189		056	
945	9.608 3757	170	9.647 4602	204	0.352 5398	9.960 9155	34	055	
946	9.608 3928	171	9.647 4806	204	0.352 5194	9.960 9122	33	054	
		171		205			34		
947	9.608 4099		9.647 5011		0.352 4989	9.960 9088		053	
948	9.608 4269	170	9.647 5215	204	0.352 4785	9.960 9054	34	052	
949	9.608 4440	171	9.647 5419	204	0.352 4581	9.960 9021	33	051	
		171		205			34		
.950	9.608 4611		9.647 5624		0.352 4376	9.960 8987		**.050**	
	cos	d	cotg	d	tang	sin	d	**66°**	P.P.

	205
1	20.5
2	41.0
3	61.5
4	82.0
5	102.5
6	123.0
7	143.5
8	164.0
9	184.5

	204
1	20.4
2	40.8
3	61.2
4	81.6
5	102.0
6	122.4
7	142.8
8	163.2
9	183.6

	171
1	17.1
2	34.2
3	51.3
4	68.4
5	85.5
6	102.6
7	119.7
8	136.8
9	153.9

	170
1	17.0
2	34.0
3	51.0
4	68.0
5	85.0
6	102.0
7	119.0
8	136.0
9	153.0

	34	33
1	3.4	3.3
2	6.8	6.6
3	10.2	9.9
4	13.6	13.2
5	17.0	16.5
6	20.4	19.8
7	23.8	23.1
8	27.2	26.4
9	30.6	29.7

66°.100 — 66°.050

$23^\circ.950 - 24^\circ.000$

23°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.608 4611		9.647 5624		0.352 4376	9.960 8987		**.050**	
		170		204			34		
951	9.608 4781		9.647 5828		0.352 4172	9.960 8953		049	
952	9.608 4952	171	9.647 6032	204	0.352 3968	9.960 8920	33	048	
953	9.608 5123	171	9.647 6237	205	0.352 3763	9.960 8886	34	047	
		170		204			34		
954	9.608 5293		9.647 6441		0.352 3559	9.960 8852		046	
955	9.608 5464	171	9.647 6645	204	0.352 3355	9.960 8819	33	045	
956	9.608 5634	170	9.647 6849	204	0.352 3151	9.960 8785	34	044	
		171		205			34		
957	9.608 5805		9.647 7054		0.352 2946	9.960 8751		043	
958	9.608 5976	171	9.647 7258	204	0.352 2742	9.960 8718	33	042	
959	9.608 6146	170	9.647 7462	204	0.352 2538	9.960 8684	34	041	
		171		204			34		
.960	9.608 6317		9.647 7666		0.352 2334	9.960 8650		**.040**	
		170		205			33		
961	9.608 6487		9.647 7871		0.352 2129	9.960 8617		039	
962	9.608 6658	171	9.647 8075	204	0.352 1925	9.960 8583	34	038	
963	9.608 6828	170	9.647 8279	204	0.352 1721	9.960 8549	34	037	
		171		204			33		
964	9.608 6999		9.647 8483		0.352 1517	9.960 8516		036	
965	9.608 7169	170	9.647 8688	205	0.352 1312	9.960 8482	34	035	
966	9.608 7340	171	9.647 8892	204	0.352 1108	9.960 8448	34	034	
		171		204			34		
967	9.608 7511		9.647 9096		0.352 0904	9.960 8414		033	
968	9.608 7681	170	9.647 9300	204	0.352 0700	9.960 8381	33	032	
969	9.608 7852	171	9.647 9504	204	0.352 0496	9.960 8347	34	031	
		170		205			34		
.970	9.608 8022		9.647 9709		0.352 0291	9.960 8313		**.030**	
		170		204			33		
971	9.608 8192		9.647 9913		0.352 0087	9.960 8280		029	
972	9.608 8363	171	9.648 0117	204	0.351 9883	9.960 8246	34	028	
973	9.608 8533	170	9.648 0321	204	0.351 9679	9.960 8212	34	027	
		171		204			33		
974	9.608 8704		9.648 0525		0.351 9475	9.960 8179		026	
975	9.608 8874	170	9.648 0730	205	0.351 9270	9.960 8145	34	025	
976	9.608 9045	171	9.648 0934	204	0.351 9066	9.960 8111	34	024	
		170		204			34		
977	9.608 9215		9.648 1138		0.351 8862	9.960 8077		023	
978	9.608 9386	171	9.648 1342	204	0.351 8658	9.960 8044	33	022	
979	9.608 9556	170	9.648 1546	204	0.351 8454	9.960 8010	34	021	
		170		204			34		
.980	9.608 9726		9.648 1750		0.351 8250	9.960 7976		**.020**	
		171		204			33		
981	9.608 9897		9.648 1954		0.351 8046	9.960 7943		019	
982	9.609 0067	170	9.648 2158	204	0.351 7842	9.960 7909	34	018	
983	9.609 0238	171	9.648 2363	205	0.351 7637	9.960 7875	34	017	
		170		204			34		
984	9.609 0408		9.648 2567		0.351 7433	9.960 7841		016	
985	9.609 0578	170	9.648 2771	204	0.351 7229	9.960 7808	33	015	
986	9.609 0749	171	9.648 2975	204	0.351 7025	9.960 7774	34	014	
		170		204			34		
987	9.609 0919		9.648 3179		0.351 6821	9.960 7740		013	
988	9.609 1089	170	9.648 3383	204	0.351 6617	9.960 7706	34	012	
989	9.609 1260	171	9.648 3587	204	0.351 6413	9.960 7673	33	011	
		170		204			34		
.990	9.609 1430		9.648 3791		0.351 6209	9.960 7639		**.010**	
		170		204			34		
991	9.609 1600		9.648 3995		0.351 6005	9.960 7605		009	
992	9.609 1771	171	9.648 4199	204	0.351 5801	9.960 7572	33	008	
993	9.609 1941	170	9.648 4403	204	0.351 5597	9.960 7538	34	007	
		170		204			34		
994	9.609 2111		9.648 4607		0.351 5393	9.960 7504		006	
995	9.609 2282	171	9.648 4811	204	0.351 5189	9.960 7470	34	005	
996	9.609 2452	170	9.648 5015	204	0.351 4985	9.960 7437	33	004	
		170		204			34		
997	9.609 2622		9.648 5219		0.351 4781	9.960 7403		003	
998	9.609 2792	170	9.648 5423	204	0.351 4577	9.960 7369	34	002	
999	9.609 2963	171	9.648 5627	204	0.351 4373	9.960 7335	34	001	
		170		204			33		
***000**	9.609 3133		9.648 5831		0.351 4169	9.960 7302		**.000**	
	cos	d	cotg	d	tang	sin	d	**66°**	P.P.

	205	204
1	20.5	20.4
2	41.0	40.8
3	61.5	61.2
4	82.0	81.6
5	102.5	102.0
6	123.0	122.4
7	143.5	142.8
8	164.0	163.2
9	184.5	183.6

	171
1	17.1
2	34.2
3	51.3
4	68.4
5	85.5
6	102.6
7	119.7
8	136.8
9	153.9

	170
1	17.0
2	34.0
3	51.0
4	68.0
5	85.0
6	102.0
7	119.0
8	136.0
9	153.0

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

$66^\circ.050 - 66^\circ.000$

24°.000 — 24°.050

24°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.609 3133		9.648 5831		0.351 4169	9.960 7302		***000**	
		170		204			34		
001	9.609 3303		9.648 6035		0.351 3965	9.960 7268		999	
002	9.609 3473	170	9.648 6239	204	0.351 3761	9.960 7234	34	998	
003	9.609 3644	171	9.648 6443	204	0.351 3557	9.960 7200	34	997	
		170		204			33		
004	9.609 3814		9.648 6647		0.351 3353	9.960 7167		996	
005	9.609 3984	170	9.648 6851	204	0.351 3149	9.960 7133	34	995	
006	9.609 4154	170	9.648 7055	204	0.351 2945	9.960 7099	34	994	
		171		204			34		
007	9.609 4325		9.648 7259		0.351 2741	9.960 7065		993	
008	9.609 4495	170	9.648 7463	204	0.351 2537	9.960 7032	33	992	
009	9.609 4665	170	9.648 7667	204	0.351 2333	9.960 6998	34	991	
		170		204			34		
.010	9.609 4835		9.648 7871		0.351 2129	9.960 6964		**.990**	
		170		204			34		
011	9.609 5005		9.648 8075		0.351 1925	9.960 6930		989	
012	9.609 5175	170	9.648 8279	204	0.351 1721	9.960 6897	33	988	
013	9.609 5346	171	9.648 8483	204	0.351 1517	9.960 6863	34	987	
		170		204			34		
014	9.609 5516		9.648 8687		0.351 1313	9.960 6829		986	
015	9.609 5686	170	9.648 8891	204	0.351 1109	9.960 6795	34	985	
016	9.609 5856	170	9.648 9094	203	0.351 0906	9.960 6761	34	984	
		170		204			33		
017	9.609 6026		9.648 9298		0.351 0702	9.960 6728		983	
018	9.609 6196	170	9.648 9502	204	0.351 0498	9.960 6694	34	982	
019	9.609 6366	170	9.648 9706	204	0.351 0294	9.960 6660	34	981	
		170		204			34		
.020	9.609 6536		9.648 9910		0.351 0090	9.960 6626		**.980**	
		170		204			33		
021	9.609 6706		9.649 0114		0.350 9886	9.960 6593		979	
022	9.609 6876	170	9.649 0318	204	0.350 9682	9.960 6559	34	978	
023	9.609 7047	171	9.649 0522	204	0.350 9478	9.960 6525	34	977	
		170		203			34		
024	9.609 7217		9.649 0725		0.350 9275	9.960 6491		976	
025	9.609 7387	170	9.649 0929	204	0.350 9071	9.960 6457	34	975	
026	9.609 7557	170	9.649 1133	204	0.350 8867	9.960 6424	33	974	
		170		204			34		
027	9.609 7727		9.649 1337		0.350 8663	9.960 6390		973	
028	9.609 7897	170	9.649 1541	204	0.350 8459	9.960 6356	34	972	
029	9.609 8067	170	9.649 1745	204	0.350 8255	9.960 6322	34	971	
		170		203			34		
.030	9.609 8237		9.649 1948		0.350 8052	9.960 6288		**.970**	
		170		204			33		
031	9.609 8407		9.649 2152		0.350 7848	9.960 6255		969	
032	9.609 8577	170	9.649 2356	204	0.350 7644	9.960 6221	34	968	
033	9.609 8747	170	9.649 2560	204	0.350 7440	9.960 6187	34	967	
		170		203			34		
034	9.609 8917		9.649 2763		0.350 7237	9.960 6153		966	
035	9.609 9087	170	9.649 2967	204	0.350 7033	9.960 6119	34	965	
036	9.609 9257	170	9.649 3171	204	0.350 6829	9.960 6086	33	964	
		170		204			34		
037	9.609 9427		9.649 3375		0.350 6625	9.960 6052		963	
038	9.609 9597	170	9.649 3579	204	0.350 6421	9.960 6018	34	962	
039	9.609 9767	170	9.649 3782	203	0.350 6218	9.960 5984	34	961	
		169		204			34		
.040	9.609 9936		9.649 3986		0.350 6014	9.960 5950		**.960**	
		170		204			33		
041	9.610 0106		9.649 4190		0.350 5810	9.960 5917		959	
042	9.610 0276	170	9.649 4393	203	0.350 5607	9.960 5883	34	958	
043	9.610 0446	170	9.649 4597	204	0.350 5403	9.960 5849	34	957	
		170		204			34		
044	9.610 0616		9.649 4801		0.350 5199	9.960 5815		956	
045	9.610 0786	170	9.649 5005	204	0.350 4995	9.960 5781	34	955	
046	9.610 0956	170	9.649 5208	203	0.350 4792	9.960 5748	33	954	
		170		204			34		
047	9.610 1126		9.649 5412		0.350 4588	9.960 5714		953	
048	9.610 1296	170	9.649 5616	204	0.350 4384	9.960 5680	34	952	
049	9.610 1465	169	9.649 5819	203	0.350 4181	9.960 5646	34	951	
		170		204			34		
.050	9.610 1635		9.649 6023		0.350 3977	9.960 5612		**.950**	
	cos	d	cotg	d	tang	sin	d	**65°**	P.P.

66°.000 — 65°.950

	204	203
1	20.4	20.3
2	40.8	40.6
3	61.2	60.9
4	81.6	81.2
5	102.0	101.5
6	122.4	121.8
7	142.8	142.1
8	163.2	162.4
9	183.6	182.7

	171	170
1	17.1	17.0
2	34.2	34.0
3	51.3	51.0
4	68.4	68.0
5	85.5	85.0
6	102.6	102.0
7	119.7	119.0
8	136.8	136.0
9	153.9	153.0

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

24°.050 — 24°.100

24°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.610 1635		9.649 6023		0.350 3977	9.960 5612		.950	
		170		204			34		
051	9.610 1805		9.649 6227		0.350 3773	9.960 5578		949	
052	9.610 1975	170	9.649 6430	203	0.350 3570	9.960 5545	33	948	
053	9.610 2145	170	9.649 6634	204	0.350 3366	9.960 5511	34	947	
		170		204			34		
054	9.610 2315		9.649 6838		0.350 3162	9.960 5477		946	
055	9.610 2484	169	9.649 7041	203	0.350 2959	9.960 5443	34	945	
056	9.610 2654	170	9.649 7245	204	0.350 2755	9.960 5409	34	944	
		170		204			34		
057	9.610 2824		9.649 7449		0.350 2551	9.960 5375		943	
058	9.610 2994	170	9.649 7652	203	0.350 2348	9.960 5342	33	942	
059	9.610 3164	170	9.649 7856	204	0.350 2144	9.960 5308	34	941	
		169		204			34		
.060	9.610 3333		9.649 8060		0.350 1940	9.960 5274		.940	
		170		203			34		
061	9.610 3503		9.649 8263		0.350 1737	9.960 5240		939	
062	9.610 3673	170	9.649 8467	204	0.350 1533	9.960 5206	34	938	
063	9.610 3843	170	9.649 8670	203	0.350 1330	9.960 5172	34	937	
		169		204			33		
064	9.610 4012		9.649 8874		0.350 1126	9.960 5139		936	
065	9.610 4182	170	9.649 9077	203	0.350 0923	9.960 5105	34	935	
066	9.610 4352	170	9.649 9281	204	0.350 0719	9.960 5071	34	934	
		170		204			34		
067	9.610 4522		9.649 9485		0.350 0515	9.960 5037		933	
068	9.610 4691	169	9.649 9688	203	0.350 0312	9.960 5003	34	932	
069	9.610 4861	170	9.649 9892	204	0.350 0108	9.960 4969	34	931	
		170		203			34		
.070	9.610 5031		9.650 0095		0.349 9905	9.960 4935		.930	
		169		204			33		
071	9.610 5200		9.650 0299		0.349 9701	9.960 4902		929	
072	9.610 5370	170	9.650 0502	203	0.349 9498	9.960 4868	34	928	
073	9.610 5540	170	9.650 0706	204	0.349 9294	9.960 4834	34	927	
		169		203			34		
074	9.610 5709		9.650 0909		0.349 9091	9.960 4800		926	
075	9.610 5879	170	9.650 1113	204	0.349 8887	9.960 4766	34	925	
076	9.610 6049	170	9.650 1316	203	0.349 8684	9.960 4732	34	924	
		169		204			34		
077	9.610 6218		9.650 1520		0.349 8480	9.960 4698		923	
078	9.610 6388	170	9.650 1723	203	0.349 8277	9.960 4664	34	922	
079	9.610 6558	170	9.650 1927	204	0.349 8073	9.960 4631	33	921	
		169		203			34		
.080	9.610 6727		9.650 2130		0.349 7870	9.960 4597		.920	
		170		204			34		
081	9.610 6897		9.650 2334		0.349 7666	9.960 4563		919	
082	9.610 7066	169	9.650 2537	203	0.349 7463	9.960 4529	34	918	
083	9.610 7236	170	9.650 2741	204	0.349 7259	9.960 4495	34	917	
		170		203			34		
084	9.610 7406		9.650 2944		0.349 7056	9.960 4461		916	
085	9.610 7575	169	9.650 3148	204	0.349 6852	9.960 4427	34	915	
086	9.610 7745	170	9.650 3351	203	0.349 6649	9.960 4393	34	914	
		169		204			33		
087	9.610 7914		9.650 3555		0.349 6445	9.960 4360		913	
088	9.610 8084	170	9.650 3758	203	0.349 6242	9.960 4326	34	912	
089	9.610 8253	169	9.650 3962	204	0.349 6038	9.960 4292	34	911	
		170		203			34		
.090	9.610 8423		9.650 4165		0.349 5835	9.960 4258		.910	
		169		203			34		
091	9.610 8592		9.650 4368		0.349 5632	9.960 4224		909	
092	9.610 8762	170	9.650 4572	204	0.349 5428	9.960 4190	34	908	
093	9.610 8931	169	9.650 4775	203	0.349 5225	9.960 4156	34	907	
		170		204			34		
094	9.610 9101		9.650 4979		0.349 5021	9.960 4122		906	
095	9.610 9270	169	9.650 5182	203	0.349 4818	9.960 4088	34	905	
096	9.610 9440	170	9.650 5385	203	0.349 4615	9.960 4055	33	904	
		169		204			34		
097	9.610 9609		9.650 5589		0.349 4411	9.960 4021		903	
098	9.610 9779	170	9.650 5792	203	0.349 4208	9.960 3987	34	902	
099	9.610 9948	169	9.650 5996	204	0.349 4004	9.960 3953	34	901	
		170		203			34		
.100	9.611 0118		9.650 6199		0.349 3801	9.960 3919		.900	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	204	203
1	20.4	20.3
2	40.8	40.6
3	61.2	60.9
4	81.6	81.2
5	102.0	101.5
6	122.4	121.8
7	142.8	142.1
8	163.2	162.4
9	183.6	182.7

	170
1	17.0
2	34.0
3	51.0
4	68.0
5	85.0
6	102.0
7	119.0
8	136.0
9	153.0

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

65°.950 — 65°.900

24°.100 — 24°.150

24°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.611 0118		9.650 6199		0.349 3801	9.960 3919		.900	
		169		203			34		
101	9.611 0287		9.650 6402		0.349 3598	9.960 3885		899	
102	9.611 0457	170	9.650 6606	204	0.349 3394	9.960 3851	34	898	
103	9.611 0626	169	9.650 6809	203	0.349 3191	9.960 3817	34	897	
		170		203			34		
104	9.611 0796		9.650 7012		0.349 2988	9.960 3783		896	
105	9.611 0965	169	9.650 7216	204	0.349 2784	9.960 3749	34	895	
106	9.611 1134	169	9.650 7419	203	0.349 2581	9.960 3715	34	894	
		170		203			33		
107	9.611 1304		9.650 7622		0.349 2378	9.960 3682		893	
108	9.611 1473	169	9.650 7826	204	0.349 2174	9.960 3648	34	892	
109	9.611 1643	170	9.650 8029	203	0.349 1971	9.960 3614	34	891	
		169		203			34		
.110	9.611 1812		9.650 8232		0.349 1768	9.960 3580		.890	
		169		203			34		
111	9.611 1981		9.650 8435		0.349 1565	9.960 3546		889	
112	9.611 2151	170	9.650 8639	204	0.349 1361	9.960 3512	34	888	
113	9.611 2320	169	9.650 8842	203	0.349 1158	9.960 3478	34	887	
		169		203			34		
114	9.611 2489		9.650 9045		0.349 0955	9.960 3444		886	
115	9.611 2659	170	9.650 9248	203	0.349 0752	9.960 3410	34	885	
116	9.611 2828	169	9.650 9452	204	0.349 0548	9.960 3376	34	884	
		169		203			34		
117	9.611 2997		9.650 9655		0.349 0345	9.960 3342		883	
118	9.611 3167	170	9.650 9858	203	0.349 0142	9.960 3308	34	882	
119	9.611 3336	169	9.651 0061	203	0.348 9939	9.960 3274	34	881	
		169		204			34		
.120	9.611 3505		9.651 0265		0.348 9735	9.960 3240		.880	
		169		203			33		
121	9.611 3674		9.651 0468		0.348 9532	9.960 3207		879	
122	9.611 3844	170	9.651 0671	203	0.348 9329	9.960 3173	34	878	
123	9.611 4013	169	9.651 0874	203	0.348 9126	9.960 3139	34	877	
		169		204			34		
124	9.611 4182		9.651 1078		0.348 8922	9.960 3105		876	
125	9.611 4352	170	9.651 1281	203	0.348 8719	9.960 3071	34	875	
126	9.611 4521	169	9.651 1484	203	0.348 8516	9.960 3037	34	874	
		169		203			34		
127	9.611 4690		9.651 1687		0.348 8313	9.960 3003		873	
128	9.611 4859	169	9.651 1890	203	0.348 8110	9.960 2969	34	872	
129	9.611 5029	170	9.651 2094	204	0.348 7906	9.960 2935	34	871	
		169		203			34		
.130	9.611 5198		9.651 2297		0.348 7703	9.960 2901		.870	
		169		203			34		
131	9.611 5367		9.651 2500		0.348 7500	9.960 2867		869	
132	9.611 5536	169	9.651 2703	203	0.348 7297	9.960 2833	34	868	
133	9.611 5705	169	9.651 2906	203	0.348 7094	9.960 2799	34	867	
		170		203			34		
134	9.611 5875		9.651 3109		0.348 6891	9.960 2765		866	
135	9.611 6044	169	9.651 3312	203	0.348 6688	9.960 2731	34	865	
136	9.611 6213	169	9.651 3516	204	0.348 6484	9.960 2697	34	864	
		169		203			34		
137	9.611 6382		9.651 3719		0.348 6281	9.960 2663		863	
138	9.611 6551	169	9.651 3922	203	0.348 6078	9.960 2629	34	862	
139	9.611 6720	169	9.651 4125	203	0.348 5875	9.960 2595	34	861	
		169		203			34		
.140	9.611 6889		9.651 4328		0.348 5672	9.960 2561		.860	
		170		203			34		
141	9.611 7059		9.651 4531		0.348 5469	9.960 2527		859	
142	9.611 7228	169	9.651 4734	203	0.348 5266	9.960 2493	34	858	
143	9.611 7397	169	9.651 4937	203	0.348 5063	9.960 2459	34	857	
		169		203			33		
144	9.611 7566		9.651 5140		0.348 4860	9.960 2426		856	
145	9.611 7735	169	9.651 5343	203	0.348 4657	9.960 2392	34	855	
146	9.611 7904	169	9.651 5547	204	0.348 4453	9.960 2358	34	854	
		169		203			34		
147	9.611 8073		9.651 5750		0.348 4250	9.960 2324		853	
148	9.611 8242	169	9.651 5953	203	0.348 4047	9.960 2290	34	852	
149	9.611 8411	169	9.651 6156	203	0.348 3844	9.960 2256	34	851	
		169		203			34		
.150	9.611 8580		9.651 6359		0.348 3641	9.960 2222		.850	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	204	203
1	20.4	20.3
2	40.8	40.6
3	61.2	60.9
4	81.6	81.2
5	102.0	101.5
6	122.4	121.8
7	142.8	142.1
8	163.2	162.4
9	183.6	182.7

	170
1	17.0
2	34.0
3	51.0
4	68.0
5	85.0
6	102.0
7	119.0
8	136.0
9	153.0

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

	33
1	3.3
2	6.6
3	9.9
4	13.2
5	16.5
6	19.8
7	23.1
8	26.4
9	29.7

65°.900 — 65°.850

24°.150 — 24°.200

24°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.611 8580		9.651 6359		0.348 3641	9.960 2222		**.850**	
		169		203			34		
151	9.611 8749		9.651 6562		0.348 3438	9.960 2188		849	
152	9.611 8918	169	9.651 6765	203	0.348 3235	9.960 2154	34	848	
153	9.611 9088	170	9.651 6968	203	0.348 3032	9.960 2120	34	847	
		169		203			34		
154	9.611 9257		9.651 7171		0.348 2829	9.960 2086		846	
155	9.611 9426	169	9.651 7374	203	0.348 2626	9.960 2052	34	845	
156	9.611 9595	169	9.651 7577	203	0.348 2423	9.960 2018	34	844	
		169		203			34		
157	9.611 9764		9.651 7780		0.348 2220	9.960 1984		843	
158	9.611 9933	169	9.651 7983	203	0.348 2017	9.960 1950	34	842	
159	9.612 0102	169	9.651 8186	203	0.348 1814	9.960 1916	34	841	
		169		203			34		
.160	9.612 0271		9.651 8389		0.348 1611	9.960 1882		**.840**	
		169		203			34		
161	9.612 0440		9.651 8592		0.348 1408	9.960 1848		839	
162	9.612 0608	168	9.651 8795	203	0.348 1205	9.960 1814	34	838	
163	9.612 0777	169	9.651 8998	203	0.348 1002	9.960 1780	34	837	
		169		203			34		
164	9.612 0946		9.651 9201		0.348 0799	9.960 1746		836	
165	9.612 1115	169	9.651 9404	203	0.348 0596	9.960 1712	34	835	
166	9.612 1284	169	9.651 9607	203	0.348 0393	9.960 1678	34	834	
		169		203			34		
167	9.612 1453		9.651 9810		0.348 0190	9.960 1644		833	
168	9.612 1622	169	9.652 0012	202	0.347 9988	9.960 1610	34	832	
169	9.612 1791	169	9.652 0215	203	0.347 9785	9.960 1576	34	831	
		169		203			34		
.170	9.612 1960		9.652 0418		0.347 9582	9.960 1542		**.830**	
		169		203			34		
171	9.612 2129		9.652 0621		0.347 9379	9.960 1508		829	
172	9.612 2298	169	9.652 0824	203	0.347 9176	9.960 1474	34	828	
173	9.612 2467	169	9.652 1027	203	0.347 8973	9.960 1440	34	827	
		168		203			35		
174	9.612 2635		9.652 1230		0.347 8770	9.960 1405		826	
175	9.612 2804	169	9.652 1433	203	0.347 8567	9.960 1371	34	825	
176	9.612 2973	169	9.652 1636	203	0.347 8364	9.960 1337	34	824	
		169		203			34		
177	9.612 3142		9.652 1839		0.347 8161	9.960 1303		823	
178	9.612 3311	169	9.652 2041	202	0.347 7959	9.960 1269	34	822	
179	9.612 3480	169	9.652 2244	203	0.347 7756	9.960 1235	34	821	
		168		203			34		
.180	9.612 3648		9.652 2447		0.347 7553	9.960 1201		**.820**	
		169		203			34		
181	9.612 3817		9.652 2650		0.347 7350	9.960 1167		819	
182	9.612 3986	169	9.652 2853	203	0.347 7147	9.960 1133	34	818	
183	9.612 4155	169	9.652 3056	203	0.347 6944	9.960 1099	34	817	
		169		202			34		
184	9.612 4324		9.652 3258		0.347 6742	9.960 1065		816	
185	9.612 4492	168	9.652 3461	203	0.347 6539	9.960 1031	34	815	
186	9.612 4661	169	9.652 3664	203	0.347 6336	9.960 0997	34	814	
		169		203			34		
187	9.612 4830		9.652 3867		0.347 6133	9.960 0963		813	
188	9.612 4999	169	9.652 4070	203	0.347 5930	9.960 0929	34	812	
189	9.612 5167	168	9.652 4273	203	0.347 5727	9.960 0895	34	811	
		169		202			34		
.190	9.612 5336		9.652 4475		0.347 5525	9.960 0861		**.810**	
		169		203			34		
191	9.612 5505		9.652 4678		0.347 5322	9.960 0827		809	
192	9.612 5674	169	9.652 4881	203	0.347 5119	9.960 0793	34	808	
193	9.612 5842	168	9.652 5084	203	0.347 4916	9.960 0759	34	807	
		169		202			34		
194	9.612 6011		9.652 5286		0.347 4714	9.960 0725		806	
195	9.612 6180	169	9.652 5489	203	0.347 4511	9.960 0691	34	805	
196	9.612 6349	169	9.652 5692	203	0.347 4308	9.960 0657	34	804	
		168		203			34		
197	9.612 6517		9.652 5895		0.347 4105	9.960 0623		803	
198	9.612 6686	169	9.652 6097	202	0.347 3903	9.960 0588	35	802	
199	9.612 6855	169	9.652 6300	203	0.347 3700	9.960 0554	34	801	
		168		203			34		
.200	9.612 7023		9.652 6503		0.347 3497	9.960 0520		**.800**	
	cos	d	cotg	d	tang	sin	d	**65°**	P.P.

	203	202
1	20.3	20.2
2	40.6	40.4
3	60.9	60.6
4	81.2	80.8
5	101.5	101.0
6	121.8	121.2
7	142.1	141.4
8	162.4	161.6
9	182.7	181.8

	170	169
1	17.0	16.9
2	34.0	33.8
3	51.0	50.7
4	68.0	67.6
5	85.0	84.5
6	102.0	101.4
7	119.0	118.3
8	136.0	135.2
9	153.0	152.1

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.850 — 65°.800

24°.200 — 24°.250

24°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.612 7023		9.652 6503		0.347 3497	9.960 0520		.800	
		169		203			34		
201	9.612 7192		9.652 6706		0.347 3294	9.960 0486		799	
202	9.612 7361	169	9.652 6908	202	0.347 3092	9.960 0452	34	798	
203	9.612 7529	168	9.652 7111	203	0.347 2889	9.960 0418	34	797	
		169		203			34		
204	9.612 7698		9.652 7314		0.347 2686	9.960 0384		796	
205	9.612 7866	168	9.652 7516	202	0.347 2484	9.960 0350	34	795	
206	9.612 8035	169	9.652 7719	203	0.347 2281	9.960 0316	34	794	
		169		203			34		
207	9.612 8204		9.652 7922		0.347 2078	9.960 0282		793	
208	9.612 8372	168	9.652 8124	202	0.347 1876	9.960 0248	34	792	
209	9.612 8541	169	9.652 8327	203	0.347 1673	9.960 0214	34	791	
		168		203			34		
.210	9.612 8709		9.652 8530		0.347 1470	9.960 0180		.790	
		169		202			34		
211	9.612 8878		9.652 8732		0.347 1268	9.960 0146		789	
212	9.612 9047	169	9.652 8935	203	0.347 1065	9.960 0111	35	788	
213	9.612 9215	168	9.652 9138	203	0.347 0862	9.960 0077	34	787	
		169		202			34		
214	9.612 9384		9.652 9340		0.347 0660	9.960 0043		786	
215	9.612 9552	168	9.652 9543	203	0.347 0457	9.960 0009	34	785	
216	9.612 9721	169	9.652 9746	203	0.347 0254	9.959 9975	34	784	
		168		202			34		
217	9.612 9889		9.652 9948		0.347 0052	9.959 9941		783	
218	9.613 0058	169	9.653 0151	203	0.346 9849	9.959 9907	34	782	
219	9.613 0226	168	9.653 0354	203	0.346 9646	9.959 9873	34	781	
		169		202			34		
.220	9.613 0395		9.653 0556		0.346 9444	9.959 9839		.780	
		168		203			34		
221	9.613 0563		9.653 0759		0.346 9241	9.959 9805		779	
222	9.613 0732	169	9.653 0961	202	0.346 9039	9.959 9771	34	778	
223	9.613 0900	168	9.653 1164	203	0.346 8836	9.959 9736	35	777	
		169		202			34		
224	9.613 1069		9.653 1366		0.346 8634	9.959 9702		776	
225	9.613 1237	168	9.653 1569	203	0.346 8431	9.959 9668	34	775	
226	9.613 1406	169	9.653 1772	203	0.346 8228	9.959 9634	34	774	
		168		202			34		
227	9.613 1574		9.653 1974		0.346 8026	9.959 9600		773	
228	9.613 1743	169	9.653 2177	203	0.346 7823	9.959 9566	34	772	
229	9.613 1911	168	9.653 2379	202	0.346 7621	9.959 9532	34	771	
		168		203			34		
.230	9.613 2079		9.653 2582		0.346 7418	9.959 9498		.770	
		169		202			34		
231	9.613 2248		9.653 2784		0.346 7216	9.959 9464		769	
232	9.613 2416	168	9.653 2987	203	0.346 7013	9.959 9429	35	768	
233	9.613 2585	169	9.653 3189	202	0.346 6811	9.959 9395	34	767	
		168		203			34		
234	9.613 2753		9.653 3392		0.346 6608	9.959 9361		766	
235	9.613 2921	168	9.653 3594	202	0.346 6406	9.959 9327	34	765	
236	9.613 3090	169	9.653 3797	203	0.346 6203	9.959 9293	34	764	
		168		202			34		
237	9.613 3258		9.653 3999		0.346 6001	9.959 9259		763	
238	9.613 3427	169	9.653 4202	203	0.346 5798	9.959 9225	34	762	
239	9.613 3595	168	9.653 4404	202	0.346 5596	9.959 9191	34	761	
		168		203			35		
.240	9.613 3763		9.653 4607		0.346 5393	9.959 9156		.760	
		169		202			34		
241	9.613 3932		9.653 4809		0.346 5191	9.959 9122		759	
242	9.613 4100	168	9.653 5012	203	0.346 4988	9.959 9088	34	758	
243	9.613 4268	168	9.653 5214	202	0.346 4786	9.959 9054	34	757	
		169		203			34		
244	9.613 4437		9.653 5417		0.346 4583	9.959 9020		756	
245	9.613 4605	168	9.653 5619	202	0.346 4381	9.959 8986	34	755	
246	9.613 4773	168	9.653 5822	203	0.346 4178	9.959 8952	34	754	
		169		202			34		
247	9.613 4942		9.653 6024		0.346 3976	9.959 8918		753	
248	9.613 5110	168	9.653 6226	202	0.346 3774	9.959 8883	35	752	
249	9.613 5278	168	9.653 6429	203	0.346 3571	9.959 8849	34	751	
		168		202			34		
.250	9.613 5446		9.653 6631		0.346 3369	9.959 8815		.750	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	203	202
1	20.3	20.2
2	40.6	40.4
3	60.9	60.6
4	81.2	80.8
5	101.5	101.0
6	121.8	121.2
7	142.1	141.4
8	162.4	161.6
9	182.7	181.8

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.800 — 65°.750

24°.250 — 24°.300

24°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.613 5446		9.653 6631		0.346 3369	9.959 8815		.750	
		169		203			34		
251	9.613 5615		9.653 6834		0.346 3166	9.959 8781		749	
252	9.613 5783	168	9.653 7036	202	0.346 2964	9.959 8747	34	748	
253	9.613 5951	168	9.653 7239	203	0.346 2761	9.959 8713	34	747	
		168		202			35		
254	9.613 6119		9.653 7441		0.346 2559	9.959 8678		746	
255	9.613 6288	169	9.653 7643	202	0.346 2357	9.959 8644	34	745	
256	9.613 6456	168	9.653 7846	203	0.346 2154	9.959 8610	34	744	
		168		202			34		
257	9.613 6624		9.653 8048		0.346 1952	9.959 8576		743	
258	9.613 6792	168	9.653 8250	202	0.346 1750	9.959 8542	34	742	
259	9.613 6960	168	9.653 8453	203	0.346 1547	9.959 8508	34	741	
		169		202			34		
.260	9.613 7129		9.653 8655		0.346 1345	9.959 8474		.740	
		168		202			35		
261	9.613 7297		9.653 8857		0.346 1143	9.959 8439		739	
262	9.613 7465	168	9.653 9060	203	0.346 0940	9.959 8405	34	738	
263	9.613 7633	168	9.653 9262	202	0.346 0738	9.959 8371	34	737	
		168		202			34		
264	9.613 7801		9.653 9464		0.346 0536	9.959 8337		736	
265	9.613 7970	169	9.653 9667	203	0.346 0333	9.959 8303	34	735	
266	9.613 8138	168	9.653 9869	202	0.346 0131	9.959 8269	34	734	
		168		202			35		
267	9.613 8306		9.654 0071		0.345 9929	9.959 8234		733	
268	9.613 8474	168	9.654 0274	203	0.345 9726	9.959 8200	34	732	
269	9.613 8642	168	9.654 0476	202	0.345 9524	9.959 8166	34	731	
		168		202			34		
.270	9.613 8810		9.654 0678		0.345 9322	9.959 8132		.730	
		168		203			34		
271	9.613 8978		9.654 0881		0.345 9119	9.959 8098		729	
272	9.613 9146	168	9.654 1083	202	0.345 8917	9.959 8064	34	728	
273	9.613 9314	168	9.654 1285	202	0.345 8715	9.959 8029	35	727	
		169		202			34		
274	9.613 9483		9.654 1487		0.345 8513	9.959 7995		726	
275	9.613 9651	168	9.654 1690	203	0.345 8310	9.959 7961	34	725	
276	9.613 9819	168	9.654 1892	202	0.345 8108	9.959 7927	34	724	
		168		202			34		
277	9.613 9987		9.654 2094		0.345 7906	9.959 7893		723	
278	9.614 0155	168	9.654 2296	202	0.345 7704	9.959 7858	35	722	
279	9.614 0323	168	9.654 2499	203	0.345 7501	9.959 7824	34	721	
		168		202			34		
.280	9.614 0491		9.654 2701		0.345 7299	9.959 7790		.720	
		168		202			34		
281	9.614 0659		9.654 2903		0.345 7097	9.959 7756		719	
282	9.614 0827	168	9.654 3105	202	0.345 6895	9.959 7722	34	718	
283	9.614 0995	168	9.654 3307	202	0.345 6693	9.959 7687	35	717	
		168		203			34		
284	9.614 1163		9.654 3510		0.345 6490	9.959 7653		716	
285	9.614 1331	168	9.654 3712	202	0.345 6288	9.959 7619	34	715	
286	9.614 1499	168	9.654 3914	202	0.345 6086	9.959 7585	34	714	
		168		202			34		
287	9.614 1667		9.654 4116		0.345 5884	9.959 7551		713	
288	9.614 1835	168	9.654 4318	202	0.345 5682	9.959 7516	35	712	
289	9.614 2003	168	9.654 4521	203	0.345 5479	9.959 7482	34	711	
		168		202			34		
.290	9.614 2171		9.654 4723		0.345 5277	9.959 7448		.710	
		168		202			34		
291	9.614 2339		9.654 4925		0.345 5075	9.959 7414		709	
292	9.614 2507	168	9.654 5127	202	0.345 4873	9.959 7380	34	708	
293	9.614 2675	168	9.654 5329	202	0.345 4671	9.959 7345	35	707	
		168		202			34		
294	9.614 2843		9.654 5531		0.345 4469	9.959 7311		706	
295	9.614 3010	167	9.654 5733	202	0.345 4267	9.959 7277	34	705	
296	9.614 3178	168	9.654 5936	203	0.345 4064	9.959 7243	34	704	
		168		202			34		
297	9.614 3346		9.654 6138		0.345 3862	9.959 7209		703	
298	9.614 3514	168	9.654 6340	202	0.345 3660	9.959 7174	35	702	
299	9.614 3682	168	9.654 6542	202	0.345 3458	9.959 7140	34	701	
		168		202			34		
.300	9.614 3850		9.654 6744		0.345 3256	9.959 7106		.700	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	203	202
1	20.3	20.2
2	40.6	40.4
3	60.9	60.6
4	81.2	80.8
5	101.5	101.0
6	121.8	121.2
7	142.1	141.4
8	162.4	161.6
9	182.7	181.8

	169	168
1	16.9	16.8
2	33.8	33.6
3	50.7	50.4
4	67.6	67.2
5	84.5	84.0
6	101.4	100.8
7	118.3	117.6
8	135.2	134.4
9	152.1	151.2

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.750 — 65°.700

24°.300 — 24°.350

24°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.614 3850		9.654 6744		0.345 3256	9.959 7106		.700	
		168		202			34		
301	9.614 4018		9.654 6946		0.345 3054	9.959 7072		699	
302	9.614 4186	168	9.654 7148	202	0.345 2852	9.959 7037	35	698	
303	9.614 4354	168	9.654 7350	202	0.345 2650	9.959 7003	34	697	
		167		202			34		
304	9.614 4521		9.654 7552		0.345 2448	9.959 6969		696	
305	9.614 4689	168	9.654 7754	202	0.345 2246	9.959 6935	34	695	
306	9.614 4857	168	9.654 7957	203	0.345 2043	9.959 6900	35	694	
		168		202			34		
307	9.614 5025		9.654 8159		0.345 1841	9.959 6866		693	
308	9.614 5193	168	9.654 8361	202	0.345 1639	9.959 6832	34	692	
309	9.614 5360	167	9.654 8563	202	0.345 1437	9.959 6798	34	691	
		168		202			34		
.310	9.614 5528		9.654 8765		0.345 1235	9.959 6764		.690	
		168		202			35		
311	9.614 5696		9.654 8967		0.345 1033	9.959 6729		689	
312	9.614 5864	168	9.654 9169	202	0.345 0831	9.959 6695	34	688	
313	9.614 6032	168	9.654 9371	202	0.345 0629	9.959 6661	34	687	
		167		202			34		
314	9.614 6199		9.654 9573		0.345 0427	9.959 6627		686	
315	9.614 6367	168	9.654 9775	202	0.345 0225	9.959 6592	35	685	
316	9.614 6535	168	9.654 9977	202	0.345 0023	9.959 6558	34	684	
		168		202			34		
317	9.614 6703		9.655 0179		0.344 9821	9.959 6524		683	
318	9.614 6870	167	9.655 0381	202	0.344 9619	9.959 6490	34	682	
319	9.614 7038	168	9.655 0583	202	0.344 9417	9.959 6455	35	681	
		168		202			34		
.320	9.614 7206		9.655 0785		0.344 9215	9.959 6421		.680	
		168		202			34		
321	9.614 7374		9.655 0987		0.344 9013	9.959 6387		679	
322	9.614 7541	167	9.655 1189	202	0.344 8811	9.959 6353	34	678	
323	9.614 7709	168	9.655 1391	202	0.344 8609	9.959 6318	35	677	
		168		202			34		
324	9.614 7877		9.655 1593		0.344 8407	9.959 6284		676	
325	9.614 8044	167	9.655 1795	202	0.344 8205	9.959 6250	34	675	
326	9.614 8212	168	9.655 1997	202	0.344 8003	9.959 6215	35	674	
		168		202			34		
327	9.614 8380		9.655 2199		0.344 7801	9.959 6181		673	
328	9.614 8547	167	9.655 2400	201	0.344 7600	9.959 6147	34	672	
329	9.614 8715	168	9.655 2602	202	0.344 7398	9.959 6113	34	671	
		168		202			35		
.330	9.614 8883		9.655 2804		0.344 7196	9.959 6078		.670	
		167		202			34		
331	9.614 9050		9.655 3006		0.344 6994	9.959 6044		669	
332	9.614 9218	168	9.655 3208	202	0.344 6792	9.959 6010	34	668	
333	9.614 9386	168	9.655 3410	202	0.344 6590	9.959 5976	34	667	
		167		202			35		
334	9.614 9553		9.655 3612		0.344 6388	9.959 5941		666	
335	9.614 9721	168	9.655 3814	202	0.344 6186	9.959 5907	34	665	
336	9.614 9888	167	9.655 4016	202	0.344 5984	9.959 5873	34	664	
		168		202			35		
337	9.615 0056		9.655 4218		0.344 5782	9.959 5838		663	
338	9.615 0224	168	9.655 4419	201	0.344 5581	9.959 5804	34	662	
339	9.615 0391	167	9.655 4621	202	0.344 5379	9.959 5770	34	661	
		168		202			34		
.340	9.615 0559		9.655 4823		0.344 5177	9.959 5736		.660	
		167		202			35		
341	9.615 0726		9.655 5025		0.344 4975	9.959 5701		659	
342	9.615 0894	168	9.655 5227	202	0.344 4773	9.959 5667	34	658	
343	9.615 1061	167	9.655 5429	202	0.344 4571	9.959 5633	34	657	
		168		201			35		
344	9.615 1229		9.655 5630		0.344 4370	9.959 5598		656	
345	9.615 1396	167	9.655 5832	202	0.344 4168	9.959 5564	34	655	
346	9.615 1564	168	9.655 6034	202	0.344 3966	9.959 5530	34	654	
		167		202			34		
347	9.615 1731		9.655 6236		0.344 3764	9.959 5496		653	
348	9.615 1899	168	9.655 6438	202	0.344 3562	9.959 5461	35	652	
349	9.615 2066	167	9.655 6640	202	0.344 3360	9.959 5427	34	651	
		168		201			34		
.350	9.615 2234		9.655 6841		0.344 3159	9.959 5393		.650	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	203	202
1	20.3	20.2
2	40.6	40.4
3	60.9	60.6
4	81.2	80.8
5	101.5	101.0
6	121.8	121.2
7	142.1	141.4
8	162.4	161.6
9	182.7	181.8

	201
1	20.1
2	40.2
3	60.3
4	80.4
5	100.5
6	120.6
7	140.7
8	160.8
9	180.9

	168	167
1	16.8	16.7
2	33.6	33.4
3	50.4	50.1
4	67.2	66.8
5	84.0	83.5
6	100.8	100.2
7	117.6	116.9
8	134.4	133.6
9	151.2	150.3

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.700 — 65°.650

24°.350 — 24°.400

24°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.615 2234		9.655 6841		0.344 3159	9.959 5393		.650	
		167		202			35		
351	9.615 2401		9.655 7043		0.344 2957	9.959 5358		649	
352	9.615 2569	168	9.655 7245	202	0.344 2755	9.959 5324	34	648	
353	9.615 2736	167	9.655 7447	202	0.344 2553	9.959 5290	34	647	
		168		201			35		
354	9.615 2904		9.655 7648		0.344 2352	9.959 5255		646	
355	9.615 3071	167	9.655 7850	202	0.344 2150	9.959 5221	34	645	
356	9.615 3239	168	9.655 8052	202	0.344 1948	9.959 5187	34	644	
		167		202			35		
357	9.615 3406		9.655 8254		0.344 1746	9.959 5152		643	
358	9.615 3574	168	9.655 8455	201	0.344 1545	9.959 5118	34	642	
359	9.615 3741	167	9.655 8657	202	0.344 1343	9.959 5084	34	641	
		167		202			34		
.360	9.615 3908		9.655 8859		0.344 1141	9.959 5050		.640	
		168		202			35		
361	9.615 4076		9.655 9061		0.344 0939	9.959 5015		639	
362	9.615 4243	167	9.655 9262	201	0.344 0738	9.959 4981	34	638	
363	9.615 4411	168	9.655 9464	202	0.344 0536	9.959 4947	34	637	
		167		202			35		
364	9.615 4578		9.655 9666		0.344 0334	9.959 4912		636	
365	9.615 4745	167	9.655 9867	201	0.344 0133	9.959 4878	34	635	
366	9.615 4913	168	9.656 0069	202	0.343 9931	9.959 4844	34	634	
		167		202			35		
367	9.615 5080		9.656 0271		0.343 9729	9.959 4809		633	
368	9.615 5247	167	9.656 0473	202	0.343 9527	9.959 4775	34	632	
369	9.615 5415	168	9.656 0674	201	0.343 9326	9.959 4741	34	631	
		167		202			35		
.370	9.615 5582		9.656 0876		0.343 9124	9.959 4706		.630	
		167		202			34		
371	9.615 5749		9.656 1078		0.343 8922	9.959 4672		629	
372	9.615 5917	168	9.656 1279	201	0.343 8721	9.959 4638	34	628	
373	9.615 6084	167	9.656 1481	202	0.343 8519	9.959 4603	35	627	
		167		201			34		
374	9.615 6251		9.656 1682		0.343 8318	9.959 4569		626	
375	9.615 6419	168	9.656 1884	202	0.343 8116	9.959 4535	34	625	
376	9.615 6586	167	9.656 2086	202	0.343 7914	9.959 4500	35	624	
		167		201			34		
377	9.615 6753		9.656 2287		0.343 7713	9.959 44466		623	
378	9.615 6921	168	9.656 2489	202	0.343 7511	9.959 4432	34	622	
379	9.615 7088	167	9.656 2691	202	0.343 7309	9.959 4397	35	621	
		167		201			34		
.380	9.615 7255		9.656 2892		0.343 7108	9.959 4363		.620	
		167		202			35		
381	9.615 7422		9.656 3094		0.343 6906	9.959 4328		619	
382	9.615 7590	168	9.656 3295	201	0.343 6705	9.959 4294	34	618	
383	9.615 7757	167	9.656 3497	202	0.343 6503	9.959 4260	34	617	
		167		202			35		
384	9.615 7924		9.656 3699		0.343 6301	9.959 4225		616	
385	9.615 8091	167	9.656 3900	201	0.343 6100	9.959 4191	34	615	
386	9.615 8258	167	9.656 4102	202	0.343 5898	9.959 4157	34	614	
		168		201			35		
387	9.615 8426		9.656 4303		0.343 5697	9.959 4122		613	
388	9.615 8593	167	9.656 4505	202	0.343 5495	9.959 4088	34	612	
389	9.615 8760	167	9.656 4706	201	0.343 5294	9.959 4054	34	611	
		167		202			35		
.390	9.615 8927		9.656 4908		0.343 5092	9.959 4019		.610	
		167		201			34		
391	9.615 9094		9.656 5109		0.343 4891	9.959 3985		609	
392	9.615 9261	167	9.656 5311	202	0.343 4689	9.959 3950	35	608	
393	9.615 9429	168	9.656 5513	202	0.343 4487	9.959 3916	34	607	
		167		201			34		
394	9.615 9596		9.656 5714		0.343 4286	9.959 3882		606	
395	9.615 9763	167	9.656 5916	202	0.343 4084	9.959 3847	35	605	
396	9.615 9930	167	9.656 6117	201	0.343 3883	9.959 3813	34	604	
		167		202			34		
397	9.616 0097		9.656 6319		0.343 3681	9.959 3779		603	
398	9.616 0264	167	9.656 6520	201	0.343 3480	9.959 3744	35	602	
399	9.616 0431	167	9.656 6722	202	0.343 3278	9.959 3710	34	601	
		168		201			35		
.400	9.616 0599		9.656 6923		0.343 3077	9.959 3675		.600	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	202	201
1	20.2	20.1
2	40.4	40.2
3	60.6	60.3
4	80.8	80.4
5	101.0	100.5
6	121.2	120.6
7	141.4	140.7
8	161.6	160.8
9	181.8	180.9

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.650 — 65°.600

24°.400 — 24°.450

24°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.616 0599		9.656 6923		0.343 3077	9.959 3675		.600	
		167		202			34		
401	9.616 0766		9.656 7125		0.343 2875	9.959 3641		599	
402	9.616 0933	167	9.656 7326	201	0.343 2674	9.959 3607	34	598	
403	9.616 1100	167	9.656 7527	201	0.343 2473	9.959 3572	35	597	
		167		202			34		
404	9.616 1267		9.656 7729		0.343 2271	9.959 3538		596	
405	9.616 1434	167	9.656 7930	201	0.343 2070	9.959 3504	34	595	
406	9.616 1601	167	9.656 8132	202	0.343 1868	9.959 3469	35	594	
		167		201			34		
407	9.616 1768		9.656 8333		0.343 1667	9.959 3435		593	
408	9.616 1935	167	9.656 8535	202	0.343 1465	9.959 3400	35	592	
409	9.616 2102	167	9.656 8736	201	0.343 1264	9.959 3366	34	591	
		167		202			34		
.410	9.616 2269		9.656 8938		0.343 1062	9.959 3332		.590	
		167		201			35		
411	9.616 2436		9.656 9139		0.343 0861	9.959 3297		589	
412	9.616 2603	167	9.656 9340	201	0.343 0660	9.959 3263	34	588	
413	9.616 2770	167	9.656 9542	202	0.343 0458	9.959 3228	35	587	
		167		201			34		
414	9.616 2937		9.656 9743		0.343 0257	9.959 3194		586	
415	9.616 3104	167	9.656 9945	202	0.343 0055	9.959 3160	34	585	
416	9.616 3271	167	9.657 0146	201	0.342 9854	9.959 3125	35	584	
		167		201			34		
417	9.616 3438		9.657 0347		0.342 9653	9.959 3091		583	
418	9.616 3605	167	9.657 0549	202	0.342 9451	9.959 3056	35	582	
419	9.616 3772	167	9.657 0750	201	0.342 9250	9.959 3022	34	581	
		167		201			35		
.420	9.616 3939		9.657 0951		0.342 9049	9.959 2987		.580	
		167		202			34		
421	9.616 4106		9.657 1153		0.342 8847	9.959 2953		579	
422	9.616 4273	167	9.657 1354	201	0.342 8646	9.959 2919	34	578	
423	9.616 4440	167	9.657 1556	202	0.342 8444	9.959 2884	35	577	
		167		201			34		
424	9.616 4607		9.657 1757		0.342 8243	9.959 2850		576	
425	9.616 4774	167	9.657 1958	201	0.342 8042	9.959 2815	35	575	
426	9.616 4940	166	9.657 2160	202	0.342 7840	9.959 2781	34	574	
		167		201			34		
427	9.616 5107		9.657 2361		0.342 7639	9.959 2747		573	
428	9.616 5274	167	9.657 2562	201	0.342 7438	9.959 2712	35	572	
429	9.616 5441	167	9.657 2763	201	0.342 7237	9.959 2678	34	571	
		167		202			35		
.430	9.616 5608		9.657 2965		0.342 7035	9.959 2643		.570	
		167		201			34		
431	9.616 5775		9.657 3166		0.342 6834	9.959 2609		569	
432	9.616 5942	167	9.657 3367	201	0.342 6633	9.959 2574	35	568	
433	9.616 6109	167	9.657 3569	202	0.342 6431	9.959 2540	34	567	
		166		201			35		
434	9.616 6275		9.657 3770		0.342 6230	9.959 2505		566	
435	9.616 6442	167	9.657 3971	201	0.342 6029	9.959 2471	34	565	
436	9.616 6609	167	9.657 4172	201	0.342 5828	9.959 2437	34	564	
		167		202			35		
437	9.616 6776		9.657 4374		0.342 5626	9.959 2402		563	
438	9.616 6943	167	9.657 4575	201	0.342 5425	9.959 2368	34	562	
439	9.616 7109	166	9.657 4776	201	0.342 5224	9.959 2333	35	561	
		167		201			34		
.440	9.616 7276		9.657 4977		0.342 5023	9.959 2299		.560	
		167		202			35		
441	9.616 7443		9.657 5179		0.342 4821	9.959 2264		559	
442	9.616 7610	167	9.657 5380	201	0.342 4620	9.959 2230	34	558	
443	9.616 7777	166	9.657 5581	201	0.342 4419	9.959 2195	35	557	
		167		201			34		
444	9.616 7943		9.657 5782		0.342 4218	9.959 2161		556	
445	9.616 8110	167	9.657 5983	201	0.342 4017	9.959 2127	34	555	
446	9.616 8277	167	9.657 6185	202	0.342 3815	9.959 2092	35	554	
		167		201			34		
447	9.616 8444		9.657 6386		0.342 3614	9.959 2058		553	
448	9.616 8610	166	9.657 6587	201	0.342 3413	9.959 2023	35	552	
449	9.616 8777	167	9.657 6788	201	0.342 3212	9.959 1989	34	551	
		167		201			35		
.450	9.616 8944		9.657 6989		0.342 3011	9.959 1954		.550	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	202	201
1	20.2	20.1
2	40.4	40.2
3	60.6	60.3
4	80.8	80.4
5	101.0	100.5
6	121.2	120.6
7	141.4	140.7
8	161.6	160.8
9	181.8	180.9

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.600 — 65°.550

$24^\circ.450 - 24^\circ.500$

24°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.616 8944		9.657 6989		0.342 3011	9.959 1954		.550	
		166		202			34		
451	9.616 9110		9.657 7191		0.342 2809	9.959 1920		549	
452	9.616 9277	167	9.657 7392	201	0.342 2608	9.959 1885	35	548	
453	9.616 9444	167	9.657 7593	201	0.342 2407	9.959 1851	34	547	
		166		201			35		
454	9.616 9610		9.657 7794		0.342 2206	9.959 1816		546	
455	9.616 9777	167	9.657 7995	201	0.342 2005	9.959 1782	34	545	
456	9.616 9944	167	9.657 8196	201	0.342 1804	9.959 1747	35	544	
		166		202			34		
457	9.617 0110		9.657 8398		0.342 1602	9.959 1713		543	
458	9.617 0277	167	9.657 8599	201	0.342 1401	9.959 1679	34	542	
459	9.617 0444	167	9.657 8800	201	0.342 1200	9.959 1644	35	541	
		166		201			34		
.460	9.617 0610		9.657 9001		0.342 0999	9.959 1610		.540	
		167		201			35		
461	9.617 0777		9.657 9202		0.342 0798	9.959 1575		539	
462	9.617 0944	167	9.657 9403	201	0.342 0597	9.959 1541	34	538	
463	9.617 1110	166	9.657 9604	201	0.342 0396	9.959 1506	35	537	
		167		201			34		
464	9.617 1277		9.657 9805		0.342 0195	9.959 1472		536	
465	9.617 1443	166	9.658 0006	201	0.341 9994	9.959 1437	35	535	
466	9.617 1610	167	9.658 0207	201	0.341 9793	9.959 1403	34	534	
		167		202			35		
467	9.617 1777		9.658 0409		0.341 9591	9.959 1368		533	
468	9.617 1943	166	9.658 0610	201	0.341 9390	9.959 1334	34	532	
469	9.617 2110	167	9.658 0811	201	0.341 9189	9.959 1299	35	531	
		166		201			34		
.470	9.617 2276		9.658 1012		0.341 8988	9.959 1265		.530	
		167		201			35		
471	9.617 2443		9.658 1213		0.341 8787	9.959 1230		529	
472	9.617 2609	166	9.658 1414	201	0.341 8586	9.959 1196	34	528	
473	9.617 2776	167	9.658 1615	201	0.341 8385	9.959 1161	35	527	
		167		201			34		
474	9.617 2943		9.658 1816		0.341 8184	9.959 1127		526	
475	9.617 3109	166	9.658 2017	201	0.341 7983	9.959 1092	35	525	
476	9.617 3276	167	9.658 2218	201	0.341 7782	9.959 1058	34	524	
		166		201			35		
477	9.617 3442		9.658 2419		0.341 7581	9.959 1023		523	
478	9.617 3609	167	9.658 2620	201	0.341 7380	9.959 0989	34	522	
479	9.617 3775	166	9.658 2821	201	0.341 7179	9.959 0954	35	521	
		167		201			34		
.480	9.617 3942		9.658 3022		0.341 6978	9.959 0920		.520	
		166		201			35		
481	9.617 4108		9.658 3223		0.341 6777	9.959 0885		519	
482	9.617 4274	166	9.658 3424	201	0.341 6576	9.959 0851	34	518	
483	9.617 4441	167	9.658 3625	201	0.341 6375	9.959 0816	35	517	
		166		201			34		
484	9.617 4607		9.658 3826		0.341 6174	9.959 0782		516	
485	9.617 4774	167	9.658 4027	201	0.341 5973	9.959 0747	35	515	
486	9.617 4940	166	9.658 4228	201	0.341 5772	9.959 0713	34	514	
		167		201			35		
487	9.617 5107		9.658 4429		0.341 5571	9.959 0678		513	
488	9.617 5273	166	9.658 4630	201	0.341 5370	9.959 0643	35	512	
489	9.617 5440	167	9.658 4831	201	0.341 5169	9.959 0609	34	511	
		166		201			35		
.490	9.617 5606		9.658 5032		0.341 4968	9.959 0574		.510	
		166		200			34		
491	9.617 5772		9.658 5232		0.341 4768	9.959 0540		509	
492	9.617 5939	167	9.658 5433	201	0.341 4567	9.959 0505	35	508	
493	9.617 6105	166	9.658 5634	201	0.341 4366	9.959 0471	34	507	
		166		201			35		
494	9.617 6271		9.658 5835		0.341 4165	9.959 0436		506	
495	9.617 6438	167	9.658 6036	201	0.341 3964	9.959 0402	34	505	
496	9.617 6604	166	9.658 6237	201	0.341 3763	9.959 0367	35	504	
		167		201			34		
497	9.617 6771		9.658 6438		0.341 3562	9.959 0333		503	
498	9.617 6937	166	9.658 6639	201	0.341 3361	9.959 0298	35	502	
499	9.617 7103	166	9.658 6840	201	0.341 3160	9.959 0264	34	501	
		167		201			35		
.500	9.617 7270		9.658 7041		0.341 2959	9.959 0229		.500	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	202	201
1	20.2	20.1
2	40.4	40.2
3	60.6	60.3
4	80.8	80.4
5	101.0	100.5
6	121.2	120.6
7	141.4	140.7
8	161.6	160.8
9	181.8	180.9

	200
1	20.0
2	40.0
3	60.0
4	80.0
5	100.0
6	120.0
7	140.0
8	160.0
9	180.0

	167	166
1	16.7	16.6
2	33.4	33.2
3	50.1	49.8
4	66.8	66.4
5	83.5	83.0
6	100.2	99.6
7	116.9	116.2
8	133.6	132.8
9	150.3	149.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

$65^\circ.550 - 65^\circ.500$

24°.500 — 24°.550

24°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.617 7270		9.658 7041		0.341 2959	9.959 0229		.500	
		166		200			34		
501	9.617 7436		9.658 7241		0.341 2759	9.959 0195		499	
502	9.617 7602	166	9.658 7442	201	0.341 2558	9.959 0160	35	498	
503	9.617 7769	167	9.658 7643	201	0.341 2357	9.959 0125	35	497	
		166		201			34		
504	9.617 7935		9.658 7844		0.341 2156	9.959 0091		496	
505	9.617 8101	166	9.658 8045	201	0.341 1955	9.959 0056	35	495	
506	9.617 8267	166	9.658 8246	201	0.341 1754	9.959 0022	34	494	
		167		200			35		
507	9.617 8434		9.658 8446		0.341 1554	9.958 9987		493	
508	9.617 8600	166	9.658 8647	201	0.341 1353	9.958 9953	34	492	
509	9.617 8766	166	9.658 8848	201	0.341 1152	9.958 9918	35	491	
		166		201			34		
.510	9.617 8932		9.658 9049		0.341 0951	9.958 9884		.490	
		167		201			35		
511	9.617 9099		9.658 9250		0.341 0750	9.958 9849		489	
512	9.617 9265	166	9.658 9450	200	0.341 0550	9.958 9814	35	488	
513	9.617 9431	166	9.658 9651	201	0.341 0349	9.958 9780	34	487	
		166		201			35		
514	9.617 9597		9.658 9852		0.341 0148	9.958 9745		486	
515	9.617 9764	167	9.659 0053	201	0.340 9947	9.958 9711	34	485	
516	9.617 9930	166	9.659 0254	201	0.340 9746	9.958 9676	35	484	
		166		200			34		
517	9.618 0096		9.659 0454		0.340 9546	9.958 9642		483	
518	9.618 0262	166	9.659 0655	201	0.340 9345	9.958 9607	35	482	
519	9.618 0428	166	9.659 0856	201	0.340 9144	9.958 9572	35	481	
		167		201			34		
.520	9.618 0595		9.659 1057		0.340 8943	9.958 9538		.480	
		166		200			35		
521	9.618 0761		9.659 1257		0.340 8743	9.958 9503		479	
522	9.618 0927	166	9.659 1458	201	0.340 8542	9.958 9469	34	478	
523	9.618 1093	166	9.659 1659	201	0.340 8341	9.958 9434	35	477	
		166		201			34		
524	9.618 1259		9.659 1860		0.340 8140	9.958 9400		476	
525	9.618 1425	166	9.659 2060	200	0.340 7940	9.958 9365	35	475	
526	9.618 1591	166	9.659 2261	201	0.340 7739	9.958 9330	35	474	
		167		201			34		
527	9.618 1758		9.659 2462		0.340 7538	9.958 9296		473	
528	9.618 1924	166	9.659 2662	200	0.340 7338	9.958 9261	35	472	
529	9.618 2090	166	9.659 2863	201	0.340 7137	9.958 9227	34	471	
		166		201			35		
.530	9.618 2256		9.659 3064		0.340 6936	9.958 9192		.470	
		166		200			35		
531	9.618 2422		9.659 3264		0.340 6736	9.958 9157		469	
532	9.618 2588	166	9.659 3465	201	0.340 6535	9.958 9123	34	468	
533	9.618 2754	166	9.659 3666	201	0.340 6334	9.958 9088	35	467	
		166		201			34		
534	9.618 2920		9.659 3867		0.340 6133	9.958 9054		466	
535	9.618 3086	166	9.659 4067	200	0.340 5933	9.958 9019	35	465	
536	9.618 3252	166	9.659 4268	201	0.340 5732	9.958 8984	35	464	
		166		200			34		
537	9.618 3418		9.659 4468		0.340 5532	9.958 8950		463	
538	9.618 3584	166	9.659 4669	201	0.340 5331	9.958 8915	35	462	
539	9.618 3750	166	9.659 4870	201	0.340 5130	9.958 8881	34	461	
		166		200			35		
.540	9.618 3916		9.659 5070		0.340 4930	9.958 8846		.460	
		166		201			35		
541	9.618 4082		9.659 5271		0.340 4729	9.958 8811		459	
542	9.618 4248	166	9.659 5472	201	0.340 4528	9.958 8777	34	458	
543	9.618 4414	166	9.659 5672	200	0.340 4328	9.958 8742	35	457	
		166		201			34		
544	9.618 4580		9.659 5873		0.340 4127	9.958 8708		456	
545	9.618 4746	166	9.659 6073	200	0.340 3927	9.958 8673	35	455	
546	9.618 4912	166	9.659 6274	201	0.340 3726	9.958 8638	35	454	
		166		201			34		
547	9.618 5078		9.659 6475		0.340 3525	9.958 8604		453	
548	9.618 5244	166	9.659 6675	200	0.340 3325	9.958 8569	35	452	
549	9.618 5410	166	9.659 6876	201	0.340 3124	9.958 8535	34	451	
		166		200			35		
.550	9.618 5576		9.659 7076		0.340 2924	9.958 8500		.450	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	201	200
1	20.1	20.0
2	40.2	40.0
3	60.3	60.0
4	80.4	80.0
5	100.5	100.0
6	120.6	120.0
7	140.7	140.0
8	160.8	160.0
9	180.9	180.0

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.500 — 65°.450

$24^\circ.550 - 24^\circ.600$

24°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.618 5576		9.659 7076		0.340 2924	9.958 8500		.450	
		166		201			35		
551	9.618 5742		9.659 7277		0.340 2723	9.958 8465		449	
552	9.618 5908	166	9.659 7477	200	0.340 2523	9.958 8431	34	448	
553	9.618 6074	166	9.659 7678	201	0.340 2322	9.958 8396	35	447	
		166		201			35		
554	9.618 6240		9.659 7879		0.340 2121	9.958 8361		446	
555	9.618 6406	166	9.659 8079	200	0.340 1921	9.958 8327	34	445	
556	9.618 6572	166	9.659 8280	201	0.340 1720	9.958 8292	35	444	
		166		200			34		
557	9.618 6738		9.659 8480		0.340 1520	9.958 8258		443	
558	9.618 6904	166	9.659 8681	201	0.340 1319	9.958 8223	35	442	
559	9.618 7069	165	9.659 8881	200	0.340 1119	9.958 8188	35	441	
		166		201			34		
.560	9.618 7235		9.659 9082		0.340 0918	9.958 8154		.440	
		166		200			35		
561	9.618 7401		9.659 9282		0.340 0718	9.958 8119		439	
562	9.618 7567	166	9.659 9483	201	0.340 0517	9.958 8084	35	438	
563	9.618 7733	166	9.659 9683	200	0.340 0317	9.958 8050	34	437	
		166		201			35		
564	9.618 7899		9.659 9884		0.340 0116	9.958 8015		436	
565	9.618 8064	165	9.660 0084	200	0.339 9916	9.958 7980	35	435	
566	9.618 8230	166	9.660 0285	201	0.339 9715	9.958 7946	34	434	
		166		200			35		
567	9.618 8396		9.660 0485		0.339 9515	9.958 7911		433	
568	9.618 8562	166	9.660 0685	200	0.339 9315	9.958 7876	35	432	
569	9.618 8728	166	9.660 0886	201	0.339 9114	9.958 7842	34	431	
		166		200			35		
.570	9.618 8894		9.660 1086		0.339 8914	9.958 7807		.430	
		165		201			35		
571	9.618 9059		9.660 1287		0.339 8713	9.958 7772		429	
572	9.618 9225	166	9.660 1487	200	0.339 8513	9.958 7738	34	428	
573	9.618 9391	166	9.660 1688	201	0.339 8312	9.958 7703	35	427	
		166		200			35		
574	9.618 9557		9.660 1888		0.339 8112	9.958 7668		426	
575	9.618 9722	165	9.660 2089	201	0.339 7911	9.958 7634	34	425	
576	9.618 9888	166	9.660 2289	200	0.339 7711	9.958 7599	35	424	
		166		200			34		
577	9.619 0054		9.660 2489		0.339 7511	9.958 7565		423	
578	9.619 0220	166	9.660 2690	201	0.339 7310	9.958 7530	35	422	
579	9.619 0385	165	9.660 2890	200	0.339 7110	9.958 7495	35	421	
		166		201			35		
.580	9.619 0551		9.660 3091		0.339 6909	9.958 7460		.420	
		166		200			34		
581	9.619 0717		9.660 3291		0.339 6709	9.958 7426		419	
582	9.619 0882	165	9.660 3491	200	0.339 6509	9.958 7391	35	418	
583	9.619 1048	166	9.660 3692	201	0.339 6308	9.958 7356	35	417	
		166		200			34		
584	9.619 1214		9.660 3892		0.339 6108	9.958 7322		416	
585	9.619 1379	165	9.660 4092	200	0.339 5908	9.958 7287	35	415	
586	9.619 1545	166	9.660 4293	201	0.339 5707	9.958 7252	35	414	
		166		200			34		
587	9.619 1711		9.660 4493		0.339 5507	9.958 7218		413	
588	9.619 1876	165	9.660 4693	200	0.339 5307	9.958 7183	35	412	
589	9.619 2042	166	9.660 4894	201	0.339 5106	9.958 7148	35	411	
		166		200			34		
.590	9.619 2208		9.660 5094		0.339 4906	9.958 7114		.410	
		165		200			35		
591	9.619 2373		9.660 5294		0.339 4706	9.958 7079		409	
592	9.619 2539	166	9.660 5495	201	0.339 4505	9.958 7044	35	408	
593	9.619 2705	166	9.660 5695	200	0.339 4305	9.958 7010	34	407	
		165		200			35		
594	9.619 2870		9.660 5895		0.339 4105	9.958 6975		406	
595	9.619 3036	166	9.660 6096	201	0.339 3904	9.958 6940	35	405	
596	9.619 3201	165	9.660 6296	200	0.339 3704	9.958 6906	34	404	
		166		200			35		
597	9.619 3367		9.660 6496		0.339 3504	9.958 6871		403	
598	9.619 3533	166	9.660 6696	200	0.339 3304	9.958 6836	35	402	
599	9.619 3698	165	9.660 6897	201	0.339 3103	9.958 6801	35	401	
		166		200			34		
.600	9.619 3864		9.660 7097		0.339 2903	9.958 6767		.400	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	201	200
1	20.1	20.0
2	40.2	40.0
3	60.3	60.0
4	80.4	80.0
5	100.5	100.0
6	120.6	120.0
7	140.7	140.0
8	160.8	160.0
9	180.9	180.0

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

$65^\circ.450 - 65^\circ.400$

24°.600 — 24°.650

24°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.619 3864		9.660 7097		0.339 2903	9.958 6767		**.400**	
		165		200			35		
601	9.619 4029		9.660 7297		0.339 2703	9.958 6732		399	
602	9.619 4195	166	9.660 7497	200	0.339 2503	9.958 6697	35	398	
603	9.619 4360	165	9.660 7698	201	0.339 2302	9.958 6663	34	397	
		166		200			35		
604	9.619 4526		9.660 7898		0.339 2102	9.958 6628		396	
605	9.619 4691	165	9.660 8098	200	0.339 1902	9.958 6593	35	395	
606	9.619 4857	166	9.660 8298	200	0.339 1702	9.958 6558	35	394	
		165		201			34		
607	9.619 5022		9.660 8499		0.339 1501	9.958 6524		393	
608	9.619 5188	166	9.660 8699	200	0.339 1301	9.958 6489	35	392	
609	9.619 5353	165	9.660 8899	200	0.339 1101	9.958 6454	35	391	
		166		200			34		
.610	9.619 5519		9.660 9099		0.339 0901	9.958 6420		**.390**	
		165		200			35		
611	9.619 5684		9.660 9299		0.339 0701	9.958 6385		389	
612	9.619 5850	166	9.660 9500	201	0.339 0500	9.958 6350	35	388	
613	9.619 6015	165	9.660 9700	200	0.339 0300	9.958 6315	35	387	
		166		200			34		
614	9.619 6181		9.660 9900		0.339 0100	9.958 6281		386	
615	9.619 6346	165	9.661 0100	200	0.338 9900	9.958 6246	35	385	
616	9.619 6512	166	9.661 0300	200	0.338 9700	9.958 6211	35	384	
		165		201			34		
617	9.619 6677		9.661 0501		0.338 9499	9.958 6177		383	
618	9.619 6843	166	9.661 0701	200	0.338 9299	9.958 6142	35	382	
619	9.619 7008	165	9.661 0901	200	0.338 9099	9.958 6107	35	381	
		165		200			35		
.620	9.619 7173		9.661 1101		0.338 8899	9.958 6072		**.380**	
		166		200			34		
621	9.619 7339		9.661 1301		0.338 8699	9.958 6038		379	
622	9.619 7504	165	9.661 1501	200	0.338 8499	9.958 6003	35	378	
623	9.619 7670	166	9.661 1701	200	0.338 8299	9.958 5968	35	377	
		165		201			35		
624	9.619 7835		9.661 1902		0.338 8098	9.958 5933		376	
625	9.619 8000	165	9.661 2102	200	0.338 7898	9.958 5899	34	375	
626	9.619 8166	166	9.661 2302	200	0.338 7698	9.958 5864	35	374	
		165		200			35		
627	9.619 8331		9.661 2502		0.338 7498	9.958 5829		373	
628	9.619 8496	165	9.661 2702	200	0.338 7298	9.958 5794	35	372	
629	9.619 8662	166	9.661 2902	200	0.338 7098	9.958 5760	34	371	
		165		200			35		
.630	9.619 8827		9.661 3102		0.338 6898	9.958 5725		**.370**	
		165		200			35		
631	9.619 8992		9.661 3302		0.338 6698	9.958 5690		369	
632	9.619 9158	166	9.661 3502	200	0.338 6498	9.958 5655	35	368	
633	9.619 9323	165	9.661 3702	200	0.338 6298	9.958 5621	34	367	
		165		200			35		
634	9.619 9488		9.661 3902		0.338 6098	9.958 5586		366	
635	9.619 9654	166	9.661 4102	200	0.338 5898	9.958 5551	35	365	
636	9.619 9819	165	9.661 4303	201	0.338 5697	9.958 5516	35	364	
		165		200			34		
637	9.619 9984		9.661 4503		0.338 5497	9.958 5482		363	
638	9.620 0149	165	9.661 4703	200	0.338 5297	9.958 5447	35	362	
639	9.620 0315	166	9.661 4903	200	0.338 5097	9.958 5412	35	361	
		165		200			35		
.640	9.620 0480		9.661 5103		0.338 4897	9.958 5377		**.360**	
		165		200			34		
641	9.620 0645		9.661 5303		0.338 4697	9.958 5343		359	
642	9.620 0810	165	9.661 5503	200	0.338 4497	9.958 5308	35	358	
643	9.620 0976	166	9.661 5703	200	0.338 4297	9.958 5273	35	357	
		165		200			35		
644	9.620 1141		9.661 5903		0.338 4097	9.958 5238		356	
645	9.620 1306	165	9.661 6103	200	0.338 3897	9.958 5203	35	355	
646	9.620 1471	165	9.661 6303	200	0.338 3697	9.958 5169	34	354	
		166		200			35		
647	9.620 1637		9.661 6503		0.338 3497	9.958 5134		353	
648	9.620 1802	165	9.661 6703	200	0.338 3297	9.958 5099	35	352	
649	9.620 1967	165	9.661 6903	200	0.338 3097	9.958 5064	35	351	
		165		200			34		
.650	9.620 2132		9.661 7103		0.338 2897	9.958 5030		**.350**	
	cos	d	cotg	d	tang	sin	d	**65°**	P.P.

65°.400 — 65°.350

	201	200
1	20.1	20.0
2	40.2	40.0
3	60.3	60.0
4	80.4	80.0
5	100.5	100.0
6	120.6	120.0
7	140.7	140.0
8	160.8	160.0
9	180.9	180.0

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

24°.650 — 24°.700

24°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.620 2132		9.661 7103		0.338 2897	9.958 5030		**.350**	
		165		200			35		
651	9.620 2297		9.661 7303		0.338 2697	9.958 4995		349	
652	9.620 2462	165	9.661 7502	199	0.338 2498	9.958 4960	35	348	
653	9.620 2628	166	9.661 7702	200	0.338 2298	9.958 4925	35	347	
		165		200			35		
654	9.620 2793		9.661 7902		0.338 2098	9.958 4890		346	
655	9.620 2958	165	9.661 8102	200	0.338 1898	9.958 4856	34	345	
656	9.620 3123	165	9.661 8302	200	0.338 1698	9.958 4821	35	344	
		165		200			35		
657	9.620 3288		9.661 8502		0.338 1498	9.958 4786		343	
658	9.620 3453	165	9.661 8702	200	0.338 1298	9.958 4751	35	342	
659	9.620 3618	165	9.661 8902	200	0.338 1098	9.958 4716	35	341	
		166		200			34		
.660	9.620 3784		9.661 9102		0.338 0898	9.958 4682		**.340**	
		165		200			35		
661	9.620 3949		9.661 9302		0.338 0698	9.958 4647		339	
662	9.620 4114	165	9.661 9502	200	0.338 0498	9.958 4612	35	338	
663	9.620 4279	165	9.661 9702	200	0.338 0298	9.958 4577	35	337	
		165		199			35		
664	9.620 4444		9.661 9901		0.338 0099	9.958 4542		336	
665	9.620 4609	165	9.662 0101	200	0.337 9899	9.958 4508	34	335	
666	9.620 4774	165	9.662 0301	200	0.337 9699	9.958 4473	35	334	
		165		200			35		
667	9.620 4939		9.662 0501		0.337 9499	9.958 4438		333	
668	9.620 5104	165	9.662 0701	200	0.337 9299	9.958 4403	35	332	
669	9.620 5269	165	9.662 0901	200	0.337 9099	9.958 4368	35	331	
		165		200			34		
.670	9.620 5434		9.662 1101		0.337 8899	9.958 4334		**.330**	
		165		199			35		
671	9.620 5599		9.662 1300		0.337 8700	9.958 4299		329	
672	9.620 5764	165	9.662 1500	200	0.337 8500	9.958 4264	35	328	
673	9.620 5929	165	9.662 1700	200	0.337 8300	9.958 4229	35	327	
		165		200			35		
674	9.620 6094		9.662 1900		0.337 8100	9.958 4194		326	
675	9.620 6259	165	9.662 2100	200	0.337 7900	9.958 4159	35	325	
676	9.620 6424	165	9.662 2300	200	0.337 7700	9.958 4125	34	324	
		165		199			35		
677	9.620 6589		9.662 2499		0.337 7501	9.958 4090		323	
678	9.620 6754	165	9.662 2699	200	0.337 7301	9.958 4055	35	322	
679	9.620 6919	165	9.662 2899	200	0.337 7101	9.958 4020	35	321	
		165		200			35		
.680	9.620 7084		9.662 3099		0.337 6901	9.958 3985		**.320**	
		165		199			34		
681	9.620 7249		9.662 3298		0.337 6702	9.958 3951		319	
682	9.620 7414	165	9.662 3498	200	0.337 6502	9.958 3916	35	318	
683	9.620 7579	165	9.662 3698	200	0.337 6302	9.958 3881	35	317	
		165		200			35		
684	9.620 7744		9.662 3898		0.337 6102	9.958 3846		316	
685	9.620 7909	165	9.662 4098	200	0.337 5902	9.958 3811	35	315	
686	9.620 8074	165	9.662 4297	199	0.337 5703	9.958 3776	35	314	
		165		200			35		
687	9.620 8239		9.662 4497		0.337 5503	9.958 3741		313	
688	9.620 8403	164	9.662 4697	200	0.337 5303	9.958 3707	34	312	
689	9.620 8568	165	9.662 4896	199	0.337 5104	9.958 3672	35	311	
		165		200			35		
.690	9.620 8733		9.662 5096		0.337 4904	9.958 3637		**.310**	
		165		200			35		
691	9.620 8898		9.662 5296		0.337 4704	9.958 3602		309	
692	9.620 9063	165	9.662 5496	200	0.337 4504	9.958 3567	35	308	
693	9.620 9228	165	9.662 5695	199	0.337 4305	9.958 3532	35	307	
		165		200			34		
694	9.620 9393		9.662 5895		0.337 4105	9.958 3498		306	
695	9.620 9557	164	9.662 6095	200	0.337 3905	9.958 3463	35	305	
696	9.620 9722	165	9.662 6294	199	0.337 3706	9.958 3428	35	304	
		165		200			35		
697	9.620 9887		9.662 6494		0.337 3506	9.958 3393		303	
698	9.621 0052	165	9.662 6694	200	0.337 3306	9.958 3358	35	302	
699	9.621 0217	165	9.662 6893	199	0.337 3107	9.958 3323	35	301	
		165		200			35		
.700	9.621 0382		9.662 7093		0.337 2907	9.958 3288		**.300**	
	cos	d	cotg	d	tang	sin	d	**65°**	P.P.

	200	199
1	20.0	19.9
2	40.0	39.8
3	60.0	59.7
4	80.0	79.6
5	100.0	99.5
6	120.0	119.4
7	140.0	139.3
8	160.0	159.2
9	180.0	179.1

	166	165
1	16.6	16.5
2	33.2	33.0
3	49.8	49.5
4	66.4	66.0
5	83.0	82.5
6	99.6	99.0
7	116.2	115.5
8	132.8	132.0
9	149.4	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.350 — 65°.300

24°.700 — 24°.750

24°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.621 0382		9.662 7093		0.337 2907	9.958 3288		.300	
		164		200			34		
701	9.621 0546		9.662 7293		0.337 2707	9.958 3254		299	
702	9.621 0711	165	9.662 7492	199	0.337 2508	9.958 3219	35	298	
703	9.621 0876	165	9.662 7692	200	0.337 2308	9.958 3184	35	297	
		165		200			35		
704	9.621 1041		9.662 7892		0.337 2108	9.958 3149		296	
705	9.621 1205	164	9.662 8091	199	0.337 1909	9.958 3114	35	295	
706	9.621 1370	165	9.662 8291	200	0.337 1709	9.958 3079	35	294	
		165		200			35		
707	9.621 1535		9.662 8491		0.337 1509	9.958 3044		293	
708	9.621 1700	165	9.662 8690	199	0.337 1310	9.958 3009	35	292	
709	9.621 1864	164	9.662 8890	200	0.337 1110	9.958 2975	34	291	
		165		199			35		
.710	9.621 2029		9.662 9089		0.337 0911	9.958 2940		.290	
		165		200			35		
711	9.621 2194		9.662 9289		0.337 0711	9.958 2905		289	
712	9.621 2359	165	9.662 9489	200	0.337 0511	9.958 2870	35	288	
713	9.621 2523	164	9.662 9688	199	0.337 0312	9.958 2835	35	287	
		165		200			35		
714	9.621 2688		9.662 9888		0.337 0112	9.958 2800		286	
715	9.621 2853	165	9.663 0087	199	0.336 9913	9.958 2765	35	285	
716	9.621 3017	164	9.663 0287	200	0.336 9713	9.958 2730	35	284	
		165		199			35		
717	9.621 3182		9.663 0486		0.336 9514	9.958 2695		283	
718	9.621 3347	165	9.663 0686	200	0.336 9314	9.958 2661	34	282	
719	9.621 3511	164	9.663 0886	200	0.336 9114	9.958 2626	35	281	
		165		199			35		
.720	9.621 3676		9.663 1085		0.336 8915	9.958 2591		.280	
		165		200			35		
721	9.621 3841		9.663 1285		0.336 8715	9.958 2556		279	
722	9.621 4005	164	9.663 1484	199	0.336 8516	9.958 2521	35	278	
723	9.621 4170	165	9.663 1684	200	0.336 8316	9.958 2486	35	277	
		164		199			35		
724	9.621 4334		9.663 1883		0.336 8117	9.958 2451		276	
725	9.621 4499	165	9.663 2083	200	0.336 7917	9.958 2416	35	275	
726	9.621 4664	165	9.663 2282	199	0.336 7718	9.958 2381	35	274	
		164		200			34		
727	9.621 4828		9.663 2482		0.336 7518	9.958 2347		273	
728	9.621 4993	165	9.663 2681	199	0.336 7319	9.958 2312	35	272	
729	9.621 5157	164	9.663 2881	200	0.336 7119	9.958 2277	35	271	
		165		199			35		
.730	9.621 5322		9.663 3080		0.336 6920	9.958 2242		.270	
		165		200			35		
731	9.621 5487		9.663 3280		0.336 6720	9.958 2207		269	
732	9.621 5651	164	9.663 3479	199	0.336 6521	9.958 2172	35	268	
733	9.621 5816	165	9.663 3679	200	0.336 6321	9.958 2137	35	267	
		164		199			35		
734	9.621 5980		9.663 3878		0.336 6122	9.958 2102		266	
735	9.621 6145	165	9.663 4078	200	0.336 5922	9.958 2067	35	265	
736	9.621 6309	164	9.663 4277	199	0.336 5723	9.958 2032	35	264	
		165		200			35		
737	9.621 6474		9.663 4477		0.336 5523	9.958 1997		263	
738	9.621 6638	164	9.663 4676	199	0.336 5324	9.958 1962	35	262	
739	9.621 6803	165	9.663 4875	199	0.336 5125	9.958 1928	34	261	
		164		200			35		
.740	9.621 6967		9.663 5075		0.336 4925	9.958 1893		.260	
		165		199			35		
741	9.621 7132		9.663 5274		0.336 4726	9.958 1858		259	
742	9.621 7296	164	9.663 5474	200	0.336 4526	9.958 1823	35	258	
743	9.621 7461	165	9.663 5673	199	0.336 4327	9.958 1788	35	257	
		164		199			35		
744	9.621 7625		9.663 5872		0.336 4128	9.958 1753		256	
745	9.621 7790	165	9.663 6072	200	0.336 3928	9.958 1718	35	255	
746	9.621 7954	164	9.663 6271	199	0.336 3729	9.958 1683	35	254	
		165		200			35		
747	9.621 8119		9.663 6471		0.336 3529	9.958 1648		253	
748	9.621 8283	164	9.663 6670	199	0.336 3330	9.958 1613	35	252	
749	9.621 8448	165	9.663 6869	199	0.336 3131	9.958 1578	35	251	
		164		200			35		
.750	9.621 8612		9.663 7069		0.336 2931	9.958 1543		.250	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	200	199
1	20.0	19.9
2	40.0	39.8
3	60.0	59.7
4	80.0	79.6
5	100.0	99.5
6	120.0	119.4
7	140.0	139.3
8	160.0	159.2
9	180.0	179.1

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.300 — 65°.250

24°.750 — 24°.800

24°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.621 8612		9.663 7069		0.336 2931	9.958 1543		.250	
		164		199			35		
751	9.621 8776		9.663 7268		0.336 2732	9.958 1508		249	
752	9.621 8941	165	9.663 7467	199	0.336 2533	9.958 1473	35	248	
753	9.621 9105	164	9.663 7667	200	0.336 2333	9.958 1438	35	247	
		165		199			35		
754	9.621 9270		9.663 7866		0.336 2134	9.958 1403		246	
755	9.621 9434	164	9.663 8065	199	0.336 1935	9.958 1368	35	245	
756	9.621 9598	164	9.663 8265	200	0.336 1735	9.958 1334	34	244	
		165		199			35		
757	9.621 9763		9.663 8464		0.336 1536	9.958 1299		243	
758	9.621 9927	164	9.663 8663	199	0.336 1337	9.958 1264	35	242	
759	9.622 0091	164	9.663 8863	200	0.336 1137	9.958 1229	35	241	
		165		199			35		
.760	9.622 0256		9.663 9062		0.336 0938	9.958 1194		.240	
		164		199			35		
761	9.622 0420		9.663 9261		0.336 0739	9.958 1159		239	
762	9.622 0584	164	9.663 9461	200	0.336 0539	9.958 1124	35	238	
763	9.622 0749	165	9.663 9660	199	0.336 0340	9.958 1089	35	237	
		164		199			35		
764	9.622 0913		9.663 9859		0.336 0141	9.958 1054		236	
765	9.622 1077	164	9.664 0059	200	0.335 9941	9.958 1019	35	235	
766	9.622 1242	165	9.664 0258	199	0.335 9742	9.958 0984	35	234	
		164		199			35		
767	9.622 1406		9.664 0457		0.335 9543	9.958 0949		233	
768	9.622 1570	164	9.664 0656	199	0.335 9344	9.958 0914	35	232	
769	9.622 1735	165	9.664 0856	200	0.335 9144	9.958 0879	35	231	
		164		199			35		
.770	9.622 1899		9.664 1055		0.335 8945	9.958 0844		.230	
		164		199			35		
771	9.622 2063		9.664 1254		0.335 8746	9.958 0809		229	
772	9.622 2227	164	9.664 1453	199	0.335 8547	9.958 0774	35	228	
773	9.622 2392	165	9.664 1653	200	0.335 8347	9.958 0739	35	227	
		164		199			35		
774	9.622 2556		9.664 1852		0.335 8148	9.958 0704		226	
775	9.622 2720	164	9.664 2051	199	0.335 7949	9.958 0669	35	225	
776	9.622 2884	164	9.664 2250	199	0.335 7750	9.958 0634	35	224	
		165		199			35		
777	9.622 3049		9.664 2449		0.335 7551	9.958 0599		223	
778	9.622 3213	164	9.664 2649	200	0.335 7351	9.958 0564	35	222	
779	9.622 3377	164	9.664 2848	199	0.335 7152	9.958 0529	35	221	
		164		199			35		
.780	9.622 3541		9.664 3047		0.335 6953	9.958 0494		.220	
		164		199			35		
781	9.622 3705		9.664 3246		0.335 6754	9.958 0459		219	
782	9.622 3870	165	9.664 3445	199	0.335 6555	9.958 0424	35	218	
783	9.622 4034	164	9.664 3645	200	0.335 6355	9.958 0389	35	217	
		164		199			35		
784	9.622 4198		9.664 3844		0.335 6156	9.958 0354		216	
785	9.622 4362	164	9.664 4043	199	0.335 5957	9.958 0319	35	215	
786	9.622 4526	164	9.664 4242	199	0.335 5758	9.958 0284	35	214	
		164		199			35		
787	9.622 4690		9.664 4441		0.335 5559	9.958 0249		213	
788	9.622 4854	164	9.664 4640	199	0.335 5360	9.958 0214	35	212	
789	9.622 5019	165	9.664 4839	199	0.335 5161	9.958 0179	35	211	
		164		200			35		
.790	9.622 5183		9.664 5039		0.335 4961	9.958 0144		.210	
		164		199			35		
791	9.622 5347		9.664 5238		0.335 4762	9.958 0109		209	
792	9.622 5511	164	9.664 5437	199	0.335 4563	9.958 0074	35	208	
793	9.622 5675	164	9.664 5636	199	0.335 4364	9.958 0039	35	207	
		164		199			35		
794	9.622 5839		9.664 5835		0.335 4165	9.958 0004		206	
795	9.622 6003	164	9.664 6034	199	0.335 3966	9.957 9969	35	205	
796	9.622 6167	164	9.664 6233	199	0.335 3767	9.957 9934	35	204	
		164		199			35		
797	9.622 6331		9.664 6432		0.335 3568	9.957 9899		203	
798	9.622 6495	164	9.664 6631	199	0.335 3369	9.957 9864	35	202	
799	9.622 6660	165	9.664 6830	199	0.335 3170	9.957 9829	35	201	
		164		200			35		
.800	9.622 6824		9.664 7030		0.335 2970	9.957 9794		.200	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	200	199
1	20.0	19.9
2	40.0	39.8
3	60.0	59.7
4	80.0	79.6
5	100.0	99.5
6	120.0	119.4
7	140.0	139.3
8	160.0	159.2
9	180.0	179.1

	165	164
1	16.5	16.4
2	33.0	32.8
3	49.5	49.2
4	66.0	65.6
5	82.5	82.0
6	99.0	98.4
7	115.5	114.8
8	132.0	131.2
9	148.5	147.6

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

	34
1	3.4
2	6.8
3	10.2
4	13.6
5	17.0
6	20.4
7	23.8
8	27.2
9	30.6

65°.250 — 65°.200

24°.800 — 24°.850

24°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.622 6824		9.664 7030		0.335 2970	9.957 9794		**.200**	
		164		199			35		
801	9.622 6988		9.664 7229		0.335 2771	9.957 9759		199	
802	9.622 7152	164	9.664 7428	199	0.335 2572	9.957 9724	35	198	
803	9.622 7316	164	9.664 7627	199	0.335 2373	9.957 9689	35	197	
		164		199			35		
804	9.622 7480		9.664 7826		0.335 2174	9.957 9654		196	
805	9.622 7644	164	9.664 8025	199	0.335 1975	9.957 9619	35	195	
806	9.622 7808	164	9.664 8224	199	0.335 1776	9.957 9584	35	194	
		164		199			35		
807	9.622 7972		9.664 8423		0.335 1577	9.957 9549		193	
808	9.622 8136	164	9.664 8622	199	0.335 1378	9.957 9514	35	192	
809	9.622 8300	164	9.664 8821	199	0.335 1179	9.957 9479	35	191	
		164		199			35		
.810	9.622 8464		9.664 9020		0.335 0980	9.957 9444		**.190**	
		164		199			35		
811	9.622 8628		9.664 9219		0.335 0781	9.957 9409		189	
812	9.622 8792	164	9.664 9418	199	0.335 0582	9.957 9374	35	188	
813	9.622 8955	163	9.664 9617	199	0.335 0383	9.957 9339	35	187	
		164		199			35		
814	9.622 9119		9.664 9816		0.335 0184	9.957 9304		186	
815	9.622 9283	164	9.665 0015	199	0.334 9985	9.957 9269	35	185	
816	9.622 9447	164	9.665 0214	199	0.334 9786	9.957 9233	36	184	
		164		199			35		
817	9.622 9611		9.665 0413		0.334 9587	9.957 9198		183	
818	9.622 9775	164	9.665 0612	199	0.334 9388	9.957 9163	35	182	
819	9.622 9939	164	9.665 0811	199	0.334 9189	9.957 9128	35	181	
		164		199			35		
.820	9.623 0103		9.665 1010		0.334 8990	9.957 9093		**.180**	
		164		199			35		
821	9.623 0267		9.665 1209		0.334 8791	9.957 9058		179	
822	9.623 0431	164	9.665 1408	199	0.334 8592	9.957 9023	35	178	
823	9.623 0595	164	9.665 1606	198	0.334 8394	9.957 8988	35	177	
		163		199			35		
824	9.623 0758		9.665 1805		0.334 8195	9.957 8953		176	
825	9.623 0922	164	9.665 2004	199	0.334 7996	9.957 8918	35	175	
826	9.623 1086	164	9.665 2203	199	0.334 7797	9.957 8883	35	174	
		164		199			35		
827	9.623 1250		9.665 2402		0.334 7598	9.957 8848		173	
828	9.623 1414	164	9.665 2601	199	0.334 7399	9.957 8813	35	172	
829	9.623 1578	164	9.665 2800	199	0.334 7200	9.957 8778	35	171	
		163		199			35		
.830	9.623 1741		9.665 2999		0.334 7001	9.957 8743		**.170**	
		164		199			35		
831	9.623 1905		9.665 3198		0.334 6802	9.957 8708		169	
832	9.623 2069	164	9.665 3397	199	0.334 6603	9.957 8672	36	168	
833	9.623 2233	164	9.665 3596	199	0.334 6404	9.957 8637	35	167	
		164		198			35		
834	9.623 2397		9.665 3794		0.334 6206	9.957 8602		166	
835	9.623 2560	163	9.665 3993	199	0.334 6007	9.957 8567	35	165	
836	9.623 2724	164	9.665 4192	199	0.334 5808	9.957 8532	35	164	
		164		199			35		
837	9.623 2888		9.665 4391		0.334 5609	9.957 8497		163	
838	9.623 3052	164	9.665 4590	199	0.334 5410	9.957 8462	35	162	
839	9.623 3216	164	9.665 4789	199	0.334 5211	9.957 8427	35	161	
		163		198			35		
.840	9.623 3379		9.665 4987		0.334 5013	9.957 8392		**.160**	
		164		199			35		
841	9.623 3543		9.665 5186		0.334 4814	9.957 8357		159	
842	9.623 3707	164	9.665 5385	199	0.334 4615	9.957 8322	35	158	
843	9.623 3870	163	9.665 5584	199	0.334 4416	9.957 8287	35	157	
		164		199			36		
844	9.623 4034		9.665 5783		0.334 4217	9.957 8251		156	
845	9.623 4198	164	9.665 5982	199	0.334 4018	9.957 8216	35	155	
846	9.623 4362	164	9.665 6180	198	0.334 3820	9.957 8181	35	154	
		163		199			35		
847	9.623 4525		9.665 6379		0.334 3621	9.957 8146		153	
848	9.623 4689	164	9.665 6578	199	0.334 3422	9.957 8111	35	152	
849	9.623 4853	164	9.665 6777	199	0.334 3223	9.957 8076	35	151	
		163		198			35		
.850	9.623 5016		9.665 6975		0.334 3025	9.957 8041		**.150**	
	cos	d	cotg	d	tang	sin	d	**65°**	P.P.

	199	198
1	19.9	19.8
2	39.8	39.6
3	59.7	59.4
4	79.6	79.2
5	99.5	99.0
6	119.4	118.8
7	139.3	138.6
8	159.2	158.4
9	179.1	178.2

	164	163
1	16.4	16.3
2	32.8	32.6
3	49.2	48.9
4	65.6	65.2
5	82.0	81.5
6	98.4	97.8
7	114.8	114.1
8	131.2	130.4
9	147.6	146.7

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

65°.200 — 65°.150

24°.850 — 24°.900

24°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.623 5016		9.665 6975		0.334 3025	9.957 8041		.150	
		164		199			35		
851	9.623 5180		9.665 7174		0.334 2826	9.957 8006		149	
852	9.623 5344	164	9.665 7373	199	0.334 2627	9.957 7971	35	148	
853	9.623 5507	163	9.665 7572	199	0.334 2428	9.957 7936	35	147	
		164		199			36		
854	9.623 5671		9.665 7771		0.334 2229	9.957 7900		146	
855	9.623 5835	164	9.665 7969	198	0.334 2031	9.957 7865	35	145	
856	9.623 5998	163	9.665 8168	199	0.334 1832	9.957 7830	35	144	
		164		199			35		
857	9.623 6162		9.665 8367		0.334 1633	9.957 7795		143	
858	9.623 6325	163	9.665 8565	198	0.334 1435	9.957 7760	35	142	
859	9.623 6489	164	9.665 8764	199	0.334 1236	9.957 7725	35	141	
		164		199			35		
.860	9.623 6653		9.665 8963		0.334 1037	9.957 7690		.140	
		163		199			35		
861	9.623 6816		9.665 9162		0.334 0838	9.957 7655		139	
862	9.623 6980	164	9.665 9360	198	0.334 0640	9.957 7619	36	138	
863	9.623 7143	163	9.665 9559	199	0.334 0441	9.957 7584	35	137	
		164		199			35		
864	9.623 7307		9.665 9758		0.334 0242	9.957 7549		136	
865	9.623 7471	164	9.665 9956	198	0.334 0044	9.957 7514	35	135	
866	9.623 7634	163	9.666 0155	199	0.333 9845	9.957 7479	35	134	
		164		199			35		
867	9.623 7798		9.666 0354		0.333 9646	9.957 7444		133	
868	9.623 7961	163	9.666 0552	198	0.333 9448	9.957 7409	35	132	
869	9.623 8125	164	9.666 0751	199	0.333 9249	9.957 7374	35	131	
		163		199			36		
.870	9.623 8288		9.666 0950		0.333 9050	9.957 7338		.130	
		164		198			35		
871	9.623 8452		9.666 1148		0.333 8852	9.957 7303		129	
872	9.623 8615	163	9.666 1347	199	0.333 8653	9.957 7268	35	128	
873	9.623 8779	164	9.666 1546	199	0.333 8454	9.957 7233	35	127	
		163		198			35		
874	9.623 8942		9.666 1744		0.333 8256	9.957 7198		126	
875	9.623 9106	164	9.666 1943	199	0.333 8057	9.957 7163	35	125	
876	9.623 9269	163	9.666 2142	199	0.333 7858	9.957 7128	35	124	
		164		198			36		
877	9.623 9433		9.666 2340		0.333 7660	9.957 7092		123	
878	9.623 9596	163	9.666 2539	199	0.333 7461	9.957 7057	35	122	
879	9.623 9760	164	9.666 2737	198	0.333 7263	9.957 7022	35	121	
		163		199			35		
.880	9.623 9923		9.666 2936		0.333 7064	9.957 6987		.120	
		163		199			35		
881	9.624 0086		9.666 3135		0.333 6865	9.957 6952		119	
882	9.624 0250	164	9.666 3333	198	0.333 6667	9.957 6917	35	118	
883	9.624 0413	163	9.666 3532	199	0.333 6468	9.957 6882	35	117	
		164		198			36		
884	9.624 0577		9.666 3730		0.333 6270	9.957 6846		116	
885	9.624 0740	163	9.666 3929	199	0.333 6071	9.957 6811	35	115	
886	9.624 0904	164	9.666 4127	198	0.333 5873	9.957 6776	35	114	
		163		199			35		
887	9.624 1067		9.666 4326		0.333 5674	9.957 6741		113	
888	9.624 1230	163	9.666 4525	199	0.333 5475	9.957 6706	35	112	
889	9.624 1394	164	9.666 4723	198	0.333 5277	9.957 6671	35	111	
		163		199			36		
.890	9.624 1557		9.666 4922		0.333 5078	9.957 6635		.110	
		163		198			35		
891	9.624 1720		9.666 5120		0.333 4880	9.957 6600		109	
892	9.624 1884	164	9.666 5319	199	0.333 4681	9.957 6565	35	108	
893	9.624 2047	163	9.666 5517	198	0.333 4483	9.957 6530	35	107	
		163		199			35		
894	9.624 2210		9.666 5716		0.333 4284	9.957 6495		106	
895	9.624 2374	164	9.666 5914	198	0.333 4086	9.957 6460	35	105	
896	9.624 2537	163	9.666 6113	199	0.333 3887	9.957 6424	36	104	
		163		198			35		
897	9.624 2700		9.666 6311		0.333 3689	9.957 6389		103	
898	9.624 2864	164	9.666 6510	199	0.333 3490	9.957 6354	35	102	
899	9.624 3027	163	9.666 6708	198	0.333 3292	9.957 6319	35	101	
		163		199			35		
.900	9.624 3190		9.666 6907		0.333 3093	9.957 6284		.100	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	199	198
1	19.9	19.8
2	39.8	39.6
3	59.7	59.4
4	79.6	79.2
5	99.5	99.0
6	119.4	118.8
7	139.3	138.6
8	159.2	158.4
9	179.1	178.2

	164	163
1	16.4	16.3
2	32.8	32.6
3	49.2	48.9
4	65.6	65.2
5	82.0	81.5
6	98.4	97.8
7	114.8	114.1
8	131.2	130.4
9	147.6	146.7

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

65°.150 — 65°.100

24°.900 — 24°.950

24°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.624 3190		9.666 6907		0.333 3093	9.957 6284		**.100**	
		164		198			36		
901	9.624 3354		9.666 7105		0.333 2895	9.957 6248		099	
902	9.624 3517	163	9.666 7304	199	0.333 2696	9.957 6213	35	098	
903	9.624 3680	163	9.666 7502	198	0.333 2498	9.957 6178	35	097	
		164		199			35		
904	9.624 3844		9.666 7701		0.333 2299	9.957 6143		096	
905	9.624 4007	163	9.666 7899	198	0.333 2101	9.957 6108	35	095	
906	9.624 4170	163	9.666 8098	199	0.333 1902	9.957 6072	36	094	
		163		198			35		
907	9.624 4333		9.666 8296		0.333 1704	9.957 6037		093	
908	9.624 4497	164	9.666 8494	198	0.333 1506	9.957 6002	35	092	
909	9.624 4660	163	9.666 8693	199	0.333 1307	9.957 5967	35	091	
		163		198			35		
.910	9.624 4823		9.666 8891		0.333 1109	9.957 5932		**.090**	
		163		199			36		
911	9.624 4986		9.666 9090		0.333 0910	9.957 5896		089	
912	9.624 5149	163	9.666 9288	198	0.333 0712	9.957 5861	35	088	
913	9.624 5313	164	9.666 9486	198	0.333 0514	9.957 5826	35	087	
		163		199			35		
914	9.624 5476		9.666 9685		0.333 0315	9.957 5791		086	
915	9.624 5639	163	9.666 9883	198	0.333 0117	9.957 5756	35	085	
916	9.624 5802	163	9.667 0082	199	0.332 9918	9.957 5720	36	084	
		163		198			35		
917	9.624 5965		9.667 0280		0.332 9720	9.957 5685		083	
918	9.624 6128	163	9.667 0478	198	0.332 9522	9.957 5650	35	082	
919	9.624 6292	164	9.667 0677	199	0.332 9323	9.957 5615	35	081	
		163		198			35		
.920	9.624 6455		9.667 0875		0.332 9125	9.957 5580		**.080**	
		163		199			36		
921	9.624 6618		9.667 1074		0.332 8926	9.957 5544		079	
922	9.624 6781	163	9.667 1272	198	0.332 8728	9.957 5509	35	078	
923	9.624 6944	163	9.667 1470	198	0.332 8530	9.957 5474	35	077	
		163		199			35		
924	9.624 7107		9.667 1669		0.332 8331	9.957 5439		076	
925	9.624 7270	163	9.667 1867	198	0.332 8133	9.957 5403	36	075	
926	9.624 7434	164	9.667 2065	198	0.332 7935	9.957 5368	35	074	
		163		199			35		
927	9.624 7597		9.667 2264		0.332 7736	9.957 5333		073	
928	9.624 7760	163	9.667 2462	198	0.332 7538	9.957 5298	35	072	
929	9.624 7923	163	9.667 2660	198	0.332 7340	9.957 5263	35	071	
		163		199			36		
.930	9.624 8086		9.667 2859		0.332 7141	9.957 5227		**.070**	
		163		198			35		
931	9.624 8249		9.667 3057		0.332 6943	9.957 5192		069	
932	9.624 8412	163	9.667 3255	198	0.332 6745	9.957 5157	35	068	
933	9.624 8575	163	9.667 3453	198	0.332 6547	9.957 5122	35	067	
		163		199			36		
934	9.624 8738		9.667 3652		0.332 6348	9.957 5086		066	
935	9.624 8901	163	9.667 3850	198	0.332 6150	9.957 5051	35	065	
936	9.624 9064	163	9.667 4048	198	0.332 5952	9.957 5016	35	064	
		163		198			35		
937	9.624 9227		9.667 4246		0.332 5754	9.957 4981		063	
938	9.624 9390	163	9.667 4445	199	0.332 5555	9.957 4945	36	062	
939	9.624 9553	163	9.667 4643	198	0.332 5357	9.957 4910	35	061	
		163		198			35		
.940	9.624 9716		9.667 4841		0.332 5159	9.957 4875		**.060**	
		163		198			35		
941	9.624 9879		9.667 5039		0.332 4961	9.957 4840		059	
942	9.625 0042	163	9.667 5238	199	0.332 4762	9.957 4804	36	058	
943	9.625 0205	163	9.667 5436	198	0.332 4564	9.957 4769	35	057	
		163		198			35		
944	9.625 0368		9.667 5634		0.332 4366	9.957 4734		056	
945	9.625 0531	163	9.667 5832	198	0.332 4168	9.957 4699	35	055	
946	9.625 0694	163	9.667 6031	199	0.332 3969	9.957 4663	36	054	
		163		198			35		
947	9.625 0857		9.667 6229		0.332 3771	9.957 4628		053	
948	9.625 1020	163	9.667 6427	198	0.332 3573	9.957 4593	35	052	
949	9.625 1183	163	9.667 6625	198	0.332 3375	9.957 4558	35	051	
		163		198			36		
.950	9.625 1346		9.667 6823		0.332 3177	9.957 4522		**.050**	
	cos	d	cotg	d	tang	sin	d	**65°**	P.P.

	199	198
1	19.9	19.8
2	39.8	39.6
3	59.7	59.4
4	79.6	79.2
5	99.5	99.0
6	119.4	118.8
7	139.3	138.6
8	159.2	158.4
9	179.1	178.2

	164	163
1	16.4	16.3
2	32.8	32.6
3	49.2	48.9
4	65.6	65.2
5	82.0	81.5
6	98.4	97.8
7	114.8	114.1
8	131.2	130.4
9	147.6	146.7

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

65°.100 — 65°.050

24°.950 — 25°.000

24°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.625 1346		9.667 6823		0.332 3177	9.957 4522		.050	
		163		199			35		
951	9.625 1509		9.667 7022		0.332 2978	9.957 4487		049	
952	9.625 1672	163	9.667 7220	198	0.332 2780	9.957 4452	35	048	
953	9.625 1835	163	9.667 7418	198	0.332 2582	9.957 4417	35	047	
		162		198			36		
954	9.625 1997		9.667 7616		0.332 2384	9.957 4381		046	
955	9.625 2160	163	9.667 7814	198	0.332 2186	9.957 4346	35	045	
956	9.625 2323	163	9.667 8012	198	0.332 1988	9.957 4311	35	044	
		163		199			36		
957	9.625 2486		9.667 8211		0.332 1789	9.957 4275		043	
958	9.625 2649	163	9.667 8409	198	0.332 1591	9.957 4240	35	042	
959	9.625 2812	163	9.667 8607	198	0.332 1393	9.957 4205	35	041	
		163		198			35		
.960	9.625 2975		9.667 8805		0.332 1195	9.957 4170		.040	
		162		198			36		
961	9.625 3137		9.667 9003		0.332 0997	9.957 4134		039	
962	9.625 3300	163	9.667 9201	198	0.332 0799	9.957 4099	35	038	
963	9.625 3463	163	9.667 9399	198	0.332 0601	9.957 4064	35	037	
		163		198			35		
964	9.625 3626		9.667 9597		0.332 0403	9.957 4029		036	
965	9.625 3789	163	9.667 9796	199	0.332 0204	9.957 3993	36	035	
966	9.625 3952	163	9.667 9994	198	0.332 0006	9.957 3958	35	034	
		162		198			35		
967	9.625 4114		9.668 0192		0.331 9808	9.957 3923		033	
968	9.625 4277	163	9.668 0390	198	0.331 9610	9.957 3887	36	032	
969	9.625 4440	163	9.668 0588	198	0.331 9412	9.957 3852	35	031	
		163		198			35		
.970	9.625 4603		9.668 0786		0.331 9214	9.957 3817		.030	
		163		198			36		
971	9.625 4766		9.668 0984		0.331 9016	9.957 3781		029	
972	9.625 4928	162	9.668 1182	198	0.331 8818	9.957 3746	35	028	
973	9.625 5091	163	9.668 1380	198	0.331 8620	9.957 3711	35	027	
		163		198			35		
974	9.625 5254		9.668 1578		0.331 8422	9.957 3676		026	
975	9.625 5417	163	9.668 1776	198	0.331 8224	9.957 3640	36	025	
976	9.625 5579	162	9.668 1974	198	0.331 8026	9.957 3605	35	024	
		163		198			35		
977	9.625 5742		9.668 2172		0.331 7828	9.957 3570		023	
978	9.625 5905	163	9.668 2370	198	0.331 7630	9.957 3534	36	022	
979	9.625 6067	162	9.668 2568	198	0.331 7432	9.957 3499	35	021	
		163		198			35		
.980	9.625 6230		9.668 2766		0.331 7234	9.957 3464		.020	
		163		198			36		
981	9.625 6393		9.668 2964		0.331 7036	9.957 3428		019	
982	9.625 6555	162	9.668 3162	198	0.331 6838	9.957 3393	35	018	
983	9.625 6718	163	9.668 3360	198	0.331 6640	9.957 3358	35	017	
		163		198			36		
984	9.625 6881		9.668 3558		0.331 6442	9.957 3322		016	
985	9.625 7043	162	9.668 3756	198	0.331 6244	9.957 3287	35	015	
986	9.625 7206	163	9.668 3954	198	0.331 6046	9.957 3252	35	014	
		163		198			36		
987	9.625 7369		9.668 4152		0.331 5848	9.957 3216		013	
988	9.625 7531	162	9.668 4350	198	0.331 5650	9.957 3181	35	012	
989	9.625 7694	163	9.668 4548	198	0.331 5452	9.957 3146	35	011	
		163		198			36		
.990	9.625 7857		9.668 4746		0.331 5254	9.957 3110		.010	
		162		198			35		
991	9.625 8019		9.668 4944		0.331 5056	9.957 3075		009	
992	9.625 8182	163	9.668 5142	198	0.331 4858	9.957 3040	35	008	
993	9.625 8345	163	9.668 5340	198	0.331 4660	9.957 3004	36	007	
		162		198			35		
994	9.625 8507		9.668 5538		0.331 4462	9.957 2969		006	
995	9.625 8670	163	9.668 5736	198	0.331 4264	9.957 2934	35	005	
996	9.625 8832	162	9.668 5934	198	0.331 4066	9.957 2898	36	004	
		163		198			35		
997	9.625 8995		9.668 6132		0.331 3868	9.957 2863		003	
998	9.625 9157	162	9.668 6330	198	0.331 3670	9.957 2828	35	002	
999	9.625 9320	163	9.668 6528	198	0.331 3472	9.957 2792	36	001	
		163		197			35		
*.000	9.625 9483		9.668 6725		0.331 3275	9.957 2757		.000	
	cos	d	cotg	d	tang	sin	d	65°	P.P.

	199	198
1	19.9	19.8
2	39.8	39.6
3	59.7	59.4
4	79.6	79.2
5	99.5	99.0
6	119.4	118.8
7	139.3	138.6
8	159.2	158.4
9	179.1	178.2

	197
1	19.7
2	39.4
3	59.1
4	78.8
5	98.5
6	118.2
7	137.9
8	157.6
9	177.3

	163	162
1	16.3	16.2
2	32.6	32.4
3	48.9	48.6
4	65.2	64.8
5	81.5	81.0
6	97.8	97.2
7	114.1	113.4
8	130.4	129.6
9	146.7	145.8

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

65°.050 — 65°.000

25°.000 — 25°.050

25°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.625 9483		9.668 6725		0.331 3275	9.957 2757		***000**	
		162		198			35		
001	9.625 9645		9.668 6923		0.331 3077	9.957 2722		999	
002	9.625 9808	163	9.668 7121	198	0.331 2879	9.957 2686	36	998	
003	9.625 9970	162	9.668 7319	198	0.331 2681	9.957 2651	35	997	
		163		198			35		
004	9.626 0133		9.668 7517		0.331 2483	9.957 2616		996	
005	9.626 0295	162	9.668 7715	198	0.331 2285	9.957 2580	36	995	
006	9.626 0458	163	9.668 7913	198	0.331 2087	9.957 2545	35	994	
		162		198			35		
007	9.626 0620		9.668 8111		0.331 1889	9.957 2510		993	
008	9.626 0783	163	9.668 8308	197	0.331 1692	9.957 2474	36	992	
009	9.626 0945	162	9.668 8506	198	0.331 1494	9.957 2439	35	991	
		163		198			35		
.010	9.626 1108		9.668 8704		0.331 1296	9.957 2404		**.990**	
		162		198			36		
011	9.626 1270		9.668 8902		0.331 1098	9.957 2368		989	
012	9.626 1433	163	9.668 9100	198	0.331 0900	9.957 2333	35	988	
013	9.626 1595	162	9.668 9298	198	0.331 0702	9.957 2297	36	987	
		163		197			35		
014	9.626 1758		9.668 9495		0.331 0505	9.957 2262		986	
015	9.626 1920	162	9.668 9693	198	0.331 0307	9.957 2227	35	985	
016	9.626 2082	162	9.668 9891	198	0.331 0109	9.957 2191	36	984	
		163		198			35		
017	9.626 2245		9.669 0089		0.330 9911	9.957 2156		983	
018	9.626 2407	162	9.669 0287	198	0.330 9713	9.957 2121	35	982	
019	9.626 2570	163	9.669 0484	197	0.330 9516	9.957 2085	36	981	
		162		198			35		
.020	9.626 2732		9.669 0682		0.330 9318	9.957 2050		**.980**	
		163		198			35		
021	9.626 2895		9.669 0880		0.330 9120	9.957 2015		979	
022	9.626 3057	162	9.669 1078	198	0.330 8922	9.957 1979	36	978	
023	9.626 3219	162	9.669 1276	198	0.330 8724	9.957 1944	35	977	
		163		197			36		
024	9.626 3382		9.669 1473		0.330 8527	9.957 1908		976	
025	9.626 3544	162	9.669 1671	198	0.330 8329	9.957 1873	35	975	
026	9.626 3706	162	9.669 1869	198	0.330 8131	9.957 1838	35	974	
		163		198			36		
027	9.626 3869		9.669 2067		0.330 7933	9.957 1802		973	
028	9.626 4031	162	9.669 2264	197	0.330 7736	9.957 1767	35	972	
029	9.626 4193	162	9.669 2462	198	0.330 7538	9.957 1731	36	971	
		163		198			35		
.030	9.626 4356		9.669 2660		0.330 7340	9.957 1696		**.970**	
		162		197			35		
031	9.626 4518		9.669 2857		0.330 7143	9.957 1661		969	
032	9.626 4680	162	9.669 3055	198	0.330 6945	9.957 1625	36	968	
033	9.626 4843	163	9.669 3253	198	0.330 6747	9.957 1590	35	967	
		162		198			36		
034	9.626 5005		9.669 3451		0.330 6549	9.957 1554		966	
035	9.626 5167	162	9.669 3648	197	0.330 6352	9.957 1519	35	965	
036	9.626 5330	163	9.669 3846	198	0.330 6154	9.957 1484	35	964	
		162		198			36		
037	9.626 5492		9.669 4044		0.330 5956	9.957 1448		963	
038	9.626 5654	162	9.669 4241	197	0.330 5759	9.957 1413	35	962	
039	9.626 5816	162	9.669 4439	198	0.330 5561	9.957 1377	36	961	
		163		198			35		
.040	9.626 5979		9.669 4637		0.330 5363	9.957 1342		**.960**	
		162		197			35		
041	9.626 6141		9.669 4834		0.330 5166	9.957 1307		959	
042	9.626 6303	162	9.669 5032	198	0.330 4968	9.957 1271	36	958	
043	9.626 6465	162	9.669 5230	198	0.330 4770	9.957 1236	35	957	
		163		197			36		
044	9.626 6628		9.669 5427		0.330 4573	9.957 1200		956	
045	9.626 6790	162	9.669 5625	198	0.330 4375	9.957 1165	35	955	
046	9.626 6952	162	9.669 5823	198	0.330 4177	9.957 1130	35	954	
		162		197			36		
047	9.626 7114		9.669 6020		0.330 3980	9.957 1094		953	
048	9.626 7277	163	9.669 6218	198	0.330 3782	9.957 1059	35	952	
049	9.626 7439	162	9.669 6415	197	0.330 3585	9.957 1023	36	951	
		162		198			35		
.050	9.626 7601		9.669 6613		0.330 3387	9.957 0988		**.950**	
	cos	d	cotg	d	tang	sin	d	**64°**	P.P.

	198	197
1	19.8	19.7
2	39.6	39.4
3	59.4	59.1
4	79.2	78.8
5	99.0	98.5
6	118.8	118.2
7	138.6	137.9
8	158.4	157.6
9	178.2	177.3

	163	162
1	16.3	16.2
2	32.6	32.4
3	48.9	48.6
4	65.2	64.8
5	81.5	81.0
6	97.8	97.2
7	114.1	113.4
8	130.4	129.6
9	146.7	145.8

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

65°.000 — 64°.950

25°.050 — 25°.100

25°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.626 7601		9.669 6613		0.330 3387	9.957 0988		.950	
		162		198			36		
051	9.626 7763		9.669 6811		0.330 3189	9.957 0952		949	
052	9.626 7925	162	9.669 7008	197	0.330 2992	9.957 0917	35	948	
053	9.626 8087	162	9.669 7206	198	0.330 2794	9.957 0882	35	947	
		163		197			36		
054	9.626 8250		9.669 7403		0.330 2597	9.957 0846		946	
055	9.626 8412	162	9.669 7601	198	0.330 2399	9.957 0811	35	945	
056	9.626 8574	162	9.669 7799	198	0.330 2201	9.957 0775	36	944	
		162		197			35		
057	9.626 8736		9.669 7996		0.330 2004	9.957 0740		943	
058	9.626 8898	162	9.669 8194	198	0.330 1806	9.957 0704	36	942	
059	9.626 9060	162	9.669 8391	197	0.330 1609	9.957 0669	35	941	
		162		198			36		
.060	9.626 9222		9.669 8589		0.330 1411	9.957 0633		.940	
		162		197			35		
061	9.626 9384		9.669 8786		0.330 1214	9.957 0598		939	
062	9.626 9547	163	9.669 8984	198	0.330 1016	9.957 0563	35	938	
063	9.626 9709	162	9.669 9181	197	0.330 0819	9.957 0527	36	937	
		162		198			35		
064	9.626 9871		9.669 9379		0.330 0621	9.957 0492		936	
065	9.627 0033	162	9.669 9577	198	0.330 0423	9.957 0456	36	935	
066	9.627 0195	162	9.669 9774	197	0.330 0226	9.957 0421	35	934	
		162		198			36		
067	9.627 0357		9.669 9972		0.330 0028	9.957 0385		933	
068	9.627 0519	162	9.670 0169	197	0.329 9831	9.957 0350	35	932	
069	9.627 0681	162	9.670 0367	198	0.329 9633	9.957 0314	36	931	
		162		197			35		
.070	9.627 0843		9.670 0564		0.329 9436	9.957 0279		.930	
		162		198			35		
071	9.627 1005		9.670 0762		0.329 9238	9.957 0244		929	
072	9.627 1167	162	9.670 0959	197	0.329 9041	9.957 0208	36	928	
073	9.627 1329	162	9.670 1157	198	0.329 8843	9.957 0173	35	927	
		162		197			36		
074	9.627 1491		9.670 1354		0.329 8646	9.957 0137		926	
075	9.627 1653	162	9.670 1551	197	0.329 8449	9.957 0102	35	925	
076	9.627 1815	162	9.670 1749	198	0.329 8251	9.957 0066	36	924	
		162		197			35		
077	9.627 1977		9.670 1946		0.329 8054	9.957 0031		923	
078	9.627 2139	162	9.670 2144	198	0.329 7856	9.956 9995	36	922	
079	9.627 2301	162	9.670 2341	197	0.329 7659	9.956 9960	35	921	
		162		198			36		
.080	9.627 2463		9.670 2539		0.329 7461	9.956 9924		.920	
		162		197			35		
081	9.627 2625		9.670 2736		0.329 7264	9.956 9889		919	
082	9.627 2787	162	9.670 2934	198	0.329 7066	9.956 9853	36	918	
083	9.627 2949	162	9.670 3131	197	0.329 6869	9.956 9818	35	917	
		162		197			36		
084	9.627 3111		9.670 3328		0.329 6672	9.956 9782		916	
085	9.627 3273	162	9.670 3526	198	0.329 6474	9.956 9747	35	915	
086	9.627 3435	162	9.670 3723	197	0.329 6277	9.956 9711	36	914	
		162		198			35		
087	9.627 3597		9.670 3921		0.329 6079	9.956 9676		913	
088	9.627 3758	161	9.670 4118	197	0.329 5882	9.956 9640	36	912	
089	9.627 3920	162	9.670 4315	197	0.329 5685	9.956 9605	35	911	
		162		198			36		
.090	9.627 4082		9.670 4513		0.329 5487	9.956 9569		.910	
		162		197			35		
091	9.627 4244		9.670 4710		0.329 5290	9.956 9534		909	
092	9.627 4406	162	9.670 4907	197	0.329 5093	9.956 9499	35	908	
093	9.627 4568	162	9.670 5105	198	0.329 4895	9.956 9463	36	907	
		162		197			35		
094	9.627 4730		9.670 5302		0.329 4698	9.956 9428		906	
095	9.627 4892	162	9.670 5500	198	0.329 4500	9.956 9392	36	905	
096	9.627 5053	161	9.670 5697	197	0.329 4303	9.956 9357	35	904	
		162		197			36		
097	9.627 5215		9.670 5894		0.329 4106	9.956 9321		903	
098	9.627 5377	162	9.670 6092	198	0.329 3908	9.956 9286	35	902	
099	9.627 5539	162	9.670 6289	197	0.329 3711	9.956 9250	36	901	
		162		197			35		
.100	9.627 5701		9.670 6486		0.329 3514	9.956 9215		.900	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	198	197
1	19.8	19.7
2	39.6	39.4
3	59.4	59.1
4	79.2	78.8
5	99.0	98.5
6	118.8	118.2
7	138.6	137.9
8	158.4	157.6
9	178.2	177.3

	163	162
1	16.3	16.2
2	32.6	32.4
3	48.9	48.6
4	65.2	64.8
5	81.5	81.0
6	97.8	97.2
7	114.1	113.4
8	130.4	129.6
9	146.7	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	36	35
1	3.6	3.5
2	7.2	7.0
3	10.8	10.5
4	14.4	14.0
5	18.0	17.5
6	21.6	21.0
7	25.2	24.5
8	28.8	28.0
9	32.4	31.5

64°.950 — 64°.900

25°.100 — 25°.150

25°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.627 5701		9.670 6486		0.329 3514	9.956 9215		**.900**	
		162		198			36		
101	9.627 5863		9.670 6684		0.329 3316	9.956 9179		899	
102	9.627 6024	161	9.670 6881	197	0.329 3119	9.956 9143	36	898	
103	9.627 6186	162	9.670 7078	197	0.329 2922	9.956 9108	35	897	
		162		197			36		
104	9.627 6348		9.670 7275		0.329 2725	9.956 9072		896	
105	9.627 6510	162	9.670 7473	198	0.329 2527	9.956 9037	35	895	
106	9.627 6671	161	9.670 7670	197	0.329 2330	9.956 9001	36	894	
		162		197			35		
107	9.627 6833		9.670 7867		0.329 2133	9.956 8966		893	
108	9.627 6995	162	9.670 8065	198	0.329 1935	9.956 8930	36	892	
109	9.627 7157	162	9.670 8262	197	0.329 1738	9.956 8895	35	891	
		161		197			36		
.110	9.627 7318		9.670 8459		0.329 1541	9.956 8859		**.890**	
		162		197			35		
111	9.627 7480		9.670 8656		0.329 1344	9.956 8824		889	
112	9.627 7642	162	9.670 8854	198	0.329 1146	9.956 8788	36	888	
113	9.627 7804	162	9.670 9051	197	0.329 0949	9.956 8753	35	887	
		161		197			36		
114	9.627 7965		9.670 9248		0.329 0752	9.956 8717		886	
115	9.627 8127	162	9.670 9445	197	0.329 0555	9.956 8682	35	885	
116	9.627 8289	162	9.670 9643	198	0.329 0357	9.956 8646	36	884	
		161		197			35		
117	9.627 8450		9.670 9840		0.329 0160	9.956 8611		883	
118	9.627 8612	162	9.671 0037	197	0.328 9963	9.956 8575	36	882	
119	9.627 8774	162	9.671 0234	197	0.328 9766	9.956 8540	35	881	
		162		197			36		
.120	9.627 8936		9.671 0431		0.328 9569	9.956 8504		**.880**	
		161		198			35		
121	9.627 9097		9.671 0629		0.328 9371	9.956 8469		879	
122	9.627 9259	162	9.671 0826	197	0.328 9174	9.956 8433	36	878	
123	9.627 9420	161	9.671 1023	197	0.328 8977	9.956 8397	36	877	
		162		197			35		
124	9.627 9582		9.671 1220		0.328 8780	9.956 8362		876	
125	9.627 9744	162	9.671 1417	197	0.328 8583	9.956 8326	36	875	
126	9.627 9905	161	9.671 1615	198	0.328 8385	9.956 8291	35	874	
		162		197			36		
127	9.628 0067		9.671 1812		0.328 8188	9.956 8255		873	
128	9.628 0229	162	9.671 2009	197	0.328 7991	9.956 8220	35	872	
129	9.628 0390	161	9.671 2206	197	0.328 7794	9.956 8184	36	871	
		162		197			35		
.130	9.628 0552		9.671 2403		0.328 7597	9.956 8149		**.870**	
		161		197			36		
131	9.628 0713		9.671 2600		0.328 7400	9.956 8113		869	
132	9.628 0875	162	9.671 2798	198	0.328 7202	9.956 8077	36	868	
133	9.628 1037	162	9.671 2995	197	0.328 7005	9.956 8042	35	867	
		161		197			36		
134	9.628 1198		9.671 3192		0.328 6808	9.956 8006		866	
135	9.628 1360	162	9.671 3389	197	0.328 6611	9.956 7971	35	865	
136	9.628 1521	161	9.671 3586	197	0.328 6414	9.956 7935	36	864	
		162		197			35		
137	9.628 1683		9.671 3783		0.328 6217	9.956 7900		863	
138	9.628 1844	161	9.671 3980	197	0.328 6020	9.956 7864	36	862	
139	9.628 2006	162	9.671 4177	197	0.328 5823	9.956 7829	35	861	
		161		197			36		
.140	9.628 2167		9.671 4374		0.328 5626	9.956 7793		**.860**	
		162		198			36		
141	9.628 2329		9.671 4572		0.328 5428	9.956 7757		859	
142	9.628 2490	161	9.671 4769	197	0.328 5231	9.956 7722	35	858	
143	9.628 2652	162	9.671 4966	197	0.328 5034	9.956 7686	36	857	
		161		197			35		
144	9.628 2813		9.671 5163		0.328 4837	9.956 7651		856	
145	9.628 2975	162	9.671 5360	197	0.328 4640	9.956 7615	36	855	
146	9.628 3136	161	9.671 5557	197	0.328 4443	9.956 7579	36	854	
		162		197			35		
147	9.628 3298		9.671 5754		0.328 4246	9.956 7544		853	
148	9.628 3459	161	9.671 5951	197	0.328 4049	9.956 7508	36	852	
149	9.628 3621	162	9.671 6148	197	0.328 3852	9.956 7473	35	851	
		161		197			36		
.150	9.628 3782		9.671 6345		0.328 3655	9.956 7437		**.850**	
	cos	d	cotg	d	tang	sin	d	**64°**	P.P.

	198	197
1	19.8	19.7
2	39.6	39.4
3	59.4	59.1
4	79.2	78.8
5	99.0	98.5
6	118.8	118.2
7	138.6	137.9
8	158.4	157.6
9	178.2	177.3

	162	161
1	16.2	16.1
2	32.4	32.2
3	48.6	48.3
4	64.8	64.4
5	81.0	80.5
6	97.2	96.6
7	113.4	112.7
8	129.6	128.8
9	145.8	144.9

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

64°.900 — 64°.850

25°.150 — 25°.200

25°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.628 3782		9.671 6345		0.328 3655	9.956 7437		.850	
		162		197			35		
151	9.628 3944		9.671 6542		0.328 3458	9.956 7402		849	
152	9.628 4105	161	9.671 6739	197	0.328 3261	9.956 7366	36	848	
153	9.628 4267	162	9.671 6936	197	0.328 3064	9.956 7330	36	847	
		161		197			35		
154	9.628 4428		9.671 7133		0.328 2867	9.956 7295		846	
155	9.628 4589	161	9.671 7330	197	0.328 2670	9.956 7259	36	845	
156	9.628 4751	162	9.671 7527	197	0.328 2473	9.956 7224	35	844	
		161		197			36		
157	9.628 4912		9.671 7724		0.328 2276	9.956 7188		843	
158	9.628 5074	162	9.671 7921	197	0.328 2079	9.956 7152	36	842	
159	9.628 5235	161	9.671 8118	197	0.328 1882	9.956 7117	35	841	
		161		197			36		
.160	9.628 5396		9.671 8315		0.328 1685	9.956 7081		.840	
		162		197			35		
161	9.628 5558		9.671 8512		0.328 1488	9.956 7046		839	
162	9.628 5719	161	9.671 8709	197	0.328 1291	9.956 7010	36	838	
163	9.628 5880	161	9.671 8906	197	0.328 1094	9.956 6974	36	837	
		162		197			35		
164	9.628 6042		9.671 9103		0.328 0897	9.956 6939		836	
165	9.628 6203	161	9.671 9300	197	0.328 0700	9.956 6903	36	835	
166	9.628 6364	161	9.671 9497	197	0.328 0503	9.956 6868	35	834	
		162		197			36		
167	9.628 6526		9.671 9694		0.328 0306	9.956 6832		833	
168	9.628 6687	161	9.671 9891	197	0.328 0109	9.956 6796	36	832	
169	9.628 6848	161	9.672 0088	197	0.327 9912	9.956 6761	35	831	
		162		197			36		
.170	9.628 7010		9.672 0285		0.327 9715	9.956 6725		.830	
		161		196			36		
171	9.628 7171		9.672 0481		0.327 9519	9.956 6689		829	
172	9.628 7332	161	9.672 0678	197	0.327 9322	9.956 6654	35	828	
173	9.628 7494	162	9.672 0875	197	0.327 9125	9.956 6618	36	827	
		161		197			35		
174	9.628 7655		9.672 1072		0.327 8928	9.956 6583		826	
175	9.628 7816	161	9.672 1269	197	0.327 8731	9.956 6547	36	825	
176	9.628 7977	161	9.672 1466	197	0.327 8534	9.956 6511	36	824	
		162		197			35		
177	9.628 8139		9.672 1663		0.327 8337	9.956 6476		823	
178	9.628 8300	161	9.672 1860	197	0.327 8140	9.956 6440	36	822	
179	9.628 8461	161	9.672 2057	197	0.327 7943	9.956 6404	36	821	
		161		196			35		
.180	9.628 8622		9.672 2253		0.327 7747	9.956 6369		.820	
		162		197			36		
181	9.628 8784		9.672 2450		0.327 7550	9.956 6333		819	
182	9.628 8945	161	9.672 2647	197	0.327 7353	9.956 6298	35	818	
183	9.628 9106	161	9.672 2844	197	0.327 7156	9.956 6262	36	817	
		161		197			36		
184	9.628 9267		9.672 3041		0.327 6959	9.956 6226		816	
185	9.628 9428	161	9.672 3238	197	0.327 6762	9.956 6191	35	815	
186	9.628 9590	162	9.672 3435	197	0.327 6565	9.956 6155	36	814	
		161		196			36		
187	9.628 9751		9.672 3631		0.327 6369	9.956 6119		813	
188	9.628 9912	161	9.672 3828	197	0.327 6172	9.956 6084	35	812	
189	9.629 0073	161	9.672 4025	197	0.327 5975	9.956 6048	36	811	
		161		197			36		
.190	9.629 0234		9.672 4222		0.327 5778	9.956 6012		.810	
		161		197			35		
191	9.629 0395		9.672 4419		0.327 5581	9.956 5977		809	
192	9.629 0556	161	9.672 4615	196	0.327 5385	9.956 5941	36	808	
193	9.629 0718	162	9.672 4812	197	0.327 5188	9.956 5905	36	807	
		161		197			35		
194	9.629 0879		9.672 5009		0.327 4991	9.956 5870		806	
195	9.629 1040	161	9.672 5206	197	0.327 4794	9.956 5834	36	805	
196	9.629 1201	161	9.672 5403	197	0.327 4597	9.956 5798	36	804	
		161		196			35		
197	9.629 1362		9.672 5599		0.327 4401	9.956 5763		803	
198	9.629 1523	161	9.672 5796	197	0.327 4204	9.956 5727	36	802	
199	9.629 1684	161	9.672 5993	197	0.327 4007	9.956 5691	36	801	
		161		197			35		
.200	9.629 1845		9.672 6190		0.327 3810	9.956 5656		.800	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	197	196
1	19.7	19.6
2	39.4	39.2
3	59.1	58.8
4	78.8	78.4
5	98.5	98.0
6	118.2	117.6
7	137.9	137.2
8	157.6	156.8
9	177.3	176.4

	162	161
1	16.2	16.1
2	32.4	32.2
3	48.6	48.3
4	64.8	64.4
5	81.0	80.5
6	97.2	96.6
7	113.4	112.7
8	129.6	128.8
9	145.8	144.9

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

64°.850 — 64°.800

25°.200 — 25°.250

25°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.629 1845		9.672 6190		0.327 3810	9.956 5656		.800	
		161		196			36		
201	9.629 2006		9.672 6386		0.327 3614	9.956 5620		799	
202	9.629 2167	161	9.672 6583	197	0.327 3417	9.956 5584	36	798	
203	9.629 2329	162	9.672 6780	197	0.327 3220	9.956 5549	35	797	
		161		197			36		
204	9.629 2490		9.672 6977		0.327 3023	9.956 5513		796	
205	9.629 2651	161	9.672 7173	196	0.327 2827	9.956 5477	36	795	
206	9.629 2812	161	9.672 7370	197	0.327 2630	9.956 5442	35	794	
		161		197			36		
207	9.629 2973		9.672 7567		0.327 2433	9.956 5406		793	
208	9.629 3134	161	9.672 7763	196	0.327 2237	9.956 5370	36	792	
209	9.629 3295	161	9.672 7960	197	0.327 2040	9.956 5335	35	791	
		161		197			36		
.210	9.629 3456		9.672 8157		0.327 1843	9.956 5299		.790	
		161		196			36		
211	9.629 3617		9.672 8353		0.327 1647	9.956 5263		789	
212	9.629 3778	161	9.672 8550	197	0.327 1450	9.956 5228	35	788	
213	9.629 3939	161	9.672 8747	197	0.327 1253	9.956 5192	36	787	
		161		197			36		
214	9.629 4100		9.672 8944		0.327 1056	9.956 5156		786	
215	9.629 4261	161	9.672 9140	196	0.327 0860	9.956 5121	35	785	
216	9.629 4422	161	9.672 9337	197	0.327 0663	9.956 5085	36	784	
		161		196			36		
217	9.629 4583		9.672 9533		0.327 0467	9.956 5049		783	
218	9.629 4744	161	9.672 9730	197	0.327 0270	9.956 5013	36	782	
219	9.629 4905	161	9.672 9927	197	0.327 0073	9.956 4978	35	781	
		160		196			36		
.220	9.629 5065		9.673 0123		0.326 9877	9.956 4942		.780	
		161		197			36		
221	9.629 5226		9.673 0320		0.326 9680	9.956 4906		779	
222	9.629 5387	161	9.673 0517	197	0.326 9483	9.956 4871	35	778	
223	9.629 5548	161	9.673 0713	196	0.326 9287	9.956 4835	36	777	
		161		197			36		
224	9.629 5709		9.673 0910		0.326 9090	9.956 4799		776	
225	9.629 5870	161	9.673 1107	197	0.326 8893	9.956 4764	35	775	
226	9.629 6031	161	9.673 1303	196	0.326 8697	9.956 4728	36	774	
		161		197			36		
227	9.629 6192		9.673 1500		0.326 8500	9.956 4692		773	
228	9.629 6353	161	9.673 1696	196	0.326 8304	9.956 4656	36	772	
229	9.629 6514	161	9.673 1893	197	0.326 8107	9.956 4621	35	771	
		160		196			36		
.230	9.629 6674		9.673 2089		0.326 7911	9.956 4585		.770	
		161		197			36		
231	9.629 6835		9.673 2286		0.326 7714	9.956 4549		769	
232	9.629 6996	161	9.673 2483	197	0.326 7517	9.956 4514	35	768	
233	9.629 7157	161	9.673 2679	196	0.326 7321	9.956 4478	36	767	
		161		197			36		
234	9.629 7318		9.673 2876		0.326 7124	9.956 4442		766	
235	9.629 7479	161	9.673 3072	196	0.326 6928	9.956 4406	36	765	
236	9.629 7640	161	9.673 3269	197	0.326 6731	9.956 4371	35	764	
		160		196			36		
237	9.629 7800		9.673 3465		0.326 6535	9.956 4335		763	
238	9.629 7961	161	9.673 3662	197	0.326 6338	9.956 4299	36	762	
239	9.629 8122	161	9.673 3858	196	0.326 6142	9.956 4263	36	761	
		161		197			35		
.240	9.629 8283		9.673 4055		0.326 5945	9.956 4228		.760	
		161		197			36		
241	9.629 8444		9.673 4252		0.326 5748	9.956 4192		759	
242	9.629 8604	160	9.673 4448	196	0.326 5552	9.956 4156	36	758	
243	9.629 8765	161	9.673 4645	197	0.326 5355	9.956 4121	35	757	
		161		196			36		
244	9.629 8926		9.673 4841		0.326 5159	9.956 4085		756	
245	9.629 9087	161	9.673 5038	197	0.326 4962	9.956 4049	36	755	
246	9.629 9247	160	9.673 5234	196	0.326 4766	9.956 4013	36	754	
		161		197			35		
247	9.629 9408		9.673 5431		0.326 4569	9.956 3978		753	
248	9.629 9569	161	9.673 5627	196	0.326 4373	9.956 3942	36	752	
249	9.629 9730	161	9.673 5823	196	0.326 4177	9.956 3906	36	751	
		160		197			36		
.250	9.629 9890		9.673 6020		0.326 3980	9.956 3870		.750	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	197	196
1	19.7	19.6
2	39.4	39.2
3	59.1	58.8
4	78.8	78.4
5	98.5	98.0
6	118.2	117.6
7	137.9	137.2
8	157.6	156.8
9	177.3	176.4

	162	161
1	16.2	16.1
2	32.4	32.2
3	48.6	48.3
4	64.8	64.4
5	81.0	80.5
6	97.2	96.6
7	113.4	112.7
8	129.6	128.8
9	145.8	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	36	35
1	3.6	3.5
2	7.2	7.0
3	10.8	10.5
4	14.4	14.0
5	18.0	17.5
6	21.6	21.0
7	25.2	24.5
8	28.8	28.0
9	32.4	31.5

64°.800 — 64°.750

$25^\circ.250$ — $25^\circ.300$

25°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.629 9890		9.673 6020		0.326 3980	9.956 3870		**.750**	
		161		196			35		
251	9.630 0051		9.673 6216		0.326 3784	9.956 3835		749	
252	9.630 0212	161	9.673 6413	197	0.326 3587	9.956 3799	36	748	
253	9.630 0372	160	9.673 6609	196	0.326 3391	9.956 3763	36	747	
		161		197			36		
254	9.630 0533		9.673 6806		0.326 3194	9.956 3727		746	
255	9.630 0694	161	9.673 7002	196	0.326 2998	9.956 3692	35	745	
256	9.630 0854	160	9.673 7199	197	0.326 2801	9.956 3656	36	744	
		161		196			36		
257	9.630 1015		9.673 7395		0.326 2605	9.956 3620		743	
258	9.630 1176	161	9.673 7591	196	0.326 2409	9.956 3584	36	742	
259	9.630 1336	160	9.673 7788	197	0.326 2212	9.956 3549	35	741	
		161		196			36		
.260	9.630 1497		9.673 7984		0.326 2016	9.956 3513		**.740**	
		161		197			36		
261	9.630 1658		9.673 8181		0.326 1819	9.956 3477		739	
262	9.630 1818	160	9.673 8377	196	0.326 1623	9.956 3441	36	738	
263	9.630 1979	161	9.673 8573	196	0.326 1427	9.956 3405	36	737	
		161		197			35		
264	9.630 2140		9.673 8770		0.326 1230	9.956 3370		736	
265	9.630 2300	160	9.673 8966	196	0.326 1034	9.956 3334	36	735	
266	9.630 2461	161	9.673 9163	197	0.326 0837	9.956 3298	36	734	
		160		196			36		
267	9.630 2621		9.673 9359		0.326 0641	9.956 3262		733	
268	9.630 2782	161	9.673 9555	196	0.326 0445	9.956 3227	35	732	
269	9.630 2943	161	9.673 9752	197	0.326 0248	9.956 3191	36	731	
		160		196			36		
.270	9.630 3103		9.673 9948		0.326 0052	9.956 3155		**.730**	
		161		196			36		
271	9.630 3264		9.674 0144		0.325 9856	9.956 3119		729	
272	9.630 3424	160	9.674 0341	197	0.325 9659	9.956 3083	36	728	
273	9.630 3585	161	9.674 0537	196	0.325 9463	9.956 3048	35	727	
		160		196			36		
274	9.630 3745		9.674 0733		0.325 9267	9.956 3012		726	
275	9.630 3906	161	9.674 0930	197	0.325 9070	9.956 2976	36	725	
276	9.630 4066	160	9.674 1126	196	0.325 8874	9.956 2940	36	724	
		161		196			35		
277	9.630 4227		9.674 1322		0.325 8678	9.956 2905		723	
278	9.630 4387	160	9.674 1519	197	0.325 8481	9.956 2869	36	722	
279	9.630 4548	161	9.674 1715	196	0.325 8285	9.956 2833	36	721	
		160		196			36		
.280	9.630 4708		9.674 1911		0.325 8089	9.956 2797		**.720**	
		161		197			36		
281	9.630 4869		9.674 2108		0.325 7892	9.956 2761		719	
282	9.630 5029	160	9.674 2304	196	0.325 7696	9.956 2726	35	718	
283	9.630 5190	161	9.674 2500	196	0.325 7500	9.956 2690	36	717	
		160		196			36		
284	9.630 5350		9.674 2696		0.325 7304	9.956 2654		716	
285	9.630 5511	161	9.674 2893	197	0.325 7107	9.956 2618	36	715	
286	9.630 5671	160	9.674 3089	196	0.325 6911	9.956 2582	36	714	
		161		196			35		
287	9.630 5832		9.674 3285		0.325 6715	9.956 2547		713	
288	9.630 5992	160	9.674 3482	197	0.325 6518	9.956 2511	36	712	
289	9.630 6153	161	9.674 3678	196	0.325 6322	9.956 2475	36	711	
		160		196			36		
.290	9.630 6313		9.674 3874		0.325 6126	9.956 2439		**.710**	
		161		196			36		
291	9.630 6474		9.674 4070		0.325 5930	9.956 2403		709	
292	9.630 6634	160	9.674 4266	196	0.325 5734	9.956 2367	36	708	
293	9.630 6794	160	9.674 4463	197	0.325 5537	9.956 2332	35	707	
		161		196			36		
294	9.630 6955		9.674 4659		0.325 5341	9.956 2296		706	
295	9.630 7115	160	9.674 4855	196	0.325 5145	9.956 2260	36	705	
296	9.630 7276	161	9.674 5051	196	0.325 4949	9.956 2224	36	704	
		160		197			36		
297	9.630 7436		9.674 5248		0.325 4752	9.956 2188		703	
298	9.630 7596	160	9.674 5444	196	0.325 4556	9.956 2153	35	702	
299	9.630 7757	161	9.674 5640	196	0.325 4360	9.956 2117	36	701	
		160		196			36		
.300	9.630 7917		9.674 5836		0.325 4164	9.956 2081		**.700**	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	197	196
1	19.7	19.6
2	39.4	39.2
3	59.1	58.8
4	78.8	78.4
5	98.5	98.0
6	118.2	117.6
7	137.9	137.2
8	157.6	156.8
9	177.3	176.4

	161	160
1	16.1	16.0
2	32.2	32.0
3	48.3	48.0
4	64.4	64.0
5	80.5	80.0
6	96.6	96.0
7	112.7	112.0
8	128.8	128.0
9	144.9	144.0

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

$64^\circ.750$ — $64^\circ.700$

25°.300 — 25°.350

25°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.630 7917		9.674 5836		0.325 4164	9.956 2081		.700	
		160		196			36		
301	9.630 8077		9.674 6032		0.325 3968	9.956 2045		699	
302	9.630 8238	161	9.674 6228	196	0.325 3772	9.956 2009	36	698	
303	9.630 8398	160	9.674 6425	197	0.325 3575	9.956 1973	36	697	
		160		196			36		
304	9.630 8558		9.674 6621		0.325 3379	9.956 1938	35	696	
305	9.630 8719	161	9.674 6817	196	0.325 3183	9.956 1902	36	695	
306	9.630 8879	160	9.674 7013	196	0.325 2987	9.956 1866	36	694	
		160		196			36		
307	9.630 9039		9.674 7209		0.325 2791	9.956 1830	36	693	
308	9.630 9200	161	9.674 7405	196	0.325 2595	9.956 1794	36	692	
309	9.630 9360	160	9.674 7602	197	0.325 2398	9.956 1758	36	691	
		160		196			36		
.310	9.630 9520		9.674 7798		0.325 2202	9.956 1722		.690	
		160		196			35		
311	9.630 9680		9.674 7994		0.325 2006	9.956 1687	36	689	
312	9.630 9841	161	9.674 8190	196	0.325 1810	9.956 1651	36	688	
313	9.631 0001	160	9.674 8386	196	0.325 1614	9.956 1615	36	687	
		160		196			36		
314	9.631 0161		9.674 8582		0.325 1418	9.956 1579	36	686	
315	9.631 0321	160	9.674 8778	196	0.325 1222	9.956 1543	36	685	
316	9.631 0482	161	9.674 8974	196	0.325 1026	9.956 1507	36	684	
		160		196			35		
317	9.631 0642		9.674 9170		0.325 0830	9.956 1472	36	683	
318	9.631 0802	160	9.674 9367	197	0.325 0633	9.956 1436	36	682	
319	9.631 0962	160	9.674 9563	196	0.325 0437	9.956 1400	36	681	
		161		196			36		
.320	9.631 1123		9.674 9759		0.325 0241	9.956 1364		.680	
		160		196			36		
321	9.631 1283		9.674 9955		0.325 0045	9.956 1328	36	679	
322	9.631 1443	160	9.675 0151	196	0.324 9849	9.956 1292	36	678	
323	9.631 1603	160	9.675 0347	196	0.324 9653	9.956 1256	36	677	
		160		196			36		
324	9.631 1763		9.675 0543		0.324 9457	9.956 1220	36	676	
325	9.631 1924	161	9.675 0739	196	0.324 9261	9.956 1185	35	675	
326	9.631 2084	160	9.675 0935	196	0.324 9065	9.956 1149	36	674	
		160		196			36		
327	9.631 2244		9.675 1131		0.324 8869	9.956 1113	36	673	
328	9.631 2404	160	9.675 1327	196	0.324 8673	9.956 1077	36	672	
329	9.631 2564	160	9.675 1523	196	0.324 8477	9.956 1041	36	671	
		160		196			36		
.330	9.631 2724		9.675 1719		0.324 8281	9.956 1005		.670	
		160		196			36		
331	9.631 2884		9.675 1915		0.324 8085	9.956 0969	36	669	
332	9.631 3045	161	9.675 2111	196	0.324 7889	9.956 0933	36	668	
333	9.631 3205	160	9.675 2307	196	0.324 7693	9.956 0898	35	667	
		160		196			36		
334	9.631 3365		9.675 2503		0.324 7497	9.956 0862	36	666	
335	9.631 3525	160	9.675 2699	196	0.324 7301	9.956 0826	36	665	
336	9.631 3685	160	9.675 2895	196	0.324 7105	9.956 0790	36	664	
		160		196			36		
337	9.631 3845		9.675 3091		0.324 6909	9.956 0754	36	663	
338	9.631 4005	160	9.675 3287	196	0.324 6713	9.956 0718	36	662	
339	9.631 4165	160	9.675 3483	196	0.324 6517	9.956 0682	36	661	
		160		196			36		
.340	9.631 4325		9.675 3679		0.324 6321	9.956 0646		.660	
		160		196			36		
341	9.631 4485		9.675 3875		0.324 6125	9.956 0610	36	659	
342	9.631 4645	160	9.675 4071	196	0.324 5929	9.956 0575	35	658	
343	9.631 4805	160	9.675 4267	196	0.324 5733	9.956 0539	36	657	
		161		196			36		
344	9.631 4966		9.675 4463		0.324 5537	9.956 0503	36	656	
345	9.631 5126	160	9.675 4659	196	0.324 5341	9.956 0467	36	655	
346	9.631 5286	160	9.675 4855	196	0.324 5145	9.956 0431	36	654	
		160		196			36		
347	9.631 5446		9.675 5051		0.324 4949	9.956 0395	36	653	
348	9.631 5606	160	9.675 5246	195	0.324 4754	9.956 0359	36	652	
349	9.631 5766	160	9.675 5442	196	0.324 4558	9.956 0323	36	651	
		160		196			36		
.350	9.631 5926		9.675 5638		0.324 4362	9.956 0287		.650	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	197	196
1	19.7	19.6
2	39.4	39.2
3	59.1	58.8
4	78.8	78.4
5	98.5	98.0
6	118.2	117.6
7	137.9	137.2
8	157.6	156.8
9	177.3	176.4

	195
1	19.5
2	39.0
3	58.5
4	78.0
5	97.5
6	117.0
7	136.5
8	156.0
9	175.5

	161	160
1	16.1	16.0
2	32.2	32.0
3	48.3	48.0
4	64.4	64.0
5	80.5	80.0
6	96.6	96.0
7	112.7	112.0
8	128.8	128.0
9	144.9	144.0

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

64°.700 — 64°.650

25°.350 — 25°.400

25°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.631 5926		9.675 5638		0.324 4362	9.956 0287		.650	
		160		196			36		
351	9.631 6086		9.675 5834		0.324 4166	9.956 0251		649	
352	9.631 6246	160	9.675 6030	196	0.324 3970	9.956 0216	35	648	
353	9.631 6406	160	9.675 6226	196	0.324 3774	9.956 0180	36	647	
		160		196			36		
354	9.631 6566		9.675 6422		0.324 3578	9.956 0144		646	
355	9.631 6725	159	9.675 6618	196	0.324 3382	9.956 0108	36	645	
356	9.631 6885	160	9.675 6814	196	0.324 3186	9.956 0072	36	644	
		160		195			36		
357	9.631 7045		9.675 7009		0.324 2991	9.956 0036		643	
358	9.631 7205	160	9.675 7205	196	0.324 2795	9.956 0000	36	642	
359	9.631 7365	160	9.675 7401	196	0.324 2599	9.955 9964	36	641	
		160		196			36		
.360	9.631 7525		9.675 7597		0.324 2403	9.955 9928		.640	
		160		196			36		
361	9.631 7685		9.675 7793		0.324 2207	9.955 9892		639	
362	9.631 7845	160	9.675 7989	196	0.324 2011	9.955 9856	36	638	
363	9.631 8005	160	9.675 8185	196	0.324 1815	9.955 9820	36	637	
		160		195			36		
364	9.631 8165		9.675 8380		0.324 1620	9.955 9784		636	
365	9.631 8325	160	9.675 8576	196	0.324 1424	9.955 9749	35	635	
366	9.631 8485	160	9.675 8772	196	0.324 1228	9.955 9713	36	634	
		159		196			36		
367	9.631 8644		9.675 8968		0.324 1032	9.955 9677		633	
368	9.631 8804	160	9.675 9164	196	0.324 0836	9.955 9641	36	632	
369	9.631 8964	160	9.675 9359	195	0.324 0641	9.955 9605	36	631	
		160		196			36		
.370	9.631 9124		9.675 9555		0.324 0445	9.955 9569		.630	
		160		196			36		
371	9.631 9284		9.675 9751		0.324 0249	9.955 9533		629	
372	9.631 9444	160	9.675 9947	196	0.324 0053	9.955 9497	36	628	
373	9.631 9604	160	9.676 0143	196	0.323 9857	9.955 9461	36	627	
		159		195			36		
374	9.631 9763		9.676 0338		0.323 9662	9.955 9425		626	
375	9.631 9923	160	9.676 0534	196	0.323 9466	9.955 9389	36	625	
376	9.632 0083	160	9.676 0730	196	0.323 9270	9.955 9353	36	624	
		160		196			36		
377	9.632 0243		9.676 0926		0.323 9074	9.955 9317		623	
378	9.632 0403	160	9.676 1121	195	0.323 8879	9.955 9281	36	622	
379	9.632 0562	159	9.676 1317	196	0.323 8683	9.955 9245	36	621	
		160		196			36		
.380	9.632 0722		9.676 1513		0.323 8487	9.955 9209		.620	
		160		196			36		
381	9.632 0882		9.676 1709		0.323 8291	9.955 9173		619	
382	9.632 1042	160	9.676 1904	195	0.323 8096	9.955 9137	36	618	
383	9.632 1201	159	9.676 2100	196	0.323 7900	9.955 9101	36	617	
		160		196			36		
384	9.632 1361		9.676 2296		0.323 7704	9.955 9065		616	
385	9.632 1521	160	9.676 2491	195	0.323 7509	9.955 9029	36	615	
386	9.632 1681	160	9.676 2687	196	0.323 7313	9.955 8994	35	614	
		159		196			36		
387	9.632 1840		9.676 2883		0.323 7117	9.955 8958		613	
388	9.632 2000	160	9.676 3079	196	0.323 6921	9.955 8922	36	612	
389	9.632 2160	160	9.676 3274	195	0.323 6726	9.955 8886	36	611	
		160		196			36		
.390	9.632 2320		9.676 3470		0.323 6530	9.955 8850		.610	
		159		196			36		
391	9.632 2479		9.676 3666		0.323 6334	9.955 8814		609	
392	9.632 2639	160	9.676 3861	195	0.323 6139	9.955 8778	36	608	
393	9.632 2799	160	9.676 4057	196	0.323 5943	9.955 8742	36	607	
		159		196			36		
394	9.632 2958		9.676 4253		0.323 5747	9.955 8706		606	
395	9.632 3118	160	9.676 4448	195	0.323 5552	9.955 8670	36	605	
396	9.632 3278	160	9.676 4644	196	0.323 5356	9.955 8634	36	604	
		159		196			36		
397	9.632 3437		9.676 4840		0.323 5160	9.955 8598		603	
398	9.632 3597	160	9.676 5035	195	0.323 4965	9.955 8562	36	602	
399	9.632 3757	160	9.676 5231	196	0.323 4769	9.955 8526	36	601	
		159		195			36		
.400	9.632 3916		9.676 5426		0.323 4574	9.955 8490		.600	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	196	195
1	19.6	19.5
2	39.2	39.0
3	58.8	58.5
4	78.4	78.0
5	98.0	97.5
6	117.6	117.0
7	137.2	136.5
8	156.8	156.0
9	176.4	175.5

	160	159
1	16.0	15.9
2	32.0	31.8
3	48.0	47.7
4	64.0	63.6
5	80.0	79.5
6	96.0	95.4
7	112.0	111.3
8	128.0	127.2
9	144.0	143.1

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

	35
1	3.5
2	7.0
3	10.5
4	14.0
5	17.5
6	21.0
7	24.5
8	28.0
9	31.5

64°.650 — 64°.600

25°.400 — 25°.450

25°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.632 3916		9.676 5426		0.323 4574	9.955 8490		.600	
		160		196			36		
401	9.632 4076		9.676 5622		0.323 4378	9.955 8454		599	
402	9.632 4235	159	9.676 5818	196	0.323 4182	9.955 8418	36	598	
403	9.632 4395	160	9.676 6013	195	0.323 3987	9.955 8382	36	597	
		160		196			36		
404	9.632 4555		9.676 6209		0.323 3791	9.955 8346		596	
405	9.632 4714	159	9.676 6404	195	0.323 3596	9.955 8310	36	595	
406	9.632 4874	160	9.676 6600	196	0.323 3400	9.955 8274	36	594	
		159		196			36		
407	9.632 5033		9.676 6796		0.323 3204	9.955 8238		593	
408	9.632 5193	160	9.676 6991	195	0.323 3009	9.955 8202	36	592	
409	9.632 5353	160	9.676 7187	196	0.323 2813	9.955 8166	36	591	
		159		195			36		
.410	9.632 5512		9.676 7382		0.323 2618	9.955 8130		.590	
		160		196			36		
411	9.632 5672		9.676 7578		0.323 2422	9.955 8094		589	
412	9.632 5831	159	9.676 7773	195	0.323 2227	9.955 8058	36	588	
413	9.632 5991	160	9.676 7969	196	0.323 2031	9.955 8022	36	587	
		159		196			36		
414	9.632 6150		9.676 8165		0.323 1835	9.955 7986		586	
415	9.632 6310	160	9.676 8360	195	0.323 1640	9.955 7950	36	585	
416	9.632 6469	159	9.676 8556	196	0.323 1444	9.955 7914	36	584	
		160		195			36		
417	9.632 6629		9.676 8751		0.323 1249	9.955 7878		583	
418	9.632 6788	159	9.676 8947	196	0.323 1053	9.955 7842	36	582	
419	9.632 6948	160	9.676 9142	195	0.323 0858	9.955 7806	36	581	
		159		196			36		
.420	9.632 7107		9.676 9338		0.323 0662	9.955 7770		.580	
		160		195			36		
421	9.632 7267		9.676 9533		0.323 0467	9.955 7734		579	
422	9.632 7426	159	9.676 9729	196	0.323 0271	9.955 7698	36	578	
423	9.632 7586	160	9.676 9924	195	0.323 0076	9.955 7662	36	577	
		159		196			36		
424	9.632 7745		9.677 0120		0.322 9880	9.955 7626		576	
425	9.632 7905	160	9.677 0315	195	0.322 9685	9.955 7589	37	575	
426	9.632 8064	159	9.677 0511	196	0.322 9489	9.955 7553	36	574	
		160		195			36		
427	9.632 8224		9.677 0706		0.322 9294	9.955 7517		573	
428	9.632 8383	159	9.677 0902	196	0.322 9098	9.955 7481	36	572	
429	9.632 8542	159	9.677 1097	195	0.322 8903	9.955 7445	36	571	
		160		196			36		
.430	9.632 8702		9.677 1293		0.322 8707	9.955 7409		.570	
		159		195			36		
431	9.632 8861		9.677 1488		0.322 8512	9.955 7373		569	
432	9.632 9021	160	9.677 1684	196	0.322 8316	9.955 7337	36	568	
433	9.632 9180	159	9.677 1879	195	0.322 8121	9.955 7301	36	567	
		160		195			36		
434	9.632 9340		9.677 2074		0.322 7926	9.955 7265		566	
435	9.632 9499	159	9.677 2270	196	0.322 7730	9.955 7229	36	565	
436	9.632 9658	159	9.677 2465	195	0.322 7535	9.955 7193	36	564	
		160		196			36		
437	9.632 9818		9.677 2661		0.322 7339	9.955 7157		563	
438	9.632 9977	159	9.677 2856	195	0.322 7144	9.955 7121	36	562	
439	9.633 0136	159	9.677 3052	196	0.322 6948	9.955 7085	36	561	
		160		195			36		
.440	9.633 0296		9.677 3247		0.322 6753	9.955 7049		.560	
		159		195			36		
441	9.633 0455		9.677 3442		0.322 6558	9.955 7013		559	
442	9.633 0614	159	9.677 3638	196	0.322 6362	9.955 6977	36	558	
443	9.633 0774	160	9.677 3833	195	0.322 6167	9.955 6941	36	557	
		159		195			36		
444	9.633 0933		9.677 4028		0.322 5972	9.955 6905		556	
445	9.633 1092	159	9.677 4224	196	0.322 5776	9.955 6869	36	555	
446	9.633 1252	160	9.677 4419	195	0.322 5581	9.955 6832	37	554	
		159		196			36		
447	9.633 1411		9.677 4615		0.322 5385	9.955 6796		553	
448	9.633 1570	159	9.677 4810	195	0.322 5190	9.955 6760	36	552	
449	9.633 1730	160	9.677 5005	195	0.322 4995	9.955 6724	36	551	
		159		196			36		
.450	9.633 1889		9.677 5201		0.322 4799	9.955 6688		.550	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	196	195
1	19.6	19.5
2	39.2	39.0
3	58.8	58.5
4	78.4	78.0
5	98.0	97.5
6	117.6	117.0
7	137.2	136.5
8	156.8	156.0
9	176.4	175.5

	160	159
1	16.0	15.9
2	32.0	31.8
3	48.0	47.7
4	64.0	63.6
5	80.0	79.5
6	96.0	95.4
7	112.0	111.3
8	128.0	127.2
9	144.0	143.1

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.600 — 64°.550

25°.450 — 25°.500

25°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.633 1889		9.677 5201		0.322 4799	9.955 6688		·550	
		159		195			36		
451	9.633 2048		9.677 5396		0.322 4604	9.955 6652		549	
452	9.633 2207	159	9.677 5591	195	0.322 4409	9.955 6616	36	548	
453	9.633 2367	160	9.677 5787	196	0.322 4213	9.955 6580	36	547	
		159		195			36		
454	9.633 2526		9.677 5982		0.322 4018	9.955 6544	36	546	
455	9.633 2685	159	9.677 6177	195	0.322 3823	9.955 6508	36	545	
456	9.633 2844	159	9.677 6373	196	0.322 3627	9.955 6472	36	544	
		160		195			36		
457	9.633 3004		9.677 6568		0.322 3432	9.955 6436	36	543	
458	9.633 3163	159	9.677 6763	195	0.322 3237	9.955 6400	36	542	
459	9.633 3322	159	9.677 6959	196	0.322 3041	9.955 6363	37	541	
		159		195			36		
·460	9.633 3481		9.677 7154		0.322 2846	9.955 6327		·540	
		159		195			36		
461	9.633 3640		9.677 7349		0.322 2651	9.955 6291		539	
462	9.633 3800	160	9.677 7544	195	0.322 2456	9.955 6255	36	538	
463	9.633 3959	159	9.677 7740	196	0.322 2260	9.955 6219	36	537	
		159		195			36		
464	9.633 4118		9.677 7935		0.322 2065	9.955 6183	36	536	
465	9.633 4277	159	9.677 8130	195	0.322 1870	9.955 6147	36	535	
466	9.633 4436	159	9.677 8325	195	0.322 1675	9.955 6111	36	534	
		159		196			36		
467	9.633 4595		9.677 8521		0.322 1479	9.955 6075	36	533	
468	9.633 4755	160	9.677 8716	195	0.322 1284	9.955 6039	36	532	
469	9.633 4914	159	9.677 8911	195	0.322 1089	9.955 6002	37	531	
		159		195			36		
·470	9.633 5073		9.677 9106		0.322 0894	9.955 5966		·530	
		159		196			36		
471	9.633 5232		9.677 9302		0.322 0698	9.955 5930		529	
472	9.633 5391	159	9.677 9497	195	0.322 0503	9.955 5894	36	528	
473	9.633 5550	159	9.677 9692	195	0.322 0308	9.955 5858	36	527	
		159		195			36		
474	9.633 5709		9.677 9887		0.322 0113	9.955 5822	36	526	
475	9.633 5868	159	9.678 0083	196	0.321 9917	9.955 5786	36	525	
476	9.633 6027	159	9.678 0278	195	0.321 9722	9.955 5750	36	524	
		160		195			36		
477	9.633 6187		9.678 0473		0.321 9527	9.955 5714	36	523	
478	9.633 6346	159	9.678 0668	195	0.321 9332	9.955 5677	37	522	
479	9.633 6505	159	9.678 0863	195	0.321 9137	9.955 5641	36	521	
		159		196			36		
·480	9.633 6664		9.678 1059		0.321 8941	9.955 5605		·520	
		159		195			36		
481	9.633 6823		9.678 1254		0.321 8746	9.955 5569		519	
482	9.633 6982	159	9.678 1449	195	0.321 8551	9.955 5533	36	518	
483	9.633 7141	159	9.678 1644	195	0.321 8356	9.955 5497	36	517	
		159		195			36		
484	9.633 7300		9.678 1839		0.321 8161	9.955 5461	36	516	
485	9.633 7459	159	9.678 2034	195	0.321 7966	9.955 5425	36	515	
486	9.633 7618	159	9.678 2230	196	0.321 7770	9.955 5388	37	514	
		159		195			36		
487	9.633 7777		9.678 2425		0.321 7575	9.955 5352	36	513	
488	9.633 7936	159	9.678 2620	195	0.321 7380	9.955 5316	36	512	
489	9.633 8095	159	9.678 2815	195	0.321 7185	9.955 5280	36	511	
		159		195			36		
·490	9.633 8254		9.678 3010		0.321 6990	9.955 5244		·510	
		159		195			36		
491	9.633 8413		9.678 3205		0.321 6795	9.955 5208		509	
492	9.633 8572	159	9.678 3400	195	0.321 6600	9.955 5172	36	508	
493	9.633 8731	159	9.678 3595	195	0.321 6405	9.955 5136	36	507	
		159		196			37		
494	9.633 8890		9.678 3791		0.321 6209	9.955 5099	36	506	
495	9.633 9049	159	9.678 3986	195	0.321 6014	9.955 5063	36	505	
496	9.633 9208	159	9.678 4181	195	0.321 5819	9.955 5027	36	504	
		159		195			36		
497	9.633 9367		9.678 4376		0.321 5624	9.955 4991	36	503	
498	9.633 9526	159	9.678 4571	195	0.321 5429	9.955 4955	36	502	
499	9.633 9685	159	9.678 4766	195	0.321 5234	9.955 4919	37	501	
		159		195					
·500	9.633 9844		9.678 4961		0.321 5039	9.955 4882		·500	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	196	195
1	19.6	19.5
2	39.2	39.0
3	58.8	58.5
4	78.4	78.0
5	98.0	97.5
6	117.6	117.0
7	137.2	136.5
8	156.8	156.0
9	176.4	175.5

	160	159
1	16.0	15.9
2	32.0	31.8
3	48.0	47.7
4	64.0	63.6
5	80.0	79.5
6	96.0	95.4
7	112.0	111.3
8	128.0	127.2
9	144.0	143.1

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.550 — 64°.500

25°.500 — 25°.550

25°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.633 9844		9.678 4961		0.321 5039	9.955 4882		.500	
		158		195			36		
501	9.634 0002		9.678 5156		0.321 4844	9.955 4846		499	
502	9.634 0161	159	9.678 5351	195	0.321 4649	9.955 4810	36	498	
503	9.634 0320	159	9.678 5546	195	0.321 4454	9.955 4774	36	497	
		159		195			36		
504	9.634 0479		9.678 5741		0.321 4259	9.955 4738		496	
505	9.634 0638	159	9.678 5936	195	0.321 4064	9.955 4702	36	495	
506	9.634 0797	159	9.678 6131	195	0.321 3869	9.955 4666	36	494	
		159		195			37		
507	9.634 0956		9.678 6326		0.321 3674	9.955 4629		493	
508	9.634 1115	159	9.678 6521	195	0.321 3479	9.955 4593	36	492	
509	9.634 1273	158	9.678 6716	195	0.321 3284	9.955 4557	36	491	
		159		195			36		
.510	9.634 1432		9.678 6911		0.321 3089	9.955 4521		.490	
		159		195			36		
511	9.634 1591		9.678 7106		0.321 2894	9.955 4485		489	
512	9.634 1750	159	9.678 7301	195	0.321 2699	9.955 4449	36	488	
513	9.634 1909	159	9.678 7496	195	0.321 2504	9.955 4412	37	487	
		159		195			36		
514	9.634 2068		9.678 7691		0.321 2309	9.955 4376		486	
515	9.634 2226	158	9.678 7886	195	0.321 2114	9.955 4340	36	485	
516	9.634 2385	159	9.678 8081	195	0.321 1919	9.955 4304	36	484	
		159		195			36		
517	9.634 2544		9.678 8276		0.321 1724	9.955 4268		483	
518	9.634 2703	159	9.678 8471	195	0.321 1529	9.955 4231	37	482	
519	9.634 2862	159	9.678 8666	195	0.321 1334	9.955 4195	36	481	
		158		195			36		
.520	9.634 3020		9.678 8861		0.321 1139	9.955 4159		.480	
		159		195			36		
521	9.634 3179		9.678 9056		0.321 0944	9.955 4123		479	
522	9.634 3338	159	9.678 9251	195	0.321 0749	9.955 4087	36	478	
523	9.634 3497	159	9.678 9446	195	0.321 0554	9.955 4051	36	477	
		158		195			37		
524	9.634 3655		9.678 9641		0.321 0359	9.955 4014		476	
525	9.634 3814	159	9.678 9836	195	0.321 0164	9.955 3978	36	475	
526	9.634 3973	159	9.679 0031	195	0.320 9969	9.955 3942	36	474	
		159		195			36		
527	9.634 4132		9.679 0226		0.320 9774	9.955 3906		473	
528	9.634 4290	158	9.679 0421	195	0.320 9579	9.955 3870	36	472	
529	9.634 4449	159	9.679 0616	195	0.320 9384	9.955 3833	37	471	
		159		195			36		
.530	9.634 4608		9.679 0811		0.320 9189	9.955 3797		.470	
		158		195			36		
531	9.634 4766		9.679 1006		0.320 8994	9.955 3761		469	
532	9.634 4925	159	9.679 1200	194	0.320 8800	9.955 3725	36	468	
533	9.634 5084	159	9.679 1395	195	0.320 8605	9.955 3689	36	467	
		158		195			37		
534	9.634 5242		9.679 1590		0.320 8410	9.955 3652		466	
535	9.634 5401	159	9.679 1785	195	0.320 8215	9.955 3616	36	465	
536	9.634 5560	159	9.679 1980	195	0.320 8020	9.955 3580	36	464	
		158		195			36		
537	9.634 5718		9.679 2175		0.320 7825	9.955 3544		463	
538	9.634 5877	159	9.679 2370	195	0.320 7630	9.955 3507	37	462	
539	9.634 6036	159	9.679 2565	195	0.320 7435	9.955 3471	36	461	
		158		194			36		
.540	9.634 6194		9.679 2759		0.320 7241	9.955 3435		.460	
		159		195			36		
541	9.634 6353		9.679 2954		0.320 7046	9.955 3399		459	
542	9.634 6512	159	9.679 3149	195	0.320 6851	9.955 3363	36	458	
543	9.634 6670	158	9.679 3344	195	0.320 6656	9.955 3326	37	457	
		159		195			36		
544	9.634 6829		9.679 3539		0.320 6461	9.955 3290		456	
545	9.634 6987	158	9.679 3734	195	0.320 6266	9.955 3254	36	455	
546	9.634 7146	159	9.679 3928	194	0.320 6072	9.955 3218	36	454	
		159		195			37		
547	9.634 7305		9.679 4123		0.320 5877	9.955 3181		453	
548	9.634 7463	158	9.679 4318	195	0.320 5682	9.955 3145	36	452	
549	9.634 7622	159	9.679 4513	195	0.320 5487	9.955 3109	36	451	
		158		195			36		
.550	9.634 7780		9.679 4708		0.320 5292	9.955 3073		.450	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	195	194
1	19.5	19.4
2	39.0	38.8
3	58.5	58.2
4	78.0	77.6
5	97.5	97.0
6	117.0	116.4
7	136.5	135.8
8	156.0	155.2
9	175.5	174.6

	159	158
1	15.9	15.8
2	31.8	31.6
3	47.7	47.4
4	63.6	63.2
5	79.5	79.0
6	95.4	94.8
7	111.3	110.6
8	127.2	126.4
9	143.1	142.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.500 — 64°.450

25°.550 — 25°.600

25°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.634 7780		9.679 4708		0.320 5292	9.955 3073		.450	
		159		194			36		
551	9.634 7939		9.679 4902		0.320 5098	9.955 3037		449	
552	9.634 8097	158	9.679 5097	195	0.320 4903	9.955 3000	37	448	
553	9.634 8256	159	9.679 5292	195	0.320 4708	9.955 2964	36	447	
		159		195			36		
554	9.634 8415		9.679 5487		0.320 4513	9.955 2928		446	
555	9.634 8573	158	9.679 5682	195	0.320 4318	9.955 2892	36	445	
556	9.634 8732	159	9.679 5876	194	0.320 4124	9.955 2855	37	444	
		158		195			36		
557	9.634 8890		9.679 6071		0.320 3929	9.955 2819		443	
558	9.634 9049	159	9.679 6266	195	0.320 3734	9.955 2783	36	442	
559	9.634 9207	158	9.679 6461	195	0.320 3539	9.955 2747	36	441	
		159		194			37		
.560	9.634 9366		9.679 6655		0.320 3345	9.955 2710		.440	
		158		195			36		
561	9.634 9524		9.679 6850		0.320 3150	9.955 2674		439	
562	9.634 9683	159	9.679 7045	195	0.320 2955	9.955 2638	36	438	
563	9.634 9841	158	9.679 7239	194	0.320 2761	9.955 2602	36	437	
		158		195			37		
564	9.634 9999		9.679 7434		0.320 2566	9.955 2565		436	
565	9.635 0158	159	9.679 7629	195	0.320 2371	9.955 2529	36	435	
566	9.635 0316	158	9.679 7824	195	0.320 2176	9.955 2493	36	434	
		159		194			36		
567	9.635 0475		9.679 8018		0.320 1982	9.955 2457		433	
568	9.635 0633	158	9.679 8213	195	0.320 1787	9.955 2420	37	432	
569	9.635 0792	159	9.679 8408	195	0.320 1592	9.955 2384	36	431	
		158		194			36		
.570	9.635 0950		9.679 8602		0.320 1398	9.955 2348		.430	
		159		195			37		
571	9.635 1109		9.679 8797		0.320 1203	9.955 2311		429	
572	9.635 1267	158	9.679 8992	195	0.320 1008	9.955 2275	36	428	
573	9.635 1425	158	9.679 9186	194	0.320 0814	9.955 2239	36	427	
		159		195			36		
574	9.635 1584		9.679 9381		0.320 0619	9.955 2203		426	
575	9.635 1742	158	9.679 9576	195	0.320 0424	9.955 2166	37	425	
576	9.635 1900	158	9.679 9770	194	0.320 0230	9.955 2130	36	424	
		159		195			36		
577	9.635 2059		9.679 9965		0.320 0035	9.955 2094		423	
578	9.635 2217	158	9.680 0160	195	0.319 9840	9.955 2058	36	422	
579	9.635 2376	159	9.680 0354	194	0.319 9646	9.955 2021	37	421	
		158		195			36		
.580	9.635 2534		9.680 0549		0.319 9451	9.955 1985		.420	
		158		195			36		
581	9.635 2692		9.680 0744		0.319 9256	9.955 1949		419	
582	9.635 2851	159	9.680 0938	194	0.319 9062	9.955 1912	37	418	
583	9.635 3009	158	9.680 1133	195	0.319 8867	9.955 1876	36	417	
		158		194			36		
584	9.635 3167		9.680 1327		0.319 8673	9.955 1840		416	
585	9.635 3326	159	9.680 1522	195	0.319 8478	9.955 1804	36	415	
586	9.635 3484	158	9.680 1717	195	0.319 8283	9.955 1767	37	414	
		158		194			36		
587	9.635 3642		9.680 1911		0.319 8089	9.955 1731		413	
588	9.635 3800	158	9.680 2106	195	0.319 7894	9.955 1695	36	412	
589	9.635 3959	159	9.680 2300	194	0.319 7700	9.955 1658	37	411	
		158		195			36		
.590	9.635 4117		9.680 2495		0.319 7505	9.955 1622		.410	
		158		195			36		
591	9.635 4275		9.680 2690		0.319 7310	9.955 1586		409	
592	9.635 4434	159	9.680 2884	194	0.319 7116	9.955 1549	37	408	
593	9.635 4592	158	9.680 3079	195	0.319 6921	9.955 1513	36	407	
		158		194			36		
594	9.635 4750		9.680 3273		0.319 6727	9.955 1477		406	
595	9.635 4908	158	9.680 3468	195	0.319 6532	9.955 1441	36	405	
596	9.635 5067	159	9.680 3662	194	0.319 6338	9.955 1404	37	404	
		158		195			36		
597	9.635 5225		9.680 3857		0.319 6143	9.955 1368		403	
598	9.635 5383	158	9.680 4051	194	0.319 5949	9.955 1332	36	402	
599	9.635 5541	158	9.680 4246	195	0.319 5754	9.955 1295	37	401	
		158		194			36		
.600	9.635 5699		9.680 4440		0.319 5560	9.955 1259		.400	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	195	194
1	19.5	19.4
2	39.0	38.8
3	58.5	58.2
4	78.0	77.6
5	97.5	97.0
6	117.0	116.4
7	136.5	135.8
8	156.0	155.2
9	175.5	174.6

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.450 — 64°.400

25°.600 — 25°.650

25°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.635 5699		9.680 4440		0.319 5560	9.955 1259		**.400**	
		159		195			36		
601	9.635 5858		9.680 4635		0.319 5365	9.955 1223		399	
602	9.635 6016	158	9.680 4830	195	0.319 5170	9.955 1186	37	398	
603	9.635 6174	158	9.680 5024	194	0.319 4976	9.955 1150	36	397	
		158		195			36		
604	9.635 6332		9.680 5219		0.319 4781	9.955 1114		396	
605	9.635 6490	158	9.680 5413	194	0.319 4587	9.955 1077	37	395	
606	9.635 6649	159	9.680 5608	195	0.319 4392	9.955 1041	36	394	
		158		194			36		
607	9.635 6807		9.680 5802		0.319 4198	9.955 1005		393	
608	9.635 6965	158	9.680 5996	194	0.319 4004	9.955 0968	37	392	
609	9.635 7123	158	9.680 6191	195	0.319 3809	9.955 0932	36	391	
		158		194			36		
.610	9.635 7281		9.680 6385		0.319 3615	9.955 0896		**.390**	
		158		195			37		
611	9.635 7439		9.680 6580		0.319 3420	9.955 0859		389	
612	9.635 7597	158	9.680 6774	194	0.319 3226	9.955 0823	36	388	
613	9.635 7755	158	9.680 6969	195	0.319 3031	9.955 0787	36	387	
		159		194			37		
614	9.635 7914		9.680 7163		0.319 2837	9.955 0750		386	
615	9.635 8072	158	9.680 7358	195	0.319 2642	9.955 0714	36	385	
616	9.635 8230	158	9.680 7552	194	0.319 2448	9.955 0678	36	384	
		158		195			37		
617	9.635 8388		9.680 7747		0.319 2253	9.955 0641		383	
618	9.635 8546	158	9.680 7941	194	0.319 2059	9.955 0605	36	382	
619	9.635 8704	158	9.680 8135	194	0.319 1865	9.955 0569	36	381	
		158		195			37		
.620	9.635 8862		9.680 8330		0.319 1670	9.955 0532		**.380**	
		158		194			36		
621	9.635 9020		9.680 8524		0.319 1476	9.955 0496		379	
622	9.635 9178	158	9.680 8719	195	0.319 1281	9.955 0460	36	378	
623	9.635 9336	158	9.680 8913	194	0.319 1087	9.955 0423	37	377	
		158		194			36		
624	9.635 9494		9.680 9107		0.319 0893	9.955 0387		376	
625	9.635 9652	158	9.680 9302	195	0.319 0698	9.955 0351	36	375	
626	9.635 9810	158	9.680 9496	194	0.319 0504	9.955 0314	37	374	
		158		195			36		
627	9.635 9968		9.680 9691		0.319 0309	9.955 0278		373	
628	9.636 0126	158	9.680 9885	194	0.319 0115	9.955 0241	37	372	
629	9.636 0284	158	9.681 0079	194	0.318 9921	9.955 0205	36	371	
		158		195			36		
.630	9.636 0442		9.681 0274		0.318 9726	9.955 0169		**.370**	
		158		194			37		
631	9.636 0600		9.681 0468		0.318 9532	9.955 0132		369	
632	9.636 0758	158	9.681 0662	194	0.318 9338	9.955 0096	36	368	
633	9.636 0916	158	9.681 0857	195	0.318 9143	9.955 0060	36	367	
		158		194			37		
634	9.636 1074		9.681 1051		0.318 8949	9.955 0023		366	
635	9.636 1232	158	9.681 1245	194	0.318 8755	9.954 9987	36	365	
636	9.636 1390	158	9.681 1440	195	0.318 8560	9.954 9950	37	364	
		158		194			36		
637	9.636 1548		9.681 1634		0.318 8366	9.954 9914		363	
638	9.636 1706	158	9.681 1828	194	0.318 8172	9.954 9878	36	362	
639	9.636 1864	158	9.681 2023	195	0.318 7977	9.954 9841	37	361	
		158		194			36		
.640	9.636 2022		9.681 2217		0.318 7783	9.954 9805		**.360**	
		158		194			36		
641	9.636 2180		9.681 2411		0.318 7589	9.954 9769		359	
642	9.636 2338	158	9.681 2606	195	0.318 7394	9.954 9732	37	358	
643	9.636 2496	158	9.681 2800	194	0.318 7200	9.954 9696	36	357	
		158		194			37		
644	9.636 2654		9.681 2994		0.318 7006	9.954 9659		356	
645	9.636 2811	157	9.681 3188	194	0.318 6812	9.954 9623	36	355	
646	9.636 2969	158	9.681 3383	195	0.318 6617	9.954 9587	36	354	
		158		194			37		
647	9.636 3127		9.681 3577		0.318 6423	9.954 9550		353	
648	9.636 3285	158	9.681 3771	194	0.318 6229	9.954 9514	36	352	
649	9.636 3443	158	9.681 3965	194	0.318 6035	9.954 9477	37	351	
		158		195			36		
.650	9.636 3601		9.681 4160		0.318 5840	9.954 9441		**.350**	
	cos	d	cotg	d	tang	sin	d	**64°**	P.P.

	195	194
1	19.5	19.4
2	39.0	38.8
3	58.5	58.2
4	78.0	77.6
5	97.5	97.0
6	117.0	116.4
7	136.5	135.8
8	156.0	155.2
9	175.5	174.6

	159	158
1	15.9	15.8
2	31.8	31.6
3	47.7	47.4
4	63.6	63.2
5	79.5	79.0
6	95.4	94.8
7	111.3	110.6
8	127.2	126.4
9	143.1	142.2

	157
1	15.7
2	31.4
3	47.1
4	62.8
5	78.5
6	94.2
7	109.9
8	125.6
9	141.3

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.400 — 64°.350

25°.650 — 25°.700

25°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.636 3601		9.681 4160		0.318 5840	9.954 9441		.350	
		158		194			36		
651	9.636 3759		9.681 4354		0.318 5646	9.954 9405		349	
652	9.636 3916	157	9.681 4548	194	0.318 5452	9.954 9368	37	348	
653	9.636 4074	158	9.681 4742	194	0.318 5258	9.954 9332	36	347	
		158		195			37		
654	9.636 4232		9.681 4937		0.318 5063	9.954 9295		346	
655	9.636 4390	158	9.681 5131	194	0.318 4869	9.954 9259	36	345	
656	9.636 4548	158	9.681 5325	194	0.318 4675	9.954 9223	36	344	
		158		194			37		
657	9.636 4706		9.681 5519		0.318 4481	9.954 9186		343	
658	9.636 4863	157	9.681 5714	195	0.318 4286	9.954 9150	36	342	
659	9.636 5021	158	9.681 5908	194	0.318 4092	9.954 9113	37	341	
		158		194			36		
.660	9.636 5179		9.681 6102		0.318 3898	9.954 9077		.340	
		158		194			36		
661	9.636 5337		9.681 6296		0.318 3704	9.954 9041		339	
662	9.636 5494	157	9.681 6490	194	0.318 3510	9.954 9004	37	338	
663	9.636 5652	158	9.681 6684	194	0.318 3316	9.954 8968	36	337	
		158		195			37		
664	9.636 5810		9.681 6879		0.318 3121	9.954 8931		336	
665	9.636 5968	158	9.681 7073	194	0.318 2927	9.954 8895	36	335	
666	9.636 6125	157	9.681 7267	194	0.318 2733	9.954 8859	36	334	
		158		194			37		
667	9.636 6283		9.681 7461		0.318 2539	9.954 8822		333	
668	9.636 6441	158	9.681 7655	194	0.318 2345	9.954 8786	36	332	
669	9.636 6599	158	9.681 7849	194	0.318 2151	9.954 8749	37	331	
		157		195			36		
.670	9.636 6756		9.681 8044		0.318 1956	9.954 8713		.330	
		158		194			37		
671	9.636 6914		9.681 8238		0.318 1762	9.954 8676		329	
672	9.636 7072	158	9.681 8432	194	0.318 1568	9.954 8640	36	328	
673	9.636 7229	157	9.681 8626	194	0.318 1374	9.954 8603	37	327	
		158		194			36		
674	9.636 7387		9.681 8820		0.318 1180	9.954 8567		326	
675	9.636 7545	158	9.681 9014	194	0.318 0986	9.954 8531	36	325	
676	9.636 7703	158	9.681 9208	194	0.318 0792	9.954 8494	37	324	
		157		194			36		
677	9.636 7860		9.681 9402		0.318 0598	9.954 8458		323	
678	9.636 8018	158	9.681 9597	195	0.318 0403	9.954 8421	37	322	
679	9.636 8175	157	9.681 9791	194	0.318 0209	9.954 8385	36	321	
		158		194			37		
.680	9.636 8333		9.681 9985		0.318 0015	9.954 8348		.320	
		158		194			36		
681	9.636 8491		9.682 0179		0.317 9821	9.954 8312		319	
682	9.636 8648	157	9.682 0373	194	0.317 9627	9.954 8276	36	318	
683	9.636 8806	158	9.682 0567	194	0.317 9433	9.954 8239	37	317	
		158		194			36		
684	9.636 8964		9.682 0761		0.317 9239	9.954 8203		316	
685	9.636 9121	157	9.682 0955	194	0.317 9045	9.954 8166	37	315	
686	9.636 9279	158	9.682 1149	194	0.317 8851	9.954 8130	36	314	
		157		194			37		
687	9.636 9436		9.682 1343		0.317 8657	9.954 8093		313	
688	9.636 9594	158	9.682 1537	194	0.317 8463	9.954 8057	36	312	
689	9.636 9752	158	9.682 1731	194	0.317 8269	9.954 8020	37	311	
		157		194			36		
.690	9.636 9909		9.682 1925		0.317 8075	9.954 7984		.310	
		158		194			37		
691	9.637 0067		9.682 2119		0.317 7881	9.954 7947		309	
692	9.637 0224	157	9.682 2313	194	0.317 7687	9.954 7911	36	308	
693	9.637 0382	158	9.682 2507	194	0.317 7493	9.954 7874	37	307	
		157		194			36		
694	9.637 0539		9.682 2701		0.317 7299	9.954 7838		306	
695	9.637 0697	158	9.682 2895	194	0.317 7105	9.954 7802	36	305	
696	9.637 0854	157	9.682 3089	194	0.317 6911	9.954 7765	37	304	
		158		194			36		
697	9.637 1012		9.682 3283		0.317 6717	9.954 7729		303	
698	9.637 1169	157	9.682 3477	194	0.317 6523	9.954 7692	37	302	
699	9.637 1327	158	9.682 3671	194	0.317 6329	9.954 7656	36	301	
		157		194			37		
.700	9.637 1484		9.682 3865		0.317 6135	9.954 7619		.300	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	195	194
1	19.5	19.4
2	39.0	38.8
3	58.5	58.2
4	78.0	77.6
5	97.5	97.0
6	117.0	116.4
7	136.5	135.8
8	156.0	155.2
9	175.5	174.6

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	157
1	15.7
2	31.4
3	47.1
4	62.8
5	78.5
6	94.2
7	109.9
8	125.6
9	141.3

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.350 — 64°.300

25°.700 — 25°.750

25°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.637 1484		9.682 3865		0.317 6135	9.954 7619		**.300**	
		158		194			36		
701	9.637 1642		9.682 4059		0.317 5941	9.954 7583		299	
702	9.637 1799	157	9.682 4253	194	0.317 5747	9.954 7546	37	298	
703	9.637 1957	158	9.682 4447	194	0.317 5553	9.954 7510	36	297	
		157		194			37		
704	9.637 2114		9.682 4641		0.317 5359	9.954 7473		296	
705	9.637 2272	158	9.682 4835	194	0.317 5165	9.954 7437	36	295	
706	9.637 2429	157	9.682 5029	194	0.317 4971	9.954 7400	37	294	
		158		194			36		
707	9.637 2587		9.682 5223		0.317 4777	9.954 7364		293	
708	9.637 2744	157	9.682 5417	194	0.317 4583	9.954 7327	37	292	
709	9.637 2902	158	9.682 5611	194	0.317 4389	9.954 7291	36	291	
		157		194			37		
.710	9.637 3059		9.682 5805		0.317 4195	9.954 7254		**.290**	
		158		194			36		
711	9.637 3217		9.682 5999		0.317 4001	9.954 7218		289	
712	9.637 3374	157	9.682 6193	194	0.317 3807	9.954 7181	37	288	
713	9.637 3531	157	9.682 6387	194	0.317 3613	9.954 7145	36	287	
		158		193			37		
714	9.637 3689		9.682 6580		0.317 3420	9.954 7108		286	
715	9.637 3846	157	9.682 6774	194	0.317 3226	9.954 7072	36	285	
716	9.637 4004	158	9.682 6968	194	0.317 3032	9.954 7035	37	284	
		157		194			36		
717	9.637 4161		9.682 7162		0.317 2838	9.954 6999		283	
718	9.637 4318	157	9.682 7356	194	0.317 2644	9.954 6962	37	282	
719	9.637 4476	158	9.682 7550	194	0.317 2450	9.954 6926	36	281	
		157		194			37		
.720	9.637 4633		9.682 7744		0.317 2256	9.954 6889		**.280**	
		157		194			36		
721	9.637 4790		9.682 7938		0.317 2062	9.954 6853		279	
722	9.637 4948	158	9.682 8132	194	0.317 1868	9.954 6816	37	278	
723	9.637 5105	157	9.682 8325	193	0.317 1675	9.954 6780	36	277	
		157		194			37		
724	9.637 5262		9.682 8519		0.317 1481	9.954 6743		276	
725	9.637 5420	158	9.682 8713	194	0.317 1287	9.954 6707	36	275	
726	9.637 5577	157	9.682 8907	194	0.317 1093	9.954 6670	37	274	
		157		194			36		
727	9.637 5734		9.682 9101		0.317 0899	9.954 6634		273	
728	9.637 5892	158	9.682 9295	194	0.317 0705	9.954 6597	37	272	
729	9.637 6049	157	9.682 9488	193	0.317 0512	9.954 6561	36	271	
		157		194			37		
.730	9.637 6206		9.682 9682		0.317 0318	9.954 6524		**.270**	
		158		194			36		
731	9.637 6364		9.682 9876		0.317 0124	9.954 6488		269	
732	9.637 6521	157	9.683 0070	194	0.316 9930	9.954 6451	37	268	
733	9.637 6678	157	9.683 0264	194	0.316 9736	9.954 6414	37	267	
		157		193			36		
734	9.637 6835		9.683 0457		0.316 9543	9.954 6378		266	
735	9.637 6993	158	9.683 0651	194	0.316 9349	9.954 6341	37	265	
736	9.637 7150	157	9.683 0845	194	0.316 9155	9.954 6305	36	264	
		157		194			37		
737	9.637 7307		9.683 1039		0.316 8961	9.954 6268		263	
738	9.637 7464	157	9.683 1233	194	0.316 8767	9.954 6232	36	262	
739	9.637 7622	158	9.683 1426	193	0.316 8574	9.954 6195	37	261	
		157		194			36		
.740	9.637 7779		9.683 1620		0.316 8380	9.954 6159		**.260**	
		157		194			37		
741	9.637 7936		9.683 1814		0.316 8186	9.954 6122		259	
742	9.637 8093	157	9.683 2008	194	0.316 7992	9.954 6086	36	258	
743	9.637 8250	157	9.683 2201	193	0.316 7799	9.954 6049	37	257	
		158		194			37		
744	9.637 8408		9.683 2395		0.316 7605	9.954 6012		256	
745	9.637 8565	157	9.683 2589	194	0.316 7411	9.954 5976	36	255	
746	9.637 8722	157	9.683 2783	194	0.316 7217	9.954 5939	37	254	
		157		193			36		
747	9.637 8879		9.683 2976		0.316 7024	9.954 5903		253	
748	9.637 9036	157	9.683 3170	194	0.316 6830	9.954 5866	37	252	
749	9.637 9193	157	9.683 3364	194	0.316 6636	9.954 5830	36	251	
		158		193			37		
.750	9.637 9351		9.683 3557		0.316 6443	9.954 5793		**.250**	
	cos	d	cotg	d	tang	sin	d	**64°**	P.P.

	194	193
1	19.4	19.3
2	38.8	38.6
3	58.2	57.9
4	77.6	77.2
5	97.0	96.5
6	116.4	115.8
7	135.8	135.1
8	155.2	154.4
9	174.6	173.7

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	157
1	15.7
2	31.4
3	47.1
4	62.8
5	78.5
6	94.2
7	109.9
8	125.6
9	141.3

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.300 — 64°.250

25°.750 — 25°.800

25°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.637 9351		9.683 3557		0.316 6443	9.954 5793		.250	
		157		194			36		
751	9.637 9508		9.683 3751		0.316 6249	9.954 5757		249	
752	9.637 9665	157	9.683 3945	194	0.316 6055	9.954 5720	37	248	
753	9.637 9822	157	9.683 4139	194	0.316 5861	9.954 5683	37	247	
		157		193			36		
754	9.637 9979		9.683 4332		0.316 5668	9.954 5647		246	
755	9.638 0136	157	9.683 4526	194	0.316 5474	9.954 5610	37	245	
756	9.638 0293	157	9.683 4720	194	0.316 5280	9.954 5574	36	244	
		157		193			37		
757	9.638 0450		9.683 4913		0.316 5087	9.954 5537		243	
758	9.638 0608	158	9.683 5107	194	0.316 4893	9.954 5501	36	242	
759	9.638 0765	157	9.683 5301	194	0.316 4699	9.954 5464	37	241	
		157		193			37		
.760	9.638 0922		9.683 5494		0.316 4506	9.954 5427		.240	
		157		194			36		
761	9.638 1079		9.683 5688		0.316 4312	9.954 5391		239	
762	9.638 1236	157	9.683 5882	194	0.316 4118	9.954 5354	37	238	
763	9.638 1393	157	9.683 6075	193	0.316 3925	9.954 5318	36	237	
		157		194			37		
764	9.638 1550		9.683 6269		0.316 3731	9.954 5281		236	
765	9.638 1707	157	9.683 6462	193	0.316 3538	9.954 5245	36	235	
766	9.638 1864	157	9.683 6656	194	0.316 3344	9.954 5208	37	234	
		157		194			37		
767	9.638 2021		9.683 6850		0.316 3150	9.954 5171		233	
768	9.638 2178	157	9.683 7043	193	0.316 2957	9.954 5135	36	232	
769	9.638 2335	157	9.683 7237	194	0.316 2763	9.954 5098	37	231	
		157		194			36		
.770	9.638 2492		9.683 7431		0.316 2569	9.954 5062		.230	
		157		193			37		
771	9.638 2649		9.683 7624		0.316 2376	9.954 5025		229	
772	9.638 2806	157	9.683 7818	194	0.316 2182	9.954 4988	37	228	
773	9.638 2963	157	9.683 8011	193	0.316 1989	9.954 4952	36	227	
		157		194			37		
774	9.638 3120		9.683 8205		0.316 1795	9.954 4915		226	
775	9.638 3277	157	9.683 8398	193	0.316 1602	9.954 4879	36	225	
776	9.638 3434	157	9.683 8592	194	0.316 1408	9.954 4842	37	224	
		157		194			37		
777	9.638 3591		9.683 8786		0.316 1214	9.954 4805		223	
778	9.638 3748	157	9.683 8979	193	0.316 1021	9.954 4769	36	222	
779	9.638 3905	157	9.683 9173	194	0.316 0827	9.954 4732	37	221	
		157		193			36		
.780	9.638 4062		9.683 9366		0.316 0634	9.954 4696		.220	
		157		194			37		
781	9.638 4219		9.683 9560		0.316 0440	9.954 4659		219	
782	9.638 4376	157	9.683 9753	193	0.316 0247	9.954 4622	37	218	
783	9.638 4533	157	9.683 9947	194	0.316 0053	9.954 4586	36	217	
		157		193			37		
784	9.638 4690		9.684 0140		0.315 9860	9.954 4549		216	
785	9.638 4846	156	9.684 0334	194	0.315 9666	9.954 4513	36	215	
786	9.638 5003	157	9.684 0527	193	0.315 9473	9.954 4476	37	214	
		157		194			37		
787	9.638 5160		9.684 0721		0.315 9279	9.954 4439		213	
788	9.638 5317	157	9.684 0914	193	0.315 9086	9.954 4403	36	212	
789	9.638 5474	157	9.684 1108	194	0.315 8892	9.954 4366	37	211	
		157		193			37		
.790	9.638 5631		9.684 1301		0.315 8699	9.954 4329		.210	
		157		194			36		
791	9.638 5788		9.684 1495		0.315 8505	9.954 4293		209	
792	9.638 5945	157	9.684 1688	193	0.315 8312	9.954 4256	37	208	
793	9.638 6101	156	9.684 1882	194	0.315 8118	9.954 4220	36	207	
		157		193			37		
794	9.638 6258		9.684 2075		0.315 7925	9.954 4183		206	
795	9.638 6415	157	9.684 2269	194	0.315 7731	9.954 4146	37	205	
796	9.638 6572	157	9.684 2462	193	0.315 7538	9.954 4110	36	204	
		157		194			37		
797	9.638 6729		9.684 2656		0.315 7344	9.954 4073		203	
798	9.638 6886	157	9.684 2849	193	0.315 7151	9.954 4036	37	202	
799	9.638 7042	156	9.684 3043	194	0.315 6957	9.954 4000	36	201	
		157		193			37		
.800	9.638 7199		9.684 3236		0.315 6764	9.954 3963		.200	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	194	193
1	19.4	19.3
2	38.8	38.6
3	58.2	57.9
4	77.6	77.2
5	97.0	96.5
6	116.4	115.8
7	135.8	135.1
8	155.2	154.4
9	174.6	173.7

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	156
1	15.6
2	31.2
3	46.8
4	62.4
5	78.0
6	93.6
7	109.2
8	124.8
9	140.4

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.250 — 64°.200

25°.800 — 25°.850

25°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.638 7199		9.684 3236		0.315 6764	9.954 3963		**.200**	
		157		194			37		
801	9.638 7356		9.684 3430		0.315 6570	9.954 3926		199	
802	9.638 7513	157	9.684 3623	193	0.315 6377	9.954 3890	36	198	
803	9.638 7670	157	9.684 3816	193	0.315 6184	9.954 3853	37	197	
		156		194			37		
804	9.638 7826		9.684 4010		0.315 5990	9.954 3816		196	
805	9.638 7983	157	9.684 4203	193	0.315 5797	9.954 3780	36	195	
806	9.638 8140	157	9.684 4397	194	0.315 5603	9.954 3743	37	194	
		157		193			36		
807	9.638 8297		9.684 4590		0.315 5410	9.954 3707		193	
808	9.638 8453	156	9.684 4783	193	0.315 5217	9.954 3670	37	192	
809	9.638 8610	157	9.684 4977	194	0.315 5023	9.954 3633	37	191	
		157		193			36		
.810	9.638 8767		9.684 5170		0.315 4830	9.954 3597		**.190**	
		157		194			37		
811	9.638 8924		9.684 5364		0.315 4636	9.954 3560		189	
812	9.638 9080	156	9.684 5557	193	0.315 4443	9.954 3523	37	188	
813	9.638 9237	157	9.684 5750	193	0.315 4250	9.954 3487	36	187	
		157		194			37		
814	9.638 9394		9.684 5944		0.315 4056	9.954 3450		186	
815	9.638 9550	156	9.684 6137	193	0.315 3863	9.954 3413	37	185	
816	9.638 9707	157	9.684 6331	194	0.315 3669	9.954 3377	36	184	
		157		193			37		
817	9.638 9864		9.684 6524		0.315 3476	9.954 3340		183	
818	9.639 0020	156	9.684 6717	193	0.315 3283	9.954 3303	37	182	
819	9.639 0177	157	9.684 6911	194	0.315 3089	9.954 3267	36	181	
		157		193			37		
.820	9.639 0334		9.684 7104		0.315 2896	9.954 3230		**.180**	
		156		193			37		
821	9.639 0490		9.684 7297		0.315 2703	9.954 3193		179	
822	9.639 0647	157	9.684 7491	194	0.315 2509	9.954 3157	36	178	
823	9.639 0804	157	9.684 7684	193	0.315 2316	9.954 3120	37	177	
		156		193			37		
824	9.639 0960		9.684 7877		0.315 2123	9.954 3083		176	
825	9.639 1117	157	9.684 8070	193	0.315 1930	9.954 3046	37	175	
826	9.639 1274	157	9.684 8264	194	0.315 1736	9.954 3010	36	174	
		156		193			37		
827	9.639 1430		9.684 8457		0.315 1543	9.954 2973		173	
828	9.639 1587	157	9.684 8650	193	0.315 1350	9.954 2936	37	172	
829	9.639 1743	156	9.684 8844	194	0.315 1156	9.954 2900	36	171	
		157		193			37		
.830	9.639 1900		9.684 9037		0.315 0963	9.954 2863		**.170**	
		157		193			37		
831	9.639 2057		9.684 9230		0.315 0770	9.954 2826		169	
832	9.639 2213	156	9.684 9423	193	0.315 0577	9.954 2790	36	168	
833	9.639 2370	157	9.684 9617	194	0.315 0383	9.954 2753	37	167	
		156		193			37		
834	9.639 2526		9.684 9810		0.315 0190	9.954 2716		166	
835	9.639 2683	157	9.685 0003	193	0.314 9997	9.954 2680	36	165	
836	9.639 2839	156	9.685 0197	194	0.314 9803	9.954 2643	37	164	
		157		193			37		
837	9.639 2996		9.685 0390		0.314 9610	9.954 2606		163	
838	9.639 3152	156	9.685 0583	193	0.314 9417	9.954 2569	37	162	
839	9.639 3309	157	9.685 0776	193	0.314 9224	9.954 2533	36	161	
		157		193			37		
.840	9.639 3466		9.685 0969		0.314 9031	9.954 2496		**.160**	
		156		194			37		
841	9.639 3622		9.685 1163		0.314 8837	9.954 2459		159	
842	9.639 3779	157	9.685 1356	193	0.314 8644	9.954 2423	36	158	
843	9.639 3935	156	9.685 1549	193	0.314 8451	9.954 2386	37	157	
		157		193			37		
844	9.639 4092		9.685 1742		0.314 8258	9.954 2349		156	
845	9.639 4248	156	9.685 1936	194	0.314 8064	9.954 2312	37	155	
846	9.639 4404	156	9.685 2129	193	0.314 7871	9.954 2276	36	154	
		157		193			37		
847	9.639 4561		9.685 2322		0.314 7678	9.954 2239		153	
848	9.639 4717	156	9.685 2515	193	0.314 7485	9.954 2202	37	152	
849	9.639 4874	157	9.685 2708	193	0.314 7292	9.954 2166	36	151	
		156		193			37		
.850	9.639 5030		9.685 2901		0.314 7099	9.954 2129		**.150**	
	cos	d	cotg	d	tang	sin	d	**64°**	P.P.

	194	193
1	19.4	19.3
2	38.8	38.6
3	58.2	57.9
4	77.6	77.2
5	97.0	96.5
6	116.4	115.8
7	135.8	135.1
8	155.2	154.4
9	174.6	173.7

	157
1	15.7
2	31.4
3	47.1
4	62.8
5	78.5
6	94.2
7	109.9
8	125.6
9	141.3

	156
1	15.6
2	31.2
3	46.8
4	62.4
5	78.0
6	93.6
7	109.2
8	124.8
9	140.4

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.200 — 64°.150

$25^\circ.850 - 25^\circ.900$

25°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.639 5030		9.685 2901		0.314 7099	9.954 2129		.150	
		157		194			37		
851	9.639 5187		9.685 3095		0.314 6905	9.954 2092		149	
852	9.639 5343	156	9.685 3288	193	0.314 6712	9.954 2055	37	148	
853	9.639 5500	157	9.685 3481	193	0.314 6519	9.954 2019	36	147	
		156		193			37		
854	9.639 5656		9.685 3674		0.314 6326	9.954 1982		146	
855	9.639 5812	156	9.685 3867	193	0.314 6133	9.954 1945	37	145	
856	9.639 5969	157	9.685 4060	193	0.314 5940	9.954 1909	36	144	
		156		194			37		
857	9.639 6125		9.685 4254		0.314 5746	9.954 1872		143	
858	9.639 6282	157	9.685 4447	193	0.314 5553	9.954 1835	37	142	
859	9.639 6438	156	9.685 4640	193	0.314 5360	9.954 1798	37	141	
		156		193			36		
.860	9.639 6594		9.685 4833		0.314 5167	9.954 1762		.140	
		157		193			37		
861	9.639 6751		9.685 5026		0.314 4974	9.954 1725		139	
862	9.639 6907	156	9.685 5219	193	0.314 4781	9.954 1688	37	138	
863	9.639 7064	157	9.685 5412	193	0.314 4588	9.954 1651	37	137	
		156		193			36		
864	9.639 7220		9.685 5605		0.314 4395	9.954 1615		136	
865	9.639 7376	156	9.685 5798	193	0.314 4202	9.954 1578	37	135	
866	9.639 7533	157	9.685 5992	194	0.314 4008	9.954 1541	37	134	
		156		193			37		
867	9.639 7689		9.685 6185		0.314 3815	9.954 1504		133	
868	9.639 7845	156	9.685 6378	193	0.314 3622	9.954 1468	36	132	
869	9.639 8002	157	9.685 6571	193	0.314 3429	9.954 1431	37	131	
		156		193			37		
.870	9.639 8158		9.685 6764		0.314 3236	9.954 1394		.130	
		156		193			37		
871	9.639 8314		9.685 6957		0.314 3043	9.954 1357		129	
872	9.639 8471	157	9.685 7150	193	0.314 2850	9.954 1321	36	128	
873	9.639 8627	156	9.685 7343	193	0.314 2657	9.954 1284	37	127	
		156		193			37		
874	9.639 8783		9.685 7536		0.314 2464	9.954 1247		126	
875	9.639 8939	156	9.685 7729	193	0.314 2271	9.954 1210	37	125	
876	9.639 9096	157	9.685 7922	193	0.314 2078	9.954 1174	36	124	
		156		193			37		
877	9.639 9252		9.685 8115		0.314 1885	9.954 1137		123	
878	9.639 9408	156	9.685 8308	193	0.314 1692	9.954 1100	37	122	
879	9.639 9564	156	9.685 8501	193	0.314 1499	9.954 1063	37	121	
		157		193			37		
.880	9.639 9721		9.685 8694		0.314 1306	9.954 1026		.120	
		156		193			36		
881	9.639 9877		9.685 8887		0.314 1113	9.954 0990		119	
882	9.640 0033	156	9.685 9080	193	0.314 0920	9.954 0953	37	118	
883	9.640 0189	156	9.685 9273	193	0.314 0727	9.954 0916	37	117	
		157		193			37		
884	9.640 0346		9.685 9466		0.314 0534	9.954 0879		116	
885	9.640 0502	156	9.685 9659	193	0.314 0341	9.954 0843	36	115	
886	9.640 0658	156	9.685 9852	193	0.314 0148	9.954 0806	37	114	
		156		193			37		
887	9.640 0814		9.686 0045		0.313 9955	9.954 0769		113	
888	9.640 0970	156	9.686 0238	193	0.313 9762	9.954 0732	37	112	
889	9.640 1127	157	9.686 0431	193	0.313 9569	9.954 0695	37	111	
		156		193			36		
.890	9.640 1283		9.686 0624		0.313 9376	9.954 0659		.110	
		156		193			37		
891	9.640 1439		9.686 0817		0.313 9183	9.954 0622		109	
892	9.640 1595	156	9.686 1010	193	0.313 8990	9.954 0585	37	108	
893	9.640 1751	156	9.686 1203	193	0.313 8797	9.954 0548	37	107	
		156		193			37		
894	9.640 1907		9.686 1396		0.313 8604	9.954 0511		106	
895	9.640 2063	156	9.686 1589	193	0.313 8411	9.954 0475	36	105	
896	9.640 2220	157	9.686 1782	193	0.313 8218	9.954 0438	37	104	
		156		193			37		
897	9.640 2376		9.686 1975		0.313 8025	9.954 0401		103	
898	9.640 2532	156	9.686 2168	193	0.313 7832	9.954 0364	37	102	
899	9.640 2688	156	9.686 2361	193	0.313 7639	9.954 0327	37	101	
		156		192			36		
.900	9.640 2844		9.686 2553		0.313 7447	9.954 0291		.100	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	194	193
1	19.4	19.3
2	38.8	38.6
3	58.2	57.9
4	77.6	77.2
5	97.0	96.5
6	116.4	115.8
7	135.8	135.1
8	155.2	154.4
9	174.6	173.7

	192
1	19.2
2	38.4
3	57.6
4	76.8
5	96.0
6	115.2
7	134.4
8	153.6
9	172.8

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

$64^\circ.150 - 64^\circ.100$

25°.900 — 25°.950

25°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.640 2844		9.686 2553		0.313 7447	9.954 0291		.100	
		156		193			37		
901	9.640 3000		9.686 2746		0.313 7254	9.954 0254		099	
902	9.640 3156	156	9.686 2939	193	0.313 7061	9.954 0217	37	098	
903	9.640 3312	156	9.686 3132	193	0.313 6868	9.954 0180	37	097	
		156		193			37		
904	9.640 3468		9.686 3325		0.313 6675	9.954 0143		096	
905	9.640 3624	156	9.686 3518	193	0.313 6482	9.954 0107	36	095	
906	9.640 3781	157	9.686 3711	193	0.313 6289	9.954 0070	37	094	
		156		193			37		
907	9.640 3937		9.686 3904		0.313 6096	9.954 0033		093	
908	9.640 4093	156	9.686 4097	193	0.313 5903	9.953 9996	37	092	
909	9.640 4249	156	9.686 4289	192	0.313 5711	9.953 9959	37	091	
		156		193			37		
.910	9.640 4405		9.686 4482		0.313 5518	9.953 9922		.090	
		156		193			36		
911	9.640 4561		9.686 4675		0.313 5325	9.953 9886		089	
912	9.640 4717	156	9.686 4868	193	0.313 5132	9.953 9849	37	088	
913	9.640 4873	156	9.686 5061	193	0.313 4939	9.953 9812	37	087	
		156		193			37		
914	9.640 5029		9.686 5254		0.313 4746	9.953 9775		086	
915	9.640 5185	156	9.686 5446	192	0.313 4554	9.953 9738	37	085	
916	9.640 5341	156	9.686 5639	193	0.313 4361	9.953 9702	36	084	
		156		193			37		
917	9.640 5497		9.686 5832		0.313 4168	9.953 9665		083	
918	9.640 5653	156	9.686 6025	193	0.313 3975	9.953 9628	37	082	
919	9.640 5809	156	9.686 6218	193	0.313 3782	9.953 9591	37	081	
		156		193			37		
.920	9.640 5965		9.686 6411		0.313 3589	9.953 9554		.080	
		156		192			37		
921	9.640 6121		9.686 6603		0.313 3397	9.953 9517		079	
922	9.640 6277	156	9.686 6796	193	0.313 3204	9.953 9481	36	078	
923	9.640 6433	156	9.686 6989	193	0.313 3011	9.953 9444	37	077	
		156		193			37		
924	9.640 6589		9.686 7182		0.313 2818	9.953 9407		076	
925	9.640 6744	155	9.686 7374	192	0.313 2626	9.953 9370	37	075	
926	9.640 6900	156	9.686 7567	193	0.313 2433	9.953 9333	37	074	
		156		193			37		
927	9.640 7056		9.686 7760		0.313 2240	9.953 9296		073	
928	9.640 7212	156	9.686 7953	193	0.313 2047	9.953 9259	37	072	
929	9.640 7368	156	9.686 8146	193	0.313 1854	9.953 9223	36	071	
		156		192			37		
.930	9.640 7524		9.686 8338		0.313 1662	9.953 9186		.070	
		156		193			37		
931	9.640 7680		9.686 8531		0.313 1469	9.953 9149		069	
932	9.640 7836	156	9.686 8724	193	0.313 1276	9.953 9112	37	068	
933	9.640 7992	156	9.686 8916	192	0.313 1084	9.953 9075	37	067	
		156		193			37		
934	9.640 8148		9.686 9109		0.313 0891	9.953 9038		066	
935	9.640 8303	155	9.686 9302	193	0.313 0698	9.953 9001	37	065	
936	9.640 8459	156	9.686 9495	193	0.313 0505	9.953 8965	36	064	
		156		192			37		
937	9.640 8615		9.686 9687		0.313 0313	9.953 8928		063	
938	9.640 8771	156	9.686 9880	193	0.313 0120	9.953 8891	37	062	
939	9.640 8927	156	9.687 0073	193	0.312 9927	9.953 8854	37	061	
		156		192			37		
.940	9.640 9083		9.687 0265		0.312 9735	9.953 8817		.060	
		155		193			37		
941	9.640 9238		9.687 0458		0.312 9542	9.953 8780		059	
942	9.640 9394	156	9.687 0651	193	0.312 9349	9.953 8743	37	058	
943	9.640 9550	156	9.687 0844	193	0.312 9156	9.953 8706	37	057	
		156		192			36		
944	9.640 9706		9.687 1036		0.312 8964	9.953 8670		056	
945	9.640 9862	156	9.687 1229	193	0.312 8771	9.953 8633	37	055	
946	9.641 0017	155	9.687 1422	193	0.312 8578	9.953 8596	37	054	
		156		192			37		
947	9.641 0173		9.687 1614		0.312 8386	9.953 8559		053	
948	9.641 0329	156	9.687 1807	193	0.312 8193	9.953 8522	37	052	
949	9.641 0485	156	9.687 2000	193	0.312 8000	9.953 8485	37	051	
		155		192			37		
.950	9.641 0640		9.687 2192		0.312 7808	9.953 8448		.050	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	193	192
1	19.3	19.2
2	38.6	38.4
3	57.9	57.6
4	77.2	76.8
5	96.5	96.0
6	115.8	115.2
7	135.1	134.4
8	154.4	153.6
9	173.7	172.8

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	155
1	15.5
2	31.0
3	46.5
4	62.0
5	77.5
6	93.0
7	108.5
8	124.0
9	139.5

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.100 — 64°.050

25°.950 — 26°.000

25°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.641 0640		9.687 2192		0.312 7808	9.953 8448		.050	
		156		193			37		
951	9.641 0796		9.687 2385		0.312 7615	9.953 8411		049	
952	9.641 0952	156	9.687 2577	192	0.312 7423	9.953 8375	36	048	
953	9.641 1108	156	9.687 2770	193	0.312 7230	9.953 8338	37	047	
		155		193			37		
954	9.641 1263		9.687 2963		0.312 7037	9.953 8301		046	
955	9.641 1419	156	9.687 3155	192	0.312 6845	9.953 8264	37	045	
956	9.641 1575	156	9.687 3348	193	0.312 6652	9.953 8227	37	044	
		156		193			37		
957	9.641 1731		9.687 3541		0.312 6459	9.953 8190		043	
958	9.641 1886	155	9.687 3733	192	0.312 6267	9.953 8153	37	042	
959	9.641 2042	156	9.687 3926	193	0.312 6074	9.953 8116	37	041	
		156		192			37		
.960	9.641 2198		9.687 4118		0.312 5882	9.953 8079		.040	
		155		193			37		
961	9.641 2353		9.687 4311		0.312 5689	9.953 8042		039	
962	9.641 2509	156	9.687 4504	193	0.312 5496	9.953 8006	36	038	
963	9.641 2665	156	9.687 4696	192	0.312 5304	9.953 7969	37	037	
		155		193			37		
964	9.641 2820		9.687 4889		0.312 5111	9.953 7932		036	
965	9.641 2976	156	9.687 5081	192	0.312 4919	9.953 7895	37	035	
966	9.641 3132	156	9.687 5274	193	0.312 4726	9.953 7858	37	034	
		155		192			37		
967	9.641 3287		9.687 5466		0.312 4534	9.953 7821		033	
968	9.641 3443	156	9.687 5659	193	0.312 4341	9.953 7784	37	032	
969	9.641 3599	156	9.687 5851	192	0.312 4149	9.953 7747	37	031	
		155		193			37		
.970	9.641 3754		9.687 6044		0.312 3956	9.953 7710		.030	
		156		193			37		
971	9.641 3910		9.687 6237		0.312 3763	9.953 7673		029	
972	9.641 4065	155	9.687 6429	192	0.312 3571	9.953 7636	37	028	
973	9.641 4221	156	9.687 6622	193	0.312 3378	9.953 7599	37	027	
		156		192			36		
974	9.641 4377		9.687 6814		0.312 3186	9.953 7563		026	
975	9.641 4532	155	9.687 7007	193	0.312 2993	9.953 7526	37	025	
976	9.641 4688	156	9.687 7199	192	0.312 2801	9.953 7489	37	024	
		155		193			37		
977	9.641 4843		9.687 7392		0.312 2608	9.953 7452		023	
978	9.641 4999	156	9.687 7584	192	0.312 2416	9.953 7415	37	022	
979	9.641 5154	155	9.687 7777	193	0.312 2223	9.953 7378	37	021	
		156		192			37		
.980	9.641 5310		9.687 7969		0.312 2031	9.953 7341		.020	
		156		193			37		
981	9.641 5466		9.687 8162		0.312 1838	9.953 7304		019	
982	9.641 5621	155	9.687 8354	192	0.312 1646	9.953 7267	37	018	
983	9.641 5777	156	9.687 8547	193	0.312 1453	9.953 7230	37	017	
		155		192			37		
984	9.641 5932		9.687 8739		0.312 1261	9.953 7193		016	
985	9.641 6088	156	9.687 8931	192	0.312 1069	9.953 7156	37	015	
986	9.641 6243	155	9.687 9124	193	0.312 0876	9.953 7119	37	014	
		156		192			37		
987	9.641 6399		9.687 9316		0.312 0684	9.953 7082		013	
988	9.641 6554	155	9.687 9509	193	0.312 0491	9.953 7045	37	012	
989	9.641 6710	156	9.687 9701	192	0.312 0299	9.953 7008	37	011	
		155		193			37		
.990	9.641 6865		9.687 9894		0.312 0106	9.953 6971		.010	
		156		192			36		
991	9.641 7021		9.688 0086		0.311 9914	9.953 6935		009	
992	9.641 7176	155	9.688 0279	193	0.311 9721	9.953 6898	37	008	
993	9.641 7332	156	9.688 0471	192	0.311 9529	9.953 6861	37	007	
		155		192			37		
994	9.641 7487		9.688 0663		0.311 9337	9.953 6824		006	
995	9.641 7642	155	9.688 0856	193	0.311 9144	9.953 6787	37	005	
996	9.641 7798	156	9.688 1048	192	0.311 8952	9.953 6750	37	004	
		155		193			37		
997	9.641 7953		9.688 1241		0.311 8759	9.953 6713		003	
998	9.641 8109	156	9.688 1433	192	0.311 8567	9.953 6676	37	002	
999	9.641 8264	155	9.688 1625	192	0.311 8375	9.953 6639	37	001	
		156		193			37		
*.000	9.641 8420		9.688 1818		0.311 8182	9.953 6602		.000	
	cos	d	cotg	d	tang	sin	d	64°	P.P.

	193	192
1	19.3	19.2
2	38.6	38.4
3	57.9	57.6
4	77.2	76.8
5	96.5	96.0
6	115.8	115.2
7	135.1	134.4
8	154.4	153.6
9	173.7	172.8

	156
1	15.6
2	31.2
3	46.8
4	62.4
5	78.0
6	93.6
7	109.2
8	124.8
9	140.4

	155
1	15.5
2	31.0
3	46.5
4	62.0
5	77.5
6	93.0
7	108.5
8	124.0
9	139.5

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

	36
1	3.6
2	7.2
3	10.8
4	14.4
5	18.0
6	21.6
7	25.2
8	28.8
9	32.4

64°.050 — 64°.000

26°.000 — 26°.050

26°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.641 8420		9.688 1818		0.311 8182	9.953 6602		*000	
		155		192			37		
001	9.641 8575		9.688 2010		0.311 7990	9.953 6565		999	
002	9.641 8730	155	9.688 2202	192	0.311 7798	9.953 6528	37	998	
003	9.641 8886	156	9.688 2395	193	0.311 7605	9.953 6491	37	997	
		155		192			37		
004	9.641 9041		9.688 2587		0.311 7413	9.953 6454		996	
005	9.641 9197	156	9.688 2780	193	0.311 7220	9.953 6417	37	995	
006	9.641 9352	155	9.688 2972	192	0.311 7028	9.953 6380	37	994	
		155		192			37		
007	9.641 9507		9.688 3164		0.311 6836	9.953 6343		993	
008	9.641 9663	156	9.688 3357	193	0.311 6643	9.953 6306	37	992	
009	9.641 9818	155	9.688 3549	192	0.311 6451	9.953 6269	37	991	
		155		192			37		
.010	9.641 9973		9.688 3741		0.311 6259	9.953 6232		.990	
		156		193			37		
011	9.642 0129		9.688 3934		0.311 6066	9.953 6195		989	
012	9.642 0284	155	9.688 4126	192	0.311 5874	9.953 6158	37	988	
013	9.642 0439	155	9.688 4318	192	0.311 5682	9.953 6121	37	987	
		156		193			37		
014	9.642 0595		9.688 4511		0.311 5489	9.953 6084		986	
015	9.642 0750	155	9.688 4703	192	0.311 5297	9.953 6047	37	985	
016	9.642 0905	155	9.688 4895	192	0.311 5105	9.953 6010	37	984	
		156		192			37		
017	9.642 1061		9.688 5087		0.311 4913	9.953 5973		983	
018	9.642 1216	155	9.688 5280	193	0.311 4720	9.953 5936	37	982	
019	9.642 1371	155	9.688 5472	192	0.311 4528	9.953 5899	37	981	
		155		192			37		
.020	9.642 1526		9.688 5664		0.311 4336	9.953 5862		.980	
		156		193			37		
021	9.642 1682		9.688 5857		0.311 4143	9.953 5825		979	
022	9.642 1837	155	9.688 6049	192	0.311 3951	9.953 5788	37	978	
023	9.642 1992	155	9.688 6241	192	0.311 3759	9.953 5751	37	977	
		155		192			37		
024	9.642 2147		9.688 6433		0.311 3567	9.953 5714		976	
025	9.642 2303	156	9.688 6626	193	0.311 3374	9.953 5677	37	975	
026	9.642 2458	155	9.688 6818	192	0.311 3182	9.953 5640	37	974	
		155		192			37		
027	9.642 2613		9.688 7010		0.311 2990	9.953 5603		973	
028	9.642 2768	155	9.688 7202	192	0.311 2798	9.953 5566	37	972	
029	9.642 2924	156	9.688 7395	193	0.311 2605	9.953 5529	37	971	
		155		192			37		
.030	9.642 3079		9.688 7587		0.311 2413	9.953 5492		.970	
		155		192			37		
031	9.642 3234		9.688 7779		0.311 2221	9.953 5455		969	
032	9.642 3389	155	9.688 7971	192	0.311 2029	9.953 5418	37	968	
033	9.642 3544	155	9.688 8163	192	0.311 1837	9.953 5381	37	967	
		156		193			37		
034	9.642 3700		9.688 8356		0.311 1644	9.953 5344		966	
035	9.642 3855	155	9.688 8548	192	0.311 1452	9.953 5307	37	965	
036	9.642 4010	155	9.688 8740	192	0.311 1260	9.953 5270	37	964	
		155		192			37		
037	9.642 4165		9.688 8932		0.311 1068	9.953 5233		963	
038	9.642 4320	155	9.688 9124	192	0.311 0876	9.953 5196	37	962	
039	9.642 4475	155	9.688 9317	193	0.311 0683	9.953 5159	37	961	
		156		192			37		
.040	9.642 4631		9.688 9509		0.311 0491	9.953 5122		.960	
		155		192			37		
041	9.642 4786		9.688 9701		0.311 0299	9.953 5085		959	
042	9.642 4941	155	9.688 9893	192	0.311 0107	9.953 5048	37	958	
043	9.642 5096	155	9.689 0085	192	0.310 9915	9.953 5011	37	957	
		155		192			37		
044	9.642 5251		9.689 0277		0.310 9723	9.953 4974		956	
045	9.642 5406	155	9.689 0470	193	0.310 9530	9.953 4937	37	955	
046	9.642 5561	155	9.689 0662	192	0.310 9338	9.953 4900	37	954	
		155		192			38		
047	9.642 5716		9.689 0854		0.310 9146	9.953 4862		953	
048	9.642 5871	155	9.689 1046	192	0.310 8954	9.953 4825	37	952	
049	9.642 6026	155	9.689 1238	192	0.310 8762	9.953 4788	37	951	
		156		192			37		
.050	9.642 6182		9.689 1430		0.310 8570	9.953 4751		.950	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	193	192
1	19.3	19.2
2	38.6	38.4
3	57.9	57.6
4	77.2	76.8
5	96.5	96.0
6	115.8	115.2
7	135.1	134.4
8	154.4	153.6
9	173.7	172.8

	156
1	15.6
2	31.2
3	46.8
4	62.4
5	78.0
6	93.6
7	109.2
8	124.8
9	140.4

	155
1	15.5
2	31.0
3	46.5
4	62.0
5	77.5
6	93.0
7	108.5
8	124.0
9	139.5

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

64°.000 — 63°.950

26°.050 — 26°.100

26°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.642 6182		9.689 1430		0.310 8570	9.953 4751		**.950**	
		155		192			37		
051	9.642 6337		9.689 1622		0.310 8378	9.953 4714		949	
052	9.642 6492	155	9.689 1814	192	0.310 8186	9.953 4677	37	948	
053	9.642 6647	155	9.689 2007	193	0.310 7993	9.953 4640	37	947	
		155		192			37		
054	9.642 6802		9.689 2199		0.310 7801	9.953 4603		946	
055	9.642 6957	155	9.689 2391	192	0.310 7609	9.953 4566	37	945	
056	9.642 7112	155	9.689 2583	192	0.310 7417	9.953 4529	37	944	
		155		192			37		
057	9.642 7267		9.689 2775		0.310 7225	9.953 4492		943	
058	9.642 7422	155	9.689 2967	192	0.310 7033	9.953 4455	37	942	
059	9.642 7577	155	9.689 3159	192	0.310 6841	9.953 4418	37	941	
		155		192			37		
.060	9.642 7732		9.689 3351		0.310 6649	9.953 4381		**.940**	
		155		192			37		
061	9.642 7887		9.689 3543		0.310 6457	9.953 4344		939	
062	9.642 8042	155	9.689 3735	192	0.310 6265	9.953 4307	37	938	
063	9.642 8197	155	9.689 3927	192	0.310 6073	9.953 4270	37	937	
		155		192			38		
064	9.642 8352		9.689 4119		0.310 5881	9.953 4232		936	
065	9.642 8507	155	9.689 4311	192	0.310 5689	9.953 4195	37	935	
066	9.642 8662	155	9.689 4503	192	0.310 5497	9.953 4158	37	934	
		155		192			37		
067	9.642 8817		9.689 4695		0.310 5305	9.953 4121		933	
068	9.642 8972	155	9.689 4887	192	0.310 5113	9.953 4084	37	932	
069	9.642 9127	155	9.689 5079	192	0.310 4921	9.953 4047	37	931	
		155		193			37		
.070	9.642 9282		9.689 5272		0.310 4728	9.953 4010		**.930**	
		154		192			37		
071	9.642 9436		9.689 5464		0.310 4536	9.953 3973		929	
072	9.642 9591	155	9.689 5656	192	0.310 4344	9.953 3936	37	928	
073	9.642 9746	155	9.689 5848	192	0.310 4152	9.953 3899	37	927	
		155		192			37		
074	9.642 9901		9.689 6040		0.310 3960	9.953 3862		926	
075	9.643 0056	155	9.689 6232	192	0.310 3768	9.953 3825	37	925	
076	9.643 0211	155	9.689 6423	191	0.310 3577	9.953 3787	38	924	
		155		192			37		
077	9.643 0366		9.689 6615		0.310 3385	9.953 3750		923	
078	9.643 0521	155	9.689 6807	192	0.310 3193	9.953 3713	37	922	
079	9.643 0676	155	9.689 6999	192	0.310 3001	9.953 3676	37	921	
		154		192			37		
.080	9.643 0830		9.689 7191		0.310 2809	9.953 3639		**.920**	
		155		192			37		
081	9.643 0985		9.689 7383		0.310 2617	9.953 3602		919	
082	9.643 1140	155	9.689 7575	192	0.310 2425	9.953 3565	37	918	
083	9.643 1295	155	9.689 7767	192	0.310 2233	9.953 3528	37	917	
		155		192			37		
084	9.643 1450		9.689 7959		0.310 2041	9.953 3491		916	
085	9.643 1605	155	9.689 8151	192	0.310 1849	9.953 3454	37	915	
086	9.643 1759	154	9.689 8343	192	0.310 1657	9.953 3416	38	914	
		155		192			37		
087	9.643 1914		9.689 8535		0.310 1465	9.953 3379		913	
088	9.643 2069	155	9.689 8727	192	0.310 1273	9.953 3342	37	912	
089	9.643 2224	155	9.689 8919	192	0.310 1081	9.953 3305	37	911	
		155		192			37		
.090	9.643 2379		9.689 9111		0.310 0889	9.953 3268		**.910**	
		155		192			37		
091	9.643 2534		9.689 9303		0.310 0697	9.953 3231		909	
092	9.643 2688	154	9.689 9495	192	0.310 0505	9.953 3194	37	908	
093	9.643 2843	155	9.689 9686	191	0.310 0314	9.953 3157	37	907	
		155		192			38		
094	9.643 2998		9.689 9878		0.310 0122	9.953 3119		906	
095	9.643 3153	155	9.690 0070	192	0.309 9930	9.953 3082	37	905	
096	9.643 3307	154	9.690 0262	192	0.309 9738	9.953 3045	37	904	
		155		192			37		
097	9.643 3462		9.690 0454		0.309 9546	9.953 3008		903	
098	9.643 3617	155	9.690 0646	192	0.309 9354	9.953 2971	37	902	
099	9.643 3772	155	9.690 0838	192	0.309 9162	9.953 2934	37	901	
		154		192			37		
.100	9.643 3926		9.690 1030		0.309 8970	9.953 2897		**.900**	
	cos	d	cotg	d	tang	sin	d	**63°**	P.P.

	193	192
1	19.3	19.2
2	38.6	38.4
3	57.9	57.6
4	77.2	76.8
5	96.5	96.0
6	115.8	115.2
7	135.1	134.4
8	154.4	153.6
9	173.7	172.8

	191
1	19.1
2	38.2
3	57.3
4	76.4
5	95.5
6	114.6
7	133.7
8	152.8
9	171.9

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

63°.950 — 63°.900

26°.100 — 26°.150

26°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.643 3926		9.690 1030		0.309 8970	9.953 2897		.900	
		155		191			37		
101	9.643 4081		9.690 1221		0.309 8779	9.953 2860		899	
102	9.643 4236	155	9.690 1413	192	0.309 8587	9.953 2822	38	898	
103	9.643 4390	154	9.690 1605	192	0.309 8395	9.953 2785	37	897	
		155		192			37		
104	9.643 4545		9.690 1797		0.309 8203	9.953 2748		896	
105	9.643 4700	155	9.690 1989	192	0.309 8011	9.953 2711	37	895	
106	9.643 4855	155	9.690 2181	192	0.309 7819	9.953 2674	37	894	
		154		191			37		
107	9.643 5009		9.690 2372		0.309 7628	9.953 2637		893	
108	9.643 5164	155	9.690 2564	192	0.309 7436	9.953 2600	37	892	
109	9.643 5319	155	9.690 2756	192	0.309 7244	9.953 2562	38	891	
		154		192			37		
.110	9.643 5473		9.690 2948		0.309 7052	9.953 2525		.890	
		155		192			37		
111	9.643 5628		9.690 3140		0.309 6860	9.953 2488		889	
112	9.643 5783	155	9.690 3332	192	0.309 6668	9.953 2451	37	888	
113	9.643 5937	154	9.690 3523	191	0.309 6477	9.953 2414	37	887	
		155		192			37		
114	9.643 6092		9.690 3715		0.309 6285	9.953 2377		886	
115	9.643 6246	154	9.690 3907	192	0.309 6093	9.953 2340	37	885	
116	9.643 6401	155	9.690 4099	192	0.309 5901	9.953 2302	38	884	
		155		191			37		
117	9.643 6556		9.690 4290		0.309 5710	9.953 2265		883	
118	9.643 6710	154	9.690 4482	192	0.309 5518	9.953 2228	37	882	
119	9.643 6865	155	9.690 4674	192	0.309 5326	9.953 2191	37	881	
		154		192			37		
.120	9.643 7019		9.690 4866		0.309 5134	9.953 2154		.880	
		155		191			37		
121	9.643 7174		9.690 5057		0.309 4943	9.953 2117		879	
122	9.643 7329	155	9.690 5249	192	0.309 4751	9.953 2079	38	878	
123	9.643 7483	154	9.690 5441	192	0.309 4559	9.953 2042	37	877	
		155		192			37		
124	9.643 7638		9.690 5633		0.309 4367	9.953 2005		876	
125	9.643 7792	154	9.690 5824	191	0.309 4176	9.953 1968	37	875	
126	9.643 7947	155	9.690 6016	192	0.309 3984	9.953 1931	37	874	
		154		192			37		
127	9.643 8101		9.690 6208		0.309 3792	9.953 1894		873	
128	9.643 8256	155	9.690 6400	192	0.309 3600	9.953 1856	38	872	
129	9.643 8410	154	9.690 6591	191	0.309 3409	9.953 1819	37	871	
		155		192			37		
.130	9.643 8565		9.690 6783		0.309 3217	9.953 1782		.870	
		154		192			37		
131	9.643 8719		9.690 6975		0.309 3025	9.953 1745		869	
132	9.643 8874	155	9.690 7166	191	0.309 2834	9.953 1708	37	868	
133	9.643 9028	154	9.690 7358	192	0.309 2642	9.953 1670	38	867	
		155		192			37		
134	9.643 9183		9.690 7550		0.309 2450	9.953 1633		866	
135	9.643 9337	154	9.690 7741	191	0.309 2259	9.953 1596	37	865	
136	9.643 9492	155	9.690 7933	192	0.309 2067	9.953 1559	37	864	
		154		192			37		
137	9.643 9646		9.690 8125		0.309 1875	9.953 1522		863	
138	9.643 9801	155	9.690 8316	191	0.309 1684	9.953 1484	38	862	
139	9.643 9955	154	9.690 8508	192	0.309 1492	9.953 1447	37	861	
		155		192			37		
.140	9.644 0110		9.690 8700		0.309 1300	9.953 1410		.860	
		154		191			37		
141	9.644 0264		9.690 8891		0.309 1109	9.953 1373		859	
142	9.644 0419	155	9.690 9083	192	0.309 0917	9.953 1336	37	858	
143	9.644 0573	154	9.690 9275	192	0.309 0725	9.953 1298	38	857	
		155		191			37		
144	9.644 0728		9.690 9466		0.309 0534	9.953 1261		856	
145	9.644 0882	154	9.690 9658	192	0.309 0342	9.953 1224	37	855	
146	9.644 1036	154	9.690 9850	192	0.309 0150	9.953 1187	37	854	
		155		191			37		
147	9.644 1191		9.691 0041		0.308 9959	9.953 1150		853	
148	9.644 1345	154	9.691 0233	192	0.308 9767	9.953 1112	38	852	
149	9.644 1500	155	9.691 0424	191	0.308 9576	9.953 1075	37	851	
		154		192			37		
.150	9.644 1654		9.691 0616		0.308 9384	9.953 1038		.850	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	192	191
1	19.2	19.1
2	38.4	38.2
3	57.6	57.3
4	76.8	76.4
5	96.0	95.5
6	115.2	114.6
7	134.4	133.7
8	153.6	152.8
9	172.8	171.9

	155
1	15.5
2	31.0
3	46.5
4	62.0
5	77.5
6	93.0
7	108.5
8	124.0
9	139.5

	154
1	15.4
2	30.8
3	46.2
4	61.6
5	77.0
6	92.4
7	107.8
8	123.2
9	138.6

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

63°.900 — 63°.850

26°.150 — 26°.200

26°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.644 1654		9.691 0616		0.308 9384	9.953 1038		.850	
		154		192			37		
151	9.644 1808		9.691 0808		0.308 9192	9.953 1001		849	
152	9.644 1963	155	9.691 0999	191	0.308 9001	9.953 0964	37	848	
153	9.644 2117	154	9.691 1191	192	0.308 8809	9.953 0926	38	847	
		154		191			37		
154	9.644 2271		9.691 1382		0.308 8618	9.953 0889		846	
155	9.644 2426	155	9.691 1574	192	0.308 8426	9.953 0852	37	845	
156	9.644 2580	154	9.691 1765	191	0.308 8235	9.953 0815	37	844	
		155		192			38		
157	9.644 2735		9.691 1957		0.308 8043	9.953 0777		843	
158	9.644 2889	154	9.691 2149	192	0.308 7851	9.953 0740	37	842	
159	9.644 3043	154	9.691 2340	191	0.308 7660	9.953 0703	37	841	
		154		192			37		
.160	9.644 3197		9.691 2532		0.308 7468	9.953 0666		.840	
		155		191			37		
161	9.644 3352		9.691 2723		0.308 7277	9.953 0629		839	
162	9.644 3506	154	9.691 2915	192	0.308 7085	9.953 0591	38	838	
163	9.644 3660	154	9.691 3106	191	0.308 6894	9.953 0554	37	837	
		155		192			37		
164	9.644 3815		9.691 3298		0.308 6702	9.953 0517		836	
165	9.644 3969	154	9.691 3489	191	0.308 6511	9.953 0480	37	835	
166	9.644 4123	154	9.691 3681	192	0.308 6319	9.953 0442	38	834	
		155		191			37		
167	9.644 4278		9.691 3872		0.308 6128	9.953 0405		833	
168	9.644 4432	154	9.691 4064	192	0.308 5936	9.953 0368	37	832	
169	9.644 4586	154	9.691 4255	191	0.308 5745	9.953 0331	37	831	
		154		192			38		
.170	9.644 4740		9.691 4447		0.308 5553	9.953 0293		.830	
		155		191			37		
171	9.644 4895		9.691 4638		0.308 5362	9.953 0256		829	
172	9.644 5049	154	9.691 4830	192	0.308 5170	9.953 0219	37	828	
173	9.644 5203	154	9.691 5021	191	0.308 4979	9.953 0182	37	827	
		154		192			38		
174	9.644 5357		9.691 5213		0.308 4787	9.953 0144		826	
175	9.644 5511	154	9.691 5404	191	0.308 4596	9.953 0107	37	825	
176	9.644 5666	155	9.691 5596	192	0.308 4404	9.953 0070	37	824	
		154		191			37		
177	9.644 5820		9.691 5787		0.308 4213	9.953 0033		823	
178	9.644 5974	154	9.691 5979	192	0.308 4021	9.952 9995	38	822	
179	9.644 6128	154	9.691 6170	191	0.308 3830	9.952 9958	37	821	
		154		192			37		
.180	9.644 6282		9.691 6362		0.308 3638	9.952 9921		.820	
		155		191			37		
181	9.644 6437		9.691 6553		0.308 3447	9.952 9884		819	
182	9.644 6591	154	9.691 6745	192	0.308 3255	9.952 9846	38	818	
183	9.644 6745	154	9.691 6936	191	0.308 3064	9.952 9809	37	817	
		154		191			37		
184	9.644 6899		9.691 7127		0.308 2873	9.952 9772		816	
185	9.644 7053	154	9.691 7319	192	0.308 2681	9.952 9734	38	815	
186	9.644 7207	154	9.691 7510	191	0.308 2490	9.952 9697	37	814	
		155		192			37		
187	9.644 7362		9.691 7702		0.308 2298	9.952 9660		813	
188	9.644 7516	154	9.691 7893	191	0.308 2107	9.952 9623	37	812	
189	9.644 7670	154	9.691 8084	191	0.308 1916	9.952 9585	38	811	
		154		192			37		
.190	9.644 7824		9.691 8276		0.308 1724	9.952 9548		.810	
		154		191			37		
191	9.644 7978		9.691 8467		0.308 1533	9.952 9511		809	
192	9.644 8132	154	9.691 8659	192	0.308 1341	9.952 9474	37	808	
193	9.644 8286	154	9.691 8850	191	0.308 1150	9.952 9436	38	807	
		154		191			37		
194	9.644 8440		9.691 9041		0.308 0959	9.952 9399		806	
195	9.644 8594	154	9.691 9233	192	0.308 0767	9.952 9362	37	805	
196	9.644 8748	154	9.691 9424	191	0.308 0576	9.952 9324	38	804	
		154		191			37		
197	9.644 8902		9.691 9615		0.308 0385	9.952 9287		803	
198	9.644 9057	155	9.691 9807	192	0.308 0193	9.952 9250	37	802	
199	9.644 9211	154	9.691 9998	191	0.308 0002	9.952 9212	38	801	
		154		191			37		
.200	9.644 9365		9.692 0189		0.307 9811	9.952 9175		.800	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	192	191
1	19.2	19.1
2	38.4	38.2
3	57.6	57.3
4	76.8	76.4
5	96.0	95.5
6	115.2	114.6
7	134.4	133.7
8	153.6	152.8
9	172.8	171.9

	155
1	15.5
2	31.0
3	46.5
4	62.0
5	77.5
6	93.0
7	108.5
8	124.0
9	139.5

	154
1	15.4
2	30.8
3	46.2
4	61.6
5	77.0
6	92.4
7	107.8
8	123.2
9	138.6

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

63°.850 — 63°.800

26°.200 — 26°.250

26°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.644 9365		9.692 0189		0.307 9811	9.952 9175		**.800**	
		154		192			37		
201	9.644 9519		9.692 0381		0.307 9619	9.952 9138		799	
202	9.644 9673	154	9.692 0572	191	0.307 9428	9.952 9101	37	798	
203	9.644 9827	154	9.692 0763	191	0.307 9237	9.952 9063	38	797	
		154		192			37		
204	9.644 9981		9.692 0955		0.307 9045	9.952 9026		796	
205	9.645 0135	154	9.692 1146	191	0.307 8854	9.952 8989	37	795	
206	9.645 0289	154	9.692 1337	191	0.307 8663	9.952 8951	38	794	
		154		192			37		
207	9.645 0443		9.692 1529		0.307 8471	9.952 8914		793	
208	9.645 0597	154	9.692 1720	191	0.307 8280	9.952 8877	37	792	
209	9.645 0751	154	9.692 1911	191	0.307 8089	9.952 8839	38	791	
		154		192			37		
.210	9.645 0905		9.692 2103		0.307 7897	9.952 8802		**.790**	
		154		191			37		
211	9.645 1059		9.692 2294		0.307 7706	9.952 8765		789	
212	9.645 1213	154	9.692 2485	191	0.307 7515	9.952 8727	38	788	
213	9.645 1367	154	9.692 2676	191	0.307 7324	9.952 8690	37	787	
		154		192			37		
214	9.645 1521		9.692 2868		0.307 7132	9.952 8653		786	
215	9.645 1675	154	9.692 3059	191	0.307 6941	9.952 8616	37	785	
216	9.645 1828	153	9.692 3250	191	0.307 6750	9.952 8578	38	784	
		154		192			37		
217	9.645 1982		9.692 3442		0.307 6558	9.952 8541		783	
218	9.645 2136	154	9.692 3633	191	0.307 6367	9.952 8504	37	782	
219	9.645 2290	154	9.692 3824	191	0.307 6176	9.952 8466	38	781	
		154		191			37		
.220	9.645 2444		9.692 4015		0.307 5985	9.952 8429		**.780**	
		154		191			37		
221	9.645 2598		9.692 4206		0.307 5794	9.952 8392		779	
222	9.645 2752	154	9.692 4398	192	0.307 5602	9.952 8354	38	778	
223	9.645 2906	154	9.692 4589	191	0.307 5411	9.952 8317	37	777	
		154		191			37		
224	9.645 3060		9.692 4780		0.307 5220	9.952 8280		776	
225	9.645 3214	154	9.692 4971	191	0.307 5029	9.952 8242	38	775	
226	9.645 3367	153	9.692 5163	192	0.307 4837	9.952 8205	37	774	
		154		191			37		
227	9.645 3521		9.692 5354		0.307 4646	9.952 8168		773	
228	9.645 3675	154	9.692 5545	191	0.307 4455	9.952 8130	38	772	
229	9.645 3829	154	9.692 5736	191	0.307 4264	9.952 8093	37	771	
		154		191			37		
.230	9.645 3983		9.692 5927		0.307 4073	9.952 8056		**.770**	
		154		192			38		
231	9.645 4137		9.692 6119		0.307 3881	9.952 8018		769	
232	9.645 4291	154	9.692 6310	191	0.307 3690	9.952 7981	37	768	
233	9.645 4444	153	9.692 6501	191	0.307 3499	9.952 7943	38	767	
		154		191			37		
234	9.645 4598		9.692 6692		0.307 3308	9.952 7906		766	
235	9.645 4752	154	9.692 6883	191	0.307 3117	9.952 7869	37	765	
236	9.645 4906	154	9.692 7074	191	0.307 2926	9.952 7831	38	764	
		154		192			37		
237	9.645 5060		9.692 7266		0.307 2734	9.952 7794		763	
238	9.645 5213	153	9.692 7457	191	0.307 2543	9.952 7757	37	762	
239	9.645 5367	154	9.692 7648	191	0.307 2352	9.952 7719	38	761	
		154		191			37		
.240	9.645 5521		9.692 7839		0.307 2161	9.952 7682		**.760**	
		154		191			37		
241	9.645 5675		9.692 8030		0.307 1970	9.952 7645		759	
242	9.645 5828	153	9.692 8221	191	0.307 1779	9.952 7607	38	758	
243	9.645 5982	154	9.692 8412	191	0.307 1588	9.952 7570	37	757	
		154		191			38		
244	9.645 6136		9.692 8603		0.307 1397	9.952 7532		756	
245	9.645 6290	154	9.692 8795	192	0.307 1205	9.952 7495	37	755	
246	9.645 6443	153	9.692 8986	191	0.307 1014	9.952 7458	37	754	
		154		191			38		
247	9.645 6597		9.692 9177		0.307 0823	9.952 7420		753	
248	9.645 6751	154	9.692 9368	191	0.307 0632	9.952 7383	37	752	
249	9.645 6905	154	9.692 9559	191	0.307 0441	9.952 7346	37	751	
		153		191			38		
.250	9.645 7058		9.692 9750		0.307 0250	9.952 7308		**.750**	
	cos	d	cotg	d	tang	sin	d	**63°**	P.P.

	192	191
1	19.2	19.1
2	38.4	38.2
3	57.6	57.3
4	76.8	76.4
5	96.0	95.5
6	115.2	114.6
7	134.4	133.7
8	153.6	152.8
9	172.8	171.9

	154
1	15.4
2	30.8
3	46.2
4	61.6
5	77.0
6	92.4
7	107.8
8	123.2
9	138.6

	153
1	15.3
2	30.6
3	45.9
4	61.2
5	76.5
6	91.8
7	107.1
8	122.4
9	137.7

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

63°.800 — 63°.750

$26^\circ.250 - 26^\circ.300$

26°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.645 7058		9.692 9750		0.307 0250	9.952 7308		**.750**	
		154		191			37		
251	9.645 7212		9.692 9941		0.307 0059	9.952 7271		749	
252	9.645 7366	154	9.693 0132	191	0.306 9868	9.952 7233	38	748	
253	9.645 7519	153	9.693 0323	191	0.306 9677	9.952 7196	37	747	
		154		191			37		
254	9.645 7673		9.693 0514		0.306 9486	9.952 7159		746	
255	9.645 7827	154	9.693 0705	191	0.306 9295	9.952 7121	38	745	
256	9.645 7980	153	9.693 0897	192	0.306 9103	9.952 7084	37	744	
		154		191			37		
257	9.645 8134		9.693 1088		0.306 8912	9.952 7047		743	
258	9.645 8288	154	9.693 1279	191	0.306 8721	9.952 7009	38	742	
259	9.645 8441	153	9.693 1470	191	0.306 8530	9.952 6972	37	741	
		154		191			38		
.260	9.645 8595		9.693 1661		0.306 8339	9.952 6934		**.740**	
		154		191			37		
261	9.645 8749		9.693 1852		0.306 8148	9.952 6897		739	
262	9.645 8902	153	9.693 2043	191	0.306 7957	9.952 6860	37	738	
263	9.645 9056	154	9.693 2234	191	0.306 7766	9.952 6822	38	737	
		154		191			37		
264	9.645 9210		9.693 2425		0.306 7575	9.952 6785		736	
265	9.645 9363	153	9.693 2616	191	0.306 7384	9.952 6747	38	735	
266	9.645 9517	154	9.693 2807	191	0.306 7193	9.952 6710	37	734	
		153		191			37		
267	9.645 9670		9.693 2998		0.306 7002	9.952 6673		733	
268	9.645 9824	154	9.693 3189	191	0.306 6811	9.952 6635	38	732	
269	9.645 9978	154	9.693 3380	191	0.306 6620	9.952 6598	37	731	
		153		191			38		
.270	9.646 0131		9.693 3571		0.306 6429	9.952 6560		**.730**	
		154		191			37		
271	9.646 0285		9.693 3762		0.306 6238	9.952 6523		729	
272	9.646 0438	153	9.693 3953	191	0.306 6047	9.952 6485	38	728	
273	9.646 0592	154	9.693 4144	191	0.306 5856	9.952 6448	37	727	
		153		191			37		
274	9.646 0745		9.693 4335		0.306 5665	9.952 6411		726	
275	9.646 0899	154	9.693 4526	191	0.306 5474	9.952 6373	38	725	
276	9.646 1052	153	9.693 4717	191	0.306 5283	9.952 6336	37	724	
		154		191			38		
277	9.646 1206		9.693 4908		0.306 5092	9.952 6298		723	
278	9.646 1359	153	9.693 5098	190	0.306 4902	9.952 6261	37	722	
279	9.646 1513	154	9.693 5289	191	0.306 4711	9.952 6224	37	721	
		153		191			38		
.280	9.646 1666		9.693 5480		0.306 4520	9.952 6186		**.720**	
		154		191			37		
281	9.646 1820		9.693 5671		0.306 4329	9.952 6149		719	
282	9.646 1973	153	9.693 5862	191	0.306 4138	9.952 6111	38	718	
283	9.646 2127	154	9.693 6053	191	0.306 3947	9.952 6074	37	717	
		153		191			38		
284	9.646 2280		9.693 6244		0.306 3756	9.952 6036		716	
285	9.646 2434	154	9.693 6435	191	0.306 3565	9.952 5999	37	715	
286	9.646 2587	153	9.693 6626	191	0.306 3374	9.952 5962	37	714	
		154		191			38		
287	9.646 2741		9.693 6817		0.306 3183	9.952 5924		713	
288	9.646 2894	153	9.693 7008	191	0.306 2992	9.952 5887	37	712	
289	9.646 3048	154	9.693 7198	190	0.306 2802	9.952 5849	38	711	
		153		191			37		
.290	9.646 3201		9.693 7389		0.306 2611	9.952 5812		**.710**	
		154		191			38		
291	9.646 3355		9.693 7580		0.306 2420	9.952 5774		709	
292	9.646 3508	153	9.693 7771	191	0.306 2229	9.952 5737	37	708	
293	9.646 3661	153	9.693 7962	191	0.306 2038	9.952 5699	38	707	
		154		191			37		
294	9.646 3815		9.693 8153		0.306 1847	9.952 5662		706	
295	9.646 3968	153	9.693 8344	191	0.306 1656	9.952 5624	38	705	
296	9.646 4122	154	9.693 8535	191	0.306 1465	9.952 5587	37	704	
		153		190			37		
297	9.646 4275		9.693 8725		0.306 1275	9.952 5550		703	
298	9.646 4428	153	9.693 8916	191	0.306 1084	9.952 5512	38	702	
299	9.646 4582	154	9.693 9107	191	0.306 0893	9.952 5475	37	701	
		153		191			38		
.300	9.646 4735		9.693 9298		0.306 0702	9.952 5437		**.700**	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	192	191
1	19.2	19.1
2	38.4	38.2
3	57.6	57.3
4	76.8	76.4
5	96.0	95.5
6	115.2	114.6
7	134.4	133.7
8	153.6	152.8
9	172.8	171.9

	190
1	19.0
2	38.0
3	57.0
4	76.0
5	95.0
6	114.0
7	133.0
8	152.0
9	171.0

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

$63^\circ.750 - 63^\circ.700$

$26^\circ.300 - 26^\circ.350$

26°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.646 4735		9.693 9298		0.306 0702	9.952 5437		**.700**	
		153		191			37		
301	9.646 4888		9.693 9489		0.306 0511	9.952 5400		699	
302	9.646 5042	154	9.693 9680	191	0.306 0320	9.952 5362	38	698	
303	9.646 5195	153	9.693 9870	190	0.306 0130	9.952 5325	37	697	
		154		191			38		
304	9.646 5349		9.694 0061		0.305 9939	9.952 5287		696	
305	9.646 5502	153	9.694 0252	191	0.305 9748	9.952 5250	37	695	
306	9.646 5655	153	9.694 0443	191	0.305 9557	9.952 5212	38	694	
		154		191			37		
307	9.646 5809		9.694 0634		0.305 9366	9.952 5175		693	
308	9.646 5962	153	9.694 0824	190	0.305 9176	9.952 5137	38	692	
309	9.646 6115	153	9.694 1015	191	0.305 8985	9.952 5100	37	691	
		153		191			38		
.310	9.646 6268		9.694 1206		0.305 8794	9.952 5062		**.690**	
		154		191			37		
311	9.646 6422		9.694 1397		0.305 8603	9.952 5025		689	
312	9.646 6575	153	9.694 1588	191	0.305 8412	9.952 4988	37	688	
313	9.646 6728	153	9.694 1778	190	0.305 8222	9.952 4950	38	687	
		154		191			37		
314	9.646 6882		9.694 1969		0.305 8031	9.952 4913		686	
315	9.646 7035	153	9.694 2160	191	0.305 7840	9.952 4875	38	685	
316	9.646 7188	153	9.694 2351	191	0.305 7649	9.952 4838	37	684	
		153		190			38		
317	9.646 7341		9.694 2541		0.305 7459	9.952 4800		683	
318	9.646 7495	154	9.694 2732	191	0.305 7268	9.952 4763	37	682	
319	9.646 7648	153	9.694 2923	191	0.305 7077	9.952 4725	38	681	
		153		190			37		
.320	9.646 7801		9.694 3113		0.305 6887	9.952 4688		**.680**	
		153		191			38		
321	9.646 7954		9.694 3304		0.305 6696	9.952 4650		679	
322	9.646 8108	154	9.694 3495	191	0.305 6505	9.952 4613	37	678	
323	9.646 8261	153	9.694 3686	191	0.305 6314	9.952 4575	38	677	
		153		190			37		
324	9.646 8414		9.694 3876		0.305 6124	9.952 4538		676	
325	9.646 8567	153	9.694 4067	191	0.305 5933	9.952 4500	38	675	
326	9.646 8720	153	9.694 4258	191	0.305 5742	9.952 4463	37	674	
		154		190			38		
327	9.646 8874		9.694 4448		0.305 5552	9.952 4425		673	
328	9.646 9027	153	9.694 4639	191	0.305 5361	9.952 4388	37	672	
329	9.646 9180	153	9.694 4830	191	0.305 5170	9.952 4350	38	671	
		153		191			37		
.330	9.646 9333		9.694 5021		0.305 4979	9.952 4313		**.670**	
		153		190			38		
331	9.646 9486		9.694 5211		0.305 4789	9.952 4275		669	
332	9.646 9639	153	9.694 5402	191	0.305 4598	9.952 4238	37	668	
333	9.646 9793	154	9.694 5593	191	0.305 4407	9.952 4200	38	667	
		153		190			37		
334	9.646 9946		9.694 5783		0.305 4217	9.952 4163		666	
335	9.647 0099	153	9.694 5974	191	0.305 4026	9.952 4125	38	665	
336	9.647 0252	153	9.694 6164	190	0.305 3836	9.952 4088	37	664	
		153		191			38		
337	9.647 0405		9.694 6355		0.305 3645	9.952 4050		663	
338	9.647 0558	153	9.694 6546	191	0.305 3454	9.952 4012	38	662	
339	9.647 0711	153	9.694 6736	190	0.305 3264	9.952 3975	37	661	
		153		191			38		
.340	9.647 0864		9.694 6927		0.305 3073	9.952 3937		**.660**	
		154		191			37		
341	9.647 1018		9.694 7118		0.305 2882	9.952 3900		659	
342	9.647 1171	153	9.694 7308	190	0.305 2692	9.952 3862	38	658	
343	9.647 1324	153	9.694 7499	191	0.305 2501	9.952 3825	37	657	
		153		190			38		
344	9.647 1477		9.694 7689		0.305 2311	9.952 3787		656	
345	9.647 1630	153	9.694 7880	191	0.305 2120	9.952 3750	37	655	
346	9.647 1783	153	9.694 8071	191	0.305 1929	9.952 3712	38	654	
		153		190			37		
347	9.647 1936		9.694 8261		0.305 1739	9.952 3675		653	
348	9.647 2089	153	9.694 8452	191	0.305 1548	9.952 3637	38	652	
349	9.647 2242	153	9.694 8642	190	0.305 1358	9.952 3600	37	651	
		153		191			38		
.350	9.647 2395		9.694 8833		0.305 1167	9.952 3562		**.650**	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	191	190
1	19.1	19.0
2	38.2	38.0
3	57.3	57.0
4	76.4	76.0
5	95.5	95.0
6	114.6	114.0
7	133.7	133.0
8	152.8	152.0
9	171.9	171.0

	154
1	15.4
2	30.8
3	46.2
4	61.6
5	77.0
6	92.4
7	107.8
8	123.2
9	138.6

	153
1	15.3
2	30.6
3	45.9
4	61.2
5	76.5
6	91.8
7	107.1
8	122.4
9	137.7

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

$63^\circ.700 - 63^\circ.650$

26°.350 — 26°.400

26°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.647 2395		9.694 8833		0.305 1167	9.952 3562		.650	
		153		191			38		
351	9.647 2548		9.694 9024		0.305 0976	9.952 3524		649	
		153		190			37		
352	9.647 2701		9.694 9214		0.305 0786	9.952 3487		648	
		153		191			38		
353	9.647 2854		9.694 9405		0.305 0595	9.952 3449		647	
		153		190			37		
354	9.647 3007		9.694 9595		0.305 0405	9.952 3412		646	
		153		191			38		
355	9.647 3160		9.694 9786		0.305 0214	9.952 3374		645	
		153		190			37		
356	9.647 3313		9.694 9976		0.305 0024	9.952 3337		644	
		153		191			38		
357	9.647 3466		9.695 0167		0.304 9833	9.952 3299		643	
		153		190			37		
358	9.647 3619		9.695 0357		0.304 9643	9.952 3262		642	
		153		191			38		
359	9.647 3772		9.695 0548		0.304 9452	9.952 3224		641	
		153		191			37		
.360	9.647 3925		9.695 0739		0.304 9261	9.952 3187		.640	
		153		190			38		
361	9.647 4078		9.695 0929		0.304 9071	9.952 3149		639	
		153		191			38		
362	9.647 4231		9.695 1120		0.304 8880	9.952 3111		638	
		153		190			37		
363	9.647 4384		9.695 1310		0.304 8690	9.952 3074		637	
		153		191			38		
364	9.647 4537		9.695 1501		0.304 8499	9.952 3036		636	
		153		190			37		
365	9.647 4690		9.695 1691		0.304 8309	9.952 2999		635	
		153		191			38		
366	9.647 4843		9.695 1882		0.304 8118	9.952 2961		634	
		153		190			37		
367	9.647 4996		9.695 2072		0.304 7928	9.952 2924		633	
		153		191			38		
368	9.647 5149		9.695 2263		0.304 7737	9.952 2886		632	
		152		190			38		
369	9.647 5301		9.695 2453		0.304 7547	9.952 2848		631	
		153		191			37		
.370	9.647 5454		9.695 2644		0.304 7356	9.952 2811		.630	
		153		190			38		
371	9.647 5607		9.695 2834		0.304 7166	9.952 2773		629	
		153		190			37		
372	9.647 5760		9.695 3024		0.304 6976	9.952 2736		628	
		153		191			38		
373	9.647 5913		9.695 3215		0.304 6785	9.952 2698		627	
		153		190			37		
374	9.647 6066		9.695 3405		0.304 6595	9.952 2661		626	
		153		191			38		
375	9.647 6219		9.695 3596		0.304 6404	9.952 2623		625	
		153		190			38		
376	9.647 6372		9.695 3786		0.304 6214	9.952 2585		624	
		152		191			37		
377	9.647 6524		9.695 3977		0.304 6023	9.952 2548		623	
		153		190			38		
378	9.647 6677		9.695 4167		0.304 5833	9.952 2510		622	
		153		191			37		
379	9.647 6830		9.695 4358		0.304 5642	9.952 2473		621	
		153		190			38		
.380	9.647 6983		9.695 4548		0.304 5452	9.952 2435		.620	
		153		190			38		
381	9.647 7136		9.695 4738		0.304 5262	9.952 2397		619	
		153		191			37		
382	9.647 7289		9.695 4929		0.304 5071	9.952 2360		618	
		152		190			38		
383	9.647 7441		9.695 5119		0.304 4881	9.952 2322		617	
		153		191			37		
384	9.647 7594		9.695 5310		0.304 4690	9.952 2285		616	
		153		190			38		
385	9.647 7747		9.695 5500		0.304 4500	9.952 2247		615	
		153		190			38		
386	9.647 7900		9.695 5690		0.304 4310	9.952 2209		614	
		153		191			37		
387	9.647 8053		9.695 5881		0.304 4119	9.952 2172		613	
		152		190			38		
388	9.647 8205		9.695 6071		0.304 3929	9.952 2134		612	
		153		191			37		
389	9.647 8358		9.695 6262		0.304 3738	9.952 2097		611	
		153		190			38		
.390	9.647 8511		9.695 6452		0.304 3548	9.952 2059		.610	
		153		190			38		
391	9.647 8664		9.695 6642		0.304 3358	9.952 2021		609	
		152		191			37		
392	9.647 8816		9.695 6833		0.304 3167	9.952 1984		608	
		153		190			38		
393	9.647 8969		9.695 7023		0.304 2977	9.952 1946		607	
		153		190			38		
394	9.647 9122		9.695 7213		0.304 2787	9.952 1908		606	
		153		191			37		
395	9.647 9275		9.695 7404		0.304 2596	9.952 1871		605	
		152		190			38		
396	9.647 9427		9.695 7594		0.304 2406	9.952 1833		604	
		153		190			37		
397	9.647 9580		9.695 7784		0.304 2216	9.952 1796		603	
		153		191			38		
398	9.647 9733		9.695 7975		0.304 2025	9.952 1758		602	
		153		190			38		
399	9.647 9886		9.695 8165		0.304 1835	9.952 1720		601	
		152		190			37		
.400	9.648 0038		9.695 8355		0.304 1645	9.952 1683		.600	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	191	190
1	19.1	19.0
2	38.2	38.0
3	57.3	57.0
4	76.4	76.0
5	95.5	95.0
6	114.6	114.0
7	133.7	133.0
8	152.8	152.0
9	171.9	171.0

	153
1	15.3
2	30.6
3	45.9
4	61.2
5	76.5
6	91.8
7	107.1
8	122.4
9	137.7

	152
1	15.2
2	30.4
3	45.6
4	60.8
5	76.0
6	91.2
7	106.4
8	121.6
9	136.8

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

63°.650 — 63°.600

26°.400 — 26°.450

26°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.648 0038		9.695 8355		0.304 1645	9.952 1683		.600	
		153		191			38		
401	9.648 0191		9.695 8546		0.304 1454	9.952 1645		599	
402	9.648 0344	153	9.695 8736	190	0.304 1264	9.952 1608	37	598	
403	9.648 0496	152	9.695 8926	190	0.304 1074	9.952 1570	38	597	
		153		191			38		
404	9.648 0649		9.695 9117		0.304 0883	9.952 1532		596	
405	9.648 0802	153	9.695 9307	190	0.304 0693	9.952 1495	37	595	
406	9.648 0954	152	9.695 9497	190	0.304 0503	9.952 1457	38	594	
		153		191			38		
407	9.648 1107		9.695 9688		0.304 0312	9.952 1419		593	
408	9.648 1260	153	9.695 9878	190	0.304 0122	9.952 1382	37	592	
409	9.648 1412	152	9.696 0068	190	0.303 9932	9.952 1344	38	591	
		153		190			38		
.410	9.648 1565		9.696 0258		0.303 9742	9.952 1306		.590	
		152		191			37		
411	9.648 1717		9.696 0449		0.303 9551	9.952 1269		589	
412	9.648 1870	153	9.696 0639	190	0.303 9361	9.952 1231	38	588	
413	9.648 2023	153	9.696 0829	190	0.303 9171	9.952 1193	38	587	
		152		190			37		
414	9.648 2175		9.696 1019		0.303 8981	9.952 1156		586	
415	9.648 2328	153	9.696 1210	191	0.303 8790	9.952 1118	38	585	
416	9.648 2480	152	9.696 1400	190	0.303 8600	9.952 1081	37	584	
		153		190			38		
417	9.648 2633		9.696 1590		0.303 8410	9.952 1043		583	
418	9.648 2786	153	9.696 1780	190	0.303 8220	9.952 1005	38	582	
419	9.648 2938	152	9.696 1971	191	0.303 8029	9.952 0968	37	581	
		153		190			38		
.420	9.648 3091		9.696 2161		0.303 7839	9.952 0930		.580	
		152		190			38		
421	9.648 3243		9.696 2351		0.303 7649	9.952 0892		579	
422	9.648 3396	153	9.696 2541	190	0.303 7459	9.952 0855	37	578	
423	9.648 3548	152	9.696 2732	191	0.303 7268	9.952 0817	38	577	
		153		190			38		
424	9.648 3701		9.696 2922		0.303 7078	9.952 0779		576	
425	9.648 3854	153	9.696 3112	190	0.303 6888	9.952 0742	37	575	
426	9.648 4006	152	9.696 3302	190	0.303 6698	9.952 0704	38	574	
		153		190			38		
427	9.648 4159		9.696 3492		0.303 6508	9.952 0666		573	
428	9.648 4311	152	9.696 3682	190	0.303 6318	9.952 0629	37	572	
429	9.648 4464	153	9.696 3873	191	0.303 6127	9.952 0591	38	571	
		152		190			38		
.430	9.648 4616		9.696 4063		0.303 5937	9.952 0553		.570	
		153		190			37		
431	9.648 4769		9.696 4253		0.303 5747	9.952 0516		569	
432	9.648 4921	152	9.696 4443	190	0.303 5557	9.952 0478	38	568	
433	9.648 5074	153	9.696 4633	190	0.303 5367	9.952 0440	38	567	
		152		190			38		
434	9.648 5226		9.696 4823		0.303 5177	9.952 0402		566	
435	9.648 5378	152	9.696 5014	191	0.303 4986	9.952 0365	37	565	
436	9.648 5531	153	9.696 5204	190	0.303 4796	9.952 0327	38	564	
		152		190			38		
437	9.648 5683		9.696 5394		0.303 4606	9.952 0289		563	
438	9.648 5836	153	9.696 5584	190	0.303 4416	9.952 0252	37	562	
439	9.648 5988	152	9.696 5774	190	0.303 4226	9.952 0214	38	561	
		153		190			38		
.440	9.648 6141		9.696 5964		0.303 4036	9.952 0176		.560	
		152		190			37		
441	9.648 6293		9.696 6154		0.303 3846	9.952 0139		559	
442	9.648 6446	153	9.696 6345	191	0.303 3655	9.952 0101	38	558	
443	9.648 6598	152	9.696 6535	190	0.303 3465	9.952 0063	38	557	
		152		190			37		
444	9.648 6750		9.696 6725		0.303 3275	9.952 0026		556	
445	9.648 6903	153	9.696 6915	190	0.303 3085	9.951 9988	38	555	
446	9.648 7055	152	9.696 7105	190	0.303 2895	9.951 9950	38	554	
		153		190			38		
447	9.648 7208		9.696 7295		0.303 2705	9.951 9912		553	
448	9.648 7360	152	9.696 7485	190	0.303 2515	9.951 9875	37	552	
449	9.648 7512	152	9.696 7675	190	0.303 2325	9.951 9837	38	551	
		153		190			38		
.450	9.648 7665		9.696 7865		0.303 2135	9.951 9799		.550	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

63°.600 — 63°.550

	191	190
1	19.1	19.0
2	38.2	38.0
3	57.3	57.0
4	76.4	76.0
5	95.5	95.0
6	114.6	114.0
7	133.7	133.0
8	152.8	152.0
9	171.9	171.0

	153
1	15.3
2	30.6
3	45.9
4	61.2
5	76.5
6	91.8
7	107.1
8	122.4
9	137.7

	152
1	15.2
2	30.4
3	45.6
4	60.8
5	76.0
6	91.2
7	106.4
8	121.6
9	136.8

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

$26^\circ.450 - 26^\circ.500$

26°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.648 7665		9.696 7865		0.303 2135	9.951 9799		.550	
		152		190			37		
451	9.648 7817		9.696 8055		0.303 1945	9.951 9762		549	
452	9.648 7969	152	9.696 8245	190	0.303 1755	9.951 9724	38	548	
453	9.648 8122	153	9.696 8435	190	0.303 1565	9.951 9686	38	547	
		152		191			37		
454	9.648 8274		9.696 8626		0.303 1374	9.951 9649		546	
455	9.648 8426	152	9.696 8816	190	0.303 1184	9.951 9611	38	545	
456	9.648 8579	153	9.696 9006	190	0.303 0994	9.951 9573	38	544	
		152		190			38		
457	9.648 8731		9.696 9196		0.303 0804	9.951 9535		543	
458	9.648 8883	152	9.696 9386	190	0.303 0614	9.951 9498	37	542	
459	9.648 9036	153	9.696 9576	190	0.303 0424	9.951 9460	38	541	
		152		190			38		
.460	9.648 9188		9.696 9766		0.303 0234	9.951 9422		.540	
		152		190			38		
461	9.648 9340		9.696 9956		0.303 0044	9.951 9384		539	
462	9.648 9492	152	9.697 0146	190	0.302 9854	9.951 9347	37	538	
463	9.648 9645	153	9.697 0336	190	0.302 9664	9.951 9309	38	537	
		152		190			38		
464	9.648 9797		9.697 0526		0.302 9474	9.951 9271		536	
465	9.648 9949	152	9.697 0716	190	0.302 9284	9.951 9234	37	535	
466	9.649 0102	153	9.697 0906	190	0.302 9094	9.951 9196	38	534	
		152		190			38		
467	9.649 0254		9.697 1096		0.302 8904	9.951 9158		533	
468	9.649 0406	152	9.697 1286	190	0.302 8714	9.951 9120	38	532	
469	9.649 0558	152	9.697 1476	190	0.302 8524	9.951 9083	37	531	
		153		190			38		
.470	9.649 0711		9.697 1666		0.302 8334	9.951 9045		.530	
		152		190			38		
471	9.649 0863		9.697 1856		0.302 8144	9.951 9007		529	
472	9.649 1015	152	9.697 2046	190	0.302 7954	9.951 8969	38	528	
473	9.649 1167	152	9.697 2236	190	0.302 7764	9.951 8932	37	527	
		152		190			38		
474	9.649 1319		9.697 2426		0.302 7574	9.951 8894		526	
475	9.649 1472	153	9.697 2615	189	0.302 7385	9.951 8856	38	525	
476	9.649 1624	152	9.697 2805	190	0.302 7195	9.951 8818	38	524	
		152		190			37		
477	9.649 1776		9.697 2995		0.302 7005	9.951 8781		523	
478	9.649 1928	152	9.697 3185	190	0.302 6815	9.951 8743	38	522	
479	9.649 2080	152	9.697 3375	190	0.302 6625	9.951 8705	38	521	
		152		190			38		
.480	9.649 2232		9.697 3565		0.302 6435	9.951 8667		.520	
		153		190			37		
481	9.649 2385		9.697 3755		0.302 6245	9.951 8630		519	
482	9.649 2537	152	9.697 3945	190	0.302 6055	9.951 8592	38	518	
483	9.649 2689	152	9.697 4135	190	0.302 5865	9.951 8554	38	517	
		152		190			38		
484	9.649 2841		9.697 4325		0.302 5675	9.951 8516		516	
485	9.649 2993	152	9.697 4515	190	0.302 5485	9.951 8479	37	515	
486	9.649 3145	152	9.697 4705	190	0.302 5295	9.951 8441	38	514	
		152		189			38		
487	9.649 3297		9.697 4894		0.302 5106	9.951 8403		513	
488	9.649 3450	153	9.697 5084	190	0.302 4916	9.951 8365	38	512	
489	9.649 3602	152	9.697 5274	190	0.302 4726	9.951 8327	38	511	
		152		190			37		
.490	9.649 3754		9.697 5464		0.302 4536	9.951 8290		.510	
		152		190			38		
491	9.649 3906		9.697 5654		0.302 4346	9.951 8252		509	
492	9.649 4058	152	9.697 5844	190	0.302 4156	9.951 8214	38	508	
493	9.649 4210	152	9.697 6034	190	0.302 3966	9.951 8176	38	507	
		152		190			37		
494	9.649 4362		9.697 6224		0.302 3776	9.951 8139		506	
495	9.649 4514	152	9.697 6413	189	0.302 3587	9.951 8101	38	505	
496	9.649 4666	152	9.697 6603	190	0.302 3397	9.951 8063	38	504	
		152		190			38		
497	9.649 4818		9.697 6793		0.302 3207	9.951 8025		503	
498	9.649 4970	152	9.697 6983	190	0.302 3017	9.951 7987	38	502	
499	9.649 5122	152	9.697 7173	190	0.302 2827	9.951 7950	37	501	
		152		190			38		
.500	9.649 5274		9.697 7363		0.302 2637	9.951 7912		.500	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	191	190
1	19.1	19.0
2	38.2	38.0
3	57.3	57.0
4	76.4	76.0
5	95.5	95.0
6	114.6	114.0
7	133.7	133.0
8	152.8	152.0
9	171.9	171.0

	189
1	18.9
2	37.8
3	56.7
4	75.6
5	94.5
6	113.4
7	132.3
8	151.2
9	170.1

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

$63^\circ.550 - 63^\circ.500$

$26^\circ.500 - 26^\circ.550$

26°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.649 5274		9.697 7363		0.302 2637	9.951 7912		**.500**	
		152		189			38		
501	9.649 5426		9.697 7552		0.302 2448	9.951 7874		499	
502	9.649 5578	152	9.697 7742	190	0.302 2258	9.951 7836	38	498	
503	9.649 5730	152	9.697 7932	190	0.302 2068	9.951 7798	38	497	
		152		190			37		
504	9.649 5882		9.697 8122		0.302 1878	9.951 7761		496	
505	9.649 6034	152	9.697 8312	190	0.302 1688	9.951 7723	38	495	
506	9.649 6186	152	9.697 8501	189	0.302 1499	9.951 7685	38	494	
		152		190			38		
507	9.649 6338		9.697 8691		0.302 1309	9.951 7647		493	
508	9.649 6490	152	9.697 8881	190	0.302 1119	9.951 7609	38	492	
509	9.649 6642	152	9.697 9071	190	0.302 0929	9.951 7572	37	491	
		152		189			38		
.510	9.649 6794		9.697 9260		0.302 0740	9.951 7534		**.490**	
		152		190			38		
511	9.649 6946		9.697 9450		0.302 0550	9.951 7496		489	
512	9.649 7098	152	9.697 9640	190	0.302 0360	9.951 7458	38	488	
513	9.649 7250	152	9.697 9830	190	0.302 0170	9.951 7420	38	487	
		152		190			37		
514	9.649 7402		9.698 0020		0.301 9980	9.951 7383		486	
515	9.649 7554	152	9.698 0209	189	0.301 9791	9.951 7345	38	485	
516	9.649 7706	152	9.698 0399	190	0.301 9601	9.951 7307	38	484	
		152		190			38		
517	9.649 7858		9.698 0589		0.301 9411	9.951 7269		483	
518	9.649 8010	152	9.698 0778	189	0.301 9222	9.951 7231	38	482	
519	9.649 8162	152	9.698 0968	190	0.301 9032	9.951 7193	38	481	
		152		190			37		
.520	9.649 8314		9.698 1158		0.301 8842	9.951 7156		**.480**	
		152		190			38		
521	9.649 8466		9.698 1348		0.301 8652	9.951 7118		479	
522	9.649 8617	151	9.698 1537	189	0.301 8463	9.951 7080	38	478	
523	9.649 8769	152	9.698 1727	190	0.301 8273	9.951 7042	38	477	
		152		190			38		
524	9.649 8921		9.698 1917		0.301 8083	9.951 7004		476	
525	9.649 9073	152	9.698 2106	189	0.301 7894	9.951 6967	37	475	
526	9.649 9225	152	9.698 2296	190	0.301 7704	9.951 6929	38	474	
		152		190			38		
527	9.649 9377		9.698 2486		0.301 7514	9.951 6891		473	
528	9.649 9529	152	9.698 2676	190	0.301 7324	9.951 6853	38	472	
529	9.649 9680	151	9.698 2865	189	0.301 7135	9.951 6815	38	471	
		152		190			38		
.530	9.649 9832		9.698 3055		0.301 6945	9.951 6777		**.470**	
		152		190			38		
531	9.649 9984		9.698 3245		0.301 6755	9.951 6739		469	
532	9.650 0136	152	9.698 3434	189	0.301 6566	9.951 6702	37	468	
533	9.650 0288	152	9.698 3624	190	0.301 6376	9.951 6664	38	467	
		152		190			38		
534	9.650 0440		9.698 3814		0.301 6186	9.951 6626		466	
535	9.650 0591	151	9.698 4003	189	0.301 5997	9.951 6588	38	465	
536	9.650 0743	152	9.698 4193	190	0.301 5807	9.951 6550	38	464	
		152		189			38		
537	9.650 0895		9.698 4382		0.301 5618	9.951 6512		463	
538	9.650 1047	152	9.698 4572	190	0.301 5428	9.951 6475	37	462	
539	9.650 1198	151	9.698 4762	190	0.301 5238	9.951 6437	38	461	
		152		189			38		
.540	9.650 1350		9.698 4951		0.301 5049	9.951 6399		**.460**	
		152		190			38		
541	9.650 1502		9.698 5141		0.301 4859	9.951 6361		459	
542	9.650 1654	152	9.698 5331	190	0.301 4669	9.951 6323	38	458	
543	9.650 1805	151	9.698 5520	189	0.301 4480	9.951 6285	38	457	
		152		190			38		
544	9.650 1957		9.698 5710		0.301 4290	9.951 6247		456	
545	9.650 2109	152	9.698 5899	189	0.301 4101	9.951 6210	37	455	
546	9.650 2261	152	9.698 6089	190	0.301 3911	9.951 6172	38	454	
		151		190			38		
547	9.650 2412		9.698 6279		0.301 3721	9.951 6134		453	
548	9.650 2564	152	9.698 6468	189	0.301 3532	9.951 6096	38	452	
549	9.650 2716	152	9.698 6658	190	0.301 3342	9.951 6058	38	451	
		152		189			38		
.550	9.650 2868		9.698 6847		0.301 3153	9.951 6020		**.450**	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	190	189
1	19.0	18.9
2	38.0	37.8
3	57.0	56.7
4	76.0	75.6
5	95.0	94.5
6	114.0	113.4
7	133.0	132.3
8	152.0	151.2
9	171.0	170.1

	152
1	15.2
2	30.4
3	45.6
4	60.8
5	76.0
6	91.2
7	106.4
8	121.6
9	136.8

	151
1	15.1
2	30.2
3	45.3
4	60.4
5	75.5
6	90.6
7	105.7
8	120.8
9	135.9

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

$63^\circ.500 - 63^\circ.450$

$26^\circ.550 - 26^\circ.600$

26°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.650 2868		9.698 6847		0.301 3153	9.951 6020		**.450**	
		151		190			38		
551	9.650 3019		9.698 7037		0.301 2963	9.951 5982		449	
552	9.650 3171	152	9.698 7226	189	0.301 2774	9.951 5944	38	448	
553	9.650 3323	152	9.698 7416	190	0.301 2584	9.951 5907	37	447	
		151		190			38		
554	9.650 3474		9.698 7606		0.301 2394	9.951 5869		446	
555	9.650 3626	152	9.698 7795	189	0.301 2205	9.951 5831	38	445	
556	9.650 3778	152	9.698 7985	190	0.301 2015	9.951 5793	38	444	
		151		189			38		
557	9.650 3929		9.698 8174		0.301 1826	9.951 5755		443	
558	9.650 4081	152	9.698 8364	190	0.301 1636	9.951 5717	38	442	
559	9.650 4233	152	9.698 8553	189	0.301 1447	9.951 5679	38	441	
		151		190			38		
.560	9.650 4384		9.698 8743		0.301 1257	9.951 5641		**.440**	
		152		189			38		
561	9.650 4536		9.698 8932		0.301 1068	9.951 5603		439	
562	9.650 4687	151	9.698 9122	190	0.301 0878	9.951 5566	37	438	
563	9.650 4839	152	9.698 9311	189	0.301 0689	9.951 5528	38	437	
		152		190			38		
564	9.650 4991		9.698 9501		0.301 0499	9.951 5490		436	
565	9.650 5142	151	9.698 9690	189	0.301 0310	9.951 5452	38	435	
566	9.650 5294	152	9.698 9880	190	0.301 0120	9.951 5414	38	434	
		151		189			38		
567	9.650 5445		9.699 0069		0.300 9931	9.951 5376		433	
568	9.650 5597	152	9.699 0259	190	0.300 9741	9.951 5338	38	432	
569	9.650 5749	152	9.699 0448	189	0.300 9552	9.951 5300	38	431	
		151		190			38		
.570	9.650 5900		9.699 0638		0.300 9362	9.951 5262		**.430**	
		152		189			38		
571	9.650 6052		9.699 0827		0.300 9173	9.951 5224		429	
572	9.650 6203	151	9.699 1017	190	0.300 8983	9.951 5187	37	428	
573	9.650 6355	152	9.699 1206	189	0.300 8794	9.951 5149	38	427	
		151		190			38		
574	9.650 6506		9.699 1396		0.300 8604	9.951 5111		426	
575	9.650 6658	152	9.699 1585	189	0.300 8415	9.951 5073	38	425	
576	9.650 6809	151	9.699 1775	190	0.300 8225	9.951 5035	38	424	
		152		189			38		
577	9.650 6961		9.699 1964		0.300 8036	9.951 4997		423	
578	9.650 7112	151	9.699 2153	189	0.300 7847	9.951 4959	38	422	
579	9.650 7264	152	9.699 2343	190	0.300 7657	9.951 4921	38	421	
		151		189			38		
.580	9.650 7415		9.699 2532		0.300 7468	9.951 4883		**.420**	
		152		190			38		
581	9.650 7567		9.699 2722		0.300 7278	9.951 4845		419	
582	9.650 7718	151	9.699 2911	189	0.300 7089	9.951 4807	38	418	
583	9.650 7870	152	9.699 3100	189	0.300 6900	9.951 4769	38	417	
		151		190			38		
584	9.650 8021		9.699 3290		0.300 6710	9.951 4731		416	
585	9.650 8173	152	9.699 3479	189	0.300 6521	9.951 4694	37	415	
586	9.650 8324	151	9.699 3669	190	0.300 6331	9.951 4656	38	414	
		152		189			38		
587	9.650 8476		9.699 3858		0.300 6142	9.951 4618		413	
588	9.650 8627	151	9.699 4047	189	0.300 5953	9.951 4580	38	412	
589	9.650 8779	152	9.699 4237	190	0.300 5763	9.951 4542	38	411	
		151		189			38		
.590	9.650 8930		9.699 4426		0.300 5574	9.951 4504		**.410**	
		152		190			38		
591	9.650 9082		9.699 4616		0.300 5384	9.951 4466		409	
592	9.650 9233	151	9.699 4805	189	0.300 5195	9.951 4428	38	408	
593	9.650 9384	151	9.699 4994	189	0.300 5006	9.951 4390	38	407	
		152		190			38		
594	9.650 9536		9.699 5184		0.300 4816	9.951 4352		406	
595	9.650 9687	151	9.699 5373	189	0.300 4627	9.951 4314	38	405	
596	9.650 9839	152	9.699 5562	189	0.300 4438	9.951 4276	38	404	
		151		190			38		
597	9.650 9990		9.699 5752		0.300 4248	9.951 4238		403	
598	9.651 0141	151	9.699 5941	189	0.300 4059	9.951 4200	38	402	
599	9.651 0293	152	9.699 6130	189	0.300 3870	9.951 4162	38	401	
		151		190			38		
.600	9.651 0444		9.699 6320		0.300 3680	9.951 4124		**.400**	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	190	189
1	19.0	18.9
2	38.0	37.8
3	57.0	56.7
4	76.0	75.6
5	95.0	94.5
6	114.0	113.4
7	133.0	132.3
8	152.0	151.2
9	171.0	170.1

	152
1	15.2
2	30.4
3	45.6
4	60.8
5	76.0
6	91.2
7	106.4
8	121.6
9	136.8

	151
1	15.1
2	30.2
3	45.3
4	60.4
5	75.5
6	90.6
7	105.7
8	120.8
9	135.9

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

$63^\circ.450 - 63^\circ.400$

$26^\circ.600$ — $26^\circ.650$

26°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.651 0444		9.699 6320		0.300 3680	9.951 4124		**.400**	
		151		189			38		
601	9.651 0595		9.699 6509		0.300 3491	9.951 4086		399	
602	9.651 0747	152	9.699 6698	189	0.300 3302	9.951 4048	38	398	
603	9.651 0898	151	9.699 6888	190	0.300 3112	9.951 4011	37	397	
		152		189			38		
604	9.651 1050		9.699 7077		0.300 2923	9.951 3973		396	
605	9.651 1201	151	9.699 7266	189	0.300 2734	9.951 3935	38	395	
606	9.651 1352	151	9.699 7456	190	0.300 2544	9.951 3897	38	394	
		151		189			38		
607	9.651 1503		9.699 7645		0.300 2355	9.951 3859		393	
608	9.651 1655	152	9.699 7834	189	0.300 2166	9.951 3821	38	392	
609	9.651 1806	151	9.699 8023	189	0.300 1977	9.951 3783	38	391	
		151		190			38		
.610	9.651 1957		9.699 8213		0.300 1787	9.951 3745		**.390**	
		152		189			38		
611	9.651 2109		9.699 8402		0.300 1598	9.951 3707		389	
612	9.651 2260	151	9.699 8591	189	0.300 1409	9.951 3669	38	388	
613	9.651 2411	151	9.699 8780	189	0.300 1220	9.951 3631	38	387	
		152		190			38		
614	9.651 2563		9.699 8970		0.300 1030	9.951 3593		386	
615	9.651 2714	151	9.699 9159	189	0.300 0841	9.951 3555	38	385	
616	9.651 2865	151	9.699 9348	189	0.300 0652	9.951 3517	38	384	
		151		189			38		
617	9.651 3016		9.699 9537		0.300 0463	9.951 3479		383	
618	9.651 3168	152	9.699 9727	190	0.300 0273	9.951 3441	38	382	
619	9.651 3319	151	9.699 9916	189	0.300 0084	9.951 3403	38	381	
		151		189			38		
.620	9.651 3470		9.700 0105		0.299 9895	9.951 3365		**.380**	
		151		189			38		
621	9.651 3621		9.700 0294		0.299 9706	9.951 3327		379	
622	9.651 3773	152	9.700 0484	190	0.299 9516	9.951 3289	38	378	
623	9.651 3924	151	9.700 0673	189	0.299 9327	9.951 3251	38	377	
		151		189			38		
624	9.651 4075		9.700 0862		0.299 9138	9.951 3213		376	
625	9.651 4226	151	9.700 1051	189	0.299 8949	9.951 3175	38	375	
626	9.651 4377	151	9.700 1240	189	0.299 8760	9.951 3137	38	374	
		152		190			38		
627	9.651 4529		9.700 1430		0.299 8570	9.951 3099		373	
628	9.651 4680	151	9.700 1619	189	0.299 8381	9.951 3061	38	372	
629	9.651 4831	151	9.700 1808	189	0.299 8192	9.951 3023	38	371	
		151		189			38		
.630	9.651 4982		9.700 1997		0.299 8003	9.951 2985		**.370**	
		151		189			38		
631	9.651 5133		9.700 2186		0.299 7814	9.951 2947		369	
632	9.651 5284	151	9.700 2376	190	0.299 7624	9.951 2909	38	368	
633	9.651 5436	152	9.700 2565	189	0.299 7435	9.951 2871	38	367	
		151		189			38		
634	9.651 5587		9.700 2754		0.299 7246	9.951 2833		366	
635	9.651 5738	151	9.700 2943	189	0.299 7057	9.951 2795	38	365	
636	9.651 5889	151	9.700 3132	189	0.299 6868	9.951 2757	38	364	
		151		189			38		
637	9.651 6040		9.700 3321		0.299 6679	9.951 2719		363	
638	9.651 6191	151	9.700 3510	189	0.299 6490	9.951 2681	38	362	
639	9.651 6342	151	9.700 3700	190	0.299 6300	9.951 2643	38	361	
		151		189			38		
.640	9.651 6493		9.700 3889		0.299 6111	9.951 2605		**.360**	
		152		189			38		
641	9.651 6645		9.700 4078		0.299 5922	9.951 2567		359	
642	9.651 6796	151	9.700 4267	189	0.299 5733	9.951 2529	38	358	
643	9.651 6947	151	9.700 4456	189	0.299 5544	9.951 2491	38	357	
		151		189			38		
644	9.651 7098		9.700 4645		0.299 5355	9.951 2453		356	
645	9.651 7249	151	9.700 4834	189	0.299 5166	9.951 2415	38	355	
646	9.651 7400	151	9.700 5023	189	0.299 4977	9.951 2377	38	354	
		151		189			38		
647	9.651 7551		9.700 5212		0.299 4788	9.951 2339		353	
648	9.651 7702	151	9.700 5402	190	0.299 4598	9.951 2301	38	352	
649	9.651 7853	151	9.700 5591	189	0.299 4409	9.951 2262	39	351	
		151		189			38		
.650	9.651 8004		9.700 5780		0.299 4220	9.951 2224		**.350**	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	190	189
1	19.0	18.9
2	38.0	37.8
3	57.0	56.7
4	76.0	75.6
5	95.0	94.5
6	114.0	113.4
7	133.0	132.3
8	152.0	151.2
9	171.0	170.1

	152
1	15.2
2	30.4
3	45.6
4	60.8
5	76.0
6	91.2
7	106.4
8	121.6
9	136.8

	151
1	15.1
2	30.2
3	45.3
4	60.4
5	75.5
6	90.6
7	105.7
8	120.8
9	135.9

	39	38
1	3.9	3.8
2	7.8	7.6
3	11.7	11.4
4	15.6	15.2
5	19.5	19.0
6	23.4	22.8
7	27.3	26.6
8	31.2	30.4
9	35.1	34.2

	37
1	3.7
2	7.4
3	11.1
4	14.8
5	18.5
6	22.2
7	25.9
8	29.6
9	33.3

$63^\circ.400$ — $63^\circ.350$

26°.650 — 26°.700

26°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.651 8004		9.700 5780		0.299 4220	9.951 2224		.350	
		151		189			38		
651	9.651 8155		9.700 5969		0.299 4031	9.951 2186		349	
652	9.651 8306	151	9.700 6158	189	0.299 3842	9.951 2148	38	348	
653	9.651 8457	151	9.700 6347	189	0.299 3653	9.951 2110	38	347	
654	9.651 8608	151	9.700 6536	189	0.299 3464	9.951 2072	38	346	
655	9.651 8759	151	9.700 6725	189	0.299 3275	9.951 2034	38	345	
656	9.651 8910	151	9.700 6914	189	0.299 3086	9.951 1996	38	344	
657	9.651 9061	151	9.700 7103	189	0.299 2897	9.951 1958	38	343	
658	9.651 9212	151	9.700 7292	189	0.299 2708	9.951 1920	38	342	
659	9.651 9363	151	9.700 7481	189	0.299 2519	9.951 1882	38	341	
.660	9.651 9514		9.700 7670		0.299 2330	9.951 1844		.340	
		151		189			38		
661	9.651 9665		9.700 7859		0.299 2141	9.951 1806		339	
662	9.651 9816	151	9.700 8048	189	0.299 1952	9.951 1768	38	338	
663	9.651 9967	151	9.700 8237	189	0.299 1763	9.951 1730	38	337	
664	9.652 0118	151	9.700 8426	189	0.299 1574	9.951 1692	38	336	
665	9.652 0269	151	9.700 8615	189	0.299 1385	9.951 1654	38	335	
666	9.652 0420	151	9.700 8804	189	0.299 1196	9.951 1616	38	334	
667	9.652 0571	151	9.700 8993	189	0.299 1007	9.951 1578	38	333	
668	9.652 0722	151	9.700 9182	189	0.299 0818	9.951 1539	39	332	
669	9.652 0873	151	9.700 9371	189	0.299 0629	9.951 1501	38	331	
.670	9.652 1024		9.700 9560		0.299 0440	9.951 1463	38	.330	
		151		189			38		
671	9.652 1175		9.700 9749		0.299 0251	9.951 1425		329	
672	9.652 1325	150	9.700 9938	189	0.299 0062	9.951 1387	38	328	
673	9.652 1476	151	9.701 0127	189	0.298 9873	9.951 1349	38	327	
674	9.652 1627	151	9.701 0316	189	0.298 9684	9.951 1311	38	326	
675	9.652 1778	151	9.701 0505	189	0.298 9495	9.951 1273	38	325	
676	9.652 1929	151	9.701 0694	189	0.298 9306	9.951 1235	38	324	
677	9.652 2080	151	9.701 0883	189	0.298 9117	9.951 1197	38	323	
678	9.652 2231	151	9.701 1072	189	0.298 8928	9.951 1159	38	322	
679	9.652 2381	150	9.701 1261	189	0.298 8739	9.951 1121	38	321	
.680	9.652 2532	151	9.701 1450	189	0.298 8550	9.951 1083	38	.320	
		151		189			39		
681	9.652 2683		9.701 1639		0.298 8361	9.951 1044		319	
682	9.652 2834	151	9.701 1828	189	0.298 8172	9.951 1006	38	318	
683	9.652 2985	151	9.701 2017	189	0.298 7983	9.951 0968	38	317	
684	9.652 3136	151	9.701 2205	188	0.298 7795	9.951 0930	38	316	
685	9.652 3286	150	9.701 2394	189	0.298 7606	9.951 0892	38	315	
686	9.652 3437	151	9.701 2583	189	0.298 7417	9.951 0854	38	314	
687	9.652 3588	151	9.701 2772	189	0.298 7228	9.951 0816	38	313	
688	9.652 3739	151	9.701 2961	189	0.298 7039	9.951 0778	38	312	
689	9.652 3890	151	9.701 3150	189	0.298 6850	9.951 0740	38	311	
.690	9.652 4040	150	9.701 3339	189	0.298 6661	9.951 0702	38	.310	
		151		189			39		
691	9.652 4191		9.701 3528		0.298 6472	9.951 0663		309	
692	9.652 4342	151	9.701 3717	189	0.298 6283	9.951 0625	38	308	
693	9.652 4493	151	9.701 3905	188	0.298 6095	9.951 0587	38	307	
694	9.652 4643	150	9.701 4094	189	0.298 5906	9.951 0549	38	306	
695	9.652 4794	151	9.701 4283	189	0.298 5717	9.951 0511	38	305	
696	9.652 4945	151	9.701 4472	189	0.298 5528	9.951 0473	38	304	
697	9.652 5096	151	9.701 4661	189	0.298 5339	9.951 0435	38	303	
698	9.652 5246	150	9.701 4850	189	0.298 5150	9.951 0397	38	302	
699	9.652 5397	151	9.701 5039	189	0.298 4961	9.951 0359	38	301	
.700	9.652 5548	151	9.701 5227	188	0.298 4773	9.951 0320	39	.300	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	189	188
1	18.9	18.8
2	37.8	37.6
3	56.7	56.4
4	75.6	75.2
5	94.5	94.0
6	113.4	112.8
7	132.3	131.6
8	151.2	150.4
9	170.1	169.2

	151
1	15.1
2	30.2
3	45.3
4	60.4
5	75.5
6	90.6
7	105.7
8	120.8
9	135.9

	150
1	15.0
2	30.0
3	45.0
4	60.0
5	75.0
6	90.0
7	105.0
8	120.0
9	135.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

63°.350 — 63°.300

26°.700 — 26°.750

26°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.652 5548		9.701 5227		0.298 4773	9.951 0320		.300	
		151		189			38		
701	9.652 5699		9.701 5416		0.298 4584	9.951 0282		299	
702	9.652 5849	150	9.701 5605	189	0.298 4395	9.951 0244	38	298	
703	9.652 6000	151	9.701 5794	189	0.298 4206	9.951 0206	38	297	
		151		189			38		
704	9.652 6151		9.701 5983		0.298 4017	9.951 0168		296	
705	9.652 6301	150	9.701 6172	189	0.298 3828	9.951 0130	38	295	
706	9.652 6452	151	9.701 6360	188	0.298 3640	9.951 0092	38	294	
		151		189			39		
707	9.652 6603		9.701 6549		0.298 3451	9.951 0053		293	
708	9.652 6753	150	9.701 6738	189	0.298 3262	9.951 0015	38	292	
709	9.652 6904	151	9.701 6927	189	0.298 3073	9.950 9977	38	291	
		151		189			38		
.710	9.652 7055		9.701 7116		0.298 2884	9.950 9939		.290	
		150		188			38		
711	9.652 7205		9.701 7304		0.298 2696	9.950 9901		289	
712	9.652 7356	151	9.701 7493	189	0.298 2507	9.950 9863	38	288	
713	9.652 7506	150	9.701 7682	189	0.298 2318	9.950 9825	38	287	
		151		189			38		
714	9.652 7657		9.701 7871		0.298 2129	9.950 9787		286	
715	9.652 7808	151	9.701 8059	188	0.298 1941	9.950 9748	39	285	
716	9.652 7958	150	9.701 8248	189	0.298 1752	9.950 9710	38	284	
		151		189			38		
717	9.652 8109		9.701 8437		0.298 1563	9.950 9672		283	
718	9.652 8260	151	9.701 8626	189	0.298 1374	9.950 9634	38	282	
719	9.652 8410	150	9.701 8814	188	0.298 1186	9.950 9596	38	281	
		151		189			38		
.720	9.652 8561		9.701 9003		0.298 0997	9.950 9558		.280	
		150		189			39		
721	9.652 8711		9.701 9192		0.298 0808	9.950 9519		279	
722	9.652 8862	151	9.701 9381	189	0.298 0619	9.950 9481	38	278	
723	9.652 9012	150	9.701 9569	188	0.298 0431	9.950 9443	38	277	
		151		189			38		
724	9.652 9163		9.701 9758		0.298 0242	9.950 9405		276	
725	9.652 9313	150	9.701 9947	189	0.298 0053	9.950 9367	38	275	
726	9.652 9464	151	9.702 0135	188	0.297 9865	9.950 9329	38	274	
		151		189			39		
727	9.652 9615		9.702 0324		0.297 9676	9.950 9290		273	
728	9.652 9765	150	9.702 0513	189	0.297 9487	9.950 9252	38	272	
729	9.652 9916	151	9.702 0701	188	0.297 9299	9.950 9214	38	271	
		150		189			38		
.730	9.653 0066		9.702 0890		0.297 9110	9.950 9176		.270	
		151		189			38		
731	9.653 0217		9.702 1079		0.297 8921	9.950 9138		269	
732	9.653 0367	150	9.702 1268	189	0.297 8732	9.950 9100	38	268	
733	9.653 0518	151	9.702 1456	188	0.297 8544	9.950 9061	39	267	
		150		189			38		
734	9.653 0668		9.702 1645		0.297 8355	9.950 9023		266	
735	9.653 0819	151	9.702 1834	189	0.297 8166	9.950 8985	38	265	
736	9.653 0969	150	9.702 2022	188	0.297 7978	9.950 8947	38	264	
		151		189			38		
737	9.653 1120		9.702 2211		0.297 7789	9.950 8909		263	
738	9.653 1270	150	9.702 2400	189	0.297 7600	9.950 8871	38	262	
739	9.653 1420	150	9.702 2588	188	0.297 7412	9.950 8832	39	261	
		151		189			38		
.740	9.653 1571		9.702 2777		0.297 7223	9.950 8794		.260	
		150		188			38		
741	9.653 1721		9.702 2965		0.297 7035	9.950 8756		259	
742	9.653 1872	151	9.702 3154	189	0.297 6846	9.950 8718	38	258	
743	9.653 2022	150	9.702 3343	189	0.297 6657	9.950 8680	38	257	
		151		188			39		
744	9.653 2173		9.702 3531		0.297 6469	9.950 8641		256	
745	9.653 2323	150	9.702 3720	189	0.297 6280	9.950 8603	38	255	
746	9.653 2474	151	9.702 3909	189	0.297 6091	9.950 8565	38	254	
		150		188			38		
747	9.653 2624		9.702 4097		0.297 5903	9.950 8527		253	
748	9.653 2774	150	9.702 4286	189	0.297 5714	9.950 8489	38	252	
749	9.653 2925	151	9.702 4474	188	0.297 5526	9.950 8450	39	251	
		150		189			38		
.750	9.653 3075		9.702 4663		0.297 5337	9.950 8412		.250	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	189	188
1	18.9	18.8
2	37.8	37.6
3	56.7	56.4
4	75.6	75.2
5	94.5	94.0
6	113.4	112.8
7	132.3	131.6
8	151.2	150.4
9	170.1	169.2

	151
1	15.1
2	30.2
3	45.3
4	60.4
5	75.5
6	90.6
7	105.7
8	120.8
9	135.9

	150
1	15.0
2	30.0
3	45.0
4	60.0
5	75.0
6	90.0
7	105.0
8	120.0
9	135.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

63°.300 — 63°.250

$26^\circ.750 - 26^\circ.800$

26°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.653 3075		9.702 4663		0.297 5337	9.950 8412		**.250**	
		150		188			38		
751	9.653 3225		9.702 4851		0.297 5149	9.950 8374		249	
752	9.653 3376	151	9.702 5040	189	0.297 4960	9.950 8336	38	248	
753	9.653 3526	150	9.702 5229	189	0.297 4771	9.950 8298	38	247	
		151		188			39		
754	9.653 3677		9.702 5417		0.297 4583	9.950 8259		246	
755	9.653 3827	150	9.702 5606	189	0.297 4394	9.950 8221	38	245	
756	9.653 3977	150	9.702 5794	188	0.297 4206	9.950 8183	38	244	
		151		189			38		
757	9.653 4128		9.702 5983		0.297 4017	9.950 8145		243	
758	9.653 4278	150	9.702 6171	188	0.297 3829	9.950 8106	39	242	
759	9.653 4428	150	9.702 6360	189	0.297 3640	9.950 8068	38	241	
		151		189			38		
.760	9.653 4579		9.702 6549		0.297 3451	9.950 8030		**.240**	
		150		188			38		
761	9.653 4729		9.702 6737		0.297 3263	9.950 7992		239	
762	9.653 4879	150	9.702 6926	189	0.297 3074	9.950 7954	38	238	
763	9.653 5029	150	9.702 7114	188	0.297 2886	9.950 7915	39	237	
		151		189			38		
764	9.653 5180		9.702 7303		0.297 2697	9.950 7877		236	
765	9.653 5330	150	9.702 7491	188	0.297 2509	9.950 7839	38	235	
766	9.653 5480	150	9.702 7680	189	0.297 2320	9.950 7801	38	234	
		151		188			39		
767	9.653 5631		9.702 7868		0.297 2132	9.950 7762		233	
768	9.653 5781	150	9.702 8057	189	0.297 1943	9.950 7724	38	232	
769	9.653 5931	150	9.702 8245	188	0.297 1755	9.950 7686	38	231	
		150		189			38		
.770	9.653 6081		9.702 8434		0.297 1566	9.950 7648		**.230**	
		151		188			39		
771	9.653 6232		9.702 8622		0.297 1378	9.950 7609		229	
772	9.653 6382	150	9.702 8811	189	0.297 1189	9.950 7571	38	228	
773	9.653 6532	150	9.702 8999	188	0.297 1001	9.950 7533	38	227	
		150		189			38		
774	9.653 6682		9.702 9188		0.297 0812	9.950 7495		226	
775	9.653 6833	151	9.702 9376	188	0.297 0624	9.950 7457	38	225	
776	9.653 6983	150	9.702 9565	189	0.297 0435	9.950 7418	39	224	
		150		188			38		
777	9.653 7133		9.702 9753		0.297 0247	9.950 7380		223	
778	9.653 7283	150	9.702 9941	188	0.297 0059	9.950 7342	38	222	
779	9.653 7433	150	9.703 0130	189	0.296 9870	9.950 7304	38	221	
		151		188			39		
.780	9.653 7584		9.703 0318		0.296 9682	9.950 7265		**.220**	
		150		189			38		
781	9.653 7734		9.703 0507		0.296 9493	9.950 7227		219	
782	9.653 7884	150	9.703 0695	188	0.296 9305	9.950 7189	38	218	
783	9.653 8034	150	9.703 0884	189	0.296 9116	9.950 7150	39	217	
		150		188			38		
784	9.653 8184		9.703 1072		0.296 8928	9.950 7112		216	
785	9.653 8334	150	9.703 1260	188	0.296 8740	9.950 7074	38	215	
786	9.653 8485	151	9.703 1449	189	0.296 8551	9.950 7036	38	214	
		150		188			39		
787	9.653 8635		9.703 1637		0.296 8363	9.950 6997		213	
788	9.653 8785	150	9.703 1826	189	0.296 8174	9.950 6959	38	212	
789	9.653 8935	150	9.703 2014	188	0.296 7986	9.950 6921	38	211	
		150		189			38		
.790	9.653 9085		9.703 2203		0.296 7797	9.950 6883		**.210**	
		150		188			39		
791	9.653 9235		9.703 2391		0.296 7609	9.950 6844		209	
792	9.653 9385	150	9.703 2579	188	0.296 7421	9.950 6806	38	208	
793	9.653 9535	150	9.703 2768	189	0.296 7232	9.950 6768	38	207	
		151		188			38		
794	9.653 9686		9.703 2956		0.296 7044	9.950 6730		206	
795	9.653 9836	150	9.703 3144	188	0.296 6856	9.950 6691	39	205	
796	9.653 9986	150	9.703 3333	189	0.296 6667	9.950 6653	38	204	
		150		188			38		
797	9.654 0136		9.703 3521		0.296 6479	9.950 6615		203	
798	9.654 0286	150	9.703 3710	189	0.296 6290	9.950 6576	39	202	
799	9.654 0436	150	9.703 3898	188	0.296 6102	9.950 6538	38	201	
		150		188			38		
.800	9.654 0586		9.703 4086		0.296 5914	9.950 6500		**.200**	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	189	188
1	18.9	18.8
2	37.8	37.6
3	56.7	56.4
4	75.6	75.2
5	94.5	94.0
6	113.4	112.8
7	132.3	131.6
8	151.2	150.4
9	170.1	169.2

	151
1	15.1
2	30.2
3	45.3
4	60.4
5	75.5
6	90.6
7	105.7
8	120.8
9	135.9

	150
1	15.0
2	30.0
3	45.0
4	60.0
5	75.0
6	90.0
7	105.0
8	120.0
9	135.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

$63^\circ.250 - 63^\circ.200$

26°.800 — 26°.850

26°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.654 0586		9.703 4086		0.296 5914	9.950 6500		**.200**	
		150		189			38		
801	9.654 0736		9.703 4275		0.296 5725	9.950 6462		199	
802	9.654 0886	150	9.703 4463	188	0.296 5537	9.950 6423	39	198	
803	9.654 1036	150	9.703 4651	188	0.296 5349	9.950 6385	38	197	
		150		189			38		
804	9.654 1186		9.703 4840		0.296 5160	9.950 6347		196	
805	9.654 1336	150	9.703 5028	188	0.296 4972	9.950 6308	39	195	
806	9.654 1486	150	9.703 5216	188	0.296 4784	9.950 6270	38	194	
		150		188			38		
807	9.654 1636		9.703 5404		0.296 4596	9.950 6232		193	
808	9.654 1786	150	9.703 5593	189	0.296 4407	9.950 6193	39	192	
809	9.654 1936	150	9.703 5781	188	0.296 4219	9.950 6155	38	191	
		150		188			38		
.810	9.654 2086		9.703 5969		0.296 4031	9.950 6117		**.190**	
		150		189			38		
811	9.654 2236		9.703 6158		0.296 3842	9.950 6079		189	
812	9.654 2386	150	9.703 6346	188	0.296 3654	9.950 6040	39	188	
813	9.654 2536	150	9.703 6534	188	0.296 3466	9.950 6002	38	187	
		150		189			38		
814	9.654 2686		9.703 6723		0.296 3277	9.950 5964		186	
815	9.654 2836	150	9.703 6911	188	0.296 3089	9.950 5925	39	185	
816	9.654 2986	150	9.703 7099	188	0.296 2901	9.950 5887	38	184	
		150		188			38		
817	9.654 3136		9.703 7287		0.296 2713	9.950 5849		183	
818	9.654 3286	150	9.703 7476	189	0.296 2524	9.950 5810	39	182	
819	9.654 3436	150	9.703 7664	188	0.296 2336	9.950 5772	38	181	
		150		188			38		
.820	9.654 3586		9.703 7852		0.296 2148	9.950 5734		**.180**	
		150		188			39		
821	9.654 3736		9.703 8040		0.296 1960	9.950 5695		179	
822	9.654 3886	150	9.703 8229	189	0.296 1771	9.950 5657	38	178	
823	9.654 4036	150	9.703 8417	188	0.296 1583	9.950 5619	38	177	
		149		188			39		
824	9.654 4185		9.703 8605		0.296 1395	9.950 5580		176	
825	9.654 4335	150	9.703 8793	188	0.296 1207	9.950 5542	38	175	
826	9.654 4485	150	9.703 8982	189	0.296 1018	9.950 5504	38	174	
		150		188			39		
827	9.654 4635		9.703 9170		0.296 0830	9.950 5465		173	
828	9.654 4785	150	9.703 9358	188	0.296 0642	9.950 5427	38	172	
829	9.654 4935	150	9.703 9546	188	0.296 0454	9.950 5389	38	171	
		150		188			39		
.830	9.654 5085		9.703 9734		0.296 0266	9.950 5350		**.170**	
		150		189			38		
831	9.654 5235		9.703 9923		0.296 0077	9.950 5312		169	
832	9.654 5384	149	9.704 0111	188	0.295 9889	9.950 5274	38	168	
833	9.654 5534	150	9.704 0299	188	0.295 9701	9.950 5235	39	167	
		150		188			38		
834	9.654 5684		9.704 0487		0.295 9513	9.950 5197		166	
835	9.654 5834	150	9.704 0675	188	0.295 9325	9.950 5159	38	165	
836	9.654 5984	150	9.704 0863	188	0.295 9137	9.950 5120	39	164	
		150		189			38		
837	9.654 6134		9.704 1052		0.295 8948	9.950 5082		163	
838	9.654 6283	149	9.704 1240	188	0.295 8760	9.950 5044	38	162	
839	9.654 6433	150	9.704 1428	188	0.295 8572	9.950 5005	39	161	
		150		188			38		
.840	9.654 6583		9.704 1616		0.295 8384	9.950 4967		**.160**	
		150		188			38		
841	9.654 6733		9.704 1804		0.295 8196	9.950 4929		159	
842	9.654 6883	150	9.704 1992	188	0.295 8008	9.950 4890	39	158	
843	9.654 7032	149	9.704 2181	189	0.295 7819	9.950 4852	38	157	
		150		188			38		
844	9.654 7182		9.704 2369		0.295 7631	9.950 4814		156	
845	9.654 7332	150	9.704 2557	188	0.295 7443	9.950 4775	39	155	
846	9.654 7482	150	9.704 2745	188	0.295 7255	9.950 4737	38	154	
		149		188			39		
847	9.654 7631		9.704 2933		0.295 7067	9.950 4698		153	
848	9.654 7781	150	9.704 3121	188	0.295 6879	9.950 4660	38	152	
849	9.654 7931	150	9.704 3309	188	0.295 6691	9.950 4622	38	151	
		150		188			39		
.850	9.654 8081		9.704 3497		0.295 6503	9.950 4583		**.150**	
	cos	d	cotg	d	tang	sin	d	**63°**	P.P.

	189	188
1	18.9	18.8
2	37.8	37.6
3	56.7	56.4
4	75.6	75.2
5	94.5	94.0
6	113.4	112.8
7	132.3	131.6
8	151.2	150.4
9	170.1	169.2

	150
1	15.0
2	30.0
3	45.0
4	60.0
5	75.0
6	90.0
7	105.0
8	120.0
9	135.0

	149
1	14.9
2	29.8
3	44.7
4	59.6
5	74.5
6	89.4
7	104.3
8	119.2
9	134.1

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

63°.200 — 63°.150

26°.850 — 26°.900

26°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.654 8081		9.704 3497		0.295 6503	9.950 4583		**.150**	
		149		188			38		
851	9.654 8230		9.704 3685		0.295 6315	9.950 4545		149	
852	9.654 8380	150	9.704 3874	189	0.295 6126	9.950 4507	38	148	
853	9.654 8530	150	9.704 4062	188	0.295 5938	9.950 4468	38	147	
		150		188			39		
854	9.654 8680		9.704 4250		0.295 5750	9.950 4430	38	146	
855	9.654 8829	149	9.704 4438	188	0.295 5562	9.950 4391	39	145	
856	9.654 8979	150	9.704 4626	188	0.295 5374	9.950 4353	38	144	
		150		188			38		
857	9.654 9129		9.704 4814		0.295 5186	9.950 4315		143	
858	9.654 9278	149	9.704 5002	188	0.295 4998	9.950 4276	39	142	
859	9.654 9428	150	9.704 5190	188	0.295 4810	9.950 4238	38	141	
		150		188			38		
.860	9.654 9578		9.704 5378		0.295 4622	9.950 4200		**.140**	
		149		188			39		
861	9.654 9727		9.704 5566		0.295 4434	9.950 4161	38	139	
862	9.654 9877	150	9.704 5754	188	0.295 4246	9.950 4123	39	138	
863	9.655 0027	150	9.704 5942	188	0.295 4058	9.950 4084	38	137	
		149		188			38		
864	9.655 0176		9.704 6130		0.295 3870	9.950 4046		136	
865	9.655 0326	150	9.704 6318	188	0.295 3682	9.950 4008	39	135	
866	9.655 0476	150	9.704 6506	188	0.295 3494	9.950 3969	38	134	
		149		188			39		
867	9.655 0625		9.704 6694		0.295 3306	9.950 3931		133	
868	9.655 0775	150	9.704 6882	188	0.295 3118	9.950 3892	39	132	
869	9.655 0924	149	9.704 7070	188	0.295 2930	9.950 3854	38	131	
		150		188			38		
.870	9.655 1074		9.704 7258		0.295 2742	9.950 3816		**.130**	
		150		188			39		
871	9.655 1224		9.704 7446		0.295 2554	9.950 3777	38	129	
872	9.655 1373	149	9.704 7634	188	0.295 2366	9.950 3739	39	128	
873	9.655 1523	150	9.704 7822	188	0.295 2178	9.950 3700	38	127	
		149		188			38		
874	9.655 1672		9.704 8010		0.295 1990	9.950 3662		126	
875	9.655 1822	150	9.704 8198	188	0.295 1802	9.950 3624	38	125	
876	9.655 1972	150	9.704 8386	188	0.295 1614	9.950 3585	39	124	
		149		188			38		
877	9.655 2121		9.704 8574		0.295 1426	9.950 3547		123	
878	9.655 2271	150	9.704 8762	188	0.295 1238	9.950 3508	39	122	
879	9.655 2420	149	9.704 8950	188	0.295 1050	9.950 3470	38	121	
		150		188			39		
.880	9.655 2570		9.704 9138		0.295 0862	9.950 3431		**.120**	
		149		188			38		
881	9.655 2719		9.704 9326		0.295 0674	9.950 3393		119	
882	9.655 2869	150	9.704 9514	188	0.295 0486	9.950 3355	38	118	
883	9.655 3018	149	9.704 9702	188	0.295 0298	9.950 3316	39	117	
		150		188			38		
884	9.655 3168		9.704 9890		0.295 0110	9.950 3278		116	
885	9.655 3317	149	9.705 0078	188	0.294 9922	9.950 3239	39	115	
886	9.655 3467	150	9.705 0266	188	0.294 9734	9.950 3201	38	114	
		149		188			39		
887	9.655 3616		9.705 0454		0.294 9546	9.950 3162		113	
888	9.655 3766	150	9.705 0642	188	0.294 9358	9.950 3124	38	112	
889	9.655 3915	149	9.705 0830	188	0.294 9170	9.950 3086	38	111	
		150		188			39		
.890	9.655 4065		9.705 1018		0.294 8982	9.950 3047		**.110**	
		149		188			38		
891	9.655 4214		9.705 1206		0.294 8794	9.950 3009		109	
892	9.655 4364	150	9.705 1393	187	0.294 8607	9.950 2970	39	108	
893	9.655 4513	149	9.705 1581	188	0.294 8419	9.950 2932	38	107	
		150		188			39		
894	9.655 4663		9.705 1769		0.294 8231	9.950 2893		106	
895	9.655 4812	149	9.705 1957	188	0.294 8043	9.950 2855	38	105	
896	9.655 4961	149	9.705 2145	188	0.294 7855	9.950 2816	39	104	
		150		188			38		
897	9.655 5111		9.705 2333		0.294 7667	9.950 2778		103	
898	9.655 5260	149	9.705 2521	188	0.294 7479	9.950 2740	38	102	
899	9.655 5410	150	9.705 2709	188	0.294 7291	9.950 2701	39	101	
		149		188			38		
.900	9.655 5559		9.705 2897		0.294 7103	9.950 2663		**.100**	
	cos	d	cotg	d	tang	sin	d	**63°**	P.P.

	189	188
1	18.9	18.8
2	37.8	37.6
3	56.7	56.4
4	75.6	75.2
5	94.5	94.0
6	113.4	112.8
7	132.3	131.6
8	151.2	150.4
9	170.1	169.2

	187
1	18.7
2	37.4
3	56.1
4	74.8
5	93.5
6	112.2
7	130.9
8	149.6
9	168.3

	150	149
1	15.0	14.9
2	30.0	29.8
3	45.0	44.7
4	60.0	59.6
5	75.0	74.5
6	90.0	89.4
7	105.0	104.3
8	120.0	119.2
9	135.0	134.1

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

63°.150 — 63°.100

26°.900 — 26°.950

26°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.655 5559		9.705 2897		0.294 7103	9.950 2663		**.100**	
		150		187			39		
901	9.655 5709		9.705 3084		0.294 6916	9.950 2624		099	
902	9.655 5858	149	9.705 3272	188	0.294 6728	9.950 2586	38	098	
903	9.655 6007	149	9.705 3460	188	0.294 6540	9.950 2547	39	097	
		150		188			38		
904	9.655 6157		9.705 3648		0.294 6352	9.950 2509		096	
905	9.655 6306	149	9.705 3836	188	0.294 6164	9.950 2470	39	095	
906	9.655 6455	149	9.705 4024	188	0.294 5976	9.950 2432	38	094	
		150		187			39		
907	9.655 6605		9.705 4211		0.294 5789	9.950 2393		093	
908	9.655 6754	149	9.705 4399	188	0.294 5601	9.950 2355	38	092	
909	9.655 6904	150	9.705 4587	188	0.294 5413	9.950 2316	39	091	
		149		188			38		
.910	9.655 7053		9.705 4775		0.294 5225	9.950 2278		**.090**	
		149		188			38		
911	9.655 7202		9.705 4963		0.294 5037	9.950 2240		089	
912	9.655 7352	150	9.705 5151	188	0.294 4849	9.950 2201	39	088	
913	9.655 7501	149	9.705 5338	187	0.294 4662	9.950 2163	38	087	
		149		188			39		
914	9.655 7650		9.705 5526		0.294 4474	9.950 2124		086	
915	9.655 7800	150	9.705 5714	188	0.294 4286	9.950 2086	38	085	
916	9.655 7949	149	9.705 5902	188	0.294 4098	9.950 2047	39	084	
		149		187			38		
917	9.655 8098		9.705 6089		0.294 3911	9.950 2009		083	
918	9.655 8247	149	9.705 6277	188	0.294 3723	9.950 1970	39	082	
919	9.655 8397	150	9.705 6465	188	0.294 3535	9.950 1932	38	081	
		149		188			39		
.920	9.655 8546		9.705 6653		0.294 3347	9.950 1893		**.080**	
		149		188			38		
921	9.655 8695		9.705 6841		0.294 3159	9.950 1855		079	
922	9.655 8845	150	9.705 7028	187	0.294 2972	9.950 1816	39	078	
923	9.655 8994	149	9.705 7216	188	0.294 2784	9.950 1778	38	077	
		149		188			39		
924	9.655 9143		9.705 7404		0.294 2596	9.950 1739		076	
925	9.655 9292	149	9.705 7592	188	0.294 2408	9.950 1701	38	075	
926	9.655 9442	150	9.705 7779	187	0.294 2221	9.950 1662	39	074	
		149		188			38		
927	9.655 9591		9.705 7967		0.294 2033	9.950 1624		073	
928	9.655 9740	149	9.705 8155	188	0.294 1845	9.950 1585	39	072	
929	9.655 9889	149	9.705 8342	187	0.294 1658	9.950 1547	38	071	
		149		188			39		
.930	9.656 0038		9.705 8530		0.294 1470	9.950 1508		**.070**	
		150		188			38		
931	9.656 0188		9.705 8718		0.294 1282	9.950 1470		069	
932	9.656 0337	149	9.705 8906	188	0.294 1094	9.950 1431	39	068	
933	9.656 0486	149	9.705 9093	187	0.294 0907	9.950 1393	38	067	
		149		188			39		
934	9.656 0635		9.705 9281		0.294 0719	9.950 1354		066	
935	9.656 0784	149	9.705 9469	188	0.294 0531	9.950 1316	38	065	
936	9.656 0934	150	9.705 9656	187	0.294 0344	9.950 1277	39	064	
		149		188			38		
937	9.656 1083		9.705 9844		0.294 0156	9.950 1239		063	
938	9.656 1232	149	9.706 0032	188	0.293 9968	9.950 1200	39	062	
939	9.656 1381	149	9.706 0219	187	0.293 9781	9.950 1162	38	061	
		149		188			39		
.940	9.656 1530		9.706 0407		0.293 9593	9.950 1123		**.060**	
		149		188			38		
941	9.656 1679		9.706 0595		0.293 9405	9.950 1085		059	
942	9.656 1829	150	9.706 0782	187	0.293 9218	9.950 1046	39	058	
943	9.656 1978	149	9.706 0970	188	0.293 9030	9.950 1008	38	057	
		149		188			39		
944	9.656 2127		9.706 1158		0.293 8842	9.950 0969		056	
945	9.656 2276	149	9.706 1345	187	0.293 8655	9.950 0930	39	055	
946	9.656 2425	149	9.706 1533	188	0.293 8467	9.950 0892	38	054	
		149		188			39		
947	9.656 2574		9.706 1721		0.293 8279	9.950 0853		053	
948	9.656 2723	149	9.706 1908	187	0.293 8092	9.950 0815	38	052	
949	9.656 2872	149	9.706 2096	188	0.293 7904	9.950 0776	39	051	
		149		188			38		
.950	9.656 3021		9.706 2284		0.293 7716	9.950 0738		**.050**	
	cos	d	cotg	d	tang	sin	d	**63°**	P.P.

	188	187
1	18.8	18.7
2	37.6	37.4
3	56.4	56.1
4	75.2	74.8
5	94.0	93.5
6	112.8	112.2
7	131.6	130.9
8	150.4	149.6
9	169.2	168.3

	150
1	15.0
2	30.0
3	45.0
4	60.0
5	75.0
6	90.0
7	105.0
8	120.0
9	135.0

	149
1	14.9
2	29.8
3	44.7
4	59.6
5	74.5
6	89.4
7	104.3
8	119.2
9	134.1

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

63°.100 — 63°.050

26°.950 — 27°.000

26°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.656 3021		9.706 2284		0.293 7716	9.950 0738		.050	
		150		187			39		
951	9.656 3171		9.706 2471		0.293 7529	9.950 0699		049	
952	9.656 3320	149	9.706 2659	188	0.293 7341	9.950 0661	38	048	
953	9.656 3469	149	9.706 2846	187	0.293 7154	9.950 0622	39	047	
		149		188			38		
954	9.656 3618		9.706 3034		0.293 6966	9.950 0584		046	
955	9.656 3767	149	9.706 3222	188	0.293 6778	9.950 0545	39	045	
956	9.656 3916	149	9.706 3409	187	0.293 6591	9.950 0507	38	044	
		149		188			39		
957	9.656 4065		9.706 3597		0.293 6403	9.950 0468		043	
958	9.656 4214	149	9.706 3784	187	0.293 6216	9.950 0429	39	042	
959	9.656 4363	149	9.706 3972	188	0.293 6028	9.950 0391	38	041	
		149		188			39		
.960	9.656 4512		9.706 4160		0.293 5840	9.950 0352		.040	
		149		187			38		
961	9.656 4661		9.706 4347		0.293 5653	9.950 0314		039	
962	9.656 4810	149	9.706 4535	188	0.293 5465	9.950 0275	39	038	
963	9.656 4959	149	9.706 4722	187	0.293 5278	9.950 0237	38	037	
		149		188			39		
964	9.656 5108		9.706 4910		0.293 5090	9.950 0198		036	
965	9.656 5257	149	9.706 5097	187	0.293 4903	9.950 0160	38	035	
966	9.656 5406	149	9.706 5285	188	0.293 4715	9.950 0121	39	034	
		149		188			39		
967	9.656 5555		9.706 5473		0.293 4527	9.950 0082		033	
968	9.656 5704	149	9.706 5660	187	0.293 4340	9.950 0044	38	032	
969	9.656 5853	149	9.706 5848	188	0.293 4152	9.950 0005	39	031	
		149		187			38		
.970	9.656 6002		9.706 6035		0.293 3965	9.949 9967		.030	
		149		188			39		
971	9.656 6151		9.706 6223		0.293 3777	9.949 9928		029	
972	9.656 6300	149	9.706 6410	187	0.293 3590	9.949 9890	38	028	
973	9.656 6449	149	9.706 6598	188	0.293 3402	9.949 9851	39	027	
		149		187			39		
974	9.656 6598		9.706 6785		0.293 3215	9.949 9812		026	
975	9.656 6747	149	9.706 6973	188	0.293 3027	9.949 9774	38	025	
976	9.656 6895	148	9.706 7160	187	0.293 2840	9.949 9735	39	024	
		149		188			38		
977	9.656 7044		9.706 7348		0.293 2652	9.949 9697		023	
978	9.656 7193	149	9.706 7535	187	0.293 2465	9.949 9658	39	022	
979	9.656 7342	149	9.706 7723	188	0.293 2277	9.949 9620	38	021	
		149		187			39		
.980	9.656 7491		9.706 7910		0.293 2090	9.949 9581		.020	
		149		188			39		
981	9.656 7640		9.706 8098		0.293 1902	9.949 9542		019	
982	9.656 7789	149	9.706 8285	187	0.293 1715	9.949 9504	38	018	
983	9.656 7938	149	9.706 8473	188	0.293 1527	9.949 9465	39	017	
		149		187			38		
984	9.656 8087		9.706 8660		0.293 1340	9.949 9427		016	
985	9.656 8235	148	9.706 8848	188	0.293 1152	9.949 9388	39	015	
986	9.656 8384	149	9.706 9035	187	0.293 0965	9.949 9349	39	014	
		149		187			38		
987	9.656 8533		9.706 9222		0.293 0778	9.949 9311		013	
988	9.656 8682	149	9.706 9410	188	0.293 0590	9.949 9272	39	012	
989	9.656 8831	149	9.706 9597	187	0.293 0403	9.949 9234	38	011	
		149		188			39		
.990	9.656 8980		9.706 9785		0.293 0215	9.949 9195		.010	
		149		187			39		
991	9.656 9129		9.706 9972		0.293 0028	9.949 9156		009	
992	9.656 9277	148	9.707 0160	188	0.292 9840	9.949 9118	38	008	
993	9.656 9426	149	9.707 0347	187	0.292 9653	9.949 9079	39	007	
		149		187			38		
994	9.656 9575		9.707 0534		0.292 9466	9.949 9041		006	
995	9.656 9724	149	9.707 0722	188	0.292 9278	9.949 9002	39	005	
996	9.656 9873	149	9.707 0909	187	0.292 9091	9.949 8963	39	004	
		148		188			38		
997	9.657 0021		9.707 1097		0.292 8903	9.949 8925		003	
998	9.657 0170	149	9.707 1284	187	0.292 8716	9.949 8886	39	002	
999	9.657 0319	149	9.707 1471	187	0.292 8529	9.949 8847	39	001	
		149		188			38		
*.000	9.657 0468		9.707 1659		0.292 8341	9.949 8809		.000	
	cos	d	cotg	d	tang	sin	d	63°	P.P.

	188	187
1	18.8	18.7
2	37.6	37.4
3	56.4	56.1
4	75.2	74.8
5	94.0	93.5
6	112.8	112.2
7	131.6	130.9
8	150.4	149.6
9	169.2	168.3

	150	149
1	15.0	14.9
2	30.0	29.8
3	45.0	44.7
4	60.0	59.6
5	75.0	74.5
6	90.0	89.4
7	105.0	104.3
8	120.0	119.2
9	135.0	134.1

	148
1	14.8
2	29.6
3	44.4
4	59.2
5	74.0
6	88.8
7	103.6
8	118.4
9	133.2

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

63°.050 — 63°.000

27°.000 — 27°.050

27°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.657 0468		9.707 1659		0.292 8341	9.949 8809		*000	
		148		187			39		
001	9.657 0616		9.707 1846		0.292 8154	9.949 8770		999	
002	9.657 0765	149	9.707 2034	188	0.292 7966	9.949 8732	38	998	
003	9.657 0914	149	9.707 2221	187	0.292 7779	9.949 8693	39	997	
		149		187			39		
004	9.657 1063		9.707 2408		0.292 7592	9.949 8654		996	
005	9.657 1211	148	9.707 2596	188	0.292 7404	9.949 8616	38	995	
006	9.657 1360	149	9.707 2783	187	0.292 7217	9.949 8577	39	994	
		149		187			39		
007	9.657 1509		9.707 2970		0.292 7030	9.949 8538		993	
008	9.657 1658	149	9.707 3158	188	0.292 6842	9.949 8500	38	992	
009	9.657 1806	148	9.707 3345	187	0.292 6655	9.949 8461	39	991	
		149		187			38		
.010	9.657 1955		9.707 3532		0.292 6468	9.949 8423		.990	
		149		188			39		
011	9.657 2104		9.707 3720		0.292 6280	9.949 8384		989	
012	9.657 2252	148	9.707 3907	187	0.292 6093	9.949 8345	39	988	
013	9.657 2401	149	9.707 4094	187	0.292 5906	9.949 8307	38	987	
		149		188			39		
014	9.657 2550		9.707 4282		0.292 5718	9.949 8268		986	
015	9.657 2698	148	9.707 4469	187	0.292 5531	9.949 8229	39	985	
016	9.657 2847	149	9.707 4656	187	0.292 5344	9.949 8191	38	984	
		149		188			39		
017	9.657 2996		9.707 4844		0.292 5156	9.949 8152		983	
018	9.657 3144	148	9.707 5031	187	0.292 4969	9.949 8113	39	982	
019	9.657 3293	149	9.707 5218	187	0.292 4782	9.949 8075	38	981	
		149		188			39		
.020	9.657 3442		9.707 5406		0.292 4594	9.949 8036		.980	
		148		187			39		
021	9.657 3590		9.707 5593		0.292 4407	9.949 7997		979	
022	9.657 3739	149	9.707 5780	187	0.292 4220	9.949 7959	38	978	
023	9.657 3888	149	9.707 5967	187	0.292 4033	9.949 7920	39	977	
		148		188			39		
024	9.657 4036		9.707 6155		0.292 3845	9.949 7881		976	
025	9.657 4185	149	9.707 6342	187	0.292 3658	9.949 7843	38	975	
026	9.657 4333	148	9.707 6529	187	0.292 3471	9.949 7804	39	974	
		149		187			39		
027	9.657 4482		9.707 6716		0.292 3284	9.949 7765		973	
028	9.657 4631	149	9.707 6904	188	0.292 3096	9.949 7727	38	972	
029	9.657 4779	148	9.707 7091	187	0.292 2909	9.949 7688	39	971	
		149		187			39		
.030	9.657 4928		9.707 7278		0.292 2722	9.949 7649		.970	
		148		187			38		
031	9.657 5076		9.707 7465		0.292 2535	9.949 7611		969	
032	9.657 5225	149	9.707 7653	188	0.292 2347	9.949 7572	39	968	
033	9.657 5373	148	9.707 7840	187	0.292 2160	9.949 7533	39	967	
		149		187			38		
034	9.657 5522		9.707 8027		0.292 1973	9.949 7495		966	
035	9.657 5670	148	9.707 8214	187	0.292 1786	9.949 7456	39	965	
036	9.657 5819	149	9.707 8402	188	0.292 1598	9.949 7417	39	964	
		149		187			38		
037	9.657 5968		9.707 8589		0.292 1411	9.949 7379		963	
038	9.657 6116	148	9.707 8776	187	0.292 1224	9.949 7340	39	962	
039	9.657 6265	149	9.707 8963	187	0.292 1037	9.949 7301	39	961	
		148		187			38		
.040	9.657 6413		9.707 9150		0.292 0850	9.949 7263		.960	
		149		188			39		
041	9.657 6562		9.707 9338		0.292 0662	9.949 7224		959	
042	9.657 6710	148	9.707 9525	187	0.292 0475	9.949 7185	39	958	
043	9.657 6859	149	9.707 9712	187	0.292 0288	9.949 7147	38	957	
		148		187			39		
044	9.657 7007		9.707 9899		0.292 0101	9.949 7108		956	
045	9.657 7156	149	9.708 0086	187	0.291 9914	9.949 7069	39	955	
046	9.657 7304	148	9.708 0273	187	0.291 9727	9.949 7030	39	954	
		148		188			38		
047	9.657 7452		9.708 0461		0.291 9539	9.949 6992		953	
048	9.657 7601	149	9.708 0648	187	0.291 9352	9.949 6953	39	952	
049	9.657 7749	148	9.708 0835	187	0.291 9165	9.949 6914	39	951	
		149		187			38		
.050	9.657 7898		9.708 1022		0.291 8978	9.949 6876		.950	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	188	187
1	18.8	18.7
2	37.6	37.4
3	56.4	56.1
4	75.2	74.8
5	94.0	93.5
6	112.8	112.2
7	131.6	130.9
8	150.4	149.6
9	169.2	168.3

	149
1	14.9
2	29.8
3	44.7
4	59.6
5	74.5
6	89.4
7	104.3
8	119.2
9	134.1

	148
1	14.8
2	29.6
3	44.4
4	59.2
5	74.0
6	88.8
7	103.6
8	118.4
9	133.2

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

63°.000 — 62°.950

27°.050 — 27°.100

27°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.657 7898		9.708 1022		0.291 8978	9.949 6876		**.950**	
		148		187			39		
051	9.657 8046		9.708 1209		0.291 8791	9.949 6837		949	
052	9.657 8195	149	9.708 1396	187	0.291 8604	9.949 6798	39	948	
053	9.657 8343	148	9.708 1584	188	0.291 8416	9.949 6760	38	947	
		149		187			39		
054	9.657 8492		9.708 1771		0.291 8229	9.949 6721		946	
055	9.657 8640	148	9.708 1958	187	0.291 8042	9.949 6682	39	945	
056	9.657 8788	148	9.708 2145	187	0.291 7855	9.949 6643	39	944	
		149		187			38		
057	9.657 8937		9.708 2332		0.291 7668	9.949 6605		943	
058	9.657 9085	148	9.708 2519	187	0.291 7481	9.949 6566	39	942	
059	9.657 9234	149	9.708 2706	187	0.291 7294	9.949 6527	39	941	
		148		187			38		
.060	9.657 9382		9.708 2893		0.291 7107	9.949 6489		**.940**	
		148		187			39		
061	9.657 9530		9.708 3080		0.291 6920	9.949 6450		939	
062	9.657 9679	149	9.708 3268	188	0.291 6732	9.949 6411	39	938	
063	9.657 9827	148	9.708 3455	187	0.291 6545	9.949 6372	39	937	
		148		187			38		
064	9.657 9975		9.708 3642		0.291 6358	9.949 6334		936	
065	9.658 0124	149	9.708 3829	187	0.291 6171	9.949 6295	39	935	
066	9.658 0272	148	9.708 4016	187	0.291 5984	9.949 6256	39	934	
		148		187			39		
067	9.658 0420		9.708 4203		0.291 5797	9.949 6217		933	
068	9.658 0569	149	9.708 4390	187	0.291 5610	9.949 6179	38	932	
069	9.658 0717	148	9.708 4577	187	0.291 5423	9.949 6140	39	931	
		148		187			39		
.070	9.658 0865		9.708 4764		0.291 5236	9.949 6101		**.930**	
		149		187			38		
071	9.658 1014		9.708 4951		0.291 5049	9.949 6063		929	
072	9.658 1162	148	9.708 5138	187	0.291 4862	9.949 6024	39	928	
073	9.658 1310	148	9.708 5325	187	0.291 4675	9.949 5985	39	927	
		149		187			39		
074	9.658 1459		9.708 5512		0.291 4488	9.949 5946		926	
075	9.658 1607	148	9.708 5699	187	0.291 4301	9.949 5908	38	925	
076	9.658 1755	148	9.708 5886	187	0.291 4114	9.949 5869	39	924	
		148		187			39		
077	9.658 1903		9.708 6073		0.291 3927	9.949 5830		923	
078	9.658 2052	149	9.708 6260	187	0.291 3740	9.949 5791	39	922	
079	9.658 2200	148	9.708 6447	187	0.291 3553	9.949 5753	38	921	
		148		187			39		
.080	9.658 2348		9.708 6634		0.291 3366	9.949 5714		**.920**	
		148		187			39		
081	9.658 2496		9.708 6821		0.291 3179	9.949 5675		919	
082	9.658 2645	149	9.708 7008	187	0.291 2992	9.949 5636	39	918	
083	9.658 2793	148	9.708 7195	187	0.291 2805	9.949 5598	38	917	
		148		187			39		
084	9.658 2941		9.708 7382		0.291 2618	9.949 5559		916	
085	9.658 3089	148	9.708 7569	187	0.291 2431	9.949 5520	39	915	
086	9.658 3238	149	9.708 7756	187	0.291 2244	9.949 5481	39	914	
		148		187			39		
087	9.658 3386		9.708 7943		0.291 2057	9.949 5442		913	
088	9.658 3534	148	9.708 8130	187	0.291 1870	9.949 5404	38	912	
089	9.658 3682	148	9.708 8317	187	0.291 1683	9.949 5365	39	911	
		148		187			39		
.090	9.658 3830		9.708 8504		0.291 1496	9.949 5326		**.910**	
		149		187			39		
091	9.658 3979		9.708 8691		0.291 1309	9.949 5287		909	
092	9.658 4127	148	9.708 8878	187	0.291 1122	9.949 5249	38	908	
093	9.658 4275	148	9.708 9065	187	0.291 0935	9.949 5210	39	907	
		148		187			39		
094	9.658 4423		9.708 9252		0.291 0748	9.949 5171		906	
095	9.658 4571	148	9.708 9439	187	0.291 0561	9.949 5132	39	905	
096	9.658 4719	148	9.708 9626	187	0.291 0374	9.949 5094	38	904	
		149		187			39		
097	9.658 4868		9.708 9813		0.291 0187	9.949 5055		903	
098	9.658 5016	148	9.709 0000	187	0.291 0000	9.949 5016	39	902	
099	9.658 5164	148	9.709 0187	187	0.290 9813	9.949 4977	39	901	
		148		187			39		
.100	9.658 5312		9.709 0374		0.290 9626	9.949 4938		**.900**	
	cos	d	cotg	d	tang	sin	d	**62°**	P.P.

	188	187
1	18.8	18.7
2	37.6	37.4
3	56.4	56.1
4	75.2	74.8
5	94.0	93.5
6	112.8	112.2
7	131.6	130.9
8	150.4	149.6
9	169.2	168.3

	149
1	14.9
2	29.8
3	44.7
4	59.6
5	74.5
6	89.4
7	104.3
8	119.2
9	134.1

	148
1	14.8
2	29.6
3	44.4
4	59.2
5	74.0
6	88.8
7	103.6
8	118.4
9	133.2

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

62°.950 — 62°.900

27°.100 — 27°.150

27°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.658 5312		9.709 0374		0.290 9626	9.949 4938		.900	
		148		186			38		
101	9.658 5460		9.709 0560		0.290 9440	9.949 4900		899	
102	9.658 5608	148	9.709 0747	187	0.290 9253	9.949 4861	39	898	
103	9.658 5756	148	9.709 0934	187	0.290 9066	9.949 4822	39	897	
		148		187			39		
104	9.658 5904		9.709 1121		0.290 8879	9.949 4783		896	
105	9.658 6052	148	9.709 1308	187	0.290 8692	9.949 4744	39	895	
106	9.658 6201	149	9.709 1495	187	0.290 8505	9.949 4706	38	894	
		148		187			39		
107	9.658 6349		9.709 1682		0.290 8318	9.949 4667		893	
108	9.658 6497	148	9.709 1869	187	0.290 8131	9.949 4628	39	892	
109	9.658 6645	148	9.709 2056	187	0.290 7944	9.949 4589	39	891	
		148		186			39		
.110	9.658 6793		9.709 2242		0.290 7758	9.949 4550		.890	
		148		187			38		
111	9.658 6941		9.709 2429		0.290 7571	9.949 4512		889	
112	9.658 7089	148	9.709 2616	187	0.290 7384	9.949 4473	39	888	
113	9.658 7237	148	9.709 2803	187	0.290 7197	9.949 4434	39	887	
		148		187			39		
114	9.658 7385		9.709 2990		0.290 7010	9.949 4395		886	
115	9.658 7533	148	9.709 3177	187	0.290 6823	9.949 4356	39	885	
116	9.658 7681	148	9.709 3364	187	0.290 6636	9.949 4318	38	884	
		148		186			39		
117	9.658 7829		9.709 3550		0.290 6450	9.949 4279		883	
118	9.658 7977	148	9.709 3737	187	0.290 6263	9.949 4240	39	882	
119	9.658 8125	148	9.709 3924	187	0.290 6076	9.949 4201	39	881	
		148		187			39		
.120	9.658 8273		9.709 4111		0.290 5889	9.949 4162		.880	
		148		187			39		
121	9.658 8421		9.709 4298		0.290 5702	9.949 4123		879	
122	9.658 8569	148	9.709 4485	187	0.290 5515	9.949 4085	38	878	
123	9.658 8717	148	9.709 4671	186	0.290 5329	9.949 4046	39	877	
		148		187			39		
124	9.658 8865		9.709 4858		0.290 5142	9.949 4007		876	
125	9.658 9013	148	9.709 5045	187	0.290 4955	9.949 3968	39	875	
126	9.658 9161	148	9.709 5232	187	0.290 4768	9.949 3929	39	874	
		148		186			39		
127	9.658 9309		9.709 5418		0.290 4582	9.949 3890		873	
128	9.658 9457	148	9.709 5605	187	0.290 4395	9.949 3852	38	872	
129	9.658 9605	148	9.709 5792	187	0.290 4208	9.949 3813	39	871	
		148		187			39		
.130	9.658 9753		9.709 5979		0.290 4021	9.949 3774		.870	
		148		187			39		
131	9.658 9901		9.709 6166		0.290 3834	9.949 3735		869	
132	9.659 0049	148	9.709 6352	186	0.290 3648	9.949 3696	39	868	
133	9.659 0197	148	9.709 6539	187	0.290 3461	9.949 3657	39	867	
		147		187			38		
134	9.659 0344		9.709 6726		0.290 3274	9.949 3619		866	
135	9.659 0492	148	9.709 6913	187	0.290 3087	9.949 3580	39	865	
136	9.659 0640	148	9.709 7099	186	0.290 2901	9.949 3541	39	864	
		148		187			39		
137	9.659 0788		9.709 7286		0.290 2714	9.949 3502		863	
138	9.659 0936	148	9.709 7473	187	0.290 2527	9.949 3463	39	862	
139	9.659 1084	148	9.709 7660	187	0.290 2340	9.949 3424	39	861	
		148		186			38		
.140	9.659 1232		9.709 7846		0.290 2154	9.949 3386		.860	
		148		187			39		
141	9.659 1380		9.709 8033		0.290 1967	9.949 3347		859	
142	9.659 1528	148	9.709 8220	187	0.290 1780	9.949 3308	39	858	
143	9.659 1675	147	9.709 8406	186	0.290 1594	9.949 3269	39	857	
		148		187			39		
144	9.659 1823		9.709 8593		0.290 1407	9.949 3230		856	
145	9.659 1971	148	9.709 8780	187	0.290 1220	9.949 3191	39	855	
146	9.659 2119	148	9.709 8967	187	0.290 1033	9.949 3152	39	854	
		148		186			39		
147	9.659 2267		9.709 9153		0.290 0847	9.949 3113		853	
148	9.659 2415	148	9.709 9340	187	0.290 0660	9.949 3075	38	852	
149	9.659 2562	147	9.709 9527	187	0.290 0473	9.949 3036	39	851	
		148		186			39		
.150	9.659 2710		9.709 9713		0.290 0287	9.949 2997		.850	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	187	186
1	18.7	18.6
2	37.4	37.2
3	56.1	55.8
4	74.8	74.4
5	93.5	93.0
6	112.2	111.6
7	130.9	130.2
8	149.6	148.8
9	168.3	167.4

	149	148
1	14.9	14.8
2	29.8	29.6
3	44.7	44.4
4	59.6	59.2
5	74.5	74.0
6	89.4	88.8
7	104.3	103.6
8	119.2	118.4
9	134.1	133.2

	147
1	14.7
2	29.4
3	44.1
4	58.8
5	73.5
6	88.2
7	102.9
8	117.6
9	132.3

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

62°.900 — 62°.850

27°.150 — 27°.200

27°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.659 2710		9.709 9713		0.290 0287	9.949 2997		.850	
		148		187			39		
151	9.659 2858		9.709 9900		0.290 0100	9.949 2958		849	
152	9.659 3006	148	9.710 0087	187	0.289 9913	9.949 2919	39	848	
153	9.659 3154	148	9.710 0273	186	0.289 9727	9.949 2880	39	847	
		147		187			39		
154	9.659 3301		9.710 0460		0.289 9540	9.949 2841		846	
155	9.659 3449	148	9.710 0647	187	0.289 9353	9.949 2802	39	845	
156	9.659 3597	148	9.710 0833	186	0.289 9167	9.949 2764	38	844	
		148		187			39		
157	9.659 3745		9.710 1020		0.289 8980	9.949 2725		843	
158	9.659 3892	147	9.710 1207	187	0.289 8793	9.949 2686	39	842	
159	9.659 4040	148	9.710 1393	186	0.289 8607	9.949 2647	39	841	
		148		187			39		
.160	9.659 4188		9.710 1580		0.289 8420	9.949 2608		.840	
		148		186			39		
161	9.659 4336		9.710 1766		0.289 8234	9.949 2569		839	
162	9.659 4483	147	9.710 1953	187	0.289 8047	9.949 2530	39	838	
163	9.659 4631	148	9.710 2140	187	0.289 7860	9.949 2491	39	837	
		148		186			38		
164	9.659 4779		9.710 2326		0.289 7674	9.949 2453		836	
165	9.659 4927	148	9.710 2513	187	0.289 7487	9.949 2414	39	835	
166	9.659 5074	147	9.710 2700	187	0.289 7300	9.949 2375	39	834	
		148		186			39		
167	9.659 5222		9.710 2886		0.289 7114	9.949 2336		833	
168	9.659 5370	148	9.710 3073	187	0.289 6927	9.949 2297	39	832	
169	9.659 5517	147	9.710 3259	186	0.289 6741	9.949 2258	39	831	
		148		187			39		
.170	9.659 5665		9.710 3446		0.289 6554	9.949 2219		.830	
		148		186			39		
171	9.659 5813		9.710 3632		0.289 6368	9.949 2180		829	
172	9.659 5960	147	9.710 3819	187	0.289 6181	9.949 2141	39	828	
173	9.659 6108	148	9.710 4006	187	0.289 5994	9.949 2102	39	827	
		148		186			39		
174	9.659 6256		9.710 4192		0.289 5808	9.949 2063		826	
175	9.659 6403	147	9.710 4379	187	0.289 5621	9.949 2025	38	825	
176	9.659 6551	148	9.710 4565	186	0.289 5435	9.949 1986	39	824	
		148		187			39		
177	9.659 6699		9.710 4752		0.289 5248	9.949 1947		823	
178	9.659 6846	147	9.710 4938	186	0.289 5062	9.949 1908	39	822	
179	9.659 6994	148	9.710 5125	187	0.289 4875	9.949 1869	39	821	
		147		187			39		
.180	9.659 7141		9.710 5312		0.289 4688	9.949 1830		.820	
		148		186			39		
181	9.659 7289		9.710 5498		0.289 4502	9.949 1791		819	
182	9.659 7437	148	9.710 5685	187	0.289 4315	9.949 1752	39	818	
183	9.659 7584	147	9.710 5871	186	0.289 4129	9.949 1713	39	817	
		148		187			39		
184	9.659 7732		9.710 6058		0.289 3942	9.949 1674		816	
185	9.659 7879	147	9.710 6244	186	0.289 3756	9.949 1635	39	815	
186	9.659 8027	148	9.710 6431	187	0.289 3569	9.949 1596	39	814	
		148		186			39		
187	9.659 8175		9.710 6617		0.289 3383	9.949 1557		813	
188	9.659 8322	147	9.710 6804	187	0.289 3196	9.949 1519	38	812	
189	9.659 8470	148	9.710 6990	186	0.289 3010	9.949 1480	39	811	
		147		187			39		
.190	9.659 8617		9.710 7177		0.289 2823	9.949 1441		.810	
		148		186			39		
191	9.659 8765		9.710 7363		0.289 2637	9.949 1402		809	
192	9.659 8912	147	9.710 7550	187	0.289 2450	9.949 1363	39	808	
193	9.659 9060	148	9.710 7736	186	0.289 2264	9.949 1324	39	807	
		147		187			39		
194	9.659 9207		9.710 7923		0.289 2077	9.949 1285		806	
195	9.659 9355	148	9.710 8109	186	0.289 1891	9.949 1246	39	805	
196	9.659 9503	148	9.710 8296	187	0.289 1704	9.949 1207	39	804	
		147		186			39		
197	9.659 9650		9.710 8482		0.289 1518	9.949 1168		803	
198	9.659 9798	148	9.710 8668	186	0.289 1332	9.949 1129	39	802	
199	9.659 9945	147	9.710 8855	187	0.289 1145	9.949 1090	39	801	
		148		186			39		
.200	9.660 0093		9.710 9041		0.289 0959	9.949 1051		.800	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	187	186
1	18.7	18.6
2	37.4	37.2
3	56.1	55.8
4	74.8	74.4
5	93.5	93.0
6	112.2	111.6
7	130.9	130.2
8	149.6	148.8
9	168.3	167.4

	148
1	14.8
2	29.6
3	44.4
4	59.2
5	74.0
6	88.8
7	103.6
8	118.4
9	133.2

	147
1	14.7
2	29.4
3	44.1
4	58.8
5	73.5
6	88.2
7	102.9
8	117.6
9	132.3

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

62°.850 — 62°.800

27°.200 — 27°.250

27°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.660 0093		9.710 9041		0.289 0959	9.949 1051		**.800**	
		147		187			39		
201	9.660 0240		9.710 9228		0.289 0772	9.949 1012		799	
202	9.660 0387	147	9.710 9414	186	0.289 0586	9.949 0973	39	798	
203	9.660 0535	148	9.710 9601	187	0.289 0399	9.949 0934	39	797	
		147		186			39		
204	9.660 0682		9.710 9787		0.289 0213	9.949 0895		796	
205	9.660 0830	148	9.710 9973	186	0.289 0027	9.949 0856	39	795	
206	9.660 0977	147	9.711 0160	187	0.288 9840	9.949 0817	39	794	
		148		186			39		
207	9.660 1125		9.711 0346		0.288 9654	9.949 0778		793	
208	9.660 1272	147	9.711 0533	187	0.288 9467	9.949 0740	38	792	
209	9.660 1420	148	9.711 0719	186	0.288 9281	9.949 0701	39	791	
		147		187			39		
.210	9.660 1567		9.711 0906		0.288 9094	9.949 0662		**.790**	
		148		186			39		
211	9.660 1715		9.711 1092		0.288 8908	9.949 0623		789	
212	9.660 1862	147	9.711 1278	186	0.288 8722	9.949 0584	39	788	
213	9.660 2009	147	9.711 1465	187	0.288 8535	9.949 0545	39	787	
		148		186			39		
214	9.660 2157		9.711 1651		0.288 8349	9.949 0506		786	
215	9.660 2304	147	9.711 1837	186	0.288 8163	9.949 0467	39	785	
216	9.660 2452	148	9.711 2024	187	0.288 7976	9.949 0428	39	784	
		147		186			39		
217	9.660 2599		9.711 2210		0.288 7790	9.949 0389		783	
218	9.660 2746	147	9.711 2397	187	0.288 7603	9.949 0350	39	782	
219	9.660 2894	148	9.711 2583	186	0.288 7417	9.949 0311	39	781	
		147		186			39		
.220	9.660 3041		9.711 2769		0.288 7231	9.949 0272		**.780**	
		147		187			39		
221	9.660 3188		9.711 2956		0.288 7044	9.949 0233		779	
222	9.660 3336	148	9.711 3142	186	0.288 6858	9.949 0194	39	778	
223	9.660 3483	147	9.711 3328	186	0.288 6672	9.949 0155	39	777	
		147		187			39		
224	9.660 3630		9.711 3515		0.288 6485	9.949 0116		776	
225	9.660 3778	148	9.711 3701	186	0.288 6299	9.949 0077	39	775	
226	9.660 3925	147	9.711 3887	186	0.288 6113	9.949 0038	39	774	
		147		187			39		
227	9.660 4072		9.711 4074		0.288 5926	9.948 9999		773	
228	9.660 4220	148	9.711 4260	186	0.288 5740	9.948 9960	39	772	
229	9.660 4367	147	9.711 4446	186	0.288 5554	9.948 9921	39	771	
		147		187			39		
.230	9.660 4514		9.711 4633		0.288 5367	9.948 9882		**.770**	
		148		186			39		
231	9.660 4662		9.711 4819		0.288 5181	9.948 9843		769	
232	9.660 4809	147	9.711 5005	186	0.288 4995	9.948 9804	39	768	
233	9.660 4956	147	9.711 5191	186	0.288 4809	9.948 9765	39	767	
		147		187			39		
234	9.660 5103		9.711 5378		0.288 4622	9.948 9726		766	
235	9.660 5251	148	9.711 5564	186	0.288 4436	9.948 9687	39	765	
236	9.660 5398	147	9.711 5750	186	0.288 4250	9.948 9648	39	764	
		147		187			39		
237	9.660 5545		9.711 5937		0.288 4063	9.948 9609		763	
238	9.660 5693	148	9.711 6123	186	0.288 3877	9.948 9570	39	762	
239	9.660 5840	147	9.711 6309	186	0.288 3691	9.948 9531	39	761	
		147		186			39		
.240	9.660 5987		9.711 6495		0.288 3505	9.948 9492		**.760**	
		147		187			39		
241	9.660 6134		9.711 6682		0.288 3318	9.948 9453		759	
242	9.660 6281	147	9.711 6868	186	0.288 3132	9.948 9414	39	758	
243	9.660 6429	148	9.711 7054	186	0.288 2946	9.948 9375	39	757	
		147		186			39		
244	9.660 6576		9.711 7240		0.288 2760	9.948 9336		756	
245	9.660 6723	147	9.711 7427	187	0.288 2573	9.948 9297	39	755	
246	9.660 6870	147	9.711 7613	186	0.288 2387	9.948 9257	40	754	
		147		186			39		
247	9.660 7017		9.711 7799		0.288 2201	9.948 9218		753	
248	9.660 7165	148	9.711 7985	186	0.288 2015	9.948 9179	39	752	
249	9.660 7312	147	9.711 8171	186	0.288 1829	9.948 9140	39	751	
		147		187			39		
.250	9.660 7459		9.711 8358		0.288 1642	9.948 9101		**.750**	
	cos	d	cotg	d	tang	sin	d	**62°**	P.P.

	187	186
1	18.7	18.6
2	37.4	37.2
3	56.1	55.8
4	74.8	74.4
5	93.5	93.0
6	112.2	111.6
7	130.9	130.2
8	149.6	148.8
9	168.3	167.4

	148
1	14.8
2	29.6
3	44.4
4	59.2
5	74.0
6	88.8
7	103.6
8	118.4
9	133.2

	147
1	14.7
2	29.4
3	44.1
4	58.8
5	73.5
6	88.2
7	102.9
8	117.6
9	132.3

	40	39
1	4.0	3.9
2	8.0	7.8
3	12.0	11.7
4	16.0	15.6
5	20.0	19.5
6	24.0	23.4
7	28.0	27.3
8	32.0	31.2
9	36.0	35.1

	38
1	3.8
2	7.6
3	11.4
4	15.2
5	19.0
6	22.8
7	26.6
8	30.4
9	34.2

62°.800 — 62°.750

27°.250 — 27°.300

27°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.660 7459		9.711 8358		0.288 1642	9.948 9101		.750	
		147		186			39		
251	9.660 7606		9.711 8544		0.288 1456	9.948 9062		749	
252	9.660 7753	147	9.711 8730	186	0.288 1270	9.948 9023	39	748	
253	9.660 7901	148	9.711 8916	186	0.288 1084	9.948 8984	39	747	
		147		186			39		
254	9.660 8048		9.711 9102		0.288 0898	9.948 8945		746	
255	9.660 8195	147	9.711 9289	187	0.288 0711	9.948 8906	39	745	
256	9.660 8342	147	9.711 9475	186	0.288 0525	9.948 8867	39	744	
		147		186			39		
257	9.660 8489		9.711 9661		0.288 0339	9.948 8828		743	
258	9.660 8636	147	9.711 9847	186	0.288 0153	9.948 8789	39	742	
259	9.660 8783	147	9.712 0033	186	0.287 9967	9.948 8750	39	741	
		147		187			39		
.260	9.660 8930		9.712 0220		0.287 9780	9.948 8711		.740	
		148		186			39		
261	9.660 9078		9.712 0406		0.287 9594	9.948 8672		739	
262	9.660 9225	147	9.712 0592	186	0.287 9408	9.948 8633	39	738	
263	9.660 9372	147	9.712 0778	186	0.287 9222	9.948 8594	39	737	
		147		186			39		
264	9.660 9519		9.712 0964		0.287 9036	9.948 8555		736	
265	9.660 9666	147	9.712 1150	186	0.287 8850	9.948 8516	39	735	
266	9.660 9813	147	9.712 1336	186	0.287 8664	9.948 8477	39	734	
		147		187			40		
267	9.660 9960		9.712 1523		0.287 8477	9.948 8437		733	
268	9.661 0107	147	9.712 1709	186	0.287 8291	9.948 8398	39	732	
269	9.661 0254	147	9.712 1895	186	0.287 8105	9.948 8359	39	731	
		147		186			39		
.270	9.661 0401		9.712 2081		0.287 7919	9.948 8320		.730	
		147		186			39		
271	9.661 0548		9.712 2267		0.287 7733	9.948 8281		729	
272	9.661 0695	147	9.712 2453	186	0.287 7547	9.948 8242	39	728	
273	9.661 0842	147	9.712 2639	186	0.287 7361	9.948 8203	39	727	
		147		186			39		
274	9.661 0989		9.712 2825		0.287 7175	9.948 8164		726	
275	9.661 1136	147	9.712 3012	187	0.287 6988	9.948 8125	39	725	
276	9.661 1283	147	9.712 3198	186	0.287 6802	9.948 8086	39	724	
		147		186			39		
277	9.661 1430		9.712 3384		0.287 6616	9.948 8047		723	
278	9.661 1577	147	9.712 3570	186	0.287 6430	9.948 8008	39	722	
279	9.661 1724	147	9.712 3756	186	0.287 6244	9.948 7969	39	721	
		147		186			40		
.280	9.661 1871		9.712 3942		0.287 6058	9.948 7929		.720	
		147		186			39		
281	9.661 2018		9.712 4128		0.287 5872	9.948 7890		719	
282	9.661 2165	147	9.712 4314	186	0.287 5686	9.948 7851	39	718	
283	9.661 2312	147	9.712 4500	186	0.287 5500	9.948 7812	39	717	
		147		186			39		
284	9.661 2459		9.712 4686		0.287 5314	9.948 7773		716	
285	9.661 2606	147	9.712 4872	186	0.287 5128	9.948 7734	39	715	
286	9.661 2753	147	9.712 5058	186	0.287 4942	9.948 7695	39	714	
		147		186			39		
287	9.661 2900		9.712 5244		0.287 4756	9.948 7656		713	
288	9.661 3047	147	9.712 5430	186	0.287 4570	9.948 7617	39	712	
289	9.661 3194	147	9.712 5616	186	0.287 4384	9.948 7578	39	711	
		147		186			40		
.290	9.661 3341		9.712 5802		0.287 4198	9.948 7538		.710	
		147		186			39		
291	9.661 3488		9.712 5988		0.287 4012	9.948 7499		709	
292	9.661 3635	147	9.712 6174	186	0.287 3826	9.948 7460	39	708	
293	9.661 3782	147	9.712 6360	186	0.287 3640	9.948 7421	39	707	
		147		186			39		
294	9.661 3929		9.712 6546		0.287 3454	9.948 7382		706	
295	9.661 4075	146	9.712 6732	186	0.287 3268	9.948 7343	39	705	
296	9.661 4222	147	9.712 6918	186	0.287 3082	9.948 7304	39	704	
		147		186			39		
297	9.661 4369		9.712 7104		0.287 2896	9.948 7265		703	
298	9.661 4516	147	9.712 7290	186	0.287 2710	9.948 7226	39	702	
299	9.661 4663	147	9.712 7476	186	0.287 2524	9.948 7186	40	701	
		147		186			39		
.300	9.661 4810		9.712 7662		0.287 2338	9.948 7147		.700	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	187	186
1	18.7	18.6
2	37.4	37.2
3	56.1	55.8
4	74.8	74.4
5	93.5	93.0
6	112.2	111.6
7	130.9	130.2
8	149.6	148.8
9	168.3	167.4

	148	147
1	14.8	14.7
2	29.6	29.4
3	44.4	44.1
4	59.2	58.8
5	74.0	73.5
6	88.8	88.2
7	103.6	102.9
8	118.4	117.6
9	133.2	132.3

	146
1	14.6
2	29.2
3	43.8
4	58.4
5	73.0
6	87.6
7	102.2
8	116.8
9	131.4

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.750 — 62°.700

27°.300 — 27°.350

27°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.661 4810		9.712 7662		0.287 2338	9.948 7147		.700	
		147		186			39		
301	9.661 4957		9.712 7848		0.287 2152	9.948 7108		699	
302	9.661 5103	146	9.712 8034	186	0.287 1966	9.948 7069	39	698	
303	9.661 5250	147	9.712 8220	186	0.287 1780	9.948 7030	39	697	
		147		186			39		
304	9.661 5397		9.712 8406		0.287 1594	9.948 6991		696	
305	9.661 5544	147	9.712 8592	186	0.287 1408	9.948 6952	39	695	
306	9.661 5691	147	9.712 8778	186	0.287 1222	9.948 6913	39	694	
		147		186			40		
307	9.661 5838		9.712 8964		0.287 1036	9.948 6873		693	
308	9.661 5984	146	9.712 9150	186	0.287 0850	9.948 6834	39	692	
309	9.661 6131	147	9.712 9336	186	0.287 0664	9.948 6795	39	691	
		147		186			39		
.310	9.661 6278		9.712 9522		0.287 0478	9.948 6756		.690	
		147		186			39		
311	9.661 6425		9.712 9708		0.287 0292	9.948 6717		689	
312	9.661 6572	147	9.712 9894	186	0.287 0106	9.948 6678	39	688	
313	9.661 6718	146	9.713 0080	186	0.286 9920	9.948 6639	39	687	
		147		186			40		
314	9.661 6865		9.713 0266		0.286 9734	9.948 6599		686	
315	9.661 7012	147	9.713 0452	186	0.286 9548	9.948 6560	39	685	
316	9.661 7159	147	9.713 0638	186	0.286 9362	9.948 6521	39	684	
		146		185			39		
317	9.661 7305		9.713 0823		0.286 9177	9.948 6482		683	
318	9.661 7452	147	9.713 1009	186	0.286 8991	9.948 6443	39	682	
319	9.661 7599	147	9.713 1195	186	0.286 8805	9.948 6404	39	681	
		147		186			39		
.320	9.661 7746		9.713 1381		0.286 8619	9.948 6365		.680	
		146		186			40		
321	9.661 7892		9.713 1567		0.286 8433	9.948 6325		679	
322	9.661 8039	147	9.713 1753	186	0.286 8247	9.948 6286	39	678	
323	9.661 8186	147	9.713 1939	186	0.286 8061	9.948 6247	39	677	
		147		186			39		
324	9.661 8333		9.713 2125		0.286 7875	9.948 6208		676	
325	9.661 8479	146	9.713 2311	186	0.286 7689	9.948 6169	39	675	
326	9.661 8626	147	9.713 2496	185	0.286 7504	9.948 6130	39	674	
		147		186			40		
327	9.661 8773		9.713 2682		0.286 7318	9.948 6090		673	
328	9.661 8919	146	9.713 2868	186	0.286 7132	9.948 6051	39	672	
329	9.661 9066	147	9.713 3054	186	0.286 6946	9.948 6012	39	671	
		147		186			39		
.330	9.661 9213		9.713 3240		0.286 6760	9.948 5973		.670	
		146		186			39		
331	9.661 9359		9.713 3426		0.286 6574	9.948 5934		669	
332	9.661 9506	147	9.713 3611	185	0.286 6389	9.948 5895	39	668	
333	9.661 9653	147	9.713 3797	186	0.286 6203	9.948 5855	40	667	
		146		186			39		
334	9.661 9799		9.713 3983		0.286 6017	9.948 5816		666	
335	9.661 9946	147	9.713 4169	186	0.286 5831	9.948 5777	39	665	
336	9.662 0093	147	9.713 4355	186	0.286 5645	9.948 5738	39	664	
		146		186			39		
337	9.662 0239		9.713 4541		0.286 5459	9.948 5699		663	
338	9.662 0386	147	9.713 4726	185	0.286 5274	9.948 5659	40	662	
339	9.662 0532	146	9.713 4912	186	0.286 5088	9.948 5620	39	661	
		147		186			39		
.340	9.662 0679		9.713 5098		0.286 4902	9.948 5581		.660	
		147		186			39		
341	9.662 0826		9.713 5284		0.286 4716	9.948 5542		659	
342	9.662 0972	146	9.713 5470	186	0.286 4530	9.948 5503	39	658	
343	9.662 1119	147	9.713 5655	185	0.286 4345	9.948 5463	40	657	
		146		186			39		
344	9.662 1265		9.713 5841		0.286 4159	9.948 5424		656	
345	9.662 1412	147	9.713 6027	186	0.286 3973	9.948 5385	39	655	
346	9.662 1559	147	9.713 6213	186	0.286 3787	9.948 5346	39	654	
		146		185			39		
347	9.662 1705		9.713 6398		0.286 3602	9.948 5307		653	
348	9.662 1852	147	9.713 6584	186	0.286 3416	9.948 5267	40	652	
349	9.662 1998	146	9.713 6770	186	0.286 3230	9.948 5228	39	651	
		147		186			39		
.350	9.662 2145		9.713 6956		0.286 3044	9.948 5189		.650	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	186	185
1	18.6	18.5
2	37.2	37.0
3	55.8	55.5
4	74.4	74.0
5	93.0	92.5
6	111.6	111.0
7	130.2	129.5
8	148.8	148.0
9	167.4	166.5

	147
1	14.7
2	29.4
3	44.1
4	58.8
5	73.5
6	88.2
7	102.9
8	117.6
9	132.3

	146
1	14.6
2	29.2
3	43.8
4	58.4
5	73.0
6	87.6
7	102.2
8	116.8
9	131.4

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.700 — 62°.650

27°.350 — 27°.400

27°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.662 2145		9.713 6956		0.286 3044	9.948 5189		.650	
		146		185			39		
351	9.662 2291		9.713 7141		0.286 2859	9.948 5150		649	
352	9.662 2438	147	9.713 7327	186	0.286 2673	9.948 5111	39	648	
353	9.662 2584	146	9.713 7513	186	0.286 2487	9.948 5071	40	647	
		147		186			39		
354	9.662 2731		9.713 7699		0.286 2301	9.948 5032		646	
355	9.662 2877	146	9.713 7884	185	0.286 2116	9.948 4993	39	645	
356	9.662 3024	147	9.713 8070	186	0.286 1930	9.948 4954	39	644	
		146		186			39		
357	9.662 3170		9.713 8256		0.286 1744	9.948 4915		643	
358	9.662 3317	147	9.713 8442	186	0.286 1558	9.948 4875	40	642	
359	9.662 3463	146	9.713 8627	185	0.286 1373	9.948 4836	39	641	
		147		186			39		
.360	9.662 3610		9.713 8813		0.286 1187	9.948 4797		.640	
		146		186			39		
361	9.662 3756		9.713 8999		0.286 1001	9.948 4758		639	
362	9.662 3903	147	9.713 9184	185	0.286 0816	9.948 4718	40	638	
363	9.662 4049	146	9.713 9370	186	0.286 0630	9.948 4679	39	637	
		147		186			39		
364	9.662 4196		9.713 9556		0.286 0444	9.948 4640		636	
365	9.662 4342	146	9.713 9741	185	0.286 0259	9.948 4601	39	635	
366	9.662 4489	147	9.713 9927	186	0.286 0073	9.948 4562	39	634	
		146		186			40		
367	9.662 4635		9.714 0113		0.285 9887	9.948 4522		633	
368	9.662 4782	147	9.714 0298	185	0.285 9702	9.948 4483	39	632	
369	9.662 4928	146	9.714 0484	186	0.285 9516	9.948 4444	39	631	
		146		186			39		
.370	9.662 5074		9.714 0670		0.285 9330	9.948 4405		.630	
		147		185			40		
371	9.662 5221		9.714 0855		0.285 9145	9.948 4365		629	
372	9.662 5367	146	9.714 1041	186	0.285 8959	9.948 4326	39	628	
373	9.662 5514	147	9.714 1227	186	0.285 8773	9.948 4287	39	627	
		146		185			39		
374	9.662 5660		9.714 1412		0.285 8588	9.948 4248		626	
375	9.662 5806	146	9.714 1598	186	0.285 8402	9.948 4208	40	625	
376	9.662 5953	147	9.714 1784	186	0.285 8216	9.948 4169	39	624	
		146		185			39		
377	9.662 6099		9.714 1969		0.285 8031	9.948 4130		623	
378	9.662 6246	147	9.714 2155	186	0.285 7845	9.948 4091	39	622	
379	9.662 6392	146	9.714 2341	186	0.285 7659	9.948 4051	40	621	
		146		185			39		
.380	9.662 6538		9.714 2526		0.285 7474	9.948 4012		.620	
		147		186			39		
381	9.662 6685		9.714 2712		0.285 7288	9.948 3973		619	
382	9.662 6831	146	9.714 2897	185	0.285 7103	9.948 3934	39	618	
383	9.662 6977	146	9.714 3083	186	0.285 6917	9.948 3894	40	617	
		147		186			39		
384	9.662 7124		9.714 3269		0.285 6731	9.948 3855		616	
385	9.662 7270	146	9.714 3454	185	0.285 6546	9.948 3816	39	615	
386	9.662 7416	146	9.714 3640	186	0.285 6360	9.948 3777	39	614	
		147		185			40		
387	9.662 7563		9.714 3825		0.285 6175	9.948 3737		613	
388	9.662 7709	146	9.714 4011	186	0.285 5989	9.948 3698	39	612	
389	9.662 7855	146	9.714 4196	185	0.285 5804	9.948 3659	39	611	
		146		186			40		
.390	9.662 8001		9.714 4382		0.285 5618	9.948 3619		.610	
		147		186			39		
391	9.662 8148		9.714 4568		0.285 5432	9.948 3580		609	
392	9.662 8294	146	9.714 4753	185	0.285 5247	9.948 3541	39	608	
393	9.662 8440	146	9.714 4939	186	0.285 5061	9.948 3502	39	607	
		147		185			40		
394	9.662 8587		9.714 5124		0.285 4876	9.948 3462		606	
395	9.662 8733	146	9.714 5310	186	0.285 4690	9.948 3423	39	605	
396	9.662 8879	146	9.714 5495	185	0.285 4505	9.948 3384	39	604	
		146		186			39		
397	9.662 9025		9.714 5681		0.285 4319	9.948 3345		603	
398	9.662 9172	147	9.714 5866	185	0.285 4134	9.948 3305	40	602	
399	9.662 9318	146	9.714 6052	186	0.285 3948	9.948 3266	39	601	
		146		185			39		
.400	9.662 9464		9.714 6237		0.285 3763	9.948 3227		.600	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	186	185
1	18.6	18.5
2	37.2	37.0
3	55.8	55.5
4	74.4	74.0
5	93.0	92.5
6	111.6	111.0
7	130.2	129.5
8	148.8	148.0
9	167.4	166.5

	147
1	14.7
2	29.4
3	44.1
4	58.8
5	73.5
6	88.2
7	102.9
8	117.6
9	132.3

	146
1	14.6
2	29.2
3	43.8
4	58.4
5	73.0
6	87.6
7	102.2
8	116.8
9	131.4

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.650 — 62°.600

27°.400 — 27°.450

27°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.662 9464		9.714 6237		0.285 3763	9.948 3227		.600	
		146		186			40		
401	9.662 9610		9.714 6423		0.285 3577	9.948 3187		599	
402	9.662 9757	147	9.714 6608	185	0.285 3392	9.948 3148	39	598	
403	9.662 9903	146	9.714 6794	186	0.285 3206	9.948 3109	39	597	
		146		185			40		
404	9.663 0049		9.714 6979		0.285 3021	9.948 3069		596	
405	9.663 0195	146	9.714 7165	186	0.285 2835	9.948 3030	39	595	
406	9.663 0341	146	9.714 7350	185	0.285 2650	9.948 2991	39	594	
		147		186			39		
407	9.663 0488		9.714 7536		0.285 2464	9.948 2952		593	
408	9.663 0634	146	9.714 7721	185	0.285 2279	9.948 2912	40	592	
409	9.663 0780	146	9.714 7907	186	0.285 2093	9.948 2873	39	591	
		146		185			39		
.410	9.663 0926		9.714 8092		0.285 1908	9.948 2834		.590	
		146		186			40		
411	9.663 1072		9.714 8278		0.285 1722	9.948 2794		589	
412	9.663 1218	146	9.714 8463	185	0.285 1537	9.948 2755	39	588	
413	9.663 1365	147	9.714 8649	186	0.285 1351	9.948 2716	39	587	
		146		185			40		
414	9.663 1511		9.714 8834		0.285 1166	9.948 2676		586	
415	9.663 1657	146	9.714 9020	186	0.285 0980	9.948 2637	39	585	
416	9.663 1803	146	9.714 9205	185	0.285 0795	9.948 2598	39	584	
		146		186			40		
417	9.663 1949		9.714 9391		0.285 0609	9.948 2558		583	
418	9.663 2095	146	9.714 9576	185	0.285 0424	9.948 2519	39	582	
419	9.663 2241	146	9.714 9762	186	0.285 0238	9.948 2480	39	581	
		146		185			39		
.420	9.663 2387		9.714 9947		0.285 0053	9.948 2441		.580	
		147		185			40		
421	9.663 2534		9.715 0132		0.284 9868	9.948 2401		579	
422	9.663 2680	146	9.715 0318	186	0.284 9682	9.948 2362	39	578	
423	9.663 2826	146	9.715 0503	185	0.284 9497	9.948 2323	39	577	
		146		186			40		
424	9.663 2972		9.715 0689		0.284 9311	9.948 2283		576	
425	9.663 3118	146	9.715 0874	185	0.284 9126	9.948 2244	39	575	
426	9.663 3264	146	9.715 1059	185	0.284 8941	9.948 2205	39	574	
		146		186			40		
427	9.663 3410		9.715 1245		0.284 8755	9.948 2165		573	
428	9.663 3556	146	9.715 1430	185	0.284 8570	9.948 2126	39	572	
429	9.663 3702	146	9.715 1616	186	0.284 8384	9.948 2087	39	571	
		146		185			40		
.430	9.663 3848		9.715 1801		0.284 8199	9.948 2047		.570	
		146		185			39		
431	9.663 3994		9.715 1986		0.284 8014	9.948 2008		569	
432	9.663 4140	146	9.715 2172	186	0.284 7828	9.948 1969	39	568	
433	9.663 4286	146	9.715 2357	185	0.284 7643	9.948 1929	40	567	
		146		186			39		
434	9.663 4432		9.715 2543		0.284 7457	9.948 1890		566	
435	9.663 4578	146	9.715 2728	185	0.284 7272	9.948 1850	40	565	
436	9.663 4724	146	9.715 2913	185	0.284 7087	9.948 1811	39	564	
		146		186			39		
437	9.663 4870		9.715 3099		0.284 6901	9.948 1772		563	
438	9.663 5016	146	9.715 3284	185	0.284 6716	9.948 1732	40	562	
439	9.663 5162	146	9.715 3469	185	0.284 6531	9.948 1693	39	561	
		146		186			39		
.440	9.663 5308		9.715 3655		0.284 6345	9.948 1654		.560	
		146		185			40		
441	9.663 5454		9.715 3840		0.284 6160	9.948 1614		559	
442	9.663 5600	146	9.715 4025	185	0.284 5975	9.948 1575	39	558	
443	9.663 5746	146	9.715 4211	186	0.284 5789	9.948 1536	39	557	
		146		185			40		
444	9.663 5892		9.715 4396		0.284 5604	9.948 1496		556	
445	9.663 6038	146	9.715 4581	185	0.284 5419	9.948 1457	39	555	
446	9.663 6184	146	9.715 4767	186	0.284 5233	9.948 1418	39	554	
		146		185			40		
447	9.663 6330		9.715 4952		0.284 5048	9.948 1378		553	
448	9.663 6476	146	9.715 5137	185	0.284 4863	9.948 1339	39	552	
449	9.663 6622	146	9.715 5322	185	0.284 4678	9.948 1299	40	551	
		146		186			39		
.450	9.663 6768		9.715 5508		0.284 4492	9.948 1260		.550	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	186	185
1	18.6	18.5
2	37.2	37.0
3	55.8	55.5
4	74.4	74.0
5	93.0	92.5
6	111.6	111.0
7	130.2	129.5
8	148.8	148.0
9	167.4	166.5

	147
1	14.7
2	29.4
3	44.1
4	58.8
5	73.5
6	88.2
7	102.9
8	117.6
9	132.3

	146
1	14.6
2	29.2
3	43.8
4	58.4
5	73.0
6	87.6
7	102.2
8	116.8
9	131.4

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.600 — 62°.550

27°.450 — 27°.500

27°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.663 6768		9.715 5508		0.284 4492	9.948 1260		.550	
		146		185			39		
451	9.663 6914		9.715 5693		0.284 4307	9.948 1221		549	
452	9.663 7060	146	9.715 5878	185	0.284 4122	9.948 1181	40	548	
453	9.663 7206	146	9.715 6064	186	0.284 3936	9.948 1142	39	547	
		145		185			39		
454	9.663 7351		9.715 6249		0.284 3751	9.948 1103		546	
455	9.663 7497	146	9.715 6434	185	0.284 3566	9.948 1063	40	545	
456	9.663 7643	146	9.715 6619	185	0.284 3381	9.948 1024	39	544	
		146		186			40		
457	9.663 7789		9.715 6805		0.284 3195	9.948 0984		543	
458	9.663 7935	146	9.715 6990	185	0.284 3010	9.948 0945	39	542	
459	9.663 8081	146	9.715 7175	185	0.284 2825	9.948 0906	39	541	
		146		185			40		
.460	9.663 8227		9.715 7360		0.284 2640	9.948 0866		.540	
		146		186			39		
461	9.663 8373		9.715 7546		0.284 2454	9.948 0827		539	
462	9.663 8518	145	9.715 7731	185	0.284 2269	9.948 0787	40	538	
463	9.663 8664	146	9.715 7916	185	0.284 2084	9.948 0748	39	537	
		146		185			39		
464	9.663 8810		9.715 8101		0.284 1899	9.948 0709		536	
465	9.663 8956	146	9.715 8287	186	0.284 1713	9.948 0669	40	535	
466	9.663 9102	146	9.715 8472	185	0.284 1528	9.948 0630	39	534	
		146		185			40		
467	9.663 9248		9.715 8657		0.284 1343	9.948 0590		533	
468	9.663 9393	145	9.715 8842	185	0.284 1158	9.948 0551	39	532	
469	9.663 9539	146	9.715 9028	186	0.284 0972	9.948 0512	39	531	
		146		185			40		
.470	9.663 9685		9.715 9213		0.284 0787	9.948 0472		.530	
		146		185			39		
471	9.663 9831		9.715 9398		0.284 0602	9.948 0433		529	
472	9.663 9977	146	9.715 9583	185	0.284 0417	9.948 0393	40	528	
473	9.664 0122	145	9.715 9768	185	0.284 0232	9.948 0354	39	527	
		146		186			39		
474	9.664 0268		9.715 9954		0.284 0046	9.948 0315		526	
475	9.664 0414	146	9.716 0139	185	0.283 9861	9.948 0275	40	525	
476	9.664 0560	146	9.716 0324	185	0.283 9676	9.948 0236	39	524	
		145		185			40		
477	9.664 0705		9.716 0509		0.283 9491	9.948 0196		523	
478	9.664 0851	146	9.716 0694	185	0.283 9306	9.948 0157	39	522	
479	9.664 0997	146	9.716 0879	185	0.283 9121	9.948 0117	40	521	
		146		186			39		
.480	9.664 1143		9.716 1065		0.283 8935	9.948 0078		.520	
		145		185			39		
481	9.664 1288		9.716 1250		0.283 8750	9.948 0039		519	
482	9.664 1434	146	9.716 1435	185	0.283 8565	9.947 9999	40	518	
483	9.664 1580	146	9.716 1620	185	0.283 8380	9.947 9960	39	517	
		145		185			40		
484	9.664 1725		9.716 1805		0.283 8195	9.947 9920		516	
485	9.664 1871	146	9.716 1990	185	0.283 8010	9.947 9881	39	515	
486	9.664 2017	146	9.716 2175	185	0.283 7825	9.947 9841	40	514	
		146		186			39		
487	9.664 2163		9.716 2361		0.283 7639	9.947 9802		513	
488	9.664 2308	145	9.716 2546	185	0.283 7454	9.947 9763	39	512	
489	9.664 2454	146	9.716 2731	185	0.283 7269	9.947 9723	40	511	
		146		185			39		
.490	9.664 2600		9.716 2916		0.283 7084	9.947 9684		.510	
		145		185			40		
491	9.664 2745		9.716 3101		0.283 6899	9.947 9644		509	
492	9.664 2891	146	9.716 3286	185	0.283 6714	9.947 9605	39	508	
493	9.664 3037	146	9.716 3471	185	0.283 6529	9.947 9565	40	507	
		145		185			39		
494	9.664 3182		9.716 3656		0.283 6344	9.947 9526		506	
495	9.664 3328	146	9.716 3841	185	0.283 6159	9.947 9487	39	505	
496	9.664 3474	146	9.716 4026	185	0.283 5974	9.947 9447	40	504	
		145		186			39		
497	9.664 3619		9.716 4212		0.283 5788	9.947 9408		503	
498	9.664 3765	146	9.716 4397	185	0.283 5603	9.947 9368	40	502	
499	9.664 3910	145	9.716 4582	185	0.283 5418	9.947 9329	39	501	
		146		185			40		
.500	9.664 4056		9.716 4767		0.283 5233	9.947 9289		.500	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	186	185
1	18.6	18.5
2	37.2	37.0
3	55.8	55.5
4	74.4	74.0
5	93.0	92.5
6	111.6	111.0
7	130.2	129.5
8	148.8	148.0
9	167.4	166.5

	146
1	14.6
2	29.2
3	43.8
4	58.4
5	73.0
6	87.6
7	102.2
8	116.8
9	131.4

	145
1	14.5
2	29.0
3	43.5
4	58.0
5	72.5
6	87.0
7	101.5
8	116.0
9	130.5

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.550 — 62°.500

$27^\circ.500 - 27^\circ.550$

27°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.664 4056		9.716 4767		0.283 5233	9.947 9289		**.500**	
		146		185			39		
501	9.664 4202		9.716 4952		0.283 5048	9.947 9250		499	
502	9.664 4347	145	9.716 5137	185	0.283 4863	9.947 9210	40	498	
503	9.664 4493	146	9.716 5322	185	0.283 4678	9.947 9171	39	497	
		145		185			40		
504	9.664 4638		9.716 5507		0.283 4493	9.947 9131		496	
505	9.664 4784	146	9.716 5692	185	0.283 4308	9.947 9092	39	495	
506	9.664 4930	146	9.716 5877	185	0.283 4123	9.947 9052	40	494	
		145		185			39		
507	9.664 5075		9.716 6062		0.283 3938	9.947 9013		493	
508	9.664 5221	146	9.716 6247	185	0.283 3753	9.947 8974	39	492	
509	9.664 5366	145	9.716 6432	185	0.283 3568	9.947 8934	40	491	
		146		185			39		
.510	9.664 5512		9.716 6617		0.283 3383	9.947 8895		**.490**	
		145		185			40		
511	9.664 5657		9.716 6802		0.283 3198	9.947 8855		489	
512	9.664 5803	146	9.716 6987	185	0.283 3013	9.947 8816	39	488	
513	9.664 5948	145	9.716 7172	185	0.283 2828	9.947 8776	40	487	
		146		185			39		
514	9.664 6094		9.716 7357		0.283 2643	9.947 8737		486	
515	9.664 6239	145	9.716 7542	185	0.283 2458	9.947 8697	40	485	
516	9.664 6385	146	9.716 7727	185	0.283 2273	9.947 8658	39	484	
		145		185			40		
517	9.664 6530		9.716 7912		0.283 2088	9.947 8618		483	
518	9.664 6676	146	9.716 8097	185	0.283 1903	9.947 8579	39	482	
519	9.664 6821	145	9.716 8282	185	0.283 1718	9.947 8539	40	481	
		146		185			39		
.520	9.664 6967		9.716 8467		0.283 1533	9.947 8500		**.480**	
		145		185			40		
521	9.664 7112		9.716 8652		0.283 1348	9.947 8460		479	
522	9.664 7258	146	9.716 8837	185	0.283 1163	9.947 8421	39	478	
523	9.664 7403	145	9.716 9022	185	0.283 0978	9.947 8381	40	477	
		146		185			39		
524	9.664 7549		9.716 9207		0.283 0793	9.947 8342		476	
525	9.664 7694	145	9.716 9392	185	0.283 0608	9.947 8302	40	475	
526	9.664 7840	146	9.716 9577	185	0.283 0423	9.947 8263	39	474	
		145		185			40		
527	9.664 7985		9.716 9762		0.283 0238	9.947 8223		473	
528	9.664 8131	146	9.716 9947	185	0.283 0053	9.947 8184	39	472	
529	9.664 8276	145	9.717 0132	185	0.282 9868	9.947 8144	40	471	
		145		185			39		
.530	9.664 8421		9.717 0317		0.282 9683	9.947 8105		**.470**	
		146		185			40		
531	9.664 8567		9.717 0502		0.282 9498	9.947 8065		469	
532	9.664 8712	145	9.717 0687	185	0.282 9313	9.947 8026	39	468	
533	9.664 8858	146	9.717 0871	184	0.282 9129	9.947 7986	40	467	
		145		185			39		
534	9.664 9003		9.717 1056		0.282 8944	9.947 7947		466	
535	9.664 9148	145	9.717 1241	185	0.282 8759	9.947 7907	40	465	
536	9.664 9294	146	9.717 1426	185	0.282 8574	9.947 7868	39	464	
		145		185			40		
537	9.664 9439		9.717 1611		0.282 8389	9.947 7828		463	
538	9.664 9585	146	9.717 1796	185	0.282 8204	9.947 7789	39	462	
539	9.664 9730	145	9.717 1981	185	0.282 8019	9.947 7749	40	461	
		145		185			39		
.540	9.664 9875		9.717 2166		0.282 7834	9.947 7710		**.460**	
		146		185			40		
541	9.665 0021		9.717 2351		0.282 7649	9.947 7670		459	
542	9.665 0166	145	9.717 2536	185	0.282 7464	9.947 7631	39	458	
543	9.665 0311	145	9.717 2720	184	0.282 7280	9.947 7591	40	457	
		146		185			40		
544	9.665 0457		9.717 2905		0.282 7095	9.947 7551		456	
545	9.665 0602	145	9.717 3090	185	0.282 6910	9.947 7512	39	455	
546	9.665 0747	145	9.717 3275	185	0.282 6725	9.947 7472	40	454	
		146		185			39		
547	9.665 0893		9.717 3460		0.282 6540	9.947 7433		453	
548	9.665 1038	145	9.717 3645	185	0.282 6355	9.947 7393	40	452	
549	9.665 1183	145	9.717 3830	185	0.282 6170	9.947 7354	39	451	
		146		184			40		
.550	9.665 1329		9.717 4014		0.282 5986	9.947 7314		**.450**	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	185	184
1	18.5	18.4
2	37.0	36.8
3	55.5	55.2
4	74.0	73.6
5	92.5	92.0
6	111.0	110.4
7	129.5	128.8
8	148.0	147.2
9	166.5	165.6

	146
1	14.6
2	29.2
3	43.8
4	58.4
5	73.0
6	87.6
7	102.2
8	116.8
9	131.4

	145
1	14.5
2	29.0
3	43.5
4	58.0
5	72.5
6	87.0
7	101.5
8	116.0
9	130.5

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

$62^\circ.500 - 62^\circ.450$

27°.550 — 27°.600

27°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.665 1329		9.717 4014		0.282 5986	9.947 7314		.450	
		145		185			39		
551	9.665 1474		9.717 4199		0.282 5801	9.947 7275		449	
552	9.665 1619	145	9.717 4384	185	0.282 5616	9.947 7235	40	448	
553	9.665 1765	146	9.717 4569	185	0.282 5431	9.947 7196	39	447	
		145		185			40		
554	9.665 1910		9.717 4754		0.282 5246	9.947 7156		446	
555	9.665 2055	145	9.717 4939	185	0.282 5061	9.947 7116	40	445	
556	9.665 2200	145	9.717 5123	184	0.282 4877	9.947 7077	39	444	
		146		185			40		
557	9.665 2346		9.717 5308		0.282 4692	9.947 7037		443	
558	9.665 2491	145	9.717 5493	185	0.282 4507	9.947 6998	39	442	
559	9.665 2636	145	9.717 5678	185	0.282 4322	9.947 6958	40	441	
		145		185			39		
.560	9.665 2781		9.717 5863		0.282 4137	9.947 6919		.440	
		146		184			40		
561	9.665 2927		9.717 6047		0.282 3953	9.947 6879		439	
562	9.665 3072	145	9.717 6232	185	0.282 3768	9.947 6840	39	438	
563	9.665 3217	145	9.717 6417	185	0.282 3583	9.947 6800	40	437	
		145		185			40		
564	9.665 3362		9.717 6602		0.282 3398	9.947 6760		436	
565	9.665 3507	145	9.717 6787	185	0.282 3213	9.947 6721	39	435	
566	9.665 3653	146	9.717 6971	184	0.282 3029	9.947 6681	40	434	
		145		185			39		
567	9.665 3798		9.717 7156		0.282 2844	9.947 6642		433	
568	9.665 3943	145	9.717 7341	185	0.282 2659	9.947 6602	40	432	
569	9.665 4088	145	9.717 7526	185	0.282 2474	9.947 6563	39	431	
		145		184			40		
.570	9.665 4233		9.717 7710		0.282 2290	9.947 6523		.430	
		146		185			40		
571	9.665 4379		9.717 7895		0.282 2105	9.947 6483		429	
572	9.665 4524	145	9.717 8080	185	0.282 1920	9.947 6444	39	428	
573	9.665 4669	145	9.717 8265	185	0.282 1735	9.947 6404	40	427	
		145		184			39		
574	9.665 4814		9.717 8449		0.282 1551	9.947 6365		426	
575	9.665 4959	145	9.717 8634	185	0.282 1366	9.947 6325	40	425	
576	9.665 5104	145	9.717 8819	185	0.282 1181	9.947 6286	39	424	
		145		184			40		
577	9.665 5249		9.717 9003		0.282 0997	9.947 6246		423	
578	9.665 5395	146	9.717 9188	185	0.282 0812	9.947 6206	40	422	
579	9.665 5540	145	9.717 9373	185	0.282 0627	9.947 6167	39	421	
		145		185			40		
.580	9.665 5685		9.717 9558		0.282 0442	9.947 6127		.420	
		145		184			39		
581	9.665 5830		9.717 9742		0.282 0258	9.947 6088		419	
582	9.665 5975	145	9.717 9927	185	0.282 0073	9.947 6048	40	418	
583	9.665 6120	145	9.718 0112	185	0.281 9888	9.947 6008	40	417	
		145		184			39		
584	9.665 6265		9.718 0296		0.281 9704	9.947 5969		416	
585	9.665 6410	145	9.718 0481	185	0.281 9519	9.947 5929	40	415	
586	9.665 6555	145	9.718 0666	185	0.281 9334	9.947 5890	39	414	
		145		184			40		
587	9.665 6700		9.718 0850		0.281 9150	9.947 5850		413	
588	9.665 6846	146	9.718 1035	185	0.281 8965	9.947 5810	40	412	
589	9.665 6991	145	9.718 1220	185	0.281 8780	9.947 5771	39	411	
		145		184			40		
.590	9.665 7136		9.718 1404		0.281 8596	9.947 5731		.410	
		145		185			39		
591	9.665 7281		9.718 1589		0.281 8411	9.947 5692		409	
592	9.665 7426	145	9.718 1774	185	0.281 8226	9.947 5652	40	408	
593	9.665 7571	145	9.718 1958	184	0.281 8042	9.947 5612	40	407	
		145		185			39		
594	9.665 7716		9.718 2143		0.281 7857	9.947 5573		406	
595	9.665 7861	145	9.718 2328	185	0.281 7672	9.947 5533	40	405	
596	9.665 8006	145	9.718 2512	184	0.281 7488	9.947 5493	40	404	
		145		185			39		
597	9.665 8151		9.718 2697		0.281 7303	9.947 5454		403	
598	9.665 8296	145	9.718 2882	185	0.281 7118	9.947 5414	40	402	
599	9.665 8441	145	9.718 3066	184	0.281 6934	9.947 5375	39	401	
		145		185			40		
.600	9.665 8586		9.718 3251		0.281 6749	9.947 5335		.400	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	185	184
1	18.5	18.4
2	37.0	36.8
3	55.5	55.2
4	74.0	73.6
5	92.5	92.0
6	111.0	110.4
7	129.5	128.8
8	148.0	147.2
9	166.5	165.6

	146
1	14.6
2	29.2
3	43.8
4	58.4
5	73.0
6	87.6
7	102.2
8	116.8
9	131.4

	145
1	14.5
2	29.0
3	43.5
4	58.0
5	72.5
6	87.0
7	101.5
8	116.0
9	130.5

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.450 — 62°.400

27°.600 — 27°.650

27°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.665 8586		9.718 3251		0.281 6749	9.947 5335		**.400**	
		145		184			40		
601	9.665 8731		9.718 3435		0.281 6565	9.947 5295		399	
602	9.665 8876	145	9.718 3620	185	0.281 6380	9.947 5256	39	398	
603	9.665 9021	145	9.718 3805	185	0.281 6195	9.947 5216	40	397	
		145		184			40		
604	9.665 9166		9.718 3989		0.281 6011	9.947 5176		396	
605	9.665 9311	145	9.718 4174	185	0.281 5826	9.947 5137	39	395	
606	9.665 9456	145	9.718 4358	184	0.281 5642	9.947 5097	40	394	
		145		185			39		
607	9.665 9601		9.718 4543		0.281 5457	9.947 5058		393	
608	9.665 9746	145	9.718 4728	185	0.281 5272	9.947 5018	40	392	
609	9.665 9890	144	9.718 4912	184	0.281 5088	9.947 4978	40	391	
		145		185			39		
.610	9.666 0035		9.718 5097		0.281 4903	9.947 4939		**.390**	
		145		184			40		
611	9.666 0180		9.718 5281		0.281 4719	9.947 4899		389	
612	9.666 0325	145	9.718 5466	185	0.281 4534	9.947 4859	40	388	
613	9.666 0470	145	9.718 5650	184	0.281 4350	9.947 4820	39	387	
		145		185			40		
614	9.666 0615		9.718 5835		0.281 4165	9.947 4780		386	
615	9.666 0760	145	9.718 6020	185	0.281 3980	9.947 4740	40	385	
616	9.666 0905	145	9.718 6204	184	0.281 3796	9.947 4701	39	384	
		145		185			40		
617	9.666 1050		9.718 6389		0.281 3611	9.947 4661		383	
618	9.666 1195	145	9.718 6573	184	0.281 3427	9.947 4621	40	382	
619	9.666 1340	145	9.718 6758	185	0.281 3242	9.947 4582	39	381	
		144		184			40		
.620	9.666 1484		9.718 6942		0.281 3058	9.947 4542		**.380**	
		145		185			40		
621	9.666 1629		9.718 7127		0.281 2873	9.947 4502		379	
622	9.666 1774	145	9.718 7311	184	0.281 2689	9.947 4463	39	378	
623	9.666 1919	145	9.718 7496	185	0.281 2504	9.947 4423	40	377	
		145		184			40		
624	9.666 2064		9.718 7680		0.281 2320	9.947 4383		376	
625	9.666 2209	145	9.718 7865	185	0.281 2135	9.947 4344	39	375	
626	9.666 2353	144	9.718 8049	184	0.281 1951	9.947 4304	40	374	
		145		185			40		
627	9.666 2498		9.718 8234		0.281 1766	9.947 4264		373	
628	9.666 2643	145	9.718 8418	184	0.281 1582	9.947 4225	39	372	
629	9.666 2788	145	9.718 8603	185	0.281 1397	9.947 4185	40	371	
		145		184			40		
.630	9.666 2933		9.718 8787		0.281 1213	9.947 4145		**.370**	
		145		185			39		
631	9.666 3078		9.718 8972		0.281 1028	9.947 4106		369	
632	9.666 3222	144	9.718 9156	184	0.281 0844	9.947 4066	40	368	
633	9.666 3367	145	9.718 9341	185	0.281 0659	9.947 4026	40	367	
		145		184			39		
634	9.666 3512		9.718 9525		0.281 0475	9.947 3987		366	
635	9.666 3657	145	9.718 9710	185	0.281 0290	9.947 3947	40	365	
636	9.666 3801	144	9.718 9894	184	0.281 0106	9.947 3907	40	364	
		145		185			39		
637	9.666 3946		9.719 0079		0.280 9921	9.947 3868		363	
638	9.666 4091	145	9.719 0263	184	0.280 9737	9.947 3828	40	362	
639	9.666 4236	145	9.719 0447	184	0.280 9553	9.947 3788	40	361	
		144		185			39		
.640	9.666 4380		9.719 0632		0.280 9368	9.947 3749		**.360**	
		145		184			40		
641	9.666 4525		9.719 0816		0.280 9184	9.947 3709		359	
642	9.666 4670	145	9.719 1001	185	0.280 8999	9.947 3669	40	358	
643	9.666 4815	145	9.719 1185	184	0.280 8815	9.947 3629	40	357	
		144		185			39		
644	9.666 4959		9.719 1370		0.280 8630	9.947 3590		356	
645	9.666 5104	145	9.719 1554	184	0.280 8446	9.947 3550	40	355	
646	9.666 5249	145	9.719 1738	184	0.280 8262	9.947 3510	40	354	
		145		185			39		
647	9.666 5394		9.719 1923		0.280 8077	9.947 3471		353	
648	9.666 5538	144	9.719 2107	184	0.280 7893	9.947 3431	40	352	
649	9.666 5683	145	9.719 2292	185	0.280 7708	9.947 3391	40	351	
		145		184			39		
.650	9.666 5828		9.719 2476		0.280 7524	9.947 3352		**.350**	
	cos	d	cotg	d	tang	sin	d	**62°**	P.P.

	185	184
1	18.5	18.4
2	37.0	36.8
3	55.5	55.2
4	74.0	73.6
5	92.5	92.0
6	111.0	110.4
7	129.5	128.8
8	148.0	147.2
9	166.5	165.6

	145
1	14.5
2	29.0
3	43.5
4	58.0
5	72.5
6	87.0
7	101.5
8	116.0
9	130.5

	144
1	14.4
2	28.8
3	43.2
4	57.6
5	72.0
6	86.4
7	100.8
8	115.2
9	129.6

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.400 — 62°.350

27°.650 — 27°.700

27°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.666 5828		9.719 2476		0.280 7524	9.947 3352		.350	
		144		184			40		
651	9.666 5972		9.719 2660		0.280 7340	9.947 3312		349	
652	9.666 6117	145	9.719 2845	185	0.280 7155	9.947 3272	40	348	
653	9.666 6262	145	9.719 3029	184	0.280 6971	9.947 3232	40	347	
		144		185			39		
654	9.666 6406		9.719 3214		0.280 6786	9.947 3193		346	
655	9.666 6551	145	9.719 3398	184	0.280 6602	9.947 3153	40	345	
656	9.666 6696	145	9.719 3582	184	0.280 6418	9.947 3113	40	344	
		144		185			39		
657	9.666 6840		9.719 3767		0.280 6233	9.947 3074		343	
658	9.666 6985	145	9.719 3951	184	0.280 6049	9.947 3034	40	342	
659	9.666 7130	145	9.719 4135	184	0.280 5865	9.947 2994	40	341	
		144		185			40		
.660	9.666 7274		9.719 4320		0.280 5680	9.947 2954		.340	
		145		184			39		
661	9.666 7419		9.719 4504		0.280 5496	9.947 2915		339	
662	9.666 7563	144	9.719 4688	184	0.280 5312	9.947 2875	40	338	
663	9.666 7708	145	9.719 4873	185	0.280 5127	9.947 2835	40	337	
		145		184			40		
664	9.666 7853		9.719 5057		0.280 4943	9.947 2795		336	
665	9.666 7997	144	9.719 5241	184	0.280 4759	9.947 2756	39	335	
666	9.666 8142	145	9.719 5426	185	0.280 4574	9.947 2716	40	334	
		144		184			40		
667	9.666 8286		9.719 5610		0.280 4390	9.947 2676		333	
668	9.666 8431	145	9.719 5794	184	0.280 4206	9.947 2636	40	332	
669	9.666 8575	144	9.719 5979	185	0.280 4021	9.947 2597	39	331	
		145		184			40		
.670	9.666 8720		9.719 6163		0.280 3837	9.947 2557		.330	
		145		184			40		
671	9.666 8865		9.719 6347		0.280 3653	9.947 2517		329	
672	9.666 9009	144	9.719 6532	185	0.280 3468	9.947 2478	39	328	
673	9.666 9154	145	9.719 6716	184	0.280 3284	9.947 2438	40	327	
		144		184			40		
674	9.666 9298		9.719 6900		0.280 3100	9.947 2398		326	
675	9.666 9443	145	9.719 7084	184	0.280 2916	9.947 2358	40	325	
676	9.666 9587	144	9.719 7269	185	0.280 2731	9.947 2319	39	324	
		145		184			40		
677	9.666 9732		9.719 7453		0.280 2547	9.947 2279		323	
678	9.666 9876	144	9.719 7637	184	0.280 2363	9.947 2239	40	322	
679	9.667 0021	145	9.719 7822	185	0.280 2178	9.947 2199	40	321	
		144		184			40		
.680	9.667 0165		9.719 8006		0.280 1994	9.947 2159		.320	
		145		184			39		
681	9.667 0310		9.719 8190		0.280 1810	9.947 2120		319	
682	9.667 0454	144	9.719 8374	184	0.280 1626	9.947 2080	40	318	
683	9.667 0599	145	9.719 8559	185	0.280 1441	9.947 2040	40	317	
		144		184			40		
684	9.667 0743		9.719 8743		0.280 1257	9.947 2000		316	
685	9.667 0888	145	9.719 8927	184	0.280 1073	9.947 1961	39	315	
686	9.667 1032	144	9.719 9111	184	0.280 0889	9.947 1921	40	314	
		145		185			40		
687	9.667 1177		9.719 9296		0.280 0704	9.947 1881		313	
688	9.667 1321	144	9.719 9480	184	0.280 0520	9.947 1841	40	312	
689	9.667 1466	145	9.719 9664	184	0.280 0336	9.947 1802	39	311	
		144		184			40		
.690	9.667 1610		9.719 9848		0.280 0152	9.947 1762		.310	
		144		184			40		
691	9.667 1754		9.720 0032		0.279 9968	9.947 1722		309	
692	9.667 1899	145	9.720 0217	185	0.279 9783	9.947 1682	40	308	
693	9.667 2043	144	9.720 0401	184	0.279 9599	9.947 1642	40	307	
		145		184			39		
694	9.667 2188		9.720 0585		0.279 9415	9.947 1603		306	
695	9.667 2332	144	9.720 0769	184	0.279 9231	9.947 1563	40	305	
696	9.667 2476	144	9.720 0953	184	0.279 9047	9.947 1523	40	304	
		145		185			40		
697	9.667 2621		9.720 1138		0.279 8862	9.947 1483		303	
698	9.667 2765	144	9.720 1322	184	0.279 8678	9.947 1443	40	302	
699	9.667 2910	145	9.720 1506	184	0.279 8494	9.947 1404	39	301	
		144		184			40		
.700	9.667 3054		9.720 1690		0.279 8310	9.947 1364		.300	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	185	184
1	18.5	18.4
2	37.0	36.8
3	55.5	55.2
4	74.0	73.6
5	92.5	92.0
6	111.0	110.4
7	129.5	128.8
8	148.0	147.2
9	166.5	165.6

	145
1	14.5
2	29.0
3	43.5
4	58.0
5	72.5
6	87.0
7	101.5
8	116.0
9	130.5

	144
1	14.4
2	28.8
3	43.2
4	57.6
5	72.0
6	86.4
7	100.8
8	115.2
9	129.6

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.350 — 62°.300

27°.700 — 27°.750

27°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.667 3054		9.720 1690		0.279 8310	9.947 1364		.300	
		144		184			40		
701	9.667 3198		9.720 1874		0.279 8126	9.947 1324		299	
702	9.667 3343	145	9.720 2058	184	0.279 7942	9.947 1284	40	298	
703	9.667 3487	144	9.720 2243	185	0.279 7757	9.947 1245	39	297	
		144		184			40		
704	9.667 3631		9.720 2427		0.279 7573	9.947 1205		296	
705	9.667 3776	145	9.720 2611	184	0.279 7389	9.947 1165	40	295	
706	9.667 3920	144	9.720 2795	184	0.279 7205	9.947 1125	40	294	
		145		184			40		
707	9.667 4065		9.720 2979		0.279 7021	9.947 1085		293	
708	9.667 4209	144	9.720 3163	184	0.279 6837	9.947 1045	40	292	
709	9.667 4353	144	9.720 3347	184	0.279 6653	9.947 1006	39	291	
		144		185			40		
.710	9.667 4497		9.720 3532		0.279 6468	9.947 0966		.290	
		145		184			40		
711	9.667 4642		9.720 3716		0.279 6284	9.947 0926		289	
712	9.667 4786	144	9.720 3900	184	0.279 6100	9.947 0886	40	288	
713	9.667 4930	144	9.720 4084	184	0.279 5916	9.947 0846	40	287	
		145		184			39		
714	9.667 5075		9.720 4268		0.279 5732	9.947 0807		286	
715	9.667 5219	144	9.720 4452	184	0.279 5548	9.947 0767	40	285	
716	9.667 5363	144	9.720 4636	184	0.279 5364	9.947 0727	40	284	
		145		184			40		
717	9.667 5508		9.720 4820		0.279 5180	9.947 0687		283	
718	9.667 5652	144	9.720 5004	184	0.279 4996	9.947 0647	40	282	
719	9.667 5796	144	9.720 5189	185	0.279 4811	9.947 0607	40	281	
		144		184			39		
.720	9.667 5940		9.720 5373		0.279 4627	9.947 0568		.280	
		145		184			40		
721	9.667 6085		9.720 5557		0.279 4443	9.947 0528		279	
722	9.667 6229	144	9.720 5741	184	0.279 4259	9.947 0488	40	278	
723	9.667 6373	144	9.720 5925	184	0.279 4075	9.947 0448	40	277	
		144		184			40		
724	9.667 6517		9.720 6109		0.279 3891	9.947 0408		276	
725	9.667 6662	145	9.720 6293	184	0.279 3707	9.947 0369	39	275	
726	9.667 6806	144	9.720 6477	184	0.279 3523	9.947 0329	40	274	
		144		184			40		
727	9.667 6950		9.720 6661		0.279 3339	9.947 0289		273	
728	9.667 7094	144	9.720 6845	184	0.279 3155	9.947 0249	40	272	
729	9.667 7238	144	9.720 7029	184	0.279 2971	9.947 0209	40	271	
		145		184			40		
.730	9.667 7383		9.720 7213		0.279 2787	9.947 0169		.270	
		144		184			40		
731	9.667 7527		9.720 7397		0.279 2603	9.947 0129		269	
732	9.667 7671	144	9.720 7581	184	0.279 2419	9.947 0090	39	268	
733	9.667 7815	144	9.720 7765	184	0.279 2235	9.947 0050	40	267	
		144		184			40		
734	9.667 7959		9.720 7949		0.279 2051	9.947 0010		266	
735	9.667 8103	144	9.720 8133	184	0.279 1867	9.946 9970	40	265	
736	9.667 8248	145	9.720 8317	184	0.279 1683	9.946 9930	40	264	
		144		184			40		
737	9.667 8392		9.720 8501		0.279 1499	9.946 9890		263	
738	9.667 8536	144	9.720 8685	184	0.279 1315	9.946 9850	40	262	
739	9.667 8680	144	9.720 8869	184	0.279 1131	9.946 9811	39	261	
		144		184			40		
.740	9.667 8824		9.720 9053		0.279 0947	9.946 9771		.260	
		144		184			40		
741	9.667 8968		9.720 9237		0.279 0763	9.946 9731		259	
742	9.667 9112	144	9.720 9421	184	0.279 0579	9.946 9691	40	258	
743	9.667 9257	145	9.720 9605	184	0.279 0395	9.946 9651	40	257	
		144		184			40		
744	9.667 9401		9.720 9789		0.279 0211	9.946 9611		256	
745	9.667 9545	144	9.720 9973	184	0.279 0027	9.946 9571	40	255	
746	9.667 9689	144	9.721 0157	184	0.278 9843	9.946 9532	39	254	
		144		184			40		
747	9.667 9833		9.721 0341		0.278 9659	9.946 9492		253	
748	9.667 9977	144	9.721 0525	184	0.278 9475	9.946 9452	40	252	
749	9.668 0121	144	9.721 0709	184	0.278 9291	9.946 9412	40	251	
		144		184			40		
.750	9.668 0265		9.721 0893		0.278 9107	9.946 9372		.250	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	185	184
1	18.5	18.4
2	37.0	36.8
3	55.5	55.2
4	74.0	73.6
5	92.5	92.0
6	111.0	110.4
7	129.5	128.8
8	148.0	147.2
9	166.5	165.6

	145
1	14.5
2	29.0
3	43.5
4	58.0
5	72.5
6	87.0
7	101.5
8	116.0
9	130.5

	144
1	14.4
2	28.8
3	43.2
4	57.6
5	72.0
6	86.4
7	100.8
8	115.2
9	129.6

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.300 — 62°.250

27°.750 — 27°.800

27°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.668 0265		9.721 0893		0.278 9107	9.946 9372		.250	
		144		184			40		
751	9.668 0409		9.721 1077		0.278 8923	9.946 9332		249	
752	9.668 0553	144	9.721 1261	184	0.278 8739	9.946 9292	40	248	
753	9.668 0697	144	9.721 1445	184	0.278 8555	9.946 9252	40	247	
		144		184			39		
754	9.668 0841		9.721 1629		0.278 8371	9.946 9213		246	
755	9.668 0985	144	9.721 1813	184	0.278 8187	9.946 9173	40	245	
756	9.668 1129	144	9.721 1997	184	0.278 8003	9.946 9133	40	244	
		144		184			40		
757	9.668 1273		9.721 2181		0.278 7819	9.946 9093		243	
758	9.668 1418	145	9.721 2365	184	0.278 7635	9.946 9053	40	242	
759	9.668 1562	144	9.721 2548	183	0.278 7452	9.946 9013	40	241	
		144		184			40		
.760	9.668 1706		9.721 2732		0.278 7268	9.946 8973		.240	
		144		184			40		
761	9.668 1850		9.721 2916		0.278 7084	9.946 8933		239	
762	9.668 1994	144	9.721 3100	184	0.278 6900	9.946 8893	40	238	
763	9.668 2138	144	9.721 3284	184	0.278 6716	9.946 8853	40	237	
		144		184			39		
764	9.668 2282		9.721 3468		0.278 6532	9.946 8814		236	
765	9.668 2426	144	9.721 3652	184	0.278 6348	9.946 8774	40	235	
766	9.668 2569	143	9.721 3836	184	0.278 6164	9.946 8734	40	234	
		144		184			40		
767	9.668 2713		9.721 4020		0.278 5980	9.946 8694		233	
768	9.668 2857	144	9.721 4203	183	0.278 5797	9.946 8654	40	232	
769	9.668 3001	144	9.721 4387	184	0.278 5613	9.946 8614	40	231	
		144		184			40		
.770	9.668 3145		9.721 4571		0.278 5429	9.946 8574		.230	
		144		184			40		
771	9.668 3289		9.721 4755		0.278 5245	9.946 8534		229	
772	9.668 3433	144	9.721 4939	184	0.278 5061	9.946 8494	40	228	
773	9.668 3577	144	9.721 5123	184	0.278 4877	9.946 8454	40	227	
		144		184			40		
774	9.668 3721		9.721 5307		0.278 4693	9.946 8414		226	
775	9.668 3865	144	9.721 5490	183	0.278 4510	9.946 8375	39	225	
776	9.668 4009	144	9.721 5674	184	0.278 4326	9.946 8335	40	224	
		144		184			40		
777	9.668 4153		9.721 5858		0.278 4142	9.946 8295		223	
778	9.668 4297	144	9.721 6042	184	0.278 3958	9.946 8255	40	222	
779	9.668 4441	144	9.721 6226	184	0.278 3774	9.946 8215	40	221	
		143		184			40		
.780	9.668 4584		9.721 6410		0.278 3590	9.946 8175		.220	
		144		183			40		
781	9.668 4728		9.721 6593		0.278 3407	9.946 8135		219	
782	9.668 4872	144	9.721 6777	184	0.278 3223	9.946 8095	40	218	
783	9.668 5016	144	9.721 6961	184	0.278 3039	9.946 8055	40	217	
		144		184			40		
784	9.668 5160		9.721 7145		0.278 2855	9.946 8015		216	
785	9.668 5304	144	9.721 7329	184	0.278 2671	9.946 7975	40	215	
786	9.668 5448	144	9.721 7512	183	0.278 2488	9.946 7935	40	214	
		144		184			40		
787	9.668 5592		9.721 7696		0.278 2304	9.946 7895		213	
788	9.668 5735	143	9.721 7880	184	0.278 2120	9.946 7855	40	212	
789	9.668 5879	144	9.721 8064	184	0.278 1936	9.946 7815	40	211	
		144		184			39		
.790	9.668 6023		9.721 8248		0.278 1752	9.946 7776		.210	
		144		183			40		
791	9.668 6167		9.721 8431		0.278 1569	9.946 7736		209	
792	9.668 6311	144	9.721 8615	184	0.278 1385	9.946 7696	40	208	
793	9.668 6455	144	9.721 8799	184	0.278 1201	9.946 7656	40	207	
		143		184			40		
794	9.668 6598		9.721 8983		0.278 1017	9.946 7616		206	
795	9.668 6742	144	9.721 9166	183	0.278 0834	9.946 7576	40	205	
796	9.668 6886	144	9.721 9350	184	0.278 0650	9.946 7536	40	204	
		144		184			40		
797	9.668 7030		9.721 9534		0.278 0466	9.946 7496		203	
798	9.668 7173	143	9.721 9718	184	0.278 0282	9.946 7456	40	202	
799	9.668 7317	144	9.721 9901	183	0.278 0099	9.946 7416	40	201	
		144		184			40		
.800	9.668 7461		9.722 0085		0.277 9915	9.946 7376		.200	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	184	183
1	18.4	18.3
2	36.8	36.6
3	55.2	54.9
4	73.6	73.2
5	92.0	91.5
6	110.4	109.8
7	128.8	128.1
8	147.2	146.4
9	165.6	164.7

	145	144
1	14.5	14.4
2	29.0	28.8
3	43.5	43.2
4	58.0	57.6
5	72.5	72.0
6	87.0	86.4
7	101.5	100.8
8	116.0	115.2
9	130.5	129.6

	143
1	14.3
2	28.6
3	42.9
4	57.2
5	71.5
6	85.8
7	100.1
8	114.4
9	128.7

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

	39
1	3.9
2	7.8
3	11.7
4	15.6
5	19.5
6	23.4
7	27.3
8	31.2
9	35.1

62°.250 — 62°.200

27°.800 — 27°.850

27°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.668 7461		9.722 0085		0.277 9915	9.946 7376		**.200**	
		144		184			40		
801	9.668 7605		9.722 0269		0.277 9731	9.946 7336		199	
802	9.668 7749	144	9.722 0453	184	0.277 9547	9.946 7296	40	198	
803	9.668 7892	143	9.722 0636	183	0.277 9364	9.946 7256	40	197	
		144		184			40		
804	9.668 8036		9.722 0820		0.277 9180	9.946 7216		196	
805	9.668 8180	144	9.722 1004	184	0.277 8996	9.946 7176	40	195	
806	9.668 8323	143	9.722 1187	183	0.277 8813	9.946 7136	40	194	
		144		184			40		
807	9.668 8467		9.722 1371		0.277 8629	9.946 7096		193	
808	9.668 8611	144	9.722 1555	184	0.277 8445	9.946 7056	40	192	
809	9.668 8755	144	9.722 1738	183	0.277 8262	9.946 7016	40	191	
		143		184			40		
.810	9.668 8898		9.722 1922		0.277 8078	9.946 6976		**.190**	
		144		184			40		
811	9.668 9042		9.722 2106		0.277 7894	9.946 6936		189	
812	9.668 9186	144	9.722 2290	184	0.277 7710	9.946 6896	40	188	
813	9.668 9329	143	9.722 2473	183	0.277 7527	9.946 6856	40	187	
		144		184			40		
814	9.668 9473		9.722 2657		0.277 7343	9.946 6816		186	
815	9.668 9617	144	9.722 2841	184	0.277 7159	9.946 6776	40	185	
816	9.668 9760	143	9.722 3024	183	0.277 6976	9.946 6736	40	184	
		144		184			40		
817	9.668 9904		9.722 3208		0.277 6792	9.946 6696		183	
818	9.669 0048	144	9.722 3391	183	0.277 6609	9.946 6656	40	182	
819	9.669 0191	143	9.722 3575	184	0.277 6425	9.946 6616	40	181	
		144		184			40		
.820	9.669 0335		9.722 3759		0.277 6241	9.946 6576		**.180**	
		144		183			40		
821	9.669 0479		9.722 3942		0.277 6058	9.946 6536		179	
822	9.669 0622	143	9.722 4126	184	0.277 5874	9.946 6496	40	178	
823	9.669 0766	144	9.722 4310	184	0.277 5690	9.946 6456	40	177	
		144		183			40		
824	9.669 0910		9.722 4493		0.277 5507	9.946 6416		176	
825	9.669 1053	143	9.722 4677	184	0.277 5323	9.946 6376	40	175	
826	9.669 1197	144	9.722 4861	184	0.277 5139	9.946 6336	40	174	
		143		183			40		
827	9.669 1340		9.722 5044		0.277 4956	9.946 6296		173	
828	9.669 1484	144	9.722 5228	184	0.277 4772	9.946 6256	40	172	
829	9.669 1628	144	9.722 5411	183	0.277 4589	9.946 6216	40	171	
		143		184			40		
.830	9.669 1771		9.722 5595		0.277 4405	9.946 6176		**.170**	
		144		184			40		
831	9.669 1915		9.722 5779		0.277 4221	9.946 6136		169	
832	9.669 2058	143	9.722 5962	183	0.277 4038	9.946 6096	40	168	
833	9.669 2202	144	9.722 6146	184	0.277 3854	9.946 6056	40	167	
		144		183			40		
834	9.669 2346		9.722 6329		0.277 3671	9.946 6016		166	
835	9.669 2489	143	9.722 6513	184	0.277 3487	9.946 5976	40	165	
836	9.669 2633	144	9.722 6696	183	0.277 3304	9.946 5936	40	164	
		143		184			40		
837	9.669 2776		9.722 6880		0.277 3120	9.946 5896		163	
838	9.669 2920	144	9.722 7064	184	0.277 2936	9.946 5856	40	162	
839	9.669 3063	143	9.722 7247	183	0.277 2753	9.946 5816	40	161	
		144		184			40		
.840	9.669 3207		9.722 7431		0.277 2569	9.946 5776		**.160**	
		143		183			40		
841	9.669 3350		9.722 7614		0.277 2386	9.946 5736		159	
842	9.669 3494	144	9.722 7798	184	0.277 2202	9.946 5696	40	158	
843	9.669 3637	143	9.722 7981	183	0.277 2019	9.946 5656	40	157	
		144		184			40		
844	9.669 3781		9.722 8165		0.277 1835	9.946 5616		156	
845	9.669 3924	143	9.722 8348	183	0.277 1652	9.946 5576	40	155	
846	9.669 4068	144	9.722 8532	184	0.277 1468	9.946 5536	40	154	
		143		183			40		
847	9.669 4211		9.722 8715		0.277 1285	9.946 5496		153	
848	9.669 4355	144	9.722 8899	184	0.277 1101	9.946 5456	40	152	
849	9.669 4498	143	9.722 9083	184	0.277 0917	9.946 5416	40	151	
		144		183			40		
.850	9.669 4642		9.722 9266		0.277 0734	9.946 5376		**.150**	
	cos	d	cotg	d	tang	sin	d	**62°**	P.P.

	184
1	18.4
2	36.8
3	55.2
4	73.6
5	92.0
6	110.4
7	128.8
8	147.2
9	165.6

	183
1	18.3
2	36.6
3	54.9
4	73.2
5	91.5
6	109.8
7	128.1
8	146.4
9	164.7

	144
1	14.4
2	28.8
3	43.2
4	57.6
5	72.0
6	86.4
7	100.8
8	115.2
9	129.6

	143
1	14.3
2	28.6
3	42.9
4	57.2
5	71.5
6	85.8
7	100.1
8	114.4
9	128.7

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

62°.200 — 62°.150

27°.850 — 27°.900

27°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.669 4642		9.722 9266		0.277 0734	9.946 5376		.150	
		143		184			40		
851	9.669 4785		9.722 9450		0.277 0550	9.946 5336		149	
852	9.669 4929	144	9.722 9633	183	0.277 0367	9.946 5296	40	148	
853	9.669 5072	143	9.722 9817	184	0.277 0183	9.946 5255	41	147	
		143		183			40		
854	9.669 5215		9.723 0000		0.277 0000	9.946 5215		146	
855	9.669 5359	144	9.723 0184	184	0.276 9816	9.946 5175	40	145	
856	9.669 5502	143	9.723 0367	183	0.276 9633	9.946 5135	40	144	
		144		184			40		
857	9.669 5646		9.723 0551		0.276 9449	9.946 5095		143	
858	9.669 5789	143	9.723 0734	183	0.276 9266	9.946 5055	40	142	
859	9.669 5933	144	9.723 0917	183	0.276 9083	9.946 5015	40	141	
		143		184			40		
.860	9.669 6076		9.723 1101		0.276 8899	9.946 4975		.140	
		143		183			40		
861	9.669 6219		9.723 1284		0.276 8716	9.946 4935		139	
862	9.669 6363	144	9.723 1468	184	0.276 8532	9.946 4895	40	138	
863	9.669 6506	143	9.723 1651	183	0.276 8349	9.946 4855	40	137	
		144		184			40		
864	9.669 6650		9.723 1835		0.276 8165	9.946 4815		136	
865	9.669 6793	143	9.723 2018	183	0.276 7982	9.946 4775	40	135	
866	9.669 6936	143	9.723 2202	184	0.276 7798	9.946 4735	40	134	
		144		183			40		
867	9.669 7080		9.723 2385		0.276 7615	9.946 4695		133	
868	9.669 7223	143	9.723 2569	184	0.276 7431	9.946 4654	41	132	
869	9.669 7366	143	9.723 2752	183	0.276 7248	9.946 4614	40	131	
		144		183			40		
.870	9.669 7510		9.723 2935		0.276 7065	9.946 4574		.130	
		143		184			40		
871	9.669 7653		9.723 3119		0.276 6881	9.946 4534		129	
872	9.669 7796	143	9.723 3302	183	0.276 6698	9.946 4494	40	128	
873	9.669 7940	144	9.723 3486	184	0.276 6514	9.946 4454	40	127	
		143		183			40		
874	9.669 8083		9.723 3669		0.276 6331	9.946 4414		126	
875	9.669 8226	143	9.723 3852	183	0.276 6148	9.946 4374	40	125	
876	9.669 8370	144	9.723 4036	184	0.276 5964	9.946 4334	40	124	
		143		183			40		
877	9.669 8513		9.723 4219		0.276 5781	9.946 4294		123	
878	9.669 8656	143	9.723 4403	184	0.276 5597	9.946 4254	40	122	
879	9.669 8800	144	9.723 4586	183	0.276 5414	9.946 4214	40	121	
		143		183			41		
.880	9.669 8943		9.723 4769		0.276 5231	9.946 4173		.120	
		143		184			40		
881	9.669 9086		9.723 4953		0.276 5047	9.946 4133		119	
882	9.669 9229	143	9.723 5136	183	0.276 4864	9.946 4093	40	118	
883	9.669 9373	144	9.723 5320	184	0.276 4680	9.946 4053	40	117	
		143		183			40		
884	9.669 9516		9.723 5503		0.276 4497	9.946 4013		116	
885	9.669 9659	143	9.723 5686	183	0.276 4314	9.946 3973	40	115	
886	9.669 9802	143	9.723 5870	184	0.276 4130	9.946 3933	40	114	
		144		183			40		
887	9.669 9946		9.723 6053		0.276 3947	9.946 3893		113	
888	9.670 0089	143	9.723 6236	183	0.276 3764	9.946 3853	40	112	
889	9.670 0232	143	9.723 6420	184	0.276 3580	9.946 3812	41	111	
		143		183			40		
.890	9.670 0375		9.723 6603		0.276 3397	9.946 3772		.110	
		143		183			40		
891	9.670 0518		9.723 6786		0.276 3214	9.946 3732		109	
892	9.670 0662	144	9.723 6970	184	0.276 3030	9.946 3692	40	108	
893	9.670 0805	143	9.723 7153	183	0.276 2847	9.946 3652	40	107	
		143		183			40		
894	9.670 0948		9.723 7336		0.276 2664	9.946 3612		106	
895	9.670 1091	143	9.723 7520	184	0.276 2480	9.946 3572	40	105	
896	9.670 1234	143	9.723 7703	183	0.276 2297	9.946 3532	40	104	
		144		183			41		
897	9.670 1378		9.723 7886		0.276 2114	9.946 3491		103	
898	9.670 1521	143	9.723 8070	184	0.276 1930	9.946 3451	40	102	
899	9.670 1664	143	9.723 8253	183	0.276 1747	9.946 3411	40	101	
		143		183			40		
.900	9.670 1807		9.723 8436		0.276 1564	9.946 3371		.100	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	184	183
1	18.4	18.3
2	36.8	36.6
3	55.2	54.9
4	73.6	73.2
5	92.0	91.5
6	110.4	109.8
7	128.8	128.1
8	147.2	146.4
9	165.6	164.7

	144
1	14.4
2	28.8
3	43.2
4	57.6
5	72.0
6	86.4
7	100.8
8	115.2
9	129.6

	143
1	14.3
2	28.6
3	42.9
4	57.2
5	71.5
6	85.8
7	100.1
8	114.4
9	128.7

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

62°.150 — 62°.100

27°.900 — 27°.950

27°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.670 1807		9.723 8436		0.276 1564	9.946 3371		.100	
		143		183			40		
901	9.670 1950		9.723 8619		0.276 1381	9.946 3331		099	
902	9.670 2093	143	9.723 8803	184	0.276 1197	9.946 3291	40	098	
903	9.670 2237	144	9.723 8986	183	0.276 1014	9.946 3251	40	097	
		143		183			40		
904	9.670 2380		9.723 9169		0.276 0831	9.946 3211		096	
905	9.670 2523	143	9.723 9353	184	0.276 0647	9.946 3170	41	095	
906	9.670 2666	143	9.723 9536	183	0.276 0464	9.946 3130	40	094	
		143		183			40		
907	9.670 2809		9.723 9719		0.276 0281	9.946 3090		093	
908	9.670 2952	143	9.723 9902	183	0.276 0098	9.946 3050	40	092	
909	9.670 3095	143	9.724 0086	184	0.275 9914	9.946 3010	40	091	
		143		183			40		
.910	9.670 3238		9.724 0269		0.275 9731	9.946 2970		.090	
		144		183			40		
911	9.670 3382		9.724 0452		0.275 9548	9.946 2930		089	
912	9.670 3525	143	9.724 0635	183	0.275 9365	9.946 2889	41	088	
913	9.670 3668	143	9.724 0819	184	0.275 9181	9.946 2849	40	087	
		143		183			40		
914	9.670 3811		9.724 1002		0.275 8998	9.946 2809		086	
915	9.670 3954	143	9.724 1185	183	0.275 8815	9.946 2769	40	085	
916	9.670 4097	143	9.724 1368	183	0.275 8632	9.946 2729	40	084	
		143		183			40		
917	9.670 4240		9.724 1551		0.275 8449	9.946 2689		083	
918	9.670 4383	143	9.724 1735	184	0.275 8265	9.946 2648	41	082	
919	9.670 4526	143	9.724 1918	183	0.275 8082	9.946 2608	40	081	
		143		183			40		
.920	9.670 4669		9.724 2101		0.275 7899	9.946 2568		.080	
		143		183			40		
921	9.670 4812		9.724 2284		0.275 7716	9.946 2528		079	
922	9.670 4955	143	9.724 2467	183	0.275 7533	9.946 2488	40	078	
923	9.670 5098	143	9.724 2651	184	0.275 7349	9.946 2448	40	077	
		143		183			41		
924	9.670 5241		9.724 2834		0.275 7166	9.946 2407		076	
925	9.670 5384	143	9.724 3017	183	0.275 6983	9.946 2367	40	075	
926	9.670 5527	143	9.724 3200	183	0.275 6800	9.946 2327	40	074	
		143		183			40		
927	9.670 5670		9.724 3383		0.275 6617	9.946 2287		073	
928	9.670 5813	143	9.724 3567	184	0.275 6433	9.946 2247	40	072	
929	9.670 5956	143	9.724 3750	183	0.275 6250	9.946 2206	41	071	
		143		183			40		
.930	9.670 6099		9.724 3933		0.275 6067	9.946 2166		.070	
		143		183			40		
931	9.670 6242		9.724 4116		0.275 5884	9.946 2126		069	
932	9.670 6385	143	9.724 4299	183	0.275 5701	9.946 2086	40	068	
933	9.670 6528	143	9.724 4482	183	0.275 5518	9.946 2046	40	067	
		143		184			40		
934	9.670 6671		9.724 4666		0.275 5334	9.946 2006		066	
935	9.670 6814	143	9.724 4849	183	0.275 5151	9.946 1965	41	065	
936	9.670 6957	143	9.724 5032	183	0.275 4968	9.946 1925	40	064	
		143		183			40		
937	9.670 7100		9.724 5215		0.275 4785	9.946 1885		063	
938	9.670 7243	143	9.724 5398	183	0.275 4602	9.946 1845	40	062	
939	9.670 7386	143	9.724 5581	183	0.275 4419	9.946 1805	40	061	
		143		183			41		
.940	9.670 7529		9.724 5764		0.275 4236	9.946 1764		.060	
		143		183			40		
941	9.670 7672		9.724 5947		0.275 4053	9.946 1724		059	
942	9.670 7815	143	9.724 6131	184	0.275 3869	9.946 1684	40	058	
943	9.670 7957	142	9.724 6314	183	0.275 3686	9.946 1644	40	057	
		143		183			40		
944	9.670 8100		9.724 6497		0.275 3503	9.946 1604		056	
945	9.670 8243	143	9.724 6680	183	0.275 3320	9.946 1563	41	055	
946	9.670 8386	143	9.724 6863	183	0.275 3137	9.946 1523	40	054	
		143		183			40		
947	9.670 8529		9.724 7046		0.275 2954	9.946 1483		053	
948	9.670 8672	143	9.724 7229	183	0.275 2771	9.946 1443	40	052	
949	9.670 8815	143	9.724 7412	183	0.275 2588	9.946 1403	40	051	
		143		183			41		
.950	9.670 8958		9.724 7595		0.275 2405	9.946 1362		.050	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	184	183
1	18.4	18.3
2	36.8	36.6
3	55.2	54.9
4	73.6	73.2
5	92.0	91.5
6	110.4	109.8
7	128.8	128.1
8	147.2	146.4
9	165.6	164.7

	144	143
1	14.4	14.3
2	28.8	28.6
3	43.2	42.9
4	57.6	57.2
5	72.0	71.5
6	86.4	85.8
7	100.8	100.1
8	115.2	114.4
9	129.6	128.7

	142
1	14.2
2	28.4
3	42.6
4	56.8
5	71.0
6	85.2
7	99.4
8	113.6
9	127.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

62°.100 — 62°.050

27°.950 — 28°.000

27°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.670 8958		9.724 7595		0.275 2405	9.946 1362		.050	
		142		183			40		
951	9.670 9100		9.724 7778		0.275 2222	9.946 1322		049	
		143		183			40		
952	9.670 9243		9.724 7961		0.275 2039	9.946 1282		048	
		143		183			40		
953	9.670 9386		9.724 8144		0.275 1856	9.946 1242		047	
		143		184			41		
954	9.670 9529		9.724 8328		0.275 1672	9.946 1201		046	
		143		183			40		
955	9.670 9672		9.724 8511		0.275 1489	9.946 1161		045	
		143		183			40		
956	9.670 9815		9.724 8694		0.275 1306	9.946 1121		044	
		142		183			40		
957	9.670 9957		9.724 8877		0.275 1123	9.946 1081		043	
		143		183			41		
958	9.671 0100		9.724 9060		0.275 0940	9.946 1040		042	
		143		183			40		
959	9.671 0243		9.724 9243		0.275 0757	9.946 1000		041	
		143		183			40		
.960	9.671 0386		9.724 9426		0.275 0574	9.946 0960		.040	
		143		183			40		
961	9.671 0529		9.724 9609		0.275 0391	9.946 0920		039	
		142		183			40		
962	9.671 0671		9.724 9792		0.275 0208	9.946 0880		038	
		143		183			41		
963	9.671 0814		9.724 9975		0.275 0025	9.946 0839		037	
		143		183			40		
964	9.671 0957		9.725 0158		0.274 9842	9.946 0799		036	
		143		183			40		
965	9.671 1100		9.725 0341		0.274 9659	9.946 0759		035	
		143		183			40		
966	9.671 1243		9.725 0524		0.274 9476	9.946 0719		034	
		142		183			41		
967	9.671 1385		9.725 0707		0.274 9293	9.946 0678		033	
		143		183			40		
968	9.671 1528		9.725 0890		0.274 9110	9.946 0638		032	
		143		183			40		
969	9.671 1671		9.725 1073		0.274 8927	9.946 0598		031	
		143		183			40		
.970	9.671 1814		9.725 1256		0.274 8744	9.946 0558		.030	
		142		183			41		
971	9.671 1956		9.725 1439		0.274 8561	9.946 0517		029	
		143		183			40		
972	9.671 2099		9.725 1622		0.274 8378	9.946 0477		028	
		143		183			40		
973	9.671 2242		9.725 1805		0.274 8195	9.946 0437		027	
		142		183			40		
974	9.671 2384		9.725 1988		0.274 8012	9.946 0397		026	
		143		183			41		
975	9.671 2527		9.725 2171		0.274 7829	9.946 0356		025	
		143		183			40		
976	9.671 2670		9.725 2354		0.274 7646	9.946 0316		024	
		143		183			40		
977	9.671 2813		9.725 2537		0.274 7463	9.946 0276		023	
		142		183			40		
978	9.671 2955		9.725 2720		0.274 7280	9.946 0236		022	
		143		183			41		
979	9.671 3098		9.725 2903		0.274 7097	9.946 0195		021	
		143		183			40		
.980	9.671 3241		9.725 3086		0.274 6914	9.946 0155		.020	
		142		183			40		
981	9.671 3383		9.725 3269		0.274 6731	9.946 0115		019	
		143		182			41		
982	9.671 3526		9.725 3451		0.274 6549	9.946 0074		018	
		143		183			40		
983	9.671 3669		9.725 3634		0.274 6366	9.946 0034		017	
		142		183			40		
984	9.671 3811		9.725 3817		0.274 6183	9.945 9994		016	
		143		183			40		
985	9.671 3954		9.725 4000		0.274 6000	9.945 9954		015	
		143		183			41		
986	9.671 4097		9.725 4183		0.274 5817	9.945 9913		014	
		142		183			40		
987	9.671 4239		9.725 4366		0.274 5634	9.945 9873		013	
		143		183			40		
988	9.671 4382		9.725 4549		0.274 5451	9.945 9833		012	
		142		183			41		
989	9.671 4524		9.725 4732		0.274 5268	9.945 9792		011	
		143		183			40		
.990	9.671 4667		9.725 4915		0.274 5085	9.945 9752		.010	
		143		183			40		
991	9.671 4810		9.725 5098		0.274 4902	9.945 9712		009	
		142		183			40		
992	9.671 4952		9.725 5281		0.274 4719	9.945 9672		008	
		143		183			41		
993	9.671 5095		9.725 5464		0.274 4536	9.945 9631		007	
		142		182			40		
994	9.671 5237		9.725 5646		0.274 4354	9.945 9591		006	
		143		183			40		
995	9.671 5380		9.725 5829		0.274 4171	9.945 9551		005	
		143		183			41		
996	9.671 5523		9.725 6012		0.274 3988	9.945 9510		004	
		142		183			40		
997	9.671 5665		9.725 6195		0.274 3805	9.945 9470		003	
		143		183			40		
998	9.671 5808		9.725 6378		0.274 3622	9.945 9430		002	
		142		183			40		
999	9.671 5950		9.725 6561		0.274 3439	9.945 9390		001	
		143		183			41		
*.000	9.671 6093		9.725 6744		0.274 3256	9.945 9349		.000	
	cos	d	cotg	d	tang	sin	d	62°	P.P.

	184	183
1	18.4	18.3
2	36.8	36.6
3	55.2	54.9
4	73.6	73.2
5	92.0	91.5
6	110.4	109.8
7	128.8	128.1
8	147.2	146.4
9	165.6	164.7

	182
1	18.2
2	36.4
3	54.6
4	72.8
5	91.0
6	109.2
7	127.4
8	145.6
9	163.8

	143	142
1	14.3	14.2
2	28.6	28.4
3	42.9	42.6
4	57.2	56.8
5	71.5	71.0
6	85.8	85.2
7	100.1	99.4
8	114.4	113.6
9	128.7	127.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

62°.050 — 62°.000

28°.000 — 28°.050

28°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.671 6093		9.725 6744		0.274 3256	9.945 9349		*000	
		142		182			40		
001	9.671 6235		9.725 6926		0.274 3074	9.945 9309		999	
002	9.671 6378	143	9.725 7109	183	0.274 2891	9.945 9269	40	998	
003	9.671 6521	143	9.725 7292	183	0.274 2708	9.945 9228	41	997	
		142		183			40		
004	9.671 6663		9.725 7475		0.274 2525	9.945 9188		996	
005	9.671 6806	143	9.725 7658	183	0.274 2342	9.945 9148	40	995	
006	9.671 6948	142	9.725 7841	183	0.274 2159	9.945 9107	41	994	
		143		183			40		
007	9.671 7091		9.725 8024		0.274 1976	9.945 9067		993	
008	9.671 7233	142	9.725 8206	182	0.274 1794	9.945 9027	40	992	
009	9.671 7376	143	9.725 8389	183	0.274 1611	9.945 8986	41	991	
		142		183			40		
.010	9.671 7518		9.725 8572		0.274 1428	9.945 8946		.990	
		143		183			40		
011	9.671 7661		9.725 8755		0.274 1245	9.945 8906		989	
012	9.671 7803	142	9.725 8938	183	0.274 1062	9.945 8866	40	988	
013	9.671 7946	143	9.725 9120	182	0.274 0880	9.945 8825	41	987	
		142		183			40		
014	9.671 8088		9.725 9303		0.274 0697	9.945 8785		986	
015	9.671 8231	143	9.725 9486	183	0.274 0514	9.945 8745	40	985	
016	9.671 8373	142	9.725 9669	183	0.274 0331	9.945 8704	41	984	
		143		183			40		
017	9.671 8516		9.725 9852		0.274 0148	9.945 8664		983	
018	9.671 8658	142	9.726 0034	182	0.273 9966	9.945 8624	40	982	
019	9.671 8800	142	9.726 0217	183	0.273 9783	9.945 8583	41	981	
		143		183			40		
.020	9.671 8943		9.726 0400		0.273 9600	9.945 8543		.980	
		142		183			40		
021	9.671 9085		9.726 0583		0.273 9417	9.945 8503		979	
022	9.671 9228	143	9.726 0766	183	0.273 9234	9.945 8462	41	978	
023	9.671 9370	142	9.726 0948	182	0.273 9052	9.945 8422	40	977	
		143		183			40		
024	9.671 9513		9.726 1131		0.273 8869	9.945 8382		976	
025	9.671 9655	142	9.726 1314	183	0.273 8686	9.945 8341	41	975	
026	9.671 9797	142	9.726 1497	183	0.273 8503	9.945 8301	40	974	
		143		182			41		
027	9.671 9940		9.726 1679		0.273 8321	9.945 8260		973	
028	9.672 0082	142	9.726 1862	183	0.273 8138	9.945 8220	40	972	
029	9.672 0225	143	9.726 2045	183	0.273 7955	9.945 8180	40	971	
		142		182			41		
.030	9.672 0367		9.726 2227		0.273 7773	9.945 8139		.970	
		142		183			40		
031	9.672 0509		9.726 2410		0.273 7590	9.945 8099		969	
032	9.672 0652	143	9.726 2593	183	0.273 7407	9.945 8059	40	968	
033	9.672 0794	142	9.726 2776	183	0.273 7224	9.945 8018	41	967	
		142		182			40		
034	9.672 0936		9.726 2958		0.273 7042	9.945 7978		966	
035	9.672 1079	143	9.726 3141	183	0.273 6859	9.945 7938	40	965	
036	9.672 1221	142	9.726 3324	183	0.273 6676	9.945 7897	41	964	
		142		182			40		
037	9.672 1363		9.726 3506		0.273 6494	9.945 7857		963	
038	9.672 1506	143	9.726 3689	183	0.273 6311	9.945 7817	40	962	
039	9.672 1648	142	9.726 3872	183	0.273 6128	9.945 7776	41	961	
		142		183			40		
.040	9.672 1790		9.726 4055		0.273 5945	9.945 7736		.960	
		143		182			41		
041	9.672 1933		9.726 4237		0.273 5763	9.945 7695		959	
042	9.672 2075	142	9.726 4420	183	0.273 5580	9.945 7655	40	958	
043	9.672 2217	142	9.726 4603	183	0.273 5397	9.945 7615	40	957	
		143		182			41		
044	9.672 2360		9.726 4785		0.273 5215	9.945 7574		956	
045	9.672 2502	142	9.726 4968	183	0.273 5032	9.945 7534	40	955	
046	9.672 2644	142	9.726 5151	183	0.273 4849	9.945 7494	40	954	
		142		182			41		
047	9.672 2786		9.726 5333		0.273 4667	9.945 7453		953	
048	9.672 2929	143	9.726 5516	183	0.273 4484	9.945 7413	40	952	
049	9.672 3071	142	9.726 5699	183	0.273 4301	9.945 7372	41	951	
		142		182			40		
.050	9.672 3213		9.726 5881		0.273 4119	9.945 7332		.950	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	183	182
1	18.3	18.2
2	36.6	36.4
3	54.9	54.6
4	73.2	72.8
5	91.5	91.0
6	109.8	109.2
7	128.1	127.4
8	146.4	145.6
9	164.7	163.8

	143
1	14.3
2	28.6
3	42.9
4	57.2
5	71.5
6	85.8
7	100.1
8	114.4
9	128.7

	142
1	14.2
2	28.4
3	42.6
4	56.8
5	71.0
6	85.2
7	99.4
8	113.6
9	127.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

62°.000 — 61°.950

28°.050 — 28°.100

28°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.672 3213		9.726 5881		0.273 4119	9.945 7332		**.950**	
		142		183			40		
051	9.672 3355		9.726 6064		0.273 3936	9.945 7292		949	
052	9.672 3498	143	9.726 6247	183	0.273 3753	9.945 7251	41	948	
053	9.672 3640	142	9.726 6429	182	0.273 3571	9.945 7211	40	947	
		142		183			41		
054	9.672 3782		9.726 6612		0.273 3388	9.945 7170		946	
055	9.672 3924	142	9.726 6794	182	0.273 3206	9.945 7130	40	945	
056	9.672 4067	143	9.726 6977	183	0.273 3023	9.945 7090	40	944	
		142		183			41		
057	9.672 4209		9.726 7160		0.273 2840	9.945 7049		943	
058	9.672 4351	142	9.726 7342	182	0.273 2658	9.945 7009	40	942	
059	9.672 4493	142	9.726 7525	183	0.273 2475	9.945 6968	41	941	
		143		182			40		
.060	9.672 4636		9.726 7707		0.273 2293	9.945 6928		**.940**	
		142		183			40		
061	9.672 4778		9.726 7890		0.273 2110	9.945 6888		939	
062	9.672 4920	142	9.726 8073	183	0.273 1927	9.945 6847	41	938	
063	9.672 5062	142	9.726 8255	182	0.273 1745	9.945 6807	40	937	
		142		183			41		
064	9.672 5204		9.726 8438		0.273 1562	9.945 6766		936	
065	9.672 5346	142	9.726 8620	182	0.273 1380	9.945 6726	40	935	
066	9.672 5489	143	9.726 8803	183	0.273 1197	9.945 6686	40	934	
		142		183			41		
067	9.672 5631		9.726 8986		0.273 1014	9.945 6645		933	
068	9.672 5773	142	9.726 9168	182	0.273 0832	9.945 6605	40	932	
069	9.672 5915	142	9.726 9351	183	0.273 0649	9.945 6564	41	931	
		142		182			40		
.070	9.672 6057		9.726 9533		0.273 0467	9.945 6524		**.930**	
		142		183			41		
071	9.672 6199		9.726 9716		0.273 0284	9.945 6483		929	
072	9.672 6341	142	9.726 9898	182	0.273 0102	9.945 6443	40	928	
073	9.672 6484	143	9.727 0081	183	0.272 9919	9.945 6403	40	927	
		142		182			41		
074	9.672 6626		9.727 0263		0.272 9737	9.945 6362		926	
075	9.672 6768	142	9.727 0446	183	0.272 9554	9.945 6322	40	925	
076	9.672 6910	142	9.727 0629	183	0.272 9371	9.945 6281	41	924	
		142		182			40		
077	9.672 7052		9.727 0811		0.272 9189	9.945 6241		923	
078	9.672 7194	142	9.727 0994	183	0.272 9006	9.945 6200	41	922	
079	9.672 7336	142	9.727 1176	182	0.272 8824	9.945 6160	40	921	
		142		183			40		
.080	9.672 7478		9.727 1359		0.272 8641	9.945 6120		**.920**	
		142		182			41		
081	9.672 7620		9.727 1541		0.272 8459	9.945 6079		919	
082	9.672 7762	142	9.727 1724	183	0.272 8276	9.945 6039	40	918	
083	9.672 7904	142	9.727 1906	182	0.272 8094	9.945 5998	41	917	
		143		183			40		
084	9.672 8047		9.727 2089		0.272 7911	9.945 5958		916	
085	9.672 8189	142	9.727 2271	182	0.272 7729	9.945 5917	41	915	
086	9.672 8331	142	9.727 2454	183	0.272 7546	9.945 5877	40	914	
		142		182			41		
087	9.672 8473		9.727 2636		0.272 7364	9.945 5836		913	
088	9.672 8615	142	9.727 2819	183	0.272 7181	9.945 5796	40	912	
089	9.672 8757	142	9.727 3001	182	0.272 6999	9.945 5756	40	911	
		142		183			41		
.090	9.672 8899		9.727 3184		0.272 6816	9.945 5715		**.910**	
		142		182			40		
091	9.672 9041		9.727 3366		0.272 6634	9.945 5675		909	
092	9.672 9183	142	9.727 3549	183	0.272 6451	9.945 5634	41	908	
093	9.672 9325	142	9.727 3731	182	0.272 6269	9.945 5594	40	907	
		142		182			41		
094	9.672 9467		9.727 3913		0.272 6087	9.945 5553		906	
095	9.672 9609	142	9.727 4096	183	0.272 5904	9.945 5513	40	905	
096	9.672 9751	142	9.727 4278	182	0.272 5722	9.945 5472	41	904	
		142		183			40		
097	9.672 9893		9.727 4461		0.272 5539	9.945 5432		903	
098	9.673 0035	142	9.727 4643	182	0.272 5357	9.945 5391	41	902	
099	9.673 0177	142	9.727 4826	183	0.272 5174	9.945 5351	40	901	
		142		182			41		
.100	9.673 0319		9.727 5008		0.272 4992	9.945 5310		**.900**	
	cos	d	cotg	d	tang	sin	d	**61°**	P.P.

	183	182
1	18.3	18.2
2	36.6	36.4
3	54.9	54.6
4	73.2	72.8
5	91.5	91.0
6	109.8	109.2
7	128.1	127.4
8	146.4	145.6
9	164.7	163.8

	143
1	14.3
2	28.6
3	42.9
4	57.2
5	71.5
6	85.8
7	100.1
8	114.4
9	128.7

	142
1	14.2
2	28.4
3	42.6
4	56.8
5	71.0
6	85.2
7	99.4
8	113.6
9	127.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

61°.950 — 61°.900

28°.100 — 28°.150

28°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.673 0319		9.727 5008		0.272 4992	9.945 5310		.900	
		142		183			40		
101	9.673 0461		9.727 5191		0.272 4809	9.945 5270		899	
102	9.673 0603	142	9.727 5373	182	0.272 4627	9.945 5230	40	898	
103	9.673 0744	141	9.727 5555	182	0.272 4445	9.945 5189	41	897	
		142		183			40		
104	9.673 0886		9.727 5738		0.272 4262	9.945 5149		896	
105	9.673 1028	142	9.727 5920	182	0.272 4080	9.945 5108	41	895	
106	9.673 1170	142	9.727 6103	183	0.272 3897	9.945 5068	40	894	
		142		182			41		
107	9.673 1312		9.727 6285		0.272 3715	9.945 5027		893	
108	9.673 1454	142	9.727 6467	182	0.272 3533	9.945 4987	40	892	
109	9.673 1596	142	9.727 6650	183	0.272 3350	9.945 4946	41	891	
		142		182			40		
.110	9.673 1738		9.727 6832		0.272 3168	9.945 4906		.890	
		142		183			41		
111	9.673 1880		9.727 7015		0.272 2985	9.945 4865		889	
112	9.673 2022	142	9.727 7197	182	0.272 2803	9.945 4825	40	888	
113	9.673 2164	142	9.727 7379	182	0.272 2621	9.945 4784	41	887	
		141		183			40		
114	9.673 2305		9.727 7562		0.272 2438	9.945 4744		886	
115	9.673 2447	142	9.727 7744	182	0.272 2256	9.945 4703	41	885	
116	9.673 2589	142	9.727 7926	182	0.272 2074	9.945 4663	40	884	
		142		183			41		
117	9.673 2731		9.727 8109		0.272 1891	9.945 4622		883	
118	9.673 2873	142	9.727 8291	182	0.272 1709	9.945 4582	40	882	
119	9.673 3015	142	9.727 8474	183	0.272 1526	9.945 4541	41	881	
		142		182			40		
.120	9.673 3157		9.727 8656		0.272 1344	9.945 4501		.880	
		141		182			41		
121	9.673 3298		9.727 8838		0.272 1162	9.945 4460		879	
122	9.673 3440	142	9.727 9021	183	0.272 0979	9.945 4420	40	878	
123	9.673 3582	142	9.727 9203	182	0.272 0797	9.945 4379	41	877	
		142		182			40		
124	9.673 3724		9.727 9385		0.272 0615	9.945 4339		876	
125	9.673 3866	142	9.727 9568	183	0.272 0432	9.945 4298	41	875	
126	9.673 4008	142	9.727 9750	182	0.272 0250	9.945 4258	40	874	
		141		182			41		
127	9.673 4149		9.727 9932		0.272 0068	9.945 4217		873	
128	9.673 4291	142	9.728 0115	183	0.271 9885	9.945 4177	40	872	
129	9.673 4433	142	9.728 0297	182	0.271 9703	9.945 4136	41	871	
		142		182			40		
.130	9.673 4575		9.728 0479		0.271 9521	9.945 4096		.870	
		141		182			41		
131	9.673 4716		9.728 0661		0.271 9339	9.945 4055		869	
132	9.673 4858	142	9.728 0844	183	0.271 9156	9.945 4014	41	868	
133	9.673 5000	142	9.728 1026	182	0.271 8974	9.945 3974	40	867	
		142		182			41		
134	9.673 5142		9.728 1208		0.271 8792	9.945 3933		866	
135	9.673 5284	142	9.728 1391	183	0.271 8609	9.945 3893	40	865	
136	9.673 5425	141	9.728 1573	182	0.271 8427	9.945 3852	41	864	
		142		182			40		
137	9.673 5567		9.728 1755		0.271 8245	9.945 3812		863	
138	9.673 5709	142	9.728 1937	182	0.271 8063	9.945 3771	41	862	
139	9.673 5850	141	9.728 2120	183	0.271 7880	9.945 3731	40	861	
		142		182			41		
.140	9.673 5992		9.728 2302		0.271 7698	9.945 3690		.860	
		142		182			40		
141	9.673 6134		9.728 2484		0.271 7516	9.945 3650		859	
142	9.673 6276	142	9.728 2666	182	0.271 7334	9.945 3609	41	858	
143	9.673 6417	141	9.728 2849	183	0.271 7151	9.945 3569	40	857	
		142		182			41		
144	9.673 6559		9.728 3031		0.271 6969	9.945 3528		856	
145	9.673 6701	142	9.728 3213	182	0.271 6787	9.945 3487	41	855	
146	9.673 6842	141	9.728 3395	182	0.271 6605	9.945 3447	40	854	
		142		183			41		
147	9.673 6984		9.728 3578		0.271 6422	9.945 3406		853	
148	9.673 7126	142	9.728 3760	182	0.271 6240	9.945 3366	40	852	
149	9.673 7267	141	9.728 3942	182	0.271 6058	9.945 3325	41	851	
		142		182			40		
.150	9.673 7409		9.728 4124		0.271 5876	9.945 3285		.850	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	183	182
1	18.3	18.2
2	36.6	36.4
3	54.9	54.6
4	73.2	72.8
5	91.5	91.0
6	109.8	109.2
7	128.1	127.4
8	146.4	145.6
9	164.7	163.8

	142
1	14.2
2	28.4
3	42.6
4	56.8
5	71.0
6	85.2
7	99.4
8	113.6
9	127.8

	141
1	14.1
2	28.2
3	42.3
4	56.4
5	70.5
6	84.6
7	98.7
8	112.8
9	126.9

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

61°.900 — 61°.850

28°.150 — 28°.200

28°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.673 7409		9.728 4124		0.271 5876	9.945 3285		.850	
		142		183			41		
151	9.673 7551		9.728 4307		0.271 5693	9.945 3244		849	
152	9.673 7692	141	9.728 4489	182	0.271 5511	9.945 3204	40	848	
153	9.673 7834	142	9.728 4671	182	0.271 5329	9.945 3163	41	847	
		142		182			41		
154	9.673 7976		9.728 4853		0.271 5147	9.945 3122		846	
155	9.673 8117	141	9.728 5035	182	0.271 4965	9.945 3082	40	845	
156	9.673 8259	142	9.728 5218	183	0.271 4782	9.945 3041	41	844	
		142		182			40		
157	9.673 8401		9.728 5400		0.271 4600	9.945 3001		843	
158	9.673 8542	141	9.728 5582	182	0.271 4418	9.945 2960	41	842	
159	9.673 8684	142	9.728 5764	182	0.271 4236	9.945 2920	40	841	
		141		182			41		
.160	9.673 8825		9.728 5946		0.271 4054	9.945 2879		.840	
		142		183			41		
161	9.673 8967		9.728 6129		0.271 3871	9.945 2838		839	
162	9.673 9109	142	9.728 6311	182	0.271 3689	9.945 2798	40	838	
163	9.673 9250	141	9.728 6493	182	0.271 3507	9.945 2757	41	837	
		142		182			40		
164	9.673 9392		9.728 6675		0.271 3325	9.945 2717		836	
165	9.673 9533	141	9.728 6857	182	0.271 3143	9.945 2676	41	835	
166	9.673 9675	142	9.728 7039	182	0.271 2961	9.945 2636	40	834	
		141		182			41		
167	9.673 9816		9.728 7221		0.271 2779	9.945 2595		833	
168	9.673 9958	142	9.728 7404	183	0.271 2596	9.945 2554	41	832	
169	9.674 0100	142	9.728 7586	182	0.271 2414	9.945 2514	40	831	
		141		182			41		
.170	9.674 0241		9.728 7768		0.271 2232	9.945 2473		.830	
		142		182			40		
171	9.674 0383		9.728 7950		0.271 2050	9.945 2433		829	
172	9.674 0524	141	9.728 8132	182	0.271 1868	9.945 2392	41	828	
173	9.674 0666	142	9.728 8314	182	0.271 1686	9.945 2351	41	827	
		141		182			40		
174	9.674 0807		9.728 8496		0.271 1504	9.945 2311		826	
175	9.674 0949	142	9.728 8679	183	0.271 1321	9.945 2270	41	825	
176	9.674 1090	141	9.728 8861	182	0.271 1139	9.945 2230	40	824	
		142		182			41		
177	9.674 1232		9.728 9043		0.271 0957	9.945 2189		823	
178	9.674 1373	141	9.728 9225	182	0.271 0775	9.945 2148	41	822	
179	9.674 1515	142	9.728 9407	182	0.271 0593	9.945 2108	40	821	
		141		182			41		
.180	9.674 1656		9.728 9589		0.271 0411	9.945 2067		.820	
		142		182			40		
181	9.674 1798		9.728 9771		0.271 0229	9.945 2027		819	
182	9.674 1939	141	9.728 9953	182	0.271 0047	9.945 1986	41	818	
183	9.674 2081	142	9.729 0135	182	0.270 9865	9.945 1945	41	817	
		141		182			40		
184	9.674 2222		9.729 0317		0.270 9683	9.945 1905		816	
185	9.674 2364	142	9.729 0499	182	0.270 9501	9.945 1864	41	815	
186	9.674 2505	141	9.729 0681	182	0.270 9319	9.945 1824	40	814	
		141		183			41		
187	9.674 2646		9.729 0864		0.270 9136	9.945 1783		813	
188	9.674 2788	142	9.729 1046	182	0.270 8954	9.945 1742	41	812	
189	9.674 2929	141	9.729 1228	182	0.270 8772	9.945 1702	40	811	
		142		182			41		
.190	9.674 3071		9.729 1410		0.270 8590	9.945 1661		.810	
		141		182			41		
191	9.674 3212		9.729 1592		0.270 8408	9.945 1620		809	
192	9.674 3354	142	9.729 1774	182	0.270 8226	9.945 1580	40	808	
193	9.674 3495	141	9.729 1956	182	0.270 8044	9.945 1539	41	807	
		141		182			40		
194	9.674 3636		9.729 2138		0.270 7862	9.945 1499		806	
195	9.674 3778	142	9.729 2320	182	0.270 7680	9.945 1458	41	805	
196	9.674 3919	141	9.729 2502	182	0.270 7498	9.945 1417	41	804	
		142		182			40		
197	9.674 4061		9.729 2684		0.270 7316	9.945 1377		803	
198	9.674 4202	141	9.729 2866	182	0.270 7134	9.945 1336	41	802	
199	9.674 4343	141	9.729 3048	182	0.270 6952	9.945 1295	41	801	
		142		182			40		
.200	9.674 4485		9.729 3230		0.270 6770	9.945 1255		.800	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	183	182
1	18.3	18.2
2	36.6	36.4
3	54.9	54.6
4	73.2	72.8
5	91.5	91.0
6	109.8	109.2
7	128.1	127.4
8	146.4	145.6
9	164.7	163.8

	142
1	14.2
2	28.4
3	42.6
4	56.8
5	71.0
6	85.2
7	99.4
8	113.6
9	127.8

	141
1	14.1
2	28.2
3	42.3
4	56.4
5	70.5
6	84.6
7	98.7
8	112.8
9	126.9

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

61°.850 — 61°.800

28°.200 — 28°.250

28°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.674 4485		9.729 3230		0.270 6770	9.945 1255		**.800**	
		141		182			41		
201	9.674 4626		9.729 3412		0.270 6588	9.945 1214		799	
202	9.674 4767	141	9.729 3594	182	0.270 6406	9.945 1173	41	798	
203	9.674 4909	142	9.729 3776	182	0.270 6224	9.945 1133	40	797	
		141		182			41		
204	9.674 5050		9.729 3958		0.270 6042	9.945 1092		796	
205	9.674 5191	141	9.729 4140	182	0.270 5860	9.945 1051	41	795	
206	9.674 5333	142	9.729 4322	182	0.270 5678	9.945 1011	40	794	
		141		182			41		
207	9.674 5474		9.729 4504		0.270 5496	9.945 0970		793	
208	9.674 5615	141	9.729 4686	182	0.270 5314	9.945 0930	40	792	
209	9.674 5757	142	9.729 4868	182	0.270 5132	9.945 0889	41	791	
		141		182			41		
.210	9.674 5898		9.729 5050		0.270 4950	9.945 0848		**.790**	
		141		182			40		
211	9.674 6039		9.729 5232		0.270 4768	9.945 0808		789	
212	9.674 6181	142	9.729 5414	182	0.270 4586	9.945 0767	41	788	
213	9.674 6322	141	9.729 5596	182	0.270 4404	9.945 0726	41	787	
		141		182			40		
214	9.674 6463		9.729 5778		0.270 4222	9.945 0686		786	
215	9.674 6604	141	9.729 5960	182	0.270 4040	9.945 0645	41	785	
216	9.674 6746	142	9.729 6142	182	0.270 3858	9.945 0604	41	784	
		141		181			40		
217	9.674 6887		9.729 6323		0.270 3677	9.945 0564		783	
218	9.674 7028	141	9.729 6505	182	0.270 3495	9.945 0523	41	782	
219	9.674 7170	142	9.729 6687	182	0.270 3313	9.945 0482	41	781	
		141		182			40		
.220	9.674 7311		9.729 6869		0.270 3131	9.945 0442		**.780**	
		141		182			41		
221	9.674 7452		9.729 7051		0.270 2949	9.945 0401		779	
222	9.674 7593	141	9.729 7233	182	0.270 2767	9.945 0360	41	778	
223	9.674 7735	142	9.729 7415	182	0.270 2585	9.945 0319	41	777	
		141		182			40		
224	9.674 7876		9.729 7597		0.270 2403	9.945 0279		776	
225	9.674 8017	141	9.729 7779	182	0.270 2221	9.945 0238	41	775	
226	9.674 8158	141	9.729 7961	182	0.270 2039	9.945 0197	41	774	
		141		182			40		
227	9.674 8299		9.729 8143		0.270 1857	9.945 0157		773	
228	9.674 8441	142	9.729 8325	182	0.270 1675	9.945 0116	41	772	
229	9.674 8582	141	9.729 8506	181	0.270 1494	9.945 0075	41	771	
		141		182			40		
.230	9.674 8723		9.729 8688		0.270 1312	9.945 0035		**.770**	
		141		182			41		
231	9.674 8864		9.729 8870		0.270 1130	9.944 9994		769	
232	9.674 9005	141	9.729 9052	182	0.270 0948	9.944 9953	41	768	
233	9.674 9146	141	9.729 9234	182	0.270 0766	9.944 9913	40	767	
		142		182			41		
234	9.674 9288		9.729 9416		0.270 0584	9.944 9872		766	
235	9.674 9429	141	9.729 9598	182	0.270 0402	9.944 9831	41	765	
236	9.674 9570	141	9.729 9780	182	0.270 0220	9.944 9790	41	764	
		141		181			40		
237	9.674 9711		9.729 9961		0.270 0039	9.944 9750		763	
238	9.674 9852	141	9.730 0143	182	0.269 9857	9.944 9709	41	762	
239	9.674 9993	141	9.730 0325	182	0.269 9675	9.944 9668	41	761	
		142		182			40		
.240	9.675 0135		9.730 0507		0.269 9493	9.944 9628		**.760**	
		141		182			41		
241	9.675 0276		9.730 0689		0.269 9311	9.944 9587		759	
242	9.675 0417	141	9.730 0871	182	0.269 9129	9.944 9546	41	758	
243	9.675 0558	141	9.730 1052	181	0.269 8948	9.944 9505	41	757	
		141		182			40		
244	9.675 0699		9.730 1234		0.269 8766	9.944 9465		756	
245	9.675 0840	141	9.730 1416	182	0.269 8584	9.944 9424	41	755	
246	9.675 0981	141	9.730 1598	182	0.269 8402	9.944 9383	41	754	
		141		182			40		
247	9.675 1122		9.730 1780		0.269 8220	9.944 9343		753	
248	9.675 1263	141	9.730 1961	181	0.269 8039	9.944 9302	41	752	
249	9.675 1404	141	9.730 2143	182	0.269 7857	9.944 9261	41	751	
		142		182			41		
.250	9.675 1546		9.730 2325		0.269 7675	9.944 9220		**.750**	
	cos	d	cotg	d	tang	sin	d	**61°**	P.P.

	182	181
1	18.2	18.1
2	36.4	36.2
3	54.6	54.3
4	72.8	72.4
5	91.0	90.5
6	109.2	108.6
7	127.4	126.7
8	145.6	144.8
9	163.8	162.9

	142
1	14.2
2	28.4
3	42.6
4	56.8
5	71.0
6	85.2
7	99.4
8	113.6
9	127.8

	141
1	14.1
2	28.2
3	42.3
4	56.4
5	70.5
6	84.6
7	98.7
8	112.8
9	126.9

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

61°.800 — 61°.750

$28^\circ.250 - 28^\circ.300$

28°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.675 1546		9.730 2325		0.269 7675	9.944 9220		.750	
		141		182			40		
251	9.675 1687		9.730 2507		0.269 7493	9.944 9180		749	
252	9.675 1828	141	9.730 2689	182	0.269 7311	9.944 9139	41	748	
253	9.675 1969	141	9.730 2870	181	0.269 7130	9.944 9098	41	747	
		141		182			40		
254	9.675 2110		9.730 3052		0.269 6948	9.944 9058		746	
255	9.675 2251	141	9.730 3234	182	0.269 6766	9.944 9017	41	745	
256	9.675 2392	141	9.730 3416	182	0.269 6584	9.944 8976	41	744	
		141		182			41		
257	9.675 2533		9.730 3598		0.269 6402	9.944 8935		743	
258	9.675 2674	141	9.730 3779	181	0.269 6221	9.944 8895	40	742	
259	9.675 2815	141	9.730 3961	182	0.269 6039	9.944 8854	41	741	
		141		182			41		
.260	9.675 2956		9.730 4143		0.269 5857	9.944 8813		.740	
		141		182			41		
261	9.675 3097		9.730 4325		0.269 5675	9.944 8772		739	
262	9.675 3238	141	9.730 4506	181	0.269 5494	9.944 8732	40	738	
263	9.675 3379	141	9.730 4688	182	0.269 5312	9.944 8691	41	737	
		141		182			41		
264	9.675 3520		9.730 4870		0.269 5130	9.944 8650		736	
265	9.675 3661	141	9.730 5052	182	0.269 4948	9.944 8609	41	735	
266	9.675 3802	141	9.730 5233	181	0.269 4767	9.944 8569	40	734	
		141		182			41		
267	9.675 3943		9.730 5415		0.269 4585	9.944 8528		733	
268	9.675 4084	141	9.730 5597	182	0.269 4403	9.944 8487	41	732	
269	9.675 4225	141	9.730 5778	181	0.269 4222	9.944 8446	41	731	
		141		182			40		
.270	9.675 4366		9.730 5960		0.269 4040	9.944 8406		.730	
		141		182			41		
271	9.675 4507		9.730 6142		0.269 3858	9.944 8365		729	
272	9.675 4648	141	9.730 6324	182	0.269 3676	9.944 8324	41	728	
273	9.675 4789	141	9.730 6505	181	0.269 3495	9.944 8283	41	727	
		140		182			41		
274	9.675 4929		9.730 6687		0.269 3313	9.944 8242		726	
275	9.675 5070	141	9.730 6869	182	0.269 3131	9.944 8202	40	725	
276	9.675 5211	141	9.730 7050	181	0.269 2950	9.944 8161	41	724	
		141		182			41		
277	9.675 5352		9.730 7232		0.269 2768	9.944 8120		723	
278	9.675 5493	141	9.730 7414	182	0.269 2586	9.944 8079	41	722	
279	9.675 5634	141	9.730 7595	181	0.269 2405	9.944 8039	40	721	
		141		182			41		
.280	9.675 5775		9.730 7777		0.269 2223	9.944 7998		.720	
		141		182			41		
281	9.675 5916		9.730 7959		0.269 2041	9.944 7957		719	
282	9.675 6057	141	9.730 8140	181	0.269 1860	9.944 7916	41	718	
283	9.675 6198	141	9.730 8322	182	0.269 1678	9.944 7875	41	717	
		140		182			40		
284	9.675 6338		9.730 8504		0.269 1496	9.944 7835		716	
285	9.675 6479	141	9.730 8685	181	0.269 1315	9.944 7794	41	715	
286	9.675 6620	141	9.730 8867	182	0.269 1133	9.944 7753	41	714	
		141		182			41		
287	9.675 6761		9.730 9049		0.269 0951	9.944 7712		713	
288	9.675 6902	141	9.730 9230	181	0.269 0770	9.944 7672	40	712	
289	9.675 7043	141	9.730 9412	182	0.269 0588	9.944 7631	41	711	
		141		182			41		
.290	9.675 7184		9.730 9594		0.269 0406	9.944 7590		.710	
		140		181			41		
291	9.675 7324		9.730 9775		0.269 0225	9.944 7549		709	
292	9.675 7465	141	9.730 9957	182	0.269 0043	9.944 7508	41	708	
293	9.675 7606	141	9.731 0138	181	0.268 9862	9.944 7468	40	707	
		141		182			41		
294	9.675 7747		9.731 0320		0.268 9680	9.944 7427		706	
295	9.675 7888	141	9.731 0502	182	0.268 9498	9.944 7386	41	705	
296	9.675 8028	140	9.731 0683	181	0.268 9317	9.944 7345	41	704	
		141		182			41		
297	9.675 8169		9.731 0865		0.268 9135	9.944 7304		703	
298	9.675 8310	141	9.731 1046	181	0.268 8954	9.944 7264	40	702	
299	9.675 8451	141	9.731 1228	182	0.268 8772	9.944 7223	41	701	
		141		182			41		
.300	9.675 8592		9.731 1410		0.268 8590	9.944 7182		.700	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	182	181
1	18.2	18.1
2	36.4	36.2
3	54.6	54.3
4	72.8	72.4
5	91.0	90.5
6	109.2	108.6
7	127.4	126.7
8	145.6	144.8
9	163.8	162.9

	141
1	14.1
2	28.2
3	42.3
4	56.4
5	70.5
6	84.6
7	98.7
8	112.8
9	126.9

	140
1	14.0
2	28.0
3	42.0
4	56.0
5	70.0
6	84.0
7	98.0
8	112.0
9	126.0

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

$61^\circ.750 - 61^\circ.700$

$28^\circ.300 - 28^\circ.350$

28°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.675 8592		9.731 1410		0.268 8590	9.944 7182		.700	
		140		181			41		
301	9.675 8732		9.731 1591		0.268 8409	9.944 7141		699	
302	9.675 8873	141	9.731 1773	182	0.268 8227	9.944 7100	41	698	
303	9.675 9014	141	9.731 1954	181	0.268 8046	9.944 7059	41	697	
		141		182			40		
304	9.675 9155		9.731 2136		0.268 7864	9.944 7019		696	
305	9.675 9295	140	9.731 2318	182	0.268 7682	9.944 6978	41	695	
306	9.675 9436	141	9.731 2499	181	0.268 7501	9.944 6937	41	694	
		141		182			41		
307	9.675 9577		9.731 2681		0.268 7319	9.944 6896		693	
308	9.675 9718	141	9.731 2862	181	0.268 7138	9.944 6855	41	692	
309	9.675 9858	140	9.731 3044	182	0.268 6956	9.944 6815	40	691	
		141		181			41		
.310	9.675 9999		9.731 3225		0.268 6775	9.944 6774		.690	
		141		182			41		
311	9.676 0140		9.731 3407		0.268 6593	9.944 6733		689	
312	9.676 0280	140	9.731 3588	181	0.268 6412	9.944 6692	41	688	
313	9.676 0421	141	9.731 3770	182	0.268 6230	9.944 6651	41	687	
		141		181			41		
314	9.676 0562		9.731 3951		0.268 6049	9.944 6610		686	
315	9.676 0702	140	9.731 4133	182	0.268 5867	9.944 6570	40	685	
316	9.676 0843	141	9.731 4314	181	0.268 5686	9.944 6529	41	684	
		141		182			41		
317	9.676 0984		9.731 4496		0.268 5504	9.944 6488		683	
318	9.676 1125	141	9.731 4678	182	0.268 5322	9.944 6447	41	682	
319	9.676 1265	140	9.731 4859	181	0.268 5141	9.944 6406	41	681	
		141		182			41		
.320	9.676 1406		9.731 5041		0.268 4959	9.944 6365		.680	
		140		181			41		
321	9.676 1546		9.731 5222		0.268 4778	9.944 6324		679	
322	9.676 1687	141	9.731 5404	182	0.268 4596	9.944 6284	40	678	
323	9.676 1828	141	9.731 5585	181	0.268 4415	9.944 6243	41	677	
		140		182			41		
324	9.676 1968		9.731 5767		0.268 4233	9.944 6202		676	
325	9.676 2109	141	9.731 5948	181	0.268 4052	9.944 6161	41	675	
326	9.676 2250	141	9.731 6129	181	0.268 3871	9.944 6120	41	674	
		140		182			41		
327	9.676 2390		9.731 6311		0.268 3689	9.944 6079		673	
328	9.676 2531	141	9.731 6492	181	0.268 3508	9.944 6038	41	672	
329	9.676 2671	140	9.731 6674	182	0.268 3326	9.944 5998	40	671	
		141		181			41		
.330	9.676 2812		9.731 6855		0.268 3145	9.944 5957		.670	
		141		182			41		
331	9.676 2953		9.731 7037		0.268 2963	9.944 5916		669	
332	9.676 3093	140	9.731 7218	181	0.268 2782	9.944 5875	41	668	
333	9.676 3234	141	9.731 7400	182	0.268 2600	9.944 5834	41	667	
		140		181			41		
334	9.676 3374		9.731 7581		0.268 2419	9.944 5793		666	
335	9.676 3515	141	9.731 7763	182	0.268 2237	9.944 5752	41	665	
336	9.676 3656	141	9.731 7944	181	0.268 2056	9.944 5712	40	664	
		140		181			41		
337	9.676 3796		9.731 8125		0.268 1875	9.944 5671		663	
338	9.676 3937	141	9.731 8307	182	0.268 1693	9.944 5630	41	662	
339	9.676 4077	140	9.731 8488	181	0.268 1512	9.944 5589	41	661	
		141		182			41		
.340	9.676 4218		9.731 8670		0.268 1330	9.944 5548		.660	
		140		181			41		
341	9.676 4358		9.731 8851		0.268 1149	9.944 5507		659	
342	9.676 4499	141	9.731 9033	182	0.268 0967	9.944 5466	41	658	
343	9.676 4639	140	9.731 9214	181	0.268 0786	9.944 5425	41	657	
		141		181			41		
344	9.676 4780		9.731 9395		0.268 0605	9.944 5384		656	
345	9.676 4920	140	9.731 9577	182	0.268 0423	9.944 5344	40	655	
346	9.676 5061	141	9.731 9758	181	0.268 0242	9.944 5303	41	654	
		140		182			41		
347	9.676 5201		9.731 9940		0.268 0060	9.944 5262		653	
348	9.676 5342	141	9.732 0121	181	0.267 9879	9.944 5221	41	652	
349	9.676 5482	140	9.732 0302	181	0.267 9698	9.944 5180	41	651	
		141		182			41		
.350	9.676 5623		9.732 0484		0.267 9516	9.944 5139		.650	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	182	181
1	18.2	18.1
2	36.4	36.2
3	54.6	54.3
4	72.8	72.4
5	91.0	90.5
6	109.2	108.6
7	127.4	126.7
8	145.6	144.8
9	163.8	162.9

	141
1	14.1
2	28.2
3	42.3
4	56.4
5	70.5
6	84.6
7	98.7
8	112.8
9	126.9

	140
1	14.0
2	28.0
3	42.0
4	56.0
5	70.0
6	84.0
7	98.0
8	112.0
9	126.0

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

$61^\circ.700 - 61^\circ.650$

$28^\circ.350 - 28^\circ.400$

28°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.676 5623		9.732 0484		0.267 9516	9.944 5139		.650	
		140		181			41		
351	9.676 5763		9.732 0665		0.267 9335	9.944 5098		649	
352	9.676 5904	141	9.732 0847	182	0.267 9153	9.944 5057	41	648	
353	9.676 6044	140	9.732 1028	181	0.267 8972	9.944 5016	41	647	
		141		181			41		
354	9.676 6185		9.732 1209		0.267 8791	9.944 4975		646	
355	9.676 6325	140	9.732 1391	182	0.267 8609	9.944 4935	40	645	
356	9.676 6466	141	9.732 1572	181	0.267 8428	9.944 4894	41	644	
		140		181			41		
357	9.676 6606		9.732 1753		0.267 8247	9.944 4853		643	
358	9.676 6747	141	9.732 1935	182	0.267 8065	9.944 4812	41	642	
359	9.676 6887	140	9.732 2116	181	0.267 7884	9.944 4771	41	641	
		140		181			41		
.360	9.676 7027		9.732 2297		0.267 7703	9.944 4730		.640	
		141		182			41		
361	9.676 7168		9.732 2479		0.267 7521	9.944 4689		639	
362	9.676 7308	140	9.732 2660	181	0.267 7340	9.944 4648	41	638	
363	9.676 7449	141	9.732 2841	181	0.267 7159	9.944 4607	41	637	
		140		182			41		
364	9.676 7589		9.732 3023		0.267 6977	9.944 4566		636	
365	9.676 7729	140	9.732 3204	181	0.267 6796	9.944 4525	41	635	
366	9.676 7870	141	9.732 3385	181	0.267 6615	9.944 4484	41	634	
		140		182			40		
367	9.676 8010		9.732 3567		0.267 6433	9.944 4444		633	
368	9.676 8151	141	9.732 3748	181	0.267 6252	9.944 4403	41	632	
369	9.676 8291	140	9.732 3929	181	0.267 6071	9.944 4362	41	631	
		140		182			41		
.370	9.676 8431		9.732 4111		0.267 5889	9.944 4321		.630	
		141		181			41		
371	9.676 8572		9.732 4292		0.267 5708	9.944 4280		629	
372	9.676 8712	140	9.732 4473	181	0.267 5527	9.944 4239	41	628	
373	9.676 8852	140	9.732 4654	181	0.267 5346	9.944 4198	41	627	
		141		182			41		
374	9.676 8993		9.732 4836		0.267 5164	9.944 4157		626	
375	9.676 9133	140	9.732 5017	181	0.267 4983	9.944 4116	41	625	
376	9.676 9273	140	9.732 5198	181	0.267 4802	9.944 4075	41	624	
		141		181			41		
377	9.676 9414		9.732 5379		0.267 4621	9.944 4034		623	
378	9.676 9554	140	9.732 5561	182	0.267 4439	9.944 3993	41	622	
379	9.676 9694	140	9.732 5742	181	0.267 4258	9.944 3952	41	621	
		141		181			41		
.380	9.676 9835		9.732 5923		0.267 4077	9.944 3911		.620	
		140		181			41		
381	9.676 9975		9.732 6104		0.267 3896	9.944 3870		619	
382	9.677 0115	140	9.732 6286	182	0.267 3714	9.944 3829	41	618	
383	9.677 0255	140	9.732 6467	181	0.267 3533	9.944 3789	40	617	
		141		181			41		
384	9.677 0396		9.732 6648		0.267 3352	9.944 3748		616	
385	9.677 0536	140	9.732 6829	181	0.267 3171	9.944 3707	41	615	
386	9.677 0676	140	9.732 7011	182	0.267 2989	9.944 3666	41	614	
		141		181			41		
387	9.677 0817		9.732 7192		0.267 2808	9.944 3625		613	
388	9.677 0957	140	9.732 7373	181	0.267 2627	9.944 3584	41	612	
389	9.677 1097	140	9.732 7554	181	0.267 2446	9.944 3543	41	611	
		140		182			41		
.390	9.677 1237		9.732 7736		0.267 2264	9.944 3502		.610	
		141		181			41		
391	9.677 1378		9.732 7917		0.267 2083	9.944 3461		609	
392	9.677 1518	140	9.732 8098	181	0.267 1902	9.944 3420	41	608	
393	9.677 1658	140	9.732 8279	181	0.267 1721	9.944 3379	41	607	
		140		181			41		
394	9.677 1798		9.732 8460		0.267 1540	9.944 3338		606	
395	9.677 1939	141	9.732 8642	182	0.267 1358	9.944 3297	41	605	
396	9.677 2079	140	9.732 8823	181	0.267 1177	9.944 3256	41	604	
		140		181			41		
397	9.677 2219		9.732 9004		0.267 0996	9.944 3215		603	
398	9.677 2359	140	9.732 9185	181	0.267 0815	9.944 3174	41	602	
399	9.677 2499	140	9.732 9366	181	0.267 0634	9.944 3133	41	601	
		141		181			41		
.400	9.677 2640		9.732 9547		0.267 0453	9.944 3092		.600	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	182	181
1	18.2	18.1
2	36.4	36.2
3	54.6	54.3
4	72.8	72.4
5	91.0	90.5
6	109.2	108.6
7	127.4	126.7
8	145.6	144.8
9	163.8	162.9

	141
1	14.1
2	28.2
3	42.3
4	56.4
5	70.5
6	84.6
7	98.7
8	112.8
9	126.9

	140
1	14.0
2	28.0
3	42.0
4	56.0
5	70.0
6	84.0
7	98.0
8	112.0
9	126.0

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

	40
1	4.0
2	8.0
3	12.0
4	16.0
5	20.0
6	24.0
7	28.0
8	32.0
9	36.0

$61^\circ.650 - 61^\circ.600$

28°.400 — 28°.450

28°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.677 2640		9.732 9547		0.267 0453	9.944 3092		.600	
		140		182			41		
401	9.677 2780		9.732 9729		0.267 0271	9.944 3051		599	
402	9.677 2920	140	9.732 9910	181	0.267 0090	9.944 3010	41	598	
403	9.677 3060	140	9.733 0091	181	0.266 9909	9.944 2969	41	597	
		140		181			41		
404	9.677 3200		9.733 0272		0.266 9728	9.944 2928		596	
405	9.677 3340	140	9.733 0453	181	0.266 9547	9.944 2887	41	595	
406	9.677 3481	141	9.733 0634	181	0.266 9366	9.944 2846	41	594	
		140		182			41		
407	9.677 3621		9.733 0816		0.266 9184	9.944 2805		593	
408	9.677 3761	140	9.733 0997	181	0.266 9003	9.944 2764	41	592	
409	9.677 3901	140	9.733 1178	181	0.266 8822	9.944 2723	41	591	
		140		181			41		
.410	9.677 4041		9.733 1359		0.266 8641	9.944 2682		.590	
		140		181			41		
411	9.677 4181		9.733 1540		0.266 8460	9.944 2641		589	
412	9.677 4321	140	9.733 1721	181	0.266 8279	9.944 2600	41	588	
413	9.677 4461	140	9.733 1902	181	0.266 8098	9.944 2559	41	587	
		141		181			41		
414	9.677 4602		9.733 2083		0.266 7917	9.944 2518		586	
415	9.677 4742	140	9.733 2265	182	0.266 7735	9.944 2477	41	585	
416	9.677 4882	140	9.733 2446	181	0.266 7554	9.944 2436	41	584	
		140		181			41		
417	9.677 5022		9.733 2627		0.266 7373	9.944 2395		583	
418	9.677 5162	140	9.733 2808	181	0.266 7192	9.944 2354	41	582	
419	9.677 5302	140	9.733 2989	181	0.266 7011	9.944 2313	41	581	
		140		181			41		
.420	9.677 5442		9.733 3170		0.266 6830	9.944 2272		.580	
		140		181			41		
421	9.677 5582		9.733 3351		0.266 6649	9.944 2231		579	
422	9.677 5722	140	9.733 3532	181	0.266 6468	9.944 2190	41	578	
423	9.677 5862	140	9.733 3713	181	0.266 6287	9.944 2149	41	577	
		140		181			41		
424	9.677 6002		9.733 3894		0.266 6106	9.944 2108		576	
425	9.677 6142	140	9.733 4075	181	0.266 5925	9.944 2067	41	575	
426	9.677 6282	140	9.733 4257	182	0.266 5743	9.944 2026	41	574	
		140		181			41		
427	9.677 6422		9.733 4438		0.266 5562	9.944 1985		573	
428	9.677 6562	140	9.733 4619	181	0.266 5381	9.944 1944	41	572	
429	9.677 6702	140	9.733 4800	181	0.266 5200	9.944 1903	41	571	
		140		181			41		
.430	9.677 6842		9.733 4981		0.266 5019	9.944 1862		.570	
		140		181			41		
431	9.677 6982		9.733 5162		0.266 4838	9.944 1821		569	
432	9.677 7123	141	9.733 5343	181	0.266 4657	9.944 1780	41	568	
433	9.677 7262	139	9.733 5524	181	0.266 4476	9.944 1739	41	567	
		140		181			41		
434	9.677 7402		9.733 5705		0.266 4295	9.944 1698		566	
435	9.677 7542	140	9.733 5886	181	0.266 4114	9.944 1657	41	565	
436	9.677 7682	140	9.733 6067	181	0.266 3933	9.944 1615	42	564	
		140		181			41		
437	9.677 7822		9.733 6248		0.266 3752	9.944 1574		563	
438	9.677 7962	140	9.733 6429	181	0.266 3571	9.944 1533	41	562	
439	9.677 8102	140	9.733 6610	181	0.266 3390	9.944 1492	41	561	
		140		181			41		
.440	9.677 8242		9.733 6791		0.266 3209	9.944 1451		.560	
		140		181			41		
441	9.677 8382		9.733 6972		0.266 3028	9.944 1410		559	
442	9.677 8522	140	9.733 7153	181	0.266 2847	9.944 1369	41	558	
443	9.677 8662	140	9.733 7334	181	0.266 2666	9.944 1328	41	557	
		140		181			41		
444	9.677 8802		9.733 7515		0.266 2485	9.944 1287		556	
445	9.677 8942	140	9.733 7696	181	0.266 2304	9.944 1246	41	555	
446	9.677 9082	140	9.733 7877	181	0.266 2123	9.944 1205	41	554	
		140		181			41		
447	9.677 9222		9.733 8058		0.266 1942	9.944 1164		553	
448	9.677 9362	140	9.733 8239	181	0.266 1761	9.944 1123	41	552	
449	9.677 9502	140	9.733 8420	181	0.266 1580	9.944 1082	41	551	
		140		181			41		
.450	9.677 9642		9.733 8601		0.266 1399	9.944 1041		.550	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	182	181
1	18.2	18.1
2	36.4	36.2
3	54.6	54.3
4	72.8	72.4
5	91.0	90.5
6	109.2	108.6
7	127.4	126.7
8	145.6	144.8
9	163.8	162.9

	141	140
1	14.1	14.0
2	28.2	28.0
3	42.3	42.0
4	56.4	56.0
5	70.5	70.0
6	84.6	84.0
7	98.7	98.0
8	112.8	112.0
9	126.9	126.0

	139
1	13.9
2	27.8
3	41.7
4	55.6
5	69.5
6	83.4
7	97.3
8	111.2
9	125.1

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

61°.600 — 61°.550

$28^\circ.450 - 28^\circ.500$

28°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.677 9642		9.733 8601		0.266 1399	9.944 1041		**.550**	
		139		181			41		
451	9.677 9781		9.733 8782		0.266 1218	9.944 1000		549	
452	9.677 9921	140	9.733 8963	181	0.266 1037	9.944 0959	41	548	
453	9.678 0061	140	9.733 9144	181	0.266 0856	9.944 0917	42	547	
		140		181			41		
454	9.678 0201		9.733 9325		0.266 0675	9.944 0876		546	
455	9.678 0341	140	9.733 9506	181	0.266 0494	9.944 0835	41	545	
456	9.678 0481	140	9.733 9687	181	0.266 0313	9.944 0794	41	544	
		140		181			41		
457	9.678 0621		9.733 9868		0.266 0132	9.944 0753		543	
458	9.678 0761	140	9.734 0048	180	0.265 9952	9.944 0712	41	542	
459	9.678 0900	139	9.734 0229	181	0.265 9771	9.944 0671	41	541	
		140		181			41		
.460	9.678 1040		9.734 0410		0.265 9590	9.944 0630		**.540**	
		140		181			41		
461	9.678 1180		9.734 0591		0.265 9409	9.944 0589		539	
462	9.678 1320	140	9.734 0772	181	0.265 9228	9.944 0548	41	538	
463	9.678 1460	140	9.734 0953	181	0.265 9047	9.944 0507	41	537	
		140		181			41		
464	9.678 1600		9.734 1134		0.265 8866	9.944 0466		536	
465	9.678 1739	139	9.734 1315	181	0.265 8685	9.944 0424	42	535	
466	9.678 1879	140	9.734 1496	181	0.265 8504	9.944 0383	41	534	
		140		181			41		
467	9.678 2019		9.734 1677		0.265 8323	9.944 0342		533	
468	9.678 2159	140	9.734 1858	181	0.265 8142	9.944 0301	41	532	
469	9.678 2299	140	9.734 2038	180	0.265 7962	9.944 0260	41	531	
		139		181			41		
.470	9.678 2438		9.734 2219		0.265 7781	9.944 0219		**.530**	
		140		181			41		
471	9.678 2578		9.734 2400		0.265 7600	9.944 0178		529	
472	9.678 2718	140	9.734 2581	181	0.265 7419	9.944 0137	41	528	
473	9.678 2858	140	9.734 2762	181	0.265 7238	9.944 0096	41	527	
		139		181			41		
474	9.678 2997		9.734 2943		0.265 7057	9.944 0055		526	
475	9.678 3137	140	9.734 3124	181	0.265 6876	9.944 0013	42	525	
476	9.678 3277	140	9.734 3305	181	0.265 6695	9.943 9972	41	524	
		140		180			41		
477	9.678 3417		9.734 3485		0.265 6515	9.943 9931		523	
478	9.678 3556	139	9.734 3666	181	0.265 6334	9.943 9890	41	522	
479	9.678 3696	140	9.734 3847	181	0.265 6153	9.943 9849	41	521	
		140		181			41		
.480	9.678 3836		9.734 4028		0.265 5972	9.943 9808		**.520**	
		139		181			41		
481	9.678 3975		9.734 4209		0.265 5791	9.943 9767		519	
482	9.678 4115	140	9.734 4390	181	0.265 5610	9.943 9726	41	518	
483	9.678 4255	140	9.734 4570	180	0.265 5430	9.943 9684	42	517	
		140		181			41		
484	9.678 4395		9.734 4751		0.265 5249	9.943 9643		516	
485	9.678 4534	139	9.734 4932	181	0.265 5068	9.943 9602	41	515	
486	9.678 4674	140	9.734 5113	181	0.265 4887	9.943 9561	41	514	
		140		181			41		
487	9.678 4814		9.734 5294		0.265 4706	9.943 9520		513	
488	9.678 4953	139	9.734 5475	181	0.265 4525	9.943 9479	41	512	
489	9.678 5093	140	9.734 5655	180	0.265 4345	9.943 9438	41	511	
		140		181			41		
.490	9.678 5233		9.734 5836		0.265 4164	9.943 9397		**.510**	
		139		181			42		
491	9.678 5372		9.734 6017		0.265 3983	9.943 9355		509	
492	9.678 5512	140	9.734 6198	181	0.265 3802	9.943 9314	41	508	
493	9.678 5652	140	9.734 6379	181	0.265 3621	9.943 9273	41	507	
		139		180			41		
494	9.678 5791		9.734 6559		0.265 3441	9.943 9232		506	
495	9.678 5931	140	9.734 6740	181	0.265 3260	9.943 9191	41	505	
496	9.678 6071	140	9.734 6921	181	0.265 3079	9.943 9150	41	504	
		139		181			41		
497	9.678 6210		9.734 7102		0.265 2898	9.943 9109		503	
498	9.678 6350	140	9.734 7282	180	0.265 2718	9.943 9067	42	502	
499	9.678 6489	139	9.734 7463	181	0.265 2537	9.943 9026	41	501	
		140		181			41		
.500	9.678 6629		9.734 7644		0.265 2356	9.943 8985		**.500**	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	181	180
1	18.1	18.0
2	36.2	36.0
3	54.3	54.0
4	72.4	72.0
5	90.5	90.0
6	108.6	108.0
7	126.7	126.0
8	144.8	144.0
9	162.9	162.0

	140
1	14.0
2	28.0
3	42.0
4	56.0
5	70.0
6	84.0
7	98.0
8	112.0
9	126.0

	139
1	13.9
2	27.8
3	41.7
4	55.6
5	69.5
6	83.4
7	97.3
8	111.2
9	125.1

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

$61^\circ.550 - 61^\circ.500$

$28^\circ.500 - 28^\circ.550$

28°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.678 6629		9.734 7644		0.265 2356	9.943 8985		**.500**	
		140		181			41		
501	9.678 6769		9.734 7825		0.265 2175	9.943 8944		499	
502	9.678 6908	139	9.734 8005	180	0.265 1995	9.943 8903	41	498	
503	9.678 7048	140	9.734 8186	181	0.265 1814	9.943 8862	41	497	
		139		181			42		
504	9.678 7187		9.734 8367		0.265 1633	9.943 8820		496	
505	9.678 7327	140	9.734 8548	181	0.265 1452	9.943 8779	41	495	
506	9.678 7467	140	9.734 8728	180	0.265 1272	9.943 8738	41	494	
		139		181			41		
507	9.678 7606		9.734 8909		0.265 1091	9.943 8697		493	
508	9.678 7746	140	9.734 9090	181	0.265 0910	9.943 8656	41	492	
509	9.678 7885	139	9.734 9271	181	0.265 0729	9.943 8615	41	491	
		140		180			42		
.510	9.678 8025		9.734 9451		0.265 0549	9.943 8573		**.490**	
		139		181			41		
511	9.678 8164		9.734 9632		0.265 0368	9.943 8532		489	
512	9.678 8304	140	9.734 9813	181	0.265 0187	9.943 8491	41	488	
513	9.678 8443	139	9.734 9993	180	0.265 0007	9.943 8450	41	487	
		140		181			41		
514	9.678 8583		9.735 0174		0.264 9826	9.943 8409		486	
515	9.678 8722	139	9.735 0355	181	0.264 9645	9.943 8368	41	485	
516	9.678 8862	140	9.735 0536	181	0.264 9464	9.943 8326	42	484	
		139		180			41		
517	9.678 9001		9.735 0716		0.264 9284	9.943 8285		483	
518	9.678 9141	140	9.735 0897	181	0.264 9103	9.943 8244	41	482	
519	9.678 9280	139	9.735 1078	181	0.264 8922	9.943 8203	41	481	
		140		180			41		
.520	9.678 9420		9.735 1258		0.264 8742	9.943 8162		**.480**	
		139		181			42		
521	9.678 9559		9.735 1439		0.264 8561	9.943 8120		479	
522	9.678 9699	140	9.735 1620	181	0.264 8380	9.943 8079	41	478	
523	9.678 9838	139	9.735 1800	180	0.264 8200	9.943 8038	41	477	
		140		181			41		
524	9.678 9978		9.735 1981		0.264 8019	9.943 7997		476	
525	9.679 0117	139	9.735 2162	181	0.264 7838	9.943 7956	41	475	
526	9.679 0257	140	9.735 2342	180	0.264 7658	9.943 7914	42	474	
		139		181			41		
527	9.679 0396		9.735 2523		0.264 7477	9.943 7873		473	
528	9.679 0536	140	9.735 2704	181	0.264 7296	9.943 7832	41	472	
529	9.679 0675	139	9.735 2884	180	0.264 7116	9.943 7791	41	471	
		140		181			41		
.530	9.679 0815		9.735 3065		0.264 6935	9.943 7750		**.470**	
		139		181			42		
531	9.679 0954		9.735 3246		0.264 6754	9.943 7708		469	
532	9.679 1093	139	9.735 3426	180	0.264 6574	9.943 7667	41	468	
533	9.679 1233	140	9.735 3607	181	0.264 6393	9.943 7626	41	467	
		139		180			41		
534	9.679 1372		9.735 3787		0.264 6213	9.943 7585		466	
535	9.679 1512	140	9.735 3968	181	0.264 6032	9.943 7544	41	465	
536	9.679 1651	139	9.735 4149	181	0.264 5851	9.943 7502	42	464	
		139		180			41		
537	9.679 1790		9.735 4329		0.264 5671	9.943 7461		463	
538	9.679 1930	140	9.735 4510	181	0.264 5490	9.943 7420	41	462	
539	9.679 2069	139	9.735 4690	180	0.264 5310	9.943 7379	41	461	
		140		181			42		
.540	9.679 2209		9.735 4871		0.264 5129	9.943 7337		**.460**	
		139		181			41		
541	9.679 2348		9.735 5052		0.264 4948	9.943 7296		459	
542	9.679 2487	139	9.735 5232	180	0.264 4768	9.943 7255	41	458	
543	9.679 2627	140	9.735 5413	181	0.264 4587	9.943 7214	41	457	
		139		180			41		
544	9.679 2766		9.735 5593		0.264 4407	9.943 7173		456	
545	9.679 2905	139	9.735 5774	181	0.264 4226	9.943 7131	42	455	
546	9.679 3045	140	9.735 5955	181	0.264 4045	9.943 7090	41	454	
		139		180			41		
547	9.679 3184		9.735 6135		0.264 3865	9.943 7049		453	
548	9.679 3323	139	9.735 6316	181	0.264 3684	9.943 7008	41	452	
549	9.679 3463	140	9.735 6496	180	0.264 3504	9.943 6966	42	451	
		139		181			41		
.550	9.679 3602		9.735 6677		0.264 3323	9.943 6925		**.450**	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	181	180
1	18.1	18.0
2	36.2	36.0
3	54.3	54.0
4	72.4	72.0
5	90.5	90.0
6	108.6	108.0
7	126.7	126.0
8	144.8	144.0
9	162.9	162.0

	140
1	14.0
2	28.0
3	42.0
4	56.0
5	70.0
6	84.0
7	98.0
8	112.0
9	126.0

	139
1	13.9
2	27.8
3	41.7
4	55.6
5	69.5
6	83.4
7	97.3
8	111.2
9	125.1

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

$61^\circ.500 - 61^\circ.450$

28°.550 — 28°.600

28°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.679 3602		9.735 6677		0.264 3323	9.943 6925		.450	
		139		180			41		
551	9.679 3741		9.735 6857		0.264 3143	9.943 6884		449	
552	9.679 3881	140	9.735 7038	181	0.264 2962	9.943 6843	41	448	
553	9.679 4020	139	9.735 7218	180	0.264 2782	9.943 6801	42	447	
		139		181			41		
554	9.679 4159		9.735 7399		0.264 2601	9.943 6760		446	
555	9.679 4298	139	9.735 7580	181	0.264 2420	9.943 6719	41	445	
556	9.679 4438	140	9.735 7760	180	0.264 2240	9.943 6678	41	444	
		139		181			42		
557	9.679 4577		9.735 7941		0.264 2059	9.943 6636		443	
558	9.679 4716	139	9.735 8121	180	0.264 1879	9.943 6595	41	442	
559	9.679 4856	140	9.735 8302	181	0.264 1698	9.943 6554	41	441	
		139		180			41		
.560	9.679 4995		9.735 8482		0.264 1518	9.943 6513		.440	
		139		181			42		
561	9.679 5134		9.735 8663		0.264 1337	9.943 6471		439	
562	9.679 5273	139	9.735 8843	180	0.264 1157	9.943 6430	41	438	
563	9.679 5413	140	9.735 9024	181	0.264 0976	9.943 6389	41	437	
		139		180			41		
564	9.679 5552		9.735 9204		0.264 0796	9.943 6348		436	
565	9.679 5691	139	9.735 9385	181	0.264 0615	9.943 6306	42	435	
566	9.679 5830	139	9.735 9565	180	0.264 0435	9.943 6265	41	434	
		139		181			41		
567	9.679 5969		9.735 9746		0.264 0254	9.943 6224		433	
568	9.679 6109	140	9.735 9926	180	0.264 0074	9.943 6183	41	432	
569	9.679 6248	139	9.736 0107	181	0.263 9893	9.943 6141	42	431	
		139		180			41		
.570	9.679 6387		9.736 0287		0.263 9713	9.943 6100		.430	
		139		181			41		
571	9.679 6526		9.736 0468		0.263 9532	9.943 6059		429	
572	9.679 6665	139	9.736 0648	180	0.263 9352	9.943 6017	42	428	
573	9.679 6805	140	9.736 0828	180	0.263 9172	9.943 5976	41	427	
		139		181			41		
574	9.679 6944		9.736 1009		0.263 8991	9.943 5935		426	
575	9.679 7083	139	9.736 1189	180	0.263 8811	9.943 5894	41	425	
576	9.679 7222	139	9.736 1370	181	0.263 8630	9.943 5852	42	424	
		139		180			41		
577	9.679 7361		9.736 1550		0.263 8450	9.943 5811		423	
578	9.679 7500	139	9.736 1731	181	0.263 8269	9.943 5770	41	422	
579	9.679 7640	140	9.736 1911	180	0.263 8089	9.943 5728	42	421	
		139		181			41		
.580	9.679 7779		9.736 2092		0.263 7908	9.943 5687		.420	
		139		180			41		
581	9.679 7918		9.736 2272		0.263 7728	9.943 5646		419	
582	9.679 8057	139	9.736 2452	180	0.263 7548	9.943 5605	41	418	
583	9.679 8196	139	9.736 2633	181	0.263 7367	9.943 5563	42	417	
		139		180			41		
584	9.679 8335		9.736 2813		0.263 7187	9.943 5522		416	
585	9.679 8474	139	9.736 2994	181	0.263 7006	9.943 5481	41	415	
586	9.679 8613	139	9.736 3174	180	0.263 6826	9.943 5439	42	414	
		140		181			41		
587	9.679 8753		9.736 3355		0.263 6645	9.943 5398		413	
588	9.679 8892	139	9.736 3535	180	0.263 6465	9.943 5357	41	412	
589	9.679 9031	139	9.736 3715	180	0.263 6285	9.943 5315	42	411	
		139		181			41		
.590	9.679 9170		9.736 3896		0.263 6104	9.943 5274		.410	
		139		180			41		
591	9.679 9309		9.736 4076		0.263 5924	9.943 5233		409	
592	9.679 9448	139	9.736 4257	181	0.263 5743	9.943 5192	41	408	
593	9.679 9587	139	9.736 4437	180	0.263 5563	9.943 5150	42	407	
		139		180			41		
594	9.679 9726		9.736 4617		0.263 5383	9.943 5109		406	
595	9.679 9865	139	9.736 4798	181	0.263 5202	9.943 5068	41	405	
596	9.680 0004	139	9.736 4978	180	0.263 5022	9.943 5026	42	404	
		139		180			41		
597	9.680 0143		9.736 5158		0.263 4842	9.943 4985		403	
598	9.680 0282	139	9.736 5339	181	0.263 4661	9.943 4944	41	402	
599	9.680 0421	139	9.736 5519	180	0.263 4481	9.943 4902	42	401	
		139		180			41		
.600	9.680 0560		9.736 5699		0.263 4301	9.943 4861		.400	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	181	180
1	18.1	18.0
2	36.2	36.0
3	54.3	54.0
4	72.4	72.0
5	90.5	90.0
6	108.6	108.0
7	126.7	126.0
8	144.8	144.0
9	162.9	162.0

	140
1	14.0
2	28.0
3	42.0
4	56.0
5	70.0
6	84.0
7	98.0
8	112.0
9	126.0

	139
1	13.9
2	27.8
3	41.7
4	55.6
5	69.5
6	83.4
7	97.3
8	111.2
9	125.1

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

61°.450 — 61°.400

28°.600 — 28°.650

28°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.680 0560		9.736 5699		0.263 4301	9.943 4861		**.400**	
		139		181			41		
601	9.680 0699		9.736 5880		0.263 4120	9.943 4820		399	
602	9.680 0838	139	9.736 6060	180	0.263 3940	9.943 4778	42	398	
603	9.680 0977	139	9.736 6240	180	0.263 3760	9.943 4737	41	397	
		139		181			41		
604	9.680 1116		9.736 6421		0.263 3579	9.943 4696		396	
605	9.680 1255	139	9.736 6601	180	0.263 3399	9.943 4654	42	395	
606	9.680 1394	139	9.736 6781	180	0.263 3219	9.943 4613	41	394	
		139		181			41		
607	9.680 1533		9.736 6962		0.263 3038	9.943 4572		393	
608	9.680 1672	139	9.736 7142	180	0.263 2858	9.943 4530	42	392	
609	9.680 1811	139	9.736 7322	180	0.263 2678	9.943 4489	41	391	
		139		181			41		
.610	9.680 1950		9.736 7503		0.263 2497	9.943 4448		**.390**	
		139		180			42		
611	9.680 2089		9.736 7683		0.263 2317	9.943 4406		389	
612	9.680 2228	139	9.736 7863	180	0.263 2137	9.943 4365	41	388	
613	9.680 2367	139	9.736 8044	181	0.263 1956	9.943 4324	41	387	
		139		180			42		
614	9.680 2506		9.736 8224		0.263 1776	9.943 4282		386	
615	9.680 2645	139	9.736 8404	180	0.263 1596	9.943 4241	41	385	
616	9.680 2784	139	9.736 8585	181	0.263 1415	9.943 4199	42	384	
		139		180			41		
617	9.680 2923		9.736 8765		0.263 1235	9.943 4158		383	
618	9.680 3062	139	9.736 8945	180	0.263 1055	9.943 4117	41	382	
619	9.680 3201	139	9.736 9125	180	0.263 0875	9.943 4075	42	381	
		139		181			41		
.620	9.680 3340		9.736 9306		0.263 0694	9.943 4034		**.380**	
		139		180			41		
621	9.680 3479		9.736 9486		0.263 0514	9.943 3993		379	
622	9.680 3618	139	9.736 9666	180	0.263 0334	9.943 3951	42	378	
623	9.680 3756	138	9.736 9846	180	0.263 0154	9.943 3910	41	377	
		139		181			41		
624	9.680 3895		9.737 0027		0.262 9973	9.943 3869		376	
625	9.680 4034	139	9.737 0207	180	0.262 9793	9.943 3827	42	375	
626	9.680 4173	139	9.737 0387	180	0.262 9613	9.943 3786	41	374	
		139		180			42		
627	9.680 4312		9.737 0567		0.262 9433	9.943 3744		373	
628	9.680 4451	139	9.737 0748	181	0.262 9252	9.943 3703	41	372	
629	9.680 4590	139	9.737 0928	180	0.262 9072	9.943 3662	41	371	
		139		180			42		
.630	9.680 4729		9.737 1108		0.262 8892	9.943 3620		**.370**	
		138		180			41		
631	9.680 4867		9.737 1288		0.262 8712	9.943 3579		369	
632	9.680 5006	139	9.737 1469	181	0.262 8531	9.943 3538	41	368	
633	9.680 5145	139	9.737 1649	180	0.262 8351	9.943 3496	42	367	
		139		180			41		
634	9.680 5284		9.737 1829		0.262 8171	9.943 3455		366	
635	9.680 5423	139	9.737 2009	180	0.262 7991	9.943 3413	42	365	
636	9.680 5562	139	9.737 2189	180	0.262 7811	9.943 3372	41	364	
		138		181			41		
637	9.680 5700		9.737 2370		0.262 7630	9.943 3331		363	
638	9.680 5839	139	9.737 2550	180	0.262 7450	9.943 3289	42	362	
639	9.680 5978	139	9.737 2730	180	0.262 7270	9.943 3248	41	361	
		139		180			41		
.640	9.680 6117		9.737 2910		0.262 7090	9.943 3207		**.360**	
		139		180			42		
641	9.680 6256		9.737 3090		0.262 6910	9.943 3165		359	
642	9.680 6394	138	9.737 3271	181	0.262 6729	9.943 3124	41	358	
643	9.680 6533	139	9.737 3451	180	0.262 6549	9.943 3082	42	357	
		139		180			41		
644	9.680 6672		9.737 3631		0.262 6369	9.943 3041		356	
645	9.680 6811	139	9.737 3811	180	0.262 6189	9.943 3000	41	355	
646	9.680 6949	138	9.737 3991	180	0.262 6009	9.943 2958	42	354	
		139		181			41		
647	9.680 7088		9.737 4172		0.262 5828	9.943 2917		353	
648	9.680 7227	139	9.737 4352	180	0.262 5648	9.943 2875	42	352	
649	9.680 7366	139	9.737 4532	180	0.262 5468	9.943 2834	41	351	
		138		180			42		
.650	9.680 7504		9.737 4712		0.262 5288	9.943 2792		**.350**	
	cos	d	cotg	d	tang	sin	d	**61°**	P.P.

	181	180
1	18.1	18.0
2	36.2	36.0
3	54.3	54.0
4	72.4	72.0
5	90.5	90.0
6	108.6	108.0
7	126.7	126.0
8	144.8	144.0
9	162.9	162.0

	139
1	13.9
2	27.8
3	41.7
4	55.6
5	69.5
6	83.4
7	97.3
8	111.2
9	125.1

	138
1	13.8
2	27.6
3	41.4
4	55.2
5	69.0
6	82.8
7	96.6
8	110.4
9	124.2

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

61°.400 — 61°.350

$28^\circ.650 - 28^\circ.700$

28°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.680 7504		9.737 4712		0.262 5288	9.943 2792		**.350**	
		139		180			41		
651	9.680 7643		9.737 4892		0.262 5108	9.943 2751		349	
652	9.680 7782	139	9.737 5072	180	0.262 4928	9.943 2710	41	348	
653	9.680 7921	139	9.737 5252	180	0.262 4748	9.943 2668	42	347	
		138		181			41		
654	9.680 8059		9.737 5433		0.262 4567	9.943 2627		346	
655	9.680 8198	139	9.737 5613	180	0.262 4387	9.943 2585	42	345	
656	9.680 8337	139	9.737 5793	180	0.262 4207	9.943 2544	41	344	
		138		180			41		
657	9.680 8475		9.737 5973		0.262 4027	9.943 2503		343	
658	9.680 8614	139	9.737 6153	180	0.262 3847	9.943 2461	42	342	
659	9.680 8753	139	9.737 6333	180	0.262 3667	9.943 2420	41	341	
		139		180			42		
.660	9.680 8892		9.737 6513		0.262 3487	9.943 2378		**.340**	
		138		180			41		
661	9.680 9030		9.737 6693		0.262 3307	9.943 2337		339	
662	9.680 9169	139	9.737 6873	180	0.262 3127	9.943 2295	42	338	
663	9.680 9308	139	9.737 7054	181	0.262 2946	9.943 2254	41	337	
		138		180			41		
664	9.680 9446		9.737 7234		0.262 2766	9.943 2213		336	
665	9.680 9585	139	9.737 7414	180	0.262 2586	9.943 2171	42	335	
666	9.680 9723	138	9.737 7594	180	0.262 2406	9.943 2130	41	334	
		139		180			42		
667	9.680 9862		9.737 7774		0.262 2226	9.943 2088		333	
668	9.681 0001	139	9.737 7954	180	0.262 2046	9.943 2047	41	332	
669	9.681 0139	138	9.737 8134	180	0.262 1866	9.943 2005	42	331	
		139		180			41		
.670	9.681 0278		9.737 8314		0.262 1686	9.943 1964		**.330**	
		139		180			42		
671	9.681 0417		9.737 8494		0.262 1506	9.943 1922		329	
672	9.681 0555	138	9.737 8674	180	0.262 1326	9.943 1881	41	328	
673	9.681 0694	139	9.737 8854	180	0.262 1146	9.943 1840	41	327	
		138		180			42		
674	9.681 0832		9.737 9034		0.262 0966	9.943 1798		326	
675	9.681 0971	139	9.737 9214	180	0.262 0786	9.943 1757	41	325	
676	9.681 1110	139	9.737 9394	180	0.262 0606	9.943 1715	42	324	
		138		181			41		
677	9.681 1248		9.737 9575		0.262 0425	9.943 1674		323	
678	9.681 1387	139	9.737 9755	180	0.262 0245	9.943 1632	42	322	
679	9.681 1525	138	9.737 9935	180	0.262 0065	9.943 1591	41	321	
		139		180			42		
.680	9.681 1664		9.738 0115		0.261 9885	9.943 1549		**.320**	
		138		180			41		
681	9.681 1802		9.738 0295		0.261 9705	9.943 1508		319	
682	9.681 1941	139	9.738 0475	180	0.261 9525	9.943 1466	42	318	
683	9.681 2080	139	9.738 0655	180	0.261 9345	9.943 1425	41	317	
		138		180			42		
684	9.681 2218		9.738 0835		0.261 9165	9.943 1383		316	
685	9.681 2357	139	9.738 1015	180	0.261 8985	9.943 1342	41	315	
686	9.681 2495	138	9.738 1195	180	0.261 8805	9.943 1300	42	314	
		139		180			41		
687	9.681 2634		9.738 1375		0.261 8625	9.943 1259		313	
688	9.681 2772	138	9.738 1555	180	0.261 8445	9.943 1218	41	312	
689	9.681 2911	139	9.738 1735	180	0.261 8265	9.943 1176	42	311	
		138		180			41		
.690	9.681 3049		9.738 1915		0.261 8085	9.943 1135		**.310**	
		139		180			42		
691	9.681 3188		9.738 2095		0.261 7905	9.943 1093		309	
692	9.681 3326	138	9.738 2275	180	0.261 7725	9.943 1052	41	308	
693	9.681 3465	139	9.738 2455	180	0.261 7545	9.943 1010	42	307	
		138		180			41		
694	9.681 3603		9.738 2635		0.261 7365	9.943 0969		306	
695	9.681 3742	139	9.738 2815	180	0.261 7185	9.943 0927	42	305	
696	9.681 3880	138	9.738 2995	180	0.261 7005	9.943 0886	41	304	
		139		180			42		
697	9.681 4019		9.738 3175		0.261 6825	9.943 0844		303	
698	9.681 4157	138	9.738 3354	179	0.261 6646	9.943 0803	41	302	
699	9.681 4296	139	9.738 3534	180	0.261 6466	9.943 0761	42	301	
		138		180			41		
.700	9.681 4434		9.738 3714		0.261 6286	9.943 0720		**.300**	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	181	180
1	18.1	18.0
2	36.2	36.0
3	54.3	54.0
4	72.4	72.0
5	90.5	90.0
6	108.6	108.0
7	126.7	126.0
8	144.8	144.0
9	162.9	162.0

	179
1	17.9
2	35.8
3	53.7
4	71.6
5	89.5
6	107.4
7	125.3
8	143.2
9	161.1

	139	138
1	13.9	13.8
2	27.8	27.6
3	41.7	41.4
4	55.6	55.2
5	69.5	69.0
6	83.4	82.8
7	97.3	96.6
8	111.2	110.4
9	125.1	124.2

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

$61^\circ.350 - 61^\circ.300$

$28^\circ.700 - 28^\circ.750$

28°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.681 4434		9.738 3714		0.261 6286	9.943 0720		.300	
		139		180			42		
701	9.681 4573		9.738 3894	180	0.261 6106	9.943 0678		299	
702	9.681 4711	138	9.738 4074	180	0.261 5926	9.943 0637	41	298	
703	9.681 4849	138	9.738 4254	180	0.261 5746	9.943 0595	42	297	
		139		180			41		
704	9.681 4988		9.738 4434		0.261 5566	9.943 0554		296	
705	9.681 5126	138	9.738 4614	180	0.261 5386	9.943 0512	42	295	
706	9.681 5265	139	9.738 4794	180	0.261 5206	9.943 0471	41	294	
		138		180			42		
707	9.681 5403		9.738 4974		0.261 5026	9.943 0429		293	
708	9.681 5541	138	9.738 5154	180	0.261 4846	9.943 0388	41	292	
709	9.681 5680	139	9.738 5334	180	0.261 4666	9.943 0346	42	291	
		138		180			41		
.710	9.681 5818		9.738 5514		0.261 4486	9.943 0305		.290	
		139		180			42		
711	9.681 5957		9.738 5694		0.261 4306	9.943 0263		289	
712	9.681 6095	138	9.738 5873	179	0.261 4127	9.943 0222	41	288	
713	9.681 6233	138	9.738 6053	180	0.261 3947	9.943 0180	42	287	
		139		180			41		
714	9.681 6372		9.738 6233		0.261 3767	9.943 0139		286	
715	9.681 6510	138	9.738 6413	180	0.261 3587	9.943 0097	42	285	
716	9.681 6649	139	9.738 6593	180	0.261 3407	9.943 0055	42	284	
		138		180			41		
717	9.681 6787		9.738 6773		0.261 3227	9.943 0014		283	
718	9.681 6925	138	9.738 6953	180	0.261 3047	9.942 9972	42	282	
719	9.681 7064	139	9.738 7133	180	0.261 2867	9.942 9931	41	281	
		138		180			42		
.720	9.681 7202		9.738 7313		0.261 2687	9.942 9889		.280	
		138		179			41		
721	9.681 7340		9.738 7492		0.261 2508	9.942 9848		279	
722	9.681 7479	139	9.738 7672	180	0.261 2328	9.942 9806	42	278	
723	9.681 7617	138	9.738 7852	180	0.261 2148	9.942 9765	41	277	
		138		180			42		
724	9.681 7755		9.738 8032		0.261 1968	9.942 9723		276	
725	9.681 7894	139	9.738 8212	180	0.261 1788	9.942 9682	41	275	
726	9.681 8032	138	9.738 8392	180	0.261 1608	9.942 9640	42	274	
		138		180			41		
727	9.681 8170		9.738 8572		0.261 1428	9.942 9599		273	
728	9.681 8308	138	9.738 8751	179	0.261 1249	9.942 9557	42	272	
729	9.681 8447	139	9.738 8931	180	0.261 1069	9.942 9516	41	271	
		138		180			42		
.730	9.681 8585		9.738 9111		0.261 0889	9.942 9474		.270	
		138		180			42		
731	9.681 8723		9.738 9291		0.261 0709	9.942 9432		269	
732	9.681 8862	139	9.738 9471	180	0.261 0529	9.942 9391	41	268	
733	9.681 9000	138	9.738 9650	179	0.261 0350	9.942 9349	42	267	
		138		180			41		
734	9.681 9138		9.738 9830		0.261 0170	9.942 9308		266	
735	9.681 9276	138	9.739 0010	180	0.260 9990	9.942 9266	42	265	
736	9.681 9415	139	9.739 0190	180	0.260 9810	9.942 9225	41	264	
		138		180			42		
737	9.681 9553		9.739 0370		0.260 9630	9.942 9183		263	
738	9.681 9691	138	9.739 0549	179	0.260 9451	9.942 9141	42	262	
739	9.681 9829	138	9.739 0729	180	0.260 9271	9.942 9100	41	261	
		138		180			42		
.740	9.681 9967		9.739 0909		0.260 9091	9.942 9058		.260	
		139		180			41		
741	9.682 0106		9.739 1089		0.260 8911	9.942 9017		259	
742	9.682 0244	138	9.739 1269	180	0.260 8731	9.942 8975	42	258	
743	9.682 0382	138	9.739 1448	179	0.260 8552	9.942 8934	41	257	
		138		180			42		
744	9.682 0520		9.739 1628		0.260 8372	9.942 8892		256	
745	9.682 0658	138	9.739 1808	180	0.260 8192	9.942 8851	41	255	
746	9.682 0797	139	9.739 1988	180	0.260 8012	9.942 8809	42	254	
		138		179			42		
747	9.682 0935		9.739 2167		0.260 7833	9.942 8767		253	
748	9.682 1073	138	9.739 2347	180	0.260 7653	9.942 8726	41	252	
749	9.682 1211	138	9.739 2527	180	0.260 7473	9.942 8684	42	251	
		138		180			41		
.750	9.682 1349		9.739 2707		0.260 7293	9.942 8643		.250	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	180	179
1	18.0	17.9
2	36.0	35.8
3	54.0	53.7
4	72.0	71.6
5	90.0	89.5
6	108.0	107.4
7	126.0	125.3
8	144.0	143.2
9	162.0	161.1

	139
1	13.9
2	27.8
3	41.7
4	55.6
5	69.5
6	83.4
7	97.3
8	111.2
9	125.1

	138
1	13.8
2	27.6
3	41.4
4	55.2
5	69.0
6	82.8
7	96.6
8	110.4
9	124.2

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

$61^\circ.300 - 61^\circ.250$

28°.750 — 28°.800

28°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.682 1349		9.739 2707		0.260 7293	9.942 8643		.250	
		139		179			42		
751	9.682 1488		9.739 2886		0.260 7114	9.942 8601		249	
752	9.682 1626	138	9.739 3066	180	0.260 6934	9.942 8559	42	248	
753	9.682 1764	138	9.739 3246	180	0.260 6754	9.942 8518	41	247	
		138		180			42		
754	9.682 1902		9.739 3426		0.260 6574	9.942 8476		246	
755	9.682 2040	138	9.739 3605	179	0.260 6395	9.942 8435	41	245	
756	9.682 2178	138	9.739 3785	180	0.260 6215	9.942 8393	42	244	
		138		180			42		
757	9.682 2316		9.739 3965		0.260 6035	9.942 8351		243	
758	9.682 2454	138	9.739 4145	180	0.260 5855	9.942 8310	41	242	
759	9.682 2593	139	9.739 4324	179	0.260 5676	9.942 8268	42	241	
		138		180			41		
.760	9.682 2731		9.739 4504		0.260 5496	9.942 8227		.240	
		138		180			42		
761	9.682 2869		9.739 4684		0.260 5316	9.942 8185		239	
762	9.682 3007	138	9.739 4863	179	0.260 5137	9.942 8143	42	238	
763	9.682 3145	138	9.739 5043	180	0.260 4957	9.942 8102	41	237	
		138		180			42		
764	9.682 3283		9.739 5223		0.260 4777	9.942 8060		236	
765	9.682 3421	138	9.739 5403	180	0.260 4597	9.942 8019	41	235	
766	9.682 3559	138	9.739 5582	179	0.260 4418	9.942 7977	42	234	
		138		180			42		
767	9.682 3697		9.739 5762		0.260 4238	9.942 7935		233	
768	9.682 3835	138	9.739 5942	180	0.260 4058	9.942 7894	41	232	
769	9.682 3973	138	9.739 6121	179	0.260 3879	9.942 7852	42	231	
		138		180			41		
.770	9.682 4111		9.739 6301		0.260 3699	9.942 7811		.230	
		139		180			42		
771	9.682 4250		9.739 6481		0.260 3519	9.942 7769		229	
772	9.682 4388	138	9.739 6660	179	0.260 3340	9.942 7727	42	228	
773	9.682 4526	138	9.739 6840	180	0.260 3160	9.942 7686	41	227	
		138		180			42		
774	9.682 4664		9.739 7020		0.260 2980	9.942 7644		226	
775	9.682 4802	138	9.739 7199	179	0.260 2801	9.942 7602	42	225	
776	9.682 4940	138	9.739 7379	180	0.260 2621	9.942 7561	41	224	
		138		179			42		
777	9.682 5078		9.739 7558		0.260 2442	9.942 7519		223	
778	9.682 5216	138	9.739 7738	180	0.260 2262	9.942 7478	41	222	
779	9.682 5354	138	9.739 7918	180	0.260 2082	9.942 7436	42	221	
		138		179			42		
.780	9.682 5492		9.739 8097		0.260 1903	9.942 7394		.220	
		138		180			41		
781	9.682 5630		9.739 8277		0.260 1723	9.942 7353		219	
782	9.682 5768	138	9.739 8457	180	0.260 1543	9.942 7311	42	218	
783	9.682 5906	138	9.739 8636	179	0.260 1364	9.942 7269	42	217	
		138		180			41		
784	9.682 6044		9.739 8816		0.260 1184	9.942 7228		216	
785	9.682 6182	138	9.739 8995	179	0.260 1005	9.942 7186	42	215	
786	9.682 6320	138	9.739 9175	180	0.260 0825	9.942 7144	42	214	
		137		180			41		
787	9.682 6457		9.739 9355		0.260 0645	9.942 7103		213	
788	9.682 6595	138	9.739 9534	179	0.260 0466	9.942 7061	42	212	
789	9.682 6733	138	9.739 9714	180	0.260 0286	9.942 7019	42	211	
		138		179			41		
.790	9.682 6871		9.739 9893		0.260 0107	9.942 6978		.210	
		138		180			42		
791	9.682 7009		9.740 0073		0.259 9927	9.942 6936		209	
792	9.682 7147	138	9.740 0253	180	0.259 9747	9.942 6895	41	208	
793	9.682 7285	138	9.740 0432	179	0.259 9568	9.942 6853	42	207	
		138		180			42		
794	9.682 7423		9.740 0612		0.259 9388	9.942 6811		206	
795	9.682 7561	138	9.740 0791	179	0.259 9209	9.942 6770	41	205	
796	9.682 7699	138	9.740 0971	180	0.259 9029	9.942 6728	42	204	
		138		179			42		
797	9.682 7837		9.740 1150		0.259 8850	9.942 6686		203	
798	9.682 7975	138	9.740 1330	180	0.259 8670	9.942 6645	41	202	
799	9.682 8112	137	9.740 1510	180	0.259 8490	9.942 6603	42	201	
		138		179			42		
.800	9.682 8250		9.740 1689		0.259 8311	9.942 6561		.200	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	180	179
1	18.0	17.9
2	36.0	35.8
3	54.0	53.7
4	72.0	71.6
5	90.0	89.5
6	108.0	107.4
7	126.0	125.3
8	144.0	143.2
9	162.0	161.1

	139	138
1	13.9	13.8
2	27.8	27.6
3	41.7	41.4
4	55.6	55.2
5	69.5	69.0
6	83.4	82.8
7	97.3	96.6
8	111.2	110.4
9	125.1	124.2

	137
1	13.7
2	27.4
3	41.1
4	54.8
5	68.5
6	82.2
7	95.9
8	109.6
9	123.3

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

61°.250 — 61°.200

28°.800 — 28°.850

28°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.682 8250		9.740 1689		0.259 8311	9.942 6561		**.200**	
		138		180			41		
801	9.682 8388		9.740 1869		0.259 8131	9.942 6520		199	
802	9.682 8526	138	9.740 2048	179	0.259 7952	9.942 6478	42	198	
803	9.682 8664	138	9.740 2228	180	0.259 7772	9.942 6436	42	197	
		138		179			41		
804	9.682 8802		9.740 2407		0.259 7593	9.942 6395		196	
805	9.682 8940	138	9.740 2587	180	0.259 7413	9.942 6353	42	195	
806	9.682 9078	138	9.740 2766	179	0.259 7234	9.942 6311	42	194	
		137		180			42		
807	9.682 9215		9.740 2946		0.259 7054	9.942 6269		193	
808	9.682 9353	138	9.740 3125	179	0.259 6875	9.942 6228	41	192	
809	9.682 9491	138	9.740 3305	180	0.259 6695	9.942 6186	42	191	
		138		179			42		
.810	9.682 9629		9.740 3484		0.259 6516	9.942 6144		**.190**	
		138		180			41		
811	9.682 9767		9.740 3664		0.259 6336	9.942 6103		189	
812	9.682 9904	137	9.740 3843	179	0.259 6157	9.942 6061	42	188	
813	9.683 0042	138	9.740 4023	180	0.259 5977	9.942 6019	42	187	
		138		179			41		
814	9.683 0180		9.740 4202		0.259 5798	9.942 5978		186	
815	9.683 0318	138	9.740 4382	180	0.259 5618	9.942 5936	42	185	
816	9.683 0456	138	9.740 4561	179	0.259 5439	9.942 5894	42	184	
		137		180			41		
817	9.683 0593		9.740 4741		0.259 5259	9.942 5853		183	
818	9.683 0731	138	9.740 4920	179	0.259 5080	9.942 5811	42	182	
819	9.683 0869	138	9.740 5100	180	0.259 4900	9.942 5769	42	181	
		138		179			42		
.820	9.683 1007		9.740 5279		0.259 4721	9.942 5727		**.180**	
		138		180			41		
821	9.683 1145		9.740 5459		0.259 4541	9.942 5686		179	
822	9.683 1282	137	9.740 5638	179	0.259 4362	9.942 5644	42	178	
823	9.683 1420	138	9.740 5818	180	0.259 4182	9.942 5602	42	177	
		138		179			41		
824	9.683 1558		9.740 5997		0.259 4003	9.942 5561		176	
825	9.683 1696	138	9.740 6177	180	0.259 3823	9.942 5519	42	175	
826	9.683 1833	137	9.740 6356	179	0.259 3644	9.942 5477	42	174	
		138		179			42		
827	9.683 1971		9.740 6535		0.259 3465	9.942 5435		173	
828	9.683 2109	138	9.740 6715	180	0.259 3285	9.942 5394	41	172	
829	9.683 2246	137	9.740 6894	179	0.259 3106	9.942 5352	42	171	
		138		180			42		
.830	9.683 2384		9.740 7074		0.259 2926	9.942 5310		**.170**	
		138		179			41		
831	9.683 2522		9.740 7253		0.259 2747	9.942 5269		169	
832	9.683 2660	138	9.740 7433	180	0.259 2567	9.942 5227	42	168	
833	9.683 2797	137	9.740 7612	179	0.259 2388	9.942 5185	42	167	
		138		179			42		
834	9.683 2935		9.740 7791		0.259 2209	9.942 5143		166	
835	9.683 3073	138	9.740 7971	180	0.259 2029	9.942 5102	41	165	
836	9.683 3210	137	9.740 8150	179	0.259 1850	9.942 5060	42	164	
		138		180			42		
837	9.683 3348		9.740 8330		0.259 1670	9.942 5018		163	
838	9.683 3486	138	9.740 8509	179	0.259 1491	9.942 4976	42	162	
839	9.683 3623	137	9.740 8688	179	0.259 1312	9.942 4935	41	161	
		138		180			42		
.840	9.683 3761		9.740 8868		0.259 1132	9.942 4893		**.160**	
		138		179			42		
841	9.683 3899		9.740 9047		0.259 0953	9.942 4851		159	
842	9.683 4036	137	9.740 9227	180	0.259 0773	9.942 4810	41	158	
843	9.683 4174	138	9.740 9406	179	0.259 0594	9.942 4768	42	157	
		137		179			42		
844	9.683 4311		9.740 9585		0.259 0415	9.942 4726		156	
845	9.683 4449	138	9.740 9765	180	0.259 0235	9.942 4684	42	155	
846	9.683 4587	138	9.740 9944	179	0.259 0056	9.942 4643	41	154	
		137		180			42		
847	9.683 4724		9.741 0124		0.258 9876	9.942 4601		153	
848	9.683 4862	138	9.741 0303	179	0.258 9697	9.942 4559	42	152	
849	9.683 5000	138	9.741 0482	179	0.258 9518	9.942 4517	42	151	
		137		180			41		
.850	9.683 5137		9.741 0662		0.258 9338	9.942 4476		**.150**	
	cos	d	cotg	d	tang	sin	d	**61°**	P.P.

	180	179
1	18.0	17.9
2	36.0	35.8
3	54.0	53.7
4	72.0	71.6
5	90.0	89.5
6	108.0	107.4
7	126.0	125.3
8	144.0	143.2
9	162.0	161.1

	138
1	13.8
2	27.6
3	41.4
4	55.2
5	69.0
6	82.8
7	96.6
8	110.4
9	124.2

	137
1	13.7
2	27.4
3	41.1
4	54.8
5	68.5
6	82.2
7	95.9
8	109.6
9	123.3

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

61°.200 — 61°.150

28°.850 — 28°.900

28°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.683 5137		9.741 0662		0.258 9338	9.942 4476		**.150**	
		138		179			42		
851	9.683 5275		9.741 0841		0.258 9159	9.942 4434		149	
852	9.683 5412	137	9.741 1020	179	0.258 8980	9.942 4392	42	148	
853	9.683 5550	138	9.741 1200	180	0.258 8800	9.942 4350	42	147	
		137		179			42		
854	9.683 5687		9.741 1379		0.258 8621	9.942 4308		146	
855	9.683 5825	138	9.741 1558	179	0.258 8442	9.942 4267	41	145	
856	9.683 5963	138	9.741 1738	180	0.258 8262	9.942 4225	42	144	
		137		179			42		
857	9.683 6100		9.741 1917		0.258 8083	9.942 4183		143	
858	9.683 6238	138	9.741 2096	179	0.258 7904	9.942 4141	42	142	
859	9.683 6375	137	9.741 2276	180	0.258 7724	9.942 4100	41	141	
		138		179			42		
.860	9.683 6513		9.741 2455		0.258 7545	9.942 4058		**.140**	
		137		179			42		
861	9.683 6650		9.741 2634		0.258 7366	9.942 4016		139	
862	9.683 6788	138	9.741 2813	179	0.258 7187	9.942 3974	42	138	
863	9.683 6925	137	9.741 2993	180	0.258 7007	9.942 3933	41	137	
		138		179			42		
864	9.683 7063		9.741 3172		0.258 6828	9.942 3891		136	
865	9.683 7200	137	9.741 3351	179	0.258 6649	9.942 3849	42	135	
866	9.683 7338	138	9.741 3531	180	0.258 6469	9.942 3807	42	134	
		137		179			42		
867	9.683 7475		9.741 3710		0.258 6290	9.942 3765		133	
868	9.683 7613	138	9.741 3889	179	0.258 6111	9.942 3724	41	132	
869	9.683 7750	137	9.741 4068	179	0.258 5932	9.942 3682	42	131	
		138		180			42		
.870	9.683 7888		9.741 4248		0.258 5752	9.942 3640		**.130**	
		137		179			42		
871	9.683 8025		9.741 4427		0.258 5573	9.942 3598		129	
872	9.683 8163	138	9.741 4606	179	0.258 5394	9.942 3556	42	128	
873	9.683 8300	137	9.741 4786	180	0.258 5214	9.942 3515	41	127	
		138		179			42		
874	9.683 8438		9.741 4965		0.258 5035	9.942 3473		126	
875	9.683 8575	137	9.741 5144	179	0.258 4856	9.942 3431	42	125	
876	9.683 8713	138	9.741 5323	179	0.258 4677	9.942 3389	42	124	
		137		180			42		
877	9.683 8850		9.741 5503		0.258 4497	9.942 3347		123	
878	9.683 8987	137	9.741 5682	179	0.258 4318	9.942 3306	41	122	
879	9.683 9125	138	9.741 5861	179	0.258 4139	9.942 3264	42	121	
		137		179			42		
.880	9.683 9262		9.741 6040		0.258 3960	9.942 3222		**.120**	
		138		180			42		
881	9.683 9400		9.741 6220		0.258 3780	9.942 3180		119	
882	9.683 9537	137	9.741 6399	179	0.258 3601	9.942 3138	42	118	
883	9.683 9675	138	9.741 6578	179	0.258 3422	9.942 3097	41	117	
		137		179			42		
884	9.683 9812		9.741 6757		0.258 3243	9.942 3055		116	
885	9.683 9949	137	9.741 6936	179	0.258 3064	9.942 3013	42	115	
886	9.684 0087	138	9.741 7116	180	0.258 2884	9.942 2971	42	114	
		137		179			42		
887	9.684 0224		9.741 7295		0.258 2705	9.942 2929		113	
888	9.684 0362	138	9.741 7474	179	0.258 2526	9.942 2888	41	112	
889	9.684 0499	137	9.741 7653	179	0.258 2347	9.942 2846	42	111	
		137		179			42		
.890	9.684 0636		9.741 7832		0.258 2168	9.942 2804		**.110**	
		138		180			42		
891	9.684 0774		9.741 8012		0.258 1988	9.942 2762		109	
892	9.684 0911	137	9.741 8191	179	0.258 1809	9.942 2720	42	108	
893	9.684 1048	137	9.741 8370	179	0.258 1630	9.942 2678	42	107	
		138		179			41		
894	9.684 1186		9.741 8549		0.258 1451	9.942 2637		106	
895	9.684 1323	137	9.741 8728	179	0.258 1272	9.942 2595	42	105	
896	9.684 1460	137	9.741 8907	179	0.258 1093	9.942 2553	42	104	
		138		180			42		
897	9.684 1598		9.741 9087		0.258 0913	9.942 2511		103	
898	9.684 1735	137	9.741 9266	179	0.258 0734	9.942 2469	42	102	
899	9.684 1872	137	9.741 9445	179	0.258 0555	9.942 2427	42	101	
		138		179			41		
.900	9.684 2010		9.741 9624		0.258 0376	9.942 2386		**.100**	
	cos	d	cotg	d	tang	sin	d	**61°**	P.P.

	180	179
1	18.0	17.9
2	36.0	35.8
3	54.0	53.7
4	72.0	71.6
5	90.0	89.5
6	108.0	107.4
7	126.0	125.3
8	144.0	143.2
9	162.0	161.1

	138
1	13.8
2	27.6
3	41.4
4	55.2
5	69.0
6	82.8
7	96.6
8	110.4
9	124.2

	137
1	13.7
2	27.4
3	41.1
4	54.8
5	68.5
6	82.2
7	95.9
8	109.6
9	123.3

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

61°.150 — 61°.100

28°.900 — 28°.950

28°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.684 2010		9.741 9624		0.258 0376	9.942 2386		.100	
		137		179			42		
901	9.684 2147		9.741 9803		0.258 0197	9.942 2344		099	
902	9.684 2284	137	9.741 9982	179	0.258 0018	9.942 2302	42	098	
903	9.684 2422	138	9.742 0162	180	0.257 9838	9.942 2260	42	097	
		137		179			42		
904	9.684 2559		9.742 0341		0.257 9659	9.942 2218		096	
905	9.684 2696	137	9.742 0520	179	0.257 9480	9.942 2176	42	095	
906	9.684 2833	137	9.742 0699	179	0.257 9301	9.942 2134	42	094	
		138		179			41		
907	9.684 2971		9.742 0878		0.257 9122	9.942 2093		093	
908	9.684 3108	137	9.742 1057	179	0.257 8943	9.942 2051	42	092	
909	9.684 3245	137	9.742 1236	179	0.257 8764	9.942 2009	42	091	
		137		179			42		
.910	9.684 3382		9.742 1415		0.257 8585	9.942 1967		.090	
		138		180			42		
911	9.684 3520		9.742 1595		0.257 8405	9.942 1925		089	
912	9.684 3657	137	9.742 1774	179	0.257 8226	9.942 1883	42	088	
913	9.684 3794	137	9.742 1953	179	0.257 8047	9.942 1841	42	087	
		137		179			41		
914	9.684 3931		9.742 2132		0.257 7868	9.942 1800		086	
915	9.684 4069	138	9.742 2311	179	0.257 7689	9.942 1758	42	085	
916	9.684 4206	137	9.742 2490	179	0.257 7510	9.942 1716	42	084	
		137		179			42		
917	9.684 4343		9.742 2669		0.257 7331	9.942 1674		083	
918	9.684 4480	137	9.742 2848	179	0.257 7152	9.942 1632	42	082	
919	9.684 4617	137	9.742 3027	179	0.257 6973	9.942 1590	42	081	
		138		179			42		
.920	9.684 4755		9.742 3206		0.257 6794	9.942 1548		.080	
		137		179			42		
921	9.684 4892		9.742 3385		0.257 6615	9.942 1506		079	
922	9.684 5029	137	9.742 3565	180	0.257 6435	9.942 1465	41	078	
923	9.684 5166	137	9.742 3744	179	0.257 6256	9.942 1423	42	077	
		137		179			42		
924	9.684 5303		9.742 3923		0.257 6077	9.942 1381		076	
925	9.684 5441	138	9.742 4102	179	0.257 5898	9.942 1339	42	075	
926	9.684 5578	137	9.742 4281	179	0.257 5719	9.942 1297	42	074	
		137		179			42		
927	9.684 5715		9.742 4460		0.257 5540	9.942 1255		073	
928	9.684 5852	137	9.742 4639	179	0.257 5361	9.942 1213	42	072	
929	9.684 5989	137	9.742 4818	179	0.257 5182	9.942 1171	42	071	
		137		179			42		
.930	9.684 6126		9.742 4997		0.257 5003	9.942 1129		.070	
		138		179			41		
931	9.684 6264		9.742 5176		0.257 4824	9.942 1088		069	
932	9.684 6401	137	9.742 5355	179	0.257 4645	9.942 1046	42	068	
933	9.684 6538	137	9.742 5534	179	0.257 4466	9.942 1004	42	067	
		137		179			42		
934	9.684 6675		9.742 5713		0.257 4287	9.942 0962		066	
935	9.684 6812	137	9.742 5892	179	0.257 4108	9.942 0920	42	065	
936	9.684 6949	137	9.742 6071	179	0.257 3929	9.942 0878	42	064	
		137		179			42		
937	9.684 7086		9.742 6250		0.257 3750	9.942 0836		063	
938	9.684 7223	137	9.742 6429	179	0.257 3571	9.942 0794	42	062	
939	9.684 7360	137	9.742 6608	179	0.257 3392	9.942 0752	42	061	
		137		179			42		
.940	9.684 7497		9.742 6787		0.257 3213	9.942 0710		.060	
		138		179			41		
941	9.684 7635		9.742 6966		0.257 3034	9.942 0669		059	
942	9.684 7772	137	9.742 7145	179	0.257 2855	9.942 0627	42	058	
943	9.684 7909	137	9.742 7324	179	0.257 2676	9.942 0585	42	057	
		137		179			42		
944	9.684 8046		9.742 7503		0.257 2497	9.942 0543		056	
945	9.684 8183	137	9.742 7682	179	0.257 2318	9.942 0501	42	055	
946	9.684 8320	137	9.742 7861	179	0.257 2139	9.942 0459	42	054	
		137		179			42		
947	9.684 8457		9.742 8040		0.257 1960	9.942 0417		053	
948	9.684 8594	137	9.742 8219	179	0.257 1781	9.942 0375	42	052	
949	9.684 8731	137	9.742 8398	179	0.257 1602	9.942 0333	42	051	
		137		179			42		
.950	9.684 8868		9.742 8577		0.257 1423	9.942 0291		.050	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	180	179
1	18.0	17.9
2	36.0	35.8
3	54.0	53.7
4	72.0	71.6
5	90.0	89.5
6	108.0	107.4
7	126.0	125.3
8	144.0	143.2
9	162.0	161.1

	138
1	13.8
2	27.6
3	41.4
4	55.2
5	69.0
6	82.8
7	96.6
8	110.4
9	124.2

	137
1	13.7
2	27.4
3	41.1
4	54.8
5	68.5
6	82.2
7	95.9
8	109.6
9	123.3

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

61°.100 — 61°.050

28°.950 — 29°.000

28°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.684 8868		9.742 8577		0.257 1423	9.942 0291		.050	
		137		179			42		
951	9.684 9005		9.742 8756		0.257 1244	9.942 0249		049	
952	9.684 9142	137	9.742 8935	179	0.257 1065	9.942 0207	42	048	
953	9.684 9279	137	9.742 9114	179	0.257 0886	9.942 0165	42	047	
		137		179			42		
954	9.684 9416		9.742 9293		0.257 0707	9.942 0123		046	
955	9.684 9553	137	9.742 9472	179	0.257 0528	9.942 0082	41	045	
956	9.684 9690	137	9.742 9650	178	0.257 0350	9.942 0040	42	044	
		137		179			42		
957	9.684 9827		9.742 9829		0.257 0171	9.941 9998		043	
958	9.684 9964	137	9.743 0008	179	0.256 9992	9.941 9956	42	042	
959	9.685 0101	137	9.743 0187	179	0.256 9813	9.941 9914	42	041	
		137		179			42		
.960	9.685 0238		9.743 0366		0.256 9634	9.941 9872		.040	
		137		179			42		
961	9.685 0375		9.743 0545		0.256 9455	9.941 9830		039	
962	9.685 0512	137	9.743 0724	179	0.256 9276	9.941 9788	42	038	
963	9.685 0649	137	9.743 0903	179	0.256 9097	9.941 9746	42	037	
		137		179			42		
964	9.685 0786		9.743 1082		0.256 8918	9.941 9704		036	
965	9.685 0923	137	9.743 1261	179	0.256 8739	9.941 9662	42	035	
966	9.685 1060	137	9.743 1440	179	0.256 8560	9.941 9620	42	034	
		137		178			42		
967	9.685 1197		9.743 1618		0.256 8382	9.941 9578		033	
968	9.685 1334	137	9.743 1797	179	0.256 8203	9.941 9536	42	032	
969	9.685 1471	137	9.743 1976	179	0.256 8024	9.941 9494	42	031	
		136		179			42		
.970	9.685 1607		9.743 2155		0.256 7845	9.941 9452		.030	
		137		179			42		
971	9.685 1744		9.743 2334		0.256 7666	9.941 9410		029	
972	9.685 1881	137	9.743 2513	179	0.256 7487	9.941 9368	42	028	
973	9.685 2018	137	9.743 2692	179	0.256 7308	9.941 9326	42	027	
		137		179			42		
974	9.685 2155		9.743 2871		0.256 7129	9.941 9284		026	
975	9.685 2292	137	9.743 3049	178	0.256 6951	9.941 9242	42	025	
976	9.685 2429	137	9.743 3228	179	0.256 6772	9.941 9200	42	024	
		137		179			42		
977	9.685 2566		9.743 3407		0.256 6593	9.941 9158		023	
978	9.685 2703	137	9.743 3586	179	0.256 6414	9.941 9117	41	022	
979	9.685 2839	136	9.743 3765	179	0.256 6235	9.941 9075	42	021	
		137		179			42		
.980	9.685 2976		9.743 3944		0.256 6056	9.941 9033		.020	
		137		179			42		
981	9.685 3113		9.743 4123		0.256 5877	9.941 8991		019	
982	9.685 3250	137	9.743 4301	178	0.256 5699	9.941 8949	42	018	
983	9.685 3387	137	9.743 4480	179	0.256 5520	9.941 8907	42	017	
		137		179			42		
984	9.685 3524		9.743 4659		0.256 5341	9.941 8865		016	
985	9.685 3660	136	9.743 4838	179	0.256 5162	9.941 8823	42	015	
986	9.685 3797	137	9.743 5017	179	0.256 4983	9.941 8781	42	014	
		137		178			42		
987	9.685 3934		9.743 5195		0.256 4805	9.941 8739		013	
988	9.685 4071	137	9.743 5374	179	0.256 4626	9.941 8697	42	012	
989	9.685 4208	137	9.743 5553	179	0.256 4447	9.941 8655	42	011	
		137		179			42		
.990	9.685 4345		9.743 5732		0.256 4268	9.941 8613		.010	
		136		179			42		
991	9.685 4481		9.743 5911		0.256 4089	9.941 8571		009	
992	9.685 4618	137	9.743 6089	178	0.256 3911	9.941 8529	42	008	
993	9.685 4755	137	9.743 6268	179	0.256 3732	9.941 8487	42	007	
		137		179			42		
994	9.685 4892		9.743 6447		0.256 3553	9.941 8445		006	
995	9.685 5028	136	9.743 6626	179	0.256 3374	9.941 8403	42	005	
996	9.685 5165	137	9.743 6805	179	0.256 3195	9.941 8361	42	004	
		137		178			42		
997	9.685 5302		9.743 6983		0.256 3017	9.941 8319		003	
998	9.685 5439	137	9.743 7162	179	0.256 2838	9.941 8277	42	002	
999	9.685 5576	137	9.743 7341	179	0.256 2659	9.941 8235	42	001	
		136		179			42		
*.000	9.685 5712		9.743 7520		0.256 2480	9.941 8193		.000	
	cos	d	cotg	d	tang	sin	d	61°	P.P.

	179	178
1	17.9	17.8
2	35.8	35.6
3	53.7	53.4
4	71.6	71.2
5	89.5	89.0
6	107.4	106.8
7	125.3	124.6
8	143.2	142.4
9	161.1	160.2

	137
1	13.7
2	27.4
3	41.1
4	54.8
5	68.5
6	82.2
7	95.9
8	109.6
9	123.3

	136
1	13.6
2	27.2
3	40.8
4	54.4
5	68.0
6	81.6
7	95.2
8	108.8
9	122.4

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

	41
1	4.1
2	8.2
3	12.3
4	16.4
5	20.5
6	24.6
7	28.7
8	32.8
9	36.9

61°.050 — 61°.000

29°.000 — 29°.050

29°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.685 5712		9.743 7520		0.256 2480	9.941 8193		*000	
		137		178			42		
001	9.685 5849		9.743 7698		0.256 2302	9.941 8151		999	
002	9.685 5986	137	9.743 7877	179	0.256 2123	9.941 8109	42	998	
003	9.685 6122	136	9.743 8056	179	0.256 1944	9.941 8067	42	997	
		137		179			42		
004	9.685 6259		9.743 8235		0.256 1765	9.941 8025		996	
005	9.685 6396	137	9.743 8413	178	0.256 1587	9.941 7982	43	995	
006	9.685 6533	137	9.743 8592	179	0.256 1408	9.941 7940	42	994	
		136		179			42		
007	9.685 6669		9.743 8771		0.256 1229	9.941 7898		993	
008	9.685 6806	137	9.743 8950	179	0.256 1050	9.941 7856	42	992	
009	9.685 6943	137	9.743 9128	178	0.256 0872	9.941 7814	42	991	
		136		179			42		
.010	9.685 7079		9.743 9307		0.256 0693	9.941 7772		.990	
		137		179			42		
011	9.685 7216		9.743 9486		0.256 0514	9.941 7730		989	
012	9.685 7353	137	9.743 9665	179	0.256 0335	9.941 7688	42	988	
013	9.685 7489	136	9.743 9843	178	0.256 0157	9.941 7646	42	987	
		137		179			42		
014	9.685 7626		9.744 0022		0.255 9978	9.941 7604		986	
015	9.685 7763	137	9.744 0201	179	0.255 9799	9.941 7562	42	985	
016	9.685 7899	136	9.744 0379	178	0.255 9621	9.941 7520	42	984	
		137		179			42		
017	9.685 8036		9.744 0558		0.255 9442	9.941 7478		983	
018	9.685 8173	137	9.744 0737	179	0.255 9263	9.941 7436	42	982	
019	9.685 8309	136	9.744 0915	178	0.255 9085	9.941 7394	42	981	
		137		179			42		
.020	9.685 8446		9.744 1094		0.255 8906	9.941 7352		.980	
		137		179			42		
021	9.685 8583		9.744 1273		0.255 8727	9.941 7310		979	
022	9.685 8719	136	9.744 1451	178	0.255 8549	9.941 7268	42	978	
023	9.685 8856	137	9.744 1630	179	0.255 8370	9.941 7226	42	977	
		137		179			42		
024	9.685 8993		9.744 1809		0.255 8191	9.941 7184		976	
025	9.685 9129	136	9.744 1987	178	0.255 8013	9.941 7142	42	975	
026	9.685 9266	137	9.744 2166	179	0.255 7834	9.941 7100	42	974	
		136		179			42		
027	9.685 9402		9.744 2345		0.255 7655	9.941 7058		973	
028	9.685 9539	137	9.744 2523	178	0.255 7477	9.941 7015	43	972	
029	9.685 9676	137	9.744 2702	179	0.255 7298	9.941 6973	42	971	
		136		179			42		
.030	9.685 9812		9.744 2881		0.255 7119	9.941 6931		.970	
		137		178			42		
031	9.685 9949		9.744 3059		0.255 6941	9.941 6889		969	
032	9.686 0085	136	9.744 3238	179	0.255 6762	9.941 6847	42	968	
033	9.686 0222	137	9.744 3417	179	0.255 6583	9.941 6805	42	967	
		136		178			42		
034	9.686 0358		9.744 3595		0.255 6405	9.941 6763		966	
035	9.686 0495	137	9.744 3774	179	0.255 6226	9.941 6721	42	965	
036	9.686 0631	136	9.744 3953	179	0.255 6047	9.941 6679	42	964	
		137		178			42		
037	9.686 0768		9.744 4131		0.255 5869	9.941 6637		963	
038	9.686 0905	137	9.744 4310	179	0.255 5690	9.941 6595	42	962	
039	9.686 1041	136	9.744 4488	178	0.255 5512	9.941 6553	42	961	
		137		179			42		
.040	9.686 1178		9.744 4667		0.255 5333	9.941 6511		.960	
		136		179			43		
041	9.686 1314		9.744 4846		0.255 5154	9.941 6468		959	
042	9.686 1451	137	9.744 5024	178	0.255 4976	9.941 6426	42	958	
043	9.686 1587	136	9.744 5203	179	0.255 4797	9.941 6384	42	957	
		137		178			42		
044	9.686 1724		9.744 5381		0.255 4619	9.941 6342		956	
045	9.686 1860	136	9.744 5560	179	0.255 4440	9.941 6300	42	955	
046	9.686 1997	137	9.744 5739	179	0.255 4261	9.941 6258	42	954	
		136		178			42		
047	9.686 2133		9.744 5917		0.255 4083	9.941 6216		953	
048	9.686 2270	137	9.744 6096	179	0.255 3904	9.941 6174	42	952	
049	9.686 2406	136	9.744 6274	178	0.255 3726	9.941 6132	42	951	
		136		179			42		
.050	9.686 2542		9.744 6453		0.255 3547	9.941 6090		.950	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

61°.000 — 60°.950

	179	178
1	17.9	17.8
2	35.8	35.6
3	53.7	53.4
4	71.6	71.2
5	89.5	89.0
6	107.4	106.8
7	125.3	124.6
8	143.2	142.4
9	161.1	160.2

	137
1	13.7
2	27.4
3	41.1
4	54.8
5	68.5
6	82.2
7	95.9
8	109.6
9	123.3

	136
1	13.6
2	27.2
3	40.8
4	54.4
5	68.0
6	81.6
7	95.2
8	108.8
9	122.4

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

29°.050 — 29°.100

29°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.686 2542		9.744 6453		0.255 3547	9.941 6090		.950	
		137		178			42		
051	9.686 2679		9.744 6631		0.255 3369	9.941 6048		949	
052	9.686 2815	136	9.744 6810	179	0.255 3190	9.941 6005	43	948	
053	9.686 2952	137	9.744 6989	179	0.255 3011	9.941 5963	42	947	
		136		178			42		
054	9.686 3088		9.744 7167		0.255 2833	9.941 5921		946	
055	9.686 3225	137	9.744 7346	179	0.255 2654	9.941 5879	42	945	
056	9.686 3361	136	9.744 7524	178	0.255 2476	9.941 5837	42	944	
		137		179			42		
057	9.686 3498		9.744 7703		0.255 2297	9.941 5795		943	
058	9.686 3634	136	9.744 7881	178	0.255 2119	9.941 5753	42	942	
059	9.686 3770	136	9.744 8060	179	0.255 1940	9.941 5711	42	941	
		137		178			42		
.060	9.686 3907		9.744 8238		0.255 1762	9.941 5669		.940	
		136		179			43		
061	9.686 4043		9.744 8417		0.255 1583	9.941 5626		939	
062	9.686 4180	137	9.744 8595	178	0.255 1405	9.941 5584	42	938	
063	9.686 4316	136	9.744 8774	179	0.255 1226	9.941 5542	42	937	
		136		178			42		
064	9.686 4452		9.744 8952		0.255 1048	9.941 5500		936	
065	9.686 4589	137	9.744 9131	179	0.255 0869	9.941 5458	42	935	
066	9.686 4725	136	9.744 9309	178	0.255 0691	9.941 5416	42	934	
		137		179			42		
067	9.686 4862		9.744 9488		0.255 0512	9.941 5374		933	
068	9.686 4998	136	9.744 9666	178	0.255 0334	9.941 5332	42	932	
069	9.686 5134	136	9.744 9845	179	0.255 0155	9.941 5289	43	931	
		137		178			42		
.070	9.686 5271		9.745 0023		0.254 9977	9.941 5247		.930	
		136		179			42		
071	9.686 5407		9.745 0202		0.254 9798	9.941 5205		929	
072	9.686 5543	136	9.745 0380	178	0.254 9620	9.941 5163	42	928	
073	9.686 5680	137	9.745 0559	179	0.254 9441	9.941 5121	42	927	
		136		178			42		
074	9.686 5816		9.745 0737		0.254 9263	9.941 5079		926	
075	9.686 5952	136	9.745 0916	179	0.254 9084	9.941 5037	42	925	
076	9.686 6089	137	9.745 1094	178	0.254 8906	9.941 4994	43	924	
		136		179			42		
077	9.686 6225		9.745 1273		0.254 8727	9.941 4952		923	
078	9.686 6361	136	9.745 1451	178	0.254 8549	9.941 4910	42	922	
079	9.686 6498	137	9.745 1630	179	0.254 8370	9.941 4868	42	921	
		136		178			42		
.080	9.686 6634		9.745 1808		0.254 8192	9.941 4826		.920	
		136		179			42		
081	9.686 6770		9.745 1987		0.254 8013	9.941 4784		919	
082	9.686 6906	136	9.745 2165	178	0.254 7835	9.941 4741	43	918	
083	9.686 7043	137	9.745 2343	178	0.254 7657	9.941 4699	42	917	
		136		179			42		
084	9.686 7179		9.745 2522		0.254 7478	9.941 4657		916	
085	9.686 7315	136	9.745 2700	178	0.254 7300	9.941 4615	42	915	
086	9.686 7452	137	9.745 2879	179	0.254 7121	9.941 4573	42	914	
		136		178			42		
087	9.686 7588		9.745 3057		0.254 6943	9.941 4531		913	
088	9.686 7724	136	9.745 3236	179	0.254 6764	9.941 4488	43	912	
089	9.686 7860	136	9.745 3414	178	0.254 6586	9.941 4446	42	911	
		137		178			42		
.090	9.686 7997		9.745 3592		0.254 6408	9.941 4404		.910	
		136		179			42		
091	9.686 8133		9.745 3771		0.254 6229	9.941 4362		909	
092	9.686 8269	136	9.745 3949	178	0.254 6051	9.941 4320	42	908	
093	9.686 8405	136	9.745 4128	179	0.254 5872	9.941 4278	42	907	
		136		178			43		
094	9.686 8541		9.745 4306		0.254 5694	9.941 4235		906	
095	9.686 8678	137	9.745 4484	178	0.254 5516	9.941 4193	42	905	
096	9.686 8814	136	9.745 4663	179	0.254 5337	9.941 4151	42	904	
		136		178			42		
097	9.686 8950		9.745 4841		0.254 5159	9.941 4109		903	
098	9.686 9086	136	9.745 5020	179	0.254 4980	9.941 4067	42	902	
099	9.686 9222	136	9.745 5198	178	0.254 4802	9.941 4025	42	901	
		137		178			43		
.100	9.686 9359		9.745 5376		0.254 4624	9.941 3982		.900	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	179	178
1	17.9	17.8
2	35.8	35.6
3	53.7	53.4
4	71.6	71.2
5	89.5	89.0
6	107.4	106.8
7	125.3	124.6
8	143.2	142.4
9	161.1	160.2

	137
1	13.7
2	27.4
3	41.1
4	54.8
5	68.5
6	82.2
7	95.9
8	109.6
9	123.3

	136
1	13.6
2	27.2
3	40.8
4	54.4
5	68.0
6	81.6
7	95.2
8	108.8
9	122.4

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.950 — 60°.900

29°.100 — 29°.150

29°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.686 9359		9.745 5376		0.254 4624	9.941 3982		.900	
		136		179			42		
101	9.686 9495		9.745 5555		0.254 4445	9.941 3940		899	
102	9.686 9631	136	9.745 5733	178	0.254 4267	9.941 3898	42	898	
103	9.686 9767	136	9.745 5911	178	0.254 4089	9.941 3856	42	897	
		136		179			42		
104	9.686 9903		9.745 6090		0.254 3910	9.941 3814		896	
105	9.687 0039	136	9.745 6268	178	0.254 3732	9.941 3771	43	895	
106	9.687 0176	137	9.745 6446	178	0.254 3554	9.941 3729	42	894	
		136		179			42		
107	9.687 0312		9.745 6625		0.254 3375	9.941 3687		893	
108	9.687 0448	136	9.745 6803	178	0.254 3197	9.941 3645	42	892	
109	9.687 0584	136	9.745 6982	179	0.254 3018	9.941 3603	42	891	
		136		178			43		
.110	9.687 0720		9.745 7160		0.254 2840	9.941 3560		.890	
		136		178			42		
111	9.687 0856		9.745 7338		0.254 2662	9.941 3518		889	
112	9.687 0992	136	9.745 7516	178	0.254 2484	9.941 3476	42	888	
113	9.687 1129	137	9.745 7695	179	0.254 2305	9.941 3434	42	887	
		136		178			42		
114	9.687 1265		9.745 7873		0.254 2127	9.941 3392		886	
115	9.687 1401	136	9.745 8051	178	0.254 1949	9.941 3349	43	885	
116	9.687 1537	136	9.745 8230	179	0.254 1770	9.941 3307	42	884	
		136		178			42		
117	9.687 1673		9.745 8408		0.254 1592	9.941 3265		883	
118	9.687 1809	136	9.745 8586	178	0.254 1414	9.941 3223	42	882	
119	9.687 1945	136	9.745 8765	179	0.254 1235	9.941 3180	43	881	
		136		178			42		
.120	9.687 2081		9.745 8943		0.254 1057	9.941 3138		.880	
		136		178			42		
121	9.687 2217		9.745 9121		0.254 0879	9.941 3096		879	
122	9.687 2353	136	9.745 9300	179	0.254 0700	9.941 3054	42	878	
123	9.687 2489	136	9.745 9478	178	0.254 0522	9.941 3012	42	877	
		136		178			43		
124	9.687 2625		9.745 9656		0.254 0344	9.941 2969		876	
125	9.687 2761	136	9.745 9834	178	0.254 0166	9.941 2927	42	875	
126	9.687 2898	137	9.746 0013	179	0.253 9987	9.941 2885	42	874	
		136		178			42		
127	9.687 3034		9.746 0191		0.253 9809	9.941 2843		873	
128	9.687 3170	136	9.746 0369	178	0.253 9631	9.941 2800	43	872	
129	9.687 3306	136	9.746 0547	178	0.253 9453	9.941 2758	42	871	
		136		179			42		
.130	9.687 3442		9.746 0726		0.253 9274	9.941 2716		.870	
		136		178			42		
131	9.687 3578		9.746 0904		0.253 9096	9.941 2674		869	
132	9.687 3714	136	9.746 1082	178	0.253 8918	9.941 2631	43	868	
133	9.687 3850	136	9.746 1260	178	0.253 8740	9.941 2589	42	867	
		136		179			42		
134	9.687 3986		9.746 1439		0.253 8561	9.941 2547		866	
135	9.687 4122	136	9.746 1617	178	0.253 8383	9.941 2505	42	865	
136	9.687 4258	136	9.746 1795	178	0.253 8205	9.941 2462	43	864	
		136		178			42		
137	9.687 4394		9.746 1973		0.253 8027	9.941 2420		863	
138	9.687 4530	136	9.746 2152	179	0.253 7848	9.941 2378	42	862	
139	9.687 4666	136	9.746 2330	178	0.253 7670	9.941 2336	42	861	
		136		178			43		
.140	9.687 4802		9.746 2508		0.253 7492	9.941 2293		.860	
		135		178			42		
141	9.687 4937		9.746 2686		0.253 7314	9.941 2251		859	
142	9.687 5073	136	9.746 2865	179	0.253 7135	9.941 2209	42	858	
143	9.687 5209	136	9.746 3043	178	0.253 6957	9.941 2167	42	857	
		136		178			43		
144	9.687 5345		9.746 3221		0.253 6779	9.941 2124		856	
145	9.687 5481	136	9.746 3399	178	0.253 6601	9.941 2082	42	855	
146	9.687 5617	136	9.746 3577	178	0.253 6423	9.941 2040	42	854	
		136		179			42		
147	9.687 5753		9.746 3756		0.253 6244	9.941 1998		853	
148	9.687 5889	136	9.746 3934	178	0.253 6066	9.941 1955	43	852	
149	9.687 6025	136	9.746 4112	178	0.253 5888	9.941 1913	42	851	
		136		178			42		
.150	9.687 6161		9.746 4290		0.253 5710	9.941 1871		.850	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	179	178
1	17.9	17.8
2	35.8	35.6
3	53.7	53.4
4	71.6	71.2
5	89.5	89.0
6	107.4	106.8
7	125.3	124.6
8	143.2	142.4
9	161.1	160.2

	137	136
1	13.7	13.6
2	27.4	27.2
3	41.1	40.8
4	54.8	54.4
5	68.5	68.0
6	82.2	81.6
7	95.9	95.2
8	109.6	108.8
9	123.3	122.4

	135
1	13.5
2	27.0
3	40.5
4	54.0
5	67.5
6	81.0
7	94.5
8	108.0
9	121.5

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.900 — 60°.850

29°.150 — 29°.200

29°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.687 6161		9.746 4290		0.253 5710	9.941 1871		.850	
		136		178			43		
151	9.687 6297		9.746 4468		0.253 5532	9.941 1828		849	
152	9.687 6433	136	9.746 4646	178	0.253 5354	9.941 1786	42	848	
153	9.687 6569	136	9.746 4825	179	0.253 5175	9.941 1744	42	847	
		135		178			42		
154	9.687 6704		9.746 5003		0.253 4997	9.941 1702		846	
155	9.687 6840	136	9.746 5181	178	0.253 4819	9.941 1659	43	845	
156	9.687 6976	136	9.746 5359	178	0.253 4641	9.941 1617	42	844	
		136		178			42		
157	9.687 7112		9.746 5537		0.253 4463	9.941 1575		843	
158	9.687 7248	136	9.746 5715	178	0.253 4285	9.941 1532	43	842	
159	9.687 7384	136	9.746 5894	179	0.253 4106	9.941 1490	42	841	
		136		178			42		
.160	9.687 7520		9.746 6072		0.253 3928	9.941 1448		.840	
		135		178			42		
161	9.687 7655		9.746 6250		0.253 3750	9.941 1406		839	
162	9.687 7791	136	9.746 6428	178	0.253 3572	9.941 1363	43	838	
163	9.687 7927	136	9.746 6606	178	0.253 3394	9.941 1321	42	837	
		136		178			42		
164	9.687 8063		9.746 6784		0.253 3216	9.941 1279		836	
165	9.687 8199	136	9.746 6962	178	0.253 3038	9.941 1236	43	835	
166	9.687 8335	136	9.746 7140	178	0.253 2860	9.941 1194	42	834	
		135		179			42		
167	9.687 8470		9.746 7319		0.253 2681	9.941 1152		833	
168	9.687 8606	136	9.746 7497	178	0.253 2503	9.941 1109	43	832	
169	9.687 8742	136	9.746 7675	178	0.253 2325	9.941 1067	42	831	
		136		178			42		
.170	9.687 8878		9.746 7853		0.253 2147	9.941 1025		.830	
		136		178			42		
171	9.687 9014		9.746 8031		0.253 1969	9.941 0983		829	
172	9.687 9149	135	9.746 8209	178	0.253 1791	9.941 0940	43	828	
173	9.687 9285	136	9.746 8387	178	0.253 1613	9.941 0898	42	827	
		136		178			42		
174	9.687 9421		9.746 8565		0.253 1435	9.941 0856		826	
175	9.687 9557	136	9.746 8743	178	0.253 1257	9.941 0813	43	825	
176	9.687 9692	135	9.746 8921	178	0.253 1079	9.941 0771	42	824	
		136		179			42		
177	9.687 9828		9.746 9100		0.253 0900	9.941 0729		823	
178	9.687 9964	136	9.746 9278	178	0.253 0722	9.941 0686	43	822	
179	9.688 0100	136	9.746 9456	178	0.253 0544	9.941 0644	42	821	
		135		178			42		
.180	9.688 0235		9.746 9634		0.253 0366	9.941 0602		.820	
		136		178			43		
181	9.688 0371		9.746 9812		0.253 0188	9.941 0559		819	
182	9.688 0507	136	9.746 9990	178	0.253 0010	9.941 0517	42	818	
183	9.688 0643	136	9.747 0168	178	0.252 9832	9.941 0475	42	817	
		135		178			43		
184	9.688 0778		9.747 0346		0.252 9654	9.941 0432		816	
185	9.688 0914	136	9.747 0524	178	0.252 9476	9.941 0390	42	815	
186	9.688 1050	136	9.747 0702	178	0.252 9298	9.941 0348	42	814	
		135		178			43		
187	9.688 1185		9.747 0880		0.252 9120	9.941 0305		813	
188	9.688 1321	136	9.747 1058	178	0.252 8942	9.941 0263	42	812	
189	9.688 1457	136	9.747 1236	178	0.252 8764	9.941 0221	42	811	
		136		178			43		
.190	9.688 1593		9.747 1414		0.252 8586	9.941 0178		.810	
		135		178			42		
191	9.688 1728		9.747 1592		0.252 8408	9.941 0136		809	
192	9.688 1864	136	9.747 1770	178	0.252 8230	9.941 0094	42	808	
193	9.688 2000	136	9.747 1948	178	0.252 8052	9.941 0051	43	807	
		135		178			42		
194	9.688 2135		9.747 2126		0.252 7874	9.941 0009		806	
195	9.688 2271	136	9.747 2304	178	0.252 7696	9.940 9967	42	805	
196	9.688 2407	136	9.747 2482	178	0.252 7518	9.940 9924	43	804	
		135		178			42		
197	9.688 2542		9.747 2660		0.252 7340	9.940 9882		803	
198	9.688 2678	136	9.747 2838	178	0.252 7162	9.940 9839	43	802	
199	9.688 2813	135	9.747 3016	178	0.252 6984	9.940 9797	42	801	
		136		178			42		
.200	9.688 2949		9.747 3194		0.252 6806	9.940 9755		.800	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	179	178
1	17.9	17.8
2	35.8	35.6
3	53.7	53.4
4	71.6	71.2
5	89.5	89.0
6	107.4	106.8
7	125.3	124.6
8	143.2	142.4
9	161.1	160.2

	136
1	13.6
2	27.2
3	40.8
4	54.4
5	68.0
6	81.6
7	95.2
8	108.8
9	122.4

	135
1	13.5
2	27.0
3	40.5
4	54.0
5	67.5
6	81.0
7	94.5
8	108.0
9	121.5

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.850 — 60°.800

29°.200 — 29°.250

29°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.688 2949		9.747 3194		0.252 6806	9.940 9755		**.800**	
		136		178			43		
201	9.688 3085		9.747 3372		0.252 6628	9.940 9712		799	
202	9.688 3220	135	9.747 3550	178	0.252 6450	9.940 9670	42	798	
203	9.688 3356	136	9.747 3728	178	0.252 6272	9.940 9628	42	797	
		136		178			43		
204	9.688 3492		9.747 3906		0.252 6094	9.940 9585		796	
205	9.688 3627	135	9.747 4084	178	0.252 5916	9.940 9543	42	795	
206	9.688 3763	136	9.747 4262	178	0.252 5738	9.940 9501	42	794	
		135		178			43		
207	9.688 3898		9.747 4440		0.252 5560	9.940 9458		793	
208	9.688 4034	136	9.747 4618	178	0.252 5382	9.940 9416	42	792	
209	9.688 4169	135	9.747 4796	178	0.252 5204	9.940 9373	43	791	
		136		178			42		
.210	9.688 4305		9.747 4974		0.252 5026	9.940 9331		**.790**	
		136		178			42		
211	9.688 4441		9.747 5152		0.252 4848	9.940 9289		789	
212	9.688 4576	135	9.747 5330	178	0.252 4670	9.940 9246	43	788	
213	9.688 4712	136	9.747 5508	178	0.252 4492	9.940 9204	42	787	
		135		178			42		
214	9.688 4847		9.747 5686		0.252 4314	9.940 9162		786	
215	9.688 4983	136	9.747 5864	178	0.252 4136	9.940 9119	43	785	
216	9.688 5118	135	9.747 6042	178	0.252 3958	9.940 9077	42	784	
		136		178			43		
217	9.688 5254		9.747 6220		0.252 3780	9.940 9034		783	
218	9.688 5389	135	9.747 6397	177	0.252 3603	9.940 8992	42	782	
219	9.688 5525	136	9.747 6575	178	0.252 3425	9.940 8950	42	781	
		135		178			43		
.220	9.688 5660		9.747 6753		0.252 3247	9.940 8907		**.780**	
		136		178			42		
221	9.688 5796		9.747 6931		0.252 3069	9.940 8865		779	
222	9.688 5932	136	9.747 7109	178	0.252 2891	9.940 8822	43	778	
223	9.688 6067	135	9.747 7287	178	0.252 2713	9.940 8780	42	777	
		135		178			42		
224	9.688 6202		9.747 7465		0.252 2535	9.940 8738		776	
225	9.688 6338	136	9.747 7643	178	0.252 2357	9.940 8695	43	775	
226	9.688 6473	135	9.747 7821	178	0.252 2179	9.940 8653	42	774	
		136		178			43		
227	9.688 6609		9.747 7999		0.252 2001	9.940 8610		773	
228	9.688 6744	135	9.747 8176	177	0.252 1824	9.940 8568	42	772	
229	9.688 6880	136	9.747 8354	178	0.252 1646	9.940 8526	42	771	
		135		178			43		
.230	9.688 7015		9.747 8532		0.252 1468	9.940 8483		**.770**	
		136		178			42		
231	9.688 7151		9.747 8710		0.252 1290	9.940 8441		769	
232	9.688 7286	135	9.747 8888	178	0.252 1112	9.940 8398	43	768	
233	9.688 7422	136	9.747 9066	178	0.252 0934	9.940 8356	42	767	
		135		178			43		
234	9.688 7557		9.747 9244		0.252 0756	9.940 8313		766	
235	9.688 7693	136	9.747 9422	178	0.252 0578	9.940 8271	42	765	
236	9.688 7828	135	9.747 9599	177	0.252 0401	9.940 8229	42	764	
		135		178			43		
237	9.688 7963		9.747 9777		0.252 0223	9.940 8186		763	
238	9.688 8099	136	9.747 9955	178	0.252 0045	9.940 8144	42	762	
239	9.688 8234	135	9.748 0133	178	0.251 9867	9.940 8101	43	761	
		136		178			42		
.240	9.688 8370		9.748 0311		0.251 9689	9.940 8059		**.760**	
		135		178			43		
241	9.688 8505		9.748 0489		0.251 9511	9.940 8016		759	
242	9.688 8640	135	9.748 0666	177	0.251 9334	9.940 7974	42	758	
243	9.688 8776	136	9.748 0844	178	0.251 9156	9.940 7932	42	757	
		135		178			43		
244	9.688 8911		9.748 1022		0.251 8978	9.940 7889		756	
245	9.688 9047	136	9.748 1200	178	0.251 8800	9.940 7847	42	755	
246	9.688 9182	135	9.748 1378	178	0.251 8622	9.940 7804	43	754	
		135		178			42		
247	9.688 9317		9.748 1556		0.251 8444	9.940 7762		753	
248	9.688 9453	136	9.748 1733	177	0.251 8267	9.940 7719	43	752	
249	9.688 9588	135	9.748 1911	178	0.251 8089	9.940 7677	42	751	
		135		178			43		
.250	9.688 9723		9.748 2089		0.251 7911	9.940 7634		**.750**	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	178	177
1	17.8	17.7
2	35.6	35.4
3	53.4	53.1
4	71.2	70.8
5	89.0	88.5
6	106.8	106.2
7	124.6	123.9
8	142.4	141.6
9	160.2	159.3

	136
1	13.6
2	27.2
3	40.8
4	54.4
5	68.0
6	81.6
7	95.2
8	108.8
9	122.4

	135
1	13.5
2	27.0
3	40.5
4	54.0
5	67.5
6	81.0
7	94.5
8	108.0
9	121.5

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.800 — 60°.750

29°.250 — 29°.300

29°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.688 9723		9.748 2089		0.251 7911	9.940 7634		**.750**	
		136		178			42		
251	9.688 9859		9.748 2267		0.251 7733	9.940 7592		749	
252	9.688 9994	135	9.748 2445	178	0.251 7555	9.940 7550	42	748	
253	9.689 0129	135	9.748 2622	177	0.251 7378	9.940 7507	43	747	
		136		178			42		
254	9.689 0265		9.748 2800		0.251 7200	9.940 7465		746	
255	9.689 0400	135	9.748 2978	178	0.251 7022	9.940 7422	43	745	
256	9.689 0535	135	9.748 3156	178	0.251 6844	9.940 7380	42	744	
		136		177			43		
257	9.689 0671		9.748 3333		0.251 6667	9.940 7337		743	
258	9.689 0806	135	9.748 3511	178	0.251 6489	9.940 7295	42	742	
259	9.689 0941	135	9.748 3689	178	0.251 6311	9.940 7252	43	741	
		136		178			42		
.260	9.689 1077		9.748 3867		0.251 6133	9.940 7210		**.740**	
		135		177			43		
261	9.689 1212		9.748 4044		0.251 5956	9.940 7167		739	
262	9.689 1347	135	9.748 4222	178	0.251 5778	9.940 7125	42	738	
263	9.689 1482	135	9.748 4400	178	0.251 5600	9.940 7082	43	737	
		136		178			42		
264	9.689 1618		9.748 4578		0.251 5422	9.940 7040		736	
265	9.689 1753	135	9.748 4755	177	0.251 5245	9.940 6998	42	735	
266	9.689 1888	135	9.748 4933	178	0.251 5067	9.940 6955	43	734	
		136		178			42		
267	9.689 2024		9.748 5111		0.251 4889	9.940 6913		733	
268	9.689 2159	135	9.748 5289	178	0.251 4711	9.940 6870	43	732	
269	9.689 2294	135	9.748 5466	177	0.251 4534	9.940 6828	42	731	
		135		178			43		
.270	9.689 2429		9.748 5644		0.251 4356	9.940 6785		**.730**	
		136		178			42		
271	9.689 2565		9.748 5822		0.251 4178	9.940 6743		729	
272	9.689 2700	135	9.748 6000	178	0.251 4000	9.940 6700	43	728	
273	9.689 2835	135	9.748 6177	177	0.251 3823	9.940 6658	42	727	
		135		178			43		
274	9.689 2970		9.748 6355		0.251 3645	9.940 6615		726	
275	9.689 3105	135	9.748 6533	178	0.251 3467	9.940 6573	42	725	
276	9.689 3241	136	9.748 6710	177	0.251 3290	9.940 6530	43	724	
		135		178			42		
277	9.689 3376		9.748 6888		0.251 3112	9.940 6488		723	
278	9.689 3511	135	9.748 7066	178	0.251 2934	9.940 6445	43	722	
279	9.689 3646	135	9.748 7243	177	0.251 2757	9.940 6403	42	721	
		135		178			43		
.280	9.689 3781		9.748 7421		0.251 2579	9.940 6360		**.720**	
		136		178			42		
281	9.689 3917		9.748 7599		0.251 2401	9.940 6318		719	
282	9.689 4052	135	9.748 7777	178	0.251 2223	9.940 6275	43	718	
283	9.689 4187	135	9.748 7954	177	0.251 2046	9.940 6233	42	717	
		135		178			43		
284	9.689 4322		9.748 8132		0.251 1868	9.940 6190		716	
285	9.689 4457	135	9.748 8310	178	0.251 1690	9.940 6148	42	715	
286	9.689 4592	135	9.748 8487	177	0.251 1513	9.940 6105	43	714	
		136		178			42		
287	9.689 4728		9.748 8665		0.251 1335	9.940 6063		713	
288	9.689 4863	135	9.748 8843	178	0.251 1157	9.940 6020	43	712	
289	9.689 4998	135	9.748 9020	177	0.251 0980	9.940 5978	42	711	
		135		178			43		
.290	9.689 5133		9.748 9198		0.251 0802	9.940 5935		**.710**	
		135		177			42		
291	9.689 5268		9.748 9375		0.251 0625	9.940 5893		709	
292	9.689 5403	135	9.748 9553	178	0.251 0447	9.940 5850	43	708	
293	9.689 5538	135	9.748 9731	178	0.251 0269	9.940 5808	42	707	
		135		177			43		
294	9.689 5673		9.748 9908		0.251 0092	9.940 5765		706	
295	9.689 5808	135	9.749 0086	178	0.250 9914	9.940 5723	42	705	
296	9.689 5944	136	9.749 0264	178	0.250 9736	9.940 5680	43	704	
		135		177			43		
297	9.689 6079		9.749 0441		0.250 9559	9.940 5637		703	
298	9.689 6214	135	9.749 0619	178	0.250 9381	9.940 5595	42	702	
299	9.689 6349	135	9.749 0796	177	0.250 9204	9.940 5552	43	701	
		135		178			42		
.300	9.689 6484		9.749 0974		0.250 9026	9.940 5510		**.700**	
	cos	d	cotg	d	tang	sin	d	**60°**	P.P.

	178	177
1	17.8	17.7
2	35.6	35.4
3	53.4	53.1
4	71.2	70.8
5	89.0	88.5
6	106.8	106.2
7	124.6	123.9
8	142.4	141.6
9	160.2	159.3

	136
1	13.6
2	27.2
3	40.8
4	54.4
5	68.0
6	81.6
7	95.2
8	108.8
9	122.4

	135
1	13.5
2	27.0
3	40.5
4	54.0
5	67.5
6	81.0
7	94.5
8	108.0
9	121.5

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.750 — 60°.700

29°.300 — 29°.350

29°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.689 6484		9.749 0974		0.250 9026	9.940 5510		**.700**	
		135		178			43		
301	9.689 6619		9.749 1152		0.250 8848	9.940 5467		699	
302	9.689 6754	135	9.749 1329	177	0.250 8671	9.940 5425	42	698	
303	9.689 6889	135	9.749 1507	178	0.250 8493	9.940 5382	43	697	
		135		177			42		
304	9.689 7024		9.749 1684		0.250 8316	9.940 5340		696	
305	9.689 7159	135	9.749 1862	178	0.250 8138	9.940 5297	43	695	
306	9.689 7294	135	9.749 2040	178	0.250 7960	9.940 5255	42	694	
		135		177			43		
307	9.689 7429		9.749 2217		0.250 7783	9.940 5212		693	
308	9.689 7564	135	9.749 2395	178	0.250 7605	9.940 5169	43	692	
309	9.689 7699	135	9.749 2572	177	0.250 7428	9.940 5127	42	691	
		135		178			43		
.310	9.689 7834		9.749 2750		0.250 7250	9.940 5084		**.690**	
		135		178			42		
311	9.689 7969		9.749 2928		0.250 7072	9.940 5042		689	
312	9.689 8104	135	9.749 3105	177	0.250 6895	9.940 4999	43	688	
313	9.689 8239	135	9.749 3283	178	0.250 6717	9.940 4957	42	687	
		135		177			43		
314	9.689 8374		9.749 3460		0.250 6540	9.940 4914		686	
315	9.689 8509	135	9.749 3638	178	0.250 6362	9.940 4872	42	685	
316	9.689 8644	135	9.749 3815	177	0.250 6185	9.940 4829	43	684	
		135		178			43		
317	9.689 8779		9.749 3993		0.250 6007	9.940 4786		683	
318	9.689 8914	135	9.749 4170	177	0.250 5830	9.940 4744	42	682	
319	9.689 9049	135	9.749 4348	178	0.250 5652	9.940 4701	43	681	
		135		177			42		
.320	9.689 9184		9.749 4525		0.250 5475	9.940 4659		**.680**	
		135		178			43		
321	9.689 9319		9.749 4703		0.250 5297	9.940 4616		679	
322	9.689 9454	135	9.749 4881	178	0.250 5119	9.940 4574	42	678	
323	9.689 9589	135	9.749 5058	177	0.250 4942	9.940 4531	43	677	
		135		178			43		
324	9.689 9724		9.749 5236		0.250 4764	9.940 4488		676	
325	9.689 9859	135	9.749 5413	177	0.250 4587	9.940 4446	42	675	
326	9.689 9994	135	9.749 5591	178	0.250 4409	9.940 4403	43	674	
		135		177			42		
327	9.690 0129		9.749 5768		0.250 4232	9.940 4361		673	
328	9.690 0264	135	9.749 5946	178	0.250 4054	9.940 4318	43	672	
329	9.690 0399	135	9.749 6123	177	0.250 3877	9.940 4276	42	671	
		135		178			43		
.330	9.690 0534		9.749 6301		0.250 3699	9.940 4233		**.670**	
		134		177			43		
331	9.690 0668		9.749 6478		0.250 3522	9.940 4190		669	
332	9.690 0803	135	9.749 6656	178	0.250 3344	9.940 4148	42	668	
333	9.690 0938	135	9.749 6833	177	0.250 3167	9.940 4105	43	667	
		135		178			42		
334	9.690 1073		9.749 7011		0.250 2989	9.940 4063		666	
335	9.690 1208	135	9.749 7188	177	0.250 2812	9.940 4020	43	665	
336	9.690 1343	135	9.749 7366	178	0.250 2634	9.940 3977	43	664	
		135		177			42		
337	9.690 1478		9.749 7543		0.250 2457	9.940 3935		663	
338	9.690 1613	135	9.749 7720	177	0.250 2280	9.940 3892	43	662	
339	9.690 1748	135	9.749 7898	178	0.250 2102	9.940 3850	42	661	
		134		177			43		
.340	9.690 1882		9.749 8075		0.250 1925	9.940 3807		**.660**	
		135		178			43		
341	9.690 2017		9.749 8253		0.250 1747	9.940 3764		659	
342	9.690 2152	135	9.749 8430	177	0.250 1570	9.940 3722	42	658	
343	9.690 2287	135	9.749 8608	178	0.250 1392	9.940 3679	43	657	
		135		177			42		
344	9.690 2422		9.749 8785		0.250 1215	9.940 3637		656	
345	9.690 2557	135	9.749 8963	178	0.250 1037	9.940 3594	43	655	
346	9.690 2691	134	9.749 9140	177	0.250 0860	9.940 3551	43	654	
		135		177			42		
347	9.690 2826		9.749 9317		0.250 0683	9.940 3509		653	
348	9.690 2961	135	9.749 9495	178	0.250 0505	9.940 3466	43	652	
349	9.690 3096	135	9.749 9672	177	0.250 0328	9.940 3423	43	651	
		135		178			42		
.350	9.690 3231		9.749 9850		0.250 0150	9.940 3381		**.650**	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	178	177
1	17.8	17.7
2	35.6	35.4
3	53.4	53.1
4	71.2	70.8
5	89.0	88.5
6	106.8	106.2
7	124.6	123.9
8	142.4	141.6
9	160.2	159.3

	135
1	13.5
2	27.0
3	40.5
4	54.0
5	67.5
6	81.0
7	94.5
8	108.0
9	121.5

	134
1	13.4
2	26.8
3	40.2
4	53.6
5	67.0
6	80.4
7	93.8
8	107.2
9	120.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.700 — 60°.650

29°.350 — 29°.400

29°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.690 3231		9.749 9850		0.250 0150	9.940 3381		.650	
		134		177			43		
351	9.690 3365		9.750 0027		0.249 9973	9.940 3338		649	
352	9.690 3500	135	9.750 0205	178	0.249 9795	9.940 3296	42	648	
353	9.690 3635	135	9.750 0382	177	0.249 9618	9.940 3253	43	647	
		135		177			43		
354	9.690 3770		9.750 0559		0.249 9441	9.940 3210		646	
355	9.690 3905	135	9.750 0737	178	0.249 9263	9.940 3168	42	645	
356	9.690 4039	134	9.750 0914	177	0.249 9086	9.940 3125	43	644	
		135		178			43		
357	9.690 4174		9.750 1092		0.249 8908	9.940 3082		643	
358	9.690 4309	135	9.750 1269	177	0.249 8731	9.940 3040	42	642	
359	9.690 4444	135	9.750 1446	177	0.249 8554	9.940 2997	43	641	
		134		178			42		
.360	9.690 4578		9.750 1624		0.249 8376	9.940 2955		.640	
		135		177			43		
361	9.690 4713		9.750 1801		0.249 8199	9.940 2912		639	
362	9.690 4848	135	9.750 1979	178	0.249 8021	9.940 2869	43	638	
363	9.690 4982	134	9.750 2156	177	0.249 7844	9.940 2827	42	637	
		135		177			43		
364	9.690 5117		9.750 2333		0.249 7667	9.940 2784		636	
365	9.690 5252	135	9.750 2511	178	0.249 7489	9.940 2741	43	635	
366	9.690 5387	135	9.750 2688	177	0.249 7312	9.940 2699	42	634	
		134		177			43		
367	9.690 5521		9.750 2865		0.249 7135	9.940 2656		633	
368	9.690 5656	135	9.750 3043	178	0.249 6957	9.940 2613	43	632	
369	9.690 5791	135	9.750 3220	177	0.249 6780	9.940 2571	42	631	
		134		177			43		
.370	9.690 5925		9.750 3397		0.249 6603	9.940 2528		.630	
		135		178			43		
371	9.690 6060		9.750 3575		0.249 6425	9.940 2485		629	
372	9.690 6195	135	9.750 3752	177	0.249 6248	9.940 2443	42	628	
373	9.690 6329	134	9.750 3929	177	0.249 6071	9.940 2400	43	627	
		135		178			43		
374	9.690 6464		9.750 4107		0.249 5893	9.940 2357		626	
375	9.690 6599	135	9.750 4284	177	0.249 5716	9.940 2315	42	625	
376	9.690 6733	134	9.750 4461	177	0.249 5539	9.940 2272	43	624	
		135		178			43		
377	9.690 6868		9.750 4639		0.249 5361	9.940 2229		623	
378	9.690 7003	135	9.750 4816	177	0.249 5184	9.940 2187	42	622	
379	9.690 7137	134	9.750 4993	177	0.249 5007	9.940 2144	43	621	
		135		178			43		
.380	9.690 7272		9.750 5171		0.249 4829	9.940 2101		.620	
		135		177			42		
381	9.690 7407		9.750 5348		0.249 4652	9.940 2059		619	
382	9.690 7541	134	9.750 5525	177	0.249 4475	9.940 2016	43	618	
383	9.690 7676	135	9.750 5703	178	0.249 4297	9.940 1973	43	617	
		134		177			42		
384	9.690 7810		9.750 5880		0.249 4120	9.940 1931		616	
385	9.690 7945	135	9.750 6057	177	0.249 3943	9.940 1888	43	615	
386	9.690 8080	135	9.750 6234	177	0.249 3766	9.940 1845	43	614	
		134		178			42		
387	9.690 8214		9.750 6412		0.249 3588	9.940 1803		613	
388	9.690 8349	135	9.750 6589	177	0.249 3411	9.940 1760	43	612	
389	9.690 8483	134	9.750 6766	177	0.249 3234	9.940 1717	43	611	
		135		178			42		
.390	9.690 8618		9.750 6944		0.249 3056	9.940 1675		.610	
		135		177			43		
391	9.690 8753		9.750 7121		0.249 2879	9.940 1632		609	
392	9.690 8887	134	9.750 7298	177	0.249 2702	9.940 1589	43	608	
393	9.690 9022	135	9.750 7475	177	0.249 2525	9.940 1546	43	607	
		134		178			42		
394	9.690 9156		9.750 7653		0.249 2347	9.940 1504		606	
395	9.690 9291	135	9.750 7830	177	0.249 2170	9.940 1461	43	605	
396	9.690 9425	134	9.750 8007	177	0.249 1993	9.940 1418	43	604	
		135		177			42		
397	9.690 9560		9.750 8184		0.249 1816	9.940 1376		603	
398	9.690 9694	134	9.750 8362	178	0.249 1638	9.940 1333	43	602	
399	9.690 9829	135	9.750 8539	177	0.249 1461	9.940 1290	43	601	
		135		177			42		
.400	9.690 9964		9.750 8716		0.249 1284	9.940 1248		.600	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	178	177
1	17.8	17.7
2	35.6	35.4
3	53.4	53.1
4	71.2	70.8
5	89.0	88.5
6	106.8	106.2
7	124.6	123.9
8	142.4	141.6
9	160.2	159.3

	135
1	13.5
2	27.0
3	40.5
4	54.0
5	67.5
6	81.0
7	94.5
8	108.0
9	121.5

	134
1	13.4
2	26.8
3	40.2
4	53.6
5	67.0
6	80.4
7	93.8
8	107.2
9	120.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.650 — 60°.600

29°.400 — 29°.450

29°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.690 9964		9.750 8716		0.249 1284	9.940 1248		.600	
		134		177			43		
401	9.691 0098		9.750 8893		0.249 1107	9.940 1205		599	
402	9.691 0233	135	9.750 9070	177	0.249 0930	9.940 1162	43	598	
403	9.691 0367	134	9.750 9248	178	0.249 0752	9.940 1119	43	597	
		135		177			42		
404	9.691 0502		9.750 9425		0.249 0575	9.940 1077		596	
405	9.691 0636	134	9.750 9602	177	0.249 0398	9.940 1034	43	595	
406	9.691 0771	135	9.750 9779	177	0.249 0221	9.940 0991	43	594	
		134		178			42		
407	9.691 0905		9.750 9957		0.249 0043	9.940 0949		593	
408	9.691 1040	135	9.751 0134	177	0.248 9866	9.940 0906	43	592	
409	9.691 1174	134	9.751 0311	177	0.248 9689	9.940 0863	43	591	
		134		177			43		
.410	9.691 1308		9.751 0488		0.248 9512	9.940 0820		.590	
		135		177			42		
411	9.691 1443		9.751 0665		0.248 9335	9.940 0778		589	
412	9.691 1577	134	9.751 0843	178	0.248 9157	9.940 0735	43	588	
413	9.691 1712	135	9.751 1020	177	0.248 8980	9.940 0692	43	587	
		134		177			43		
414	9.691 1846		9.751 1197		0.248 8803	9.940 0649		586	
415	9.691 1981	135	9.751 1374	177	0.248 8626	9.940 0607	42	585	
416	9.691 2115	134	9.751 1551	177	0.248 8449	9.940 0564	43	584	
		135		177			43		
417	9.691 2250		9.751 1728		0.248 8272	9.940 0521		583	
418	9.691 2384	134	9.751 1906	178	0.248 8094	9.940 0478	43	582	
419	9.691 2518	134	9.751 2083	177	0.248 7917	9.940 0436	42	581	
		135		177			43		
.420	9.691 2653		9.751 2260		0.248 7740	9.940 0393		.580	
		134		177			43		
421	9.691 2787		9.751 2437		0.248 7563	9.940 0350		579	
422	9.691 2922	135	9.751 2614	177	0.248 7386	9.940 0307	43	578	
423	9.691 3056	134	9.751 2791	177	0.248 7209	9.940 0265	42	577	
		134		177			43		
424	9.691 3190		9.751 2968		0.248 7032	9.940 0222		576	
425	9.691 3325	135	9.751 3146	178	0.248 6854	9.940 0179	43	575	
426	9.691 3459	134	9.751 3323	177	0.248 6677	9.940 0136	43	574	
		135		177			42		
427	9.691 3594		9.751 3500		0.248 6500	9.940 0094		573	
428	9.691 3728	134	9.751 3677	177	0.248 6323	9.940 0051	43	572	
429	9.691 3862	134	9.751 3854	177	0.248 6146	9.940 0008	43	571	
		135		177			43		
.430	9.691 3997		9.751 4031		0.248 5969	9.939 9965		.570	
		134		177			42		
431	9.691 4131		9.751 4208		0.248 5792	9.939 9923		569	
432	9.691 4265	134	9.751 4386	178	0.248 5614	9.939 9880	43	568	
433	9.691 4400	135	9.751 4563	177	0.248 5437	9.939 9837	43	567	
		134		177			43		
434	9.691 4534		9.751 4740		0.248 5260	9.939 9794		566	
435	9.691 4668	134	9.751 4917	177	0.248 5083	9.939 9752	42	565	
436	9.691 4803	135	9.751 5094	177	0.248 4906	9.939 9709	43	564	
		134		177			43		
437	9.691 4937		9.751 5271		0.248 4729	9.939 9666		563	
438	9.691 5071	134	9.751 5448	177	0.248 4552	9.939 9623	43	562	
439	9.691 5206	135	9.751 5625	177	0.248 4375	9.939 9580	43	561	
		134		177			42		
.440	9.691 5340		9.751 5802		0.248 4198	9.939 9538		.560	
		134		177			43		
441	9.691 5474		9.751 5979		0.248 4021	9.939 9495		559	
442	9.691 5609	135	9.751 6156	177	0.248 3844	9.939 9452	43	558	
443	9.691 5743	134	9.751 6334	178	0.248 3666	9.939 9409	43	557	
		134		177			42		
444	9.691 5877		9.751 6511		0.248 3489	9.939 9367		556	
445	9.691 6011	134	9.751 6688	177	0.248 3312	9.939 9324	43	555	
446	9.691 6146	135	9.751 6865	177	0.248 3135	9.939 9281	43	554	
		134		177			43		
447	9.691 6280		9.751 7042		0.248 2958	9.939 9238		553	
448	9.691 6414	134	9.751 7219	177	0.248 2781	9.939 9195	43	552	
449	9.691 6548	134	9.751 7396	177	0.248 2604	9.939 9153	42	551	
		135		177			43		
.450	9.691 6683		9.751 7573		0.248 2427	9.939 9110		.550	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	178	177
1	17.8	17.7
2	35.6	35.4
3	53.4	53.1
4	71.2	70.8
5	89.0	88.5
6	106.8	106.2
7	124.6	123.9
8	142.4	141.6
9	160.2	159.3

	135
1	13.5
2	27.0
3	40.5
4	54.0
5	67.5
6	81.0
7	94.5
8	108.0
9	121.5

	134
1	13.4
2	26.8
3	40.2
4	53.6
5	67.0
6	80.4
7	93.8
8	107.2
9	120.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.600 — 60°.550

$29^\circ.450 - 29^\circ.500$

29°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.691 6683		9.751 7573		0.248 2427	9.939 9110		.550	
		134		177			43		
451	9.691 6817		9.751 7750		0.248 2250	9.939 9067		549	
452	9.691 6951	134	9.751 7927	177	0.248 2073	9.939 9024	43	548	
453	9.691 7085	134	9.751 8104	177	0.248 1896	9.939 8981	43	547	
		135		177			42		
454	9.691 7220		9.751 8281		0.248 1719	9.939 8939		546	
455	9.691 7354	134	9.751 8458	177	0.248 1542	9.939 8896	43	545	
456	9.691 7488	134	9.751 8635	177	0.248 1365	9.939 8853	43	544	
		134		177			43		
457	9.691 7622		9.751 8812		0.248 1188	9.939 8810		543	
458	9.691 7757	135	9.751 8989	177	0.248 1011	9.939 8767	43	542	
459	9.691 7891	134	9.751 9166	177	0.248 0834	9.939 8725	42	541	
		134		177			43		
.460	9.691 8025		9.751 9343		0.248 0657	9.939 8682		.540	
		134		177			43		
461	9.691 8159		9.751 9520		0.248 0480	9.939 8639		539	
462	9.691 8293	134	9.751 9697	177	0.248 0303	9.939 8596	43	538	
463	9.691 8427	134	9.751 9874	177	0.248 0126	9.939 8553	43	537	
		135		177			43		
464	9.691 8562		9.752 0051		0.247 9949	9.939 8510		536	
465	9.691 8696	134	9.752 0228	177	0.247 9772	9.939 8468	42	535	
466	9.691 8830	134	9.752 0405	177	0.247 9595	9.939 8425	43	534	
		134		177			43		
467	9.691 8964		9.752 0582		0.247 9418	9.939 8382		533	
468	9.691 9098	134	9.752 0759	177	0.247 9241	9.939 8339	43	532	
469	9.691 9232	134	9.752 0936	177	0.247 9064	9.939 8296	43	531	
		135		177			42		
.470	9.691 9367		9.752 1113		0.247 8887	9.939 8254		.530	
		134		177			43		
471	9.691 9501		9.752 1290		0.247 8710	9.939 8211		529	
472	9.691 9635	134	9.752 1467	177	0.247 8533	9.939 8168	43	528	
473	9.691 9769	134	9.752 1644	177	0.247 8356	9.939 8125	43	527	
		134		177			43		
474	9.691 9903		9.752 1821		0.247 8179	9.939 8082		526	
475	9.692 0037	134	9.752 1998	177	0.247 8002	9.939 8039	43	525	
476	9.692 0171	134	9.752 2175	177	0.247 7825	9.939 7996	43	524	
		134		177			42		
477	9.692 0305		9.752 2352		0.247 7648	9.939 7954		523	
478	9.692 0439	134	9.752 2529	177	0.247 7471	9.939 7911	43	522	
479	9.692 0574	135	9.752 2706	177	0.247 7294	9.939 7868	43	521	
		134		177			43		
.480	9.692 0708		9.752 2883		0.247 7117	9.939 7825		.520	
		134		176			43		
481	9.692 0842		9.752 3059		0.247 6941	9.939 7782		519	
482	9.692 0976	134	9.752 3236	177	0.247 6764	9.939 7739	43	518	
483	9.692 1110	134	9.752 3413	177	0.247 6587	9.939 7697	42	517	
		134		177			43		
484	9.692 1244		9.752 3590		0.247 6410	9.939 7654		516	
485	9.692 1378	134	9.752 3767	177	0.247 6233	9.939 7611	43	515	
486	9.692 1512	134	9.752 3944	177	0.247 6056	9.939 7568	43	514	
		134		177			43		
487	9.692 1646		9.752 4121		0.247 5879	9.939 7525		513	
488	9.692 1780	134	9.752 4298	177	0.247 5702	9.939 7482	43	512	
489	9.692 1914	134	9.752 4475	177	0.247 5525	9.939 7439	43	511	
		134		177			42		
.490	9.692 2048		9.752 4652		0.247 5348	9.939 7397		.510	
		134		177			43		
491	9.692 2182		9.752 4829		0.247 5171	9.939 7354		509	
492	9.692 2316	134	9.752 5005	176	0.247 4995	9.939 7311	43	508	
493	9.692 2450	134	9.752 5182	177	0.247 4818	9.939 7268	43	507	
		134		177			43		
494	9.692 2584		9.752 5359		0.247 4641	9.939 7225		506	
495	9.692 2718	134	9.752 5536	177	0.247 4464	9.939 7182	43	505	
496	9.692 2852	134	9.752 5713	177	0.247 4287	9.939 7139	43	504	
		134		177			43		
497	9.692 2986		9.752 5890		0.247 4110	9.939 7096		503	
498	9.692 3120	134	9.752 6067	177	0.247 3933	9.939 7054	42	502	
499	9.692 3254	134	9.752 6244	177	0.247 3756	9.939 7011	43	501	
		134		176			43		
.500	9.692 3388		9.752 6420		0.247 3580	9.939 6968		.500	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	177	176
1	17.7	17.6
2	35.4	35.2
3	53.1	52.8
4	70.8	70.4
5	88.5	88.0
6	106.2	105.6
7	123.9	123.2
8	141.6	140.8
9	159.3	158.4

	135
1	13.5
2	27.0
3	40.5
4	54.0
5	67.5
6	81.0
7	94.5
8	108.0
9	121.5

	134
1	13.4
2	26.8
3	40.2
4	53.6
5	67.0
6	80.4
7	93.8
8	107.2
9	120.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

$60^\circ.550 - 60^\circ.500$

29°.500 — 29°.550

29°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.692 3388		9.752 6420		0.247 3580	9.939 6968		.500	
		134		177			43		
501	9.692 3522		9.752 6597		0.247 3403	9.939 6925		499	
502	9.692 3656	134	9.752 6774	177	0.247 3226	9.939 6882	43	498	
503	9.692 3790	134	9.752 6951	177	0.247 3049	9.939 6839	43	497	
504	9.692 3924	134	9.752 7128	177	0.247 2872	9.939 6796	43	496	
505	9.692 4058	134	9.752 7305	177	0.247 2695	9.939 6753	43	495	
506	9.692 4192	134	9.752 7482	177	0.247 2518	9.939 6710	43	494	
507	9.692 4326	134	9.752 7658	176	0.247 2342	9.939 6668	42	493	
508	9.692 4460	134	9.752 7835	177	0.247 2165	9.939 6625	43	492	
509	9.692 4594	134	9.752 8012	177	0.247 1988	9.939 6582	43	491	
.510	9.692 4728		9.752 8189	177	0.247 1811	9.939 6539	43	.490	
		134		177			43		
511	9.692 4862		9.752 8366		0.247 1634	9.939 6496		489	
512	9.692 4996	134	9.752 8543	177	0.247 1457	9.939 6453	43	488	
513	9.692 5129	133	9.752 8719	176	0.247 1281	9.939 6410	43	487	
514	9.692 5263	134	9.752 8896	177	0.247 1104	9.939 6367	43	486	
515	9.692 5397	134	9.752 9073	177	0.247 0927	9.939 6324	43	485	
516	9.692 5531	134	9.752 9250	177	0.247 0750	9.939 6281	43	484	
517	9.692 5665	134	9.752 9427	177	0.247 0573	9.939 6238	43	483	
518	9.692 5799	134	9.752 9603	176	0.247 0397	9.939 6196	42	482	
519	9.692 5933	134	9.752 9780	177	0.247 0220	9.939 6153	43	481	
.520	9.692 6067		9.752 9957	177	0.247 0043	9.939 6110	43	.480	
		133		177			43		
521	9.692 6200		9.753 0134		0.246 9866	9.939 6067		479	
522	9.692 6334	134	9.753 0310	176	0.246 9690	9.939 6024	43	478	
523	9.692 6468	134	9.753 0487	177	0.246 9513	9.939 5981	43	477	
524	9.692 6602	134	9.753 0664	177	0.246 9336	9.939 5938	43	476	
525	9.692 6736	134	9.753 0841	177	0.246 9159	9.939 5895	43	475	
526	9.692 6870	134	9.753 1018	177	0.246 8982	9.939 5852	43	474	
527	9.692 7004	134	9.753 1194	176	0.246 8806	9.939 5809	43	473	
528	9.692 7137	133	9.753 1371	177	0.246 8629	9.939 5766	43	472	
529	9.692 7271	134	9.753 1548	177	0.246 8452	9.939 5723	43	471	
.530	9.692 7405	134	9.753 1725	177	0.246 8275	9.939 5680	43	.470	
		134		176			43		
531	9.692 7539		9.753 1901		0.246 8099	9.939 5637		469	
532	9.692 7673	134	9.753 2078	177	0.246 7922	9.939 5595	42	468	
533	9.692 7806	133	9.753 2255	177	0.246 7745	9.939 5552	43	467	
534	9.692 7940	134	9.753 2432	177	0.246 7568	9.939 5509	43	466	
535	9.692 8074	134	9.753 2608	176	0.246 7392	9.939 5466	43	465	
536	9.692 8208	134	9.753 2785	177	0.246 7215	9.939 5423	43	464	
537	9.692 8342	134	9.753 2962	177	0.246 7038	9.939 5380	43	463	
538	9.692 8475	133	9.753 3138	176	0.246 6862	9.939 5337	43	462	
539	9.692 8609	134	9.753 3315	177	0.246 6685	9.939 5294	43	461	
.540	9.692 8743	134	9.753 3492	177	0.246 6508	9.939 5251	43	.460	
		134		177			43		
541	9.692 8877		9.753 3669		0.246 6331	9.939 5208		459	
542	9.692 9010	133	9.753 3845	176	0.246 6155	9.939 5165	43	458	
543	9.692 9144	134	9.753 4022	177	0.246 5978	9.939 5122	43	457	
544	9.692 9278	134	9.753 4199	177	0.246 5801	9.939 5079	43	456	
545	9.692 9412	134	9.753 4375	176	0.246 5625	9.939 5036	43	455	
546	9.692 9545	133	9.753 4552	177	0.246 5448	9.939 4993	43	454	
547	9.692 9679	134	9.753 4729	177	0.246 5271	9.939 4950	43	453	
548	9.692 9813	134	9.753 4905	176	0.246 5095	9.939 4907	43	452	
549	9.692 9946	133	9.753 5082	177	0.246 4918	9.939 4864	43	451	
.550	9.693 0080	134	9.753 5259	177	0.246 4741	9.939 4821	43	.450	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	177	176
1	17.7	17.6
2	35.4	35.2
3	53.1	52.8
4	70.8	70.4
5	88.5	88.0
6	106.2	105.6
7	123.9	123.2
8	141.6	140.8
9	159.3	158.4

	134
1	13.4
2	26.8
3	40.2
4	53.6
5	67.0
6	80.4
7	93.8
8	107.2
9	120.6

	133
1	13.3
2	26.6
3	39.9
4	53.2
5	66.5
6	79.8
7	93.1
8	106.4
9	119.7

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.500 — 60°.450

29°.550 — 29°.600

29°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.693 0080		9.753 5259		0.246 4741	9.939 4821		.450	
		134		176			43		
551	9.693 0214		9.753 5435		0.246 4565	9.939 4778		449	
552	9.693 0348	134	9.753 5612	177	0.246 4388	9.939 4735	43	448	
553	9.693 0481	133	9.753 5789	177	0.246 4211	9.939 4692	43	447	
		134		176			43		
554	9.693 0615		9.753 5965		0.246 4035	9.939 4649		446	
555	9.693 0749	134	9.753 6142	177	0.246 3858	9.939 4606	43	445	
556	9.693 0882	133	9.753 6319	177	0.246 3681	9.939 4563	43	444	
		134		176			43		
557	9.693 1016		9.753 6495		0.246 3505	9.939 4520		443	
558	9.693 1150	134	9.753 6672	177	0.246 3328	9.939 4477	43	442	
559	9.693 1283	133	9.753 6849	177	0.246 3151	9.939 4435	42	441	
		134		176			43		
.560	9.693 1417		9.753 7025		0.246 2975	9.939 4392		.440	
		133		177			43		
561	9.693 1550		9.753 7202		0.246 2798	9.939 4349		439	
562	9.693 1684	134	9.753 7379	177	0.246 2621	9.939 4306	43	438	
563	9.693 1818	134	9.753 7555	176	0.246 2445	9.939 4263	43	437	
		133		177			43		
564	9.693 1951		9.753 7732		0.246 2268	9.939 4220		436	
565	9.693 2085	134	9.753 7908	176	0.246 2092	9.939 4177	43	435	
566	9.693 2219	134	9.753 8085	177	0.246 1915	9.939 4134	43	434	
		133		177			43		
567	9.693 2352		9.753 8262		0.246 1738	9.939 4091		433	
568	9.693 2486	134	9.753 8438	176	0.246 1562	9.939 4048	43	432	
569	9.693 2619	133	9.753 8615	177	0.246 1385	9.939 4005	43	431	
		134		177			43		
.570	9.693 2753		9.753 8792		0.246 1208	9.939 3962		.430	
		134		176			43		
571	9.693 2887		9.753 8968		0.246 1032	9.939 3919		429	
572	9.693 3020	133	9.753 9145	177	0.246 0855	9.939 3876	43	428	
573	9.693 3154	134	9.753 9321	176	0.246 0679	9.939 3833	43	427	
		133		177			44		
574	9.693 3287		9.753 9498		0.246 0502	9.939 3789		426	
575	9.693 3421	134	9.753 9674	176	0.246 0326	9.939 3746	43	425	
576	9.693 3555	134	9.753 9851	177	0.246 0149	9.939 3703	43	424	
		133		177			43		
577	9.693 3688		9.754 0028		0.245 9972	9.939 3660		423	
578	9.693 3822	134	9.754 0204	176	0.245 9796	9.939 3617	43	422	
579	9.693 3955	133	9.754 0381	177	0.245 9619	9.939 3574	43	421	
		134		176			43		
.580	9.693 4089		9.754 0557		0.245 9443	9.939 3531		.420	
		133		177			43		
581	9.693 4222		9.754 0734		0.245 9266	9.939 3488		419	
582	9.693 4356	134	9.754 0910	176	0.245 9090	9.939 3445	43	418	
583	9.693 4489	133	9.754 1087	177	0.245 8913	9.939 3402	43	417	
		134		177			43		
584	9.693 4623		9.754 1264		0.245 8736	9.939 3359		416	
585	9.693 4756	133	9.754 1440	176	0.245 8560	9.939 3316	43	415	
586	9.693 4890	134	9.754 1617	177	0.245 8383	9.939 3273	43	414	
		133		176			43		
587	9.693 5023		9.754 1793		0.245 8207	9.939 3230		413	
588	9.693 5157	134	9.754 1970	177	0.245 8030	9.939 3187	43	412	
589	9.693 5290	133	9.754 2146	176	0.245 7854	9.939 3144	43	411	
		134		177			43		
.590	9.693 5424		9.754 2323		0.245 7677	9.939 3101		.410	
		133		176			43		
591	9.693 5557		9.754 2499		0.245 7501	9.939 3058		409	
592	9.693 5691	134	9.754 2676	177	0.245 7324	9.939 3015	43	408	
593	9.693 5824	133	9.754 2852	176	0.245 7148	9.939 2972	43	407	
		134		177			43		
594	9.693 5958		9.754 3029		0.245 6971	9.939 2929		406	
595	9.693 6091	133	9.754 3205	176	0.245 6795	9.939 2886	43	405	
596	9.693 6225	134	9.754 3382	177	0.245 6618	9.939 2843	43	404	
		133		176			43		
597	9.693 6358		9.754 3558		0.245 6442	9.939 2800		403	
598	9.693 6492	134	9.754 3735	177	0.245 6265	9.939 2757	43	402	
599	9.693 6625	133	9.754 3911	176	0.245 6089	9.939 2714	43	401	
		133		177			43		
.600	9.693 6758		9.754 4088		0.245 5912	9.939 2671		.400	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	177	176
1	17.7	17.6
2	35.4	35.2
3	53.1	52.8
4	70.8	70.4
5	88.5	88.0
6	106.2	105.6
7	123.9	123.2
8	141.6	140.8
9	159.3	158.4

	134
1	13.4
2	26.8
3	40.2
4	53.6
5	67.0
6	80.4
7	93.8
8	107.2
9	120.6

	133
1	13.3
2	26.6
3	39.9
4	53.2
5	66.5
6	79.8
7	93.1
8	106.4
9	119.7

	44	43
1	4.4	4.3
2	8.8	8.6
3	13.2	12.9
4	17.6	17.2
5	22.0	21.5
6	26.4	25.8
7	30.8	30.1
8	35.2	34.4
9	39.6	38.7

	42
1	4.2
2	8.4
3	12.6
4	16.8
5	21.0
6	25.2
7	29.4
8	33.6
9	37.8

60°.450 — 60°.400

29°.600 — 29°.650

29°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.693 6758		9.754 4088		0.245 5912	9.939 2671		.400	
		134		176			44		
601	9.693 6892		9.754 4264		0.245 5736	9.939 2627		399	
602	9.693 7025	133	9.754 4441	177	0.245 5559	9.939 2584	43	398	
603	9.693 7159	134	9.754 4617	176	0.245 5383	9.939 2541	43	397	
		133		177			43		
604	9.693 7292		9.754 4794		0.245 5206	9.939 2498		396	
605	9.693 7425	133	9.754 4970	176	0.245 5030	9.939 2455	43	395	
606	9.693 7559	134	9.754 5147	177	0.245 4853	9.939 2412	43	394	
		133		176			43		
607	9.693 7692		9.754 5323		0.245 4677	9.939 2369		393	
608	9.693 7826	134	9.754 5500	177	0.245 4500	9.939 2326	43	392	
609	9.693 7959	133	9.754 5676	176	0.245 4324	9.939 2283	43	391	
		133		177			43		
.610	9.693 8092		9.754 5853		0.245 4147	9.939 2240		.390	
		134		176			43		
611	9.693 8226		9.754 6029		0.245 3971	9.939 2197		389	
612	9.693 8359	133	9.754 6205	176	0.245 3795	9.939 2154	43	388	
613	9.693 8493	134	9.754 6382	177	0.245 3618	9.939 2111	43	387	
		133		176			43		
614	9.693 8626		9.754 6558		0.245 3442	9.939 2068		386	
615	9.693 8759	133	9.754 6735	177	0.245 3265	9.939 2024	44	385	
616	9.693 8893	134	9.754 6911	176	0.245 3089	9.939 1981	43	384	
		133		177			43		
617	9.693 9026		9.754 7088		0.245 2912	9.939 1938		383	
618	9.693 9159	133	9.754 7264	176	0.245 2736	9.939 1895	43	382	
619	9.693 9293	134	9.754 7440	176	0.245 2560	9.939 1852	43	381	
		133		177			43		
.620	9.693 9426		9.754 7617		0.245 2383	9.939 1809		.380	
		133		176			43		
621	9.693 9559		9.754 7793		0.245 2207	9.939 1766		379	
622	9.693 9693	134	9.754 7970	177	0.245 2030	9.939 1723	43	378	
623	9.693 9826	133	9.754 8146	176	0.245 1854	9.939 1680	43	377	
		133		177			43		
624	9.693 9959		9.754 8323		0.245 1677	9.939 1637		376	
625	9.694 0092	133	9.754 8499	176	0.245 1501	9.939 1593	44	375	
626	9.694 0226	134	9.754 8675	176	0.245 1325	9.939 1550	43	374	
		133		177			43		
627	9.694 0359		9.754 8852		0.245 1148	9.939 1507		373	
628	9.694 0492	133	9.754 9028	176	0.245 0972	9.939 1464	43	372	
629	9.694 0626	134	9.754 9205	177	0.245 0795	9.939 1421	43	371	
		133		176			43		
.630	9.694 0759		9.754 9381		0.245 0619	9.939 1378		.370	
		133		176			43		
631	9.694 0892		9.754 9557		0.245 0443	9.939 1335		369	
632	9.694 1025	133	9.754 9734	177	0.245 0266	9.939 1292	43	368	
633	9.694 1159	134	9.754 9910	176	0.245 0090	9.939 1249	43	367	
		133		176			44		
634	9.694 1292		9.755 0086		0.244 9914	9.939 1205		366	
635	9.694 1425	133	9.755 0263	177	0.244 9737	9.939 1162	43	365	
636	9.694 1558	133	9.755 0439	176	0.244 9561	9.939 1119	43	364	
		134		176			43		
637	9.694 1692		9.755 0615		0.244 9385	9.939 1076		363	
638	9.694 1825	133	9.755 0792	177	0.244 9208	9.939 1033	43	362	
639	9.694 1958	133	9.755 0968	176	0.244 9032	9.939 0990	43	361	
		133		176			43		
.640	9.694 2091		9.755 1144		0.244 8856	9.939 0947		.360	
		133		177			43		
641	9.694 2224		9.755 1321		0.244 8679	9.939 0904		359	
642	9.694 2358	134	9.755 1497	176	0.244 8503	9.939 0860	44	358	
643	9.694 2491	133	9.755 1674	177	0.244 8326	9.939 0817	43	357	
		133		176			43		
644	9.694 2624		9.755 1850		0.244 8150	9.939 0774		356	
645	9.694 2757	133	9.755 2026	176	0.244 7974	9.939 0731	43	355	
646	9.694 2890	133	9.755 2202	176	0.244 7798	9.939 0688	43	354	
		134		177			43		
647	9.694 3024		9.755 2379		0.244 7621	9.939 0645		353	
648	9.694 3157	133	9.755 2555	176	0.244 7445	9.939 0602	43	352	
649	9.694 3290	133	9.755 2731	176	0.244 7269	9.939 0559	43	351	
		133		177			44		
.650	9.694 3423		9.755 2908		0.244 7092	9.939 0515		.350	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

60°.400 — 60°.350

	177	176
1	17.7	17.6
2	35.4	35.2
3	53.1	52.8
4	70.8	70.4
5	88.5	88.0
6	106.2	105.6
7	123.9	123.2
8	141.6	140.8
9	159.3	158.4

	134
1	13.4
2	26.8
3	40.2
4	53.6
5	67.0
6	80.4
7	93.8
8	107.2
9	120.6

	133
1	13.3
2	26.6
3	39.9
4	53.2
5	66.5
6	79.8
7	93.1
8	106.4
9	119.7

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

29°.650 — 29°.700

29°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.694 3423		9.755 2908		0.244 7092	9.939 0515		.350	
		133		176			43		
651	9.694 3556		9.755 3084		0.244 6916	9.939 0472		349	
652	9.694 3689	133	9.755 3260	176	0.244 6740	9.939 0429	43	348	
653	9.694 3823	134	9.755 3437	177	0.244 6563	9.939 0386	43	347	
		133		176			43		
654	9.694 3956		9.755 3613		0.244 6387	9.939 0343		346	
655	9.694 4089	133	9.755 3789	176	0.244 6211	9.939 0300	43	345	
656	9.694 4222	133	9.755 3966	177	0.244 6034	9.939 0256	44	344	
		133		176			43		
657	9.694 4355		9.755 4142		0.244 5858	9.939 0213		343	
658	9.694 4488	133	9.755 4318	176	0.244 5682	9.939 0170	43	342	
659	9.694 4621	133	9.755 4494	176	0.244 5506	9.939 0127	43	341	
		133		177			43		
.660	9.694 4754		9.755 4671		0.244 5329	9.939 0084		.340	
		134		176			43		
661	9.694 4888		9.755 4847		0.244 5153	9.939 0041		339	
662	9.694 5021	133	9.755 5023	176	0.244 4977	9.938 9997	44	338	
663	9.694 5154	133	9.755 5199	176	0.244 4801	9.938 9954	43	337	
		133		177			43		
664	9.694 5287		9.755 5376		0.244 4624	9.938 9911		336	
665	9.694 5420	133	9.755 5552	176	0.244 4448	9.938 9868	43	335	
666	9.694 5553	133	9.755 5728	176	0.244 4272	9.938 9825	43	334	
		133		176			43		
667	9.694 5686		9.755 5904		0.244 4096	9.938 9782		333	
668	9.694 5819	133	9.755 6081	177	0.244 3919	9.938 9738	44	332	
669	9.694 5952	133	9.755 6257	176	0.244 3743	9.938 9695	43	331	
		133		176			43		
.670	9.694 6085		9.755 6433		0.244 3567	9.938 9652		.330	
		133		176			43		
671	9.694 6218		9.755 6609		0.244 3391	9.938 9609		329	
672	9.694 6351	133	9.755 6786	177	0.244 3214	9.938 9566	43	328	
673	9.694 6484	133	9.755 6962	176	0.244 3038	9.938 9523	43	327	
		133		176			44		
674	9.694 6617		9.755 7138		0.244 2862	9.938 9479		326	
675	9.694 6750	133	9.755 7314	176	0.244 2686	9.938 9436	43	325	
676	9.694 6883	133	9.755 7490	176	0.244 2510	9.938 9393	43	324	
		133		177			43		
677	9.694 7016		9.755 7667		0.244 2333	9.938 9350		323	
678	9.694 7149	133	9.755 7843	176	0.244 2157	9.938 9307	43	322	
679	9.694 7282	133	9.755 8019	176	0.244 1981	9.938 9263	44	321	
		133		176			43		
.680	9.694 7415		9.755 8195		0.244 1805	9.938 9220		.320	
		133		176			43		
681	9.694 7548		9.755 8371		0.244 1629	9.938 9177		319	
682	9.694 7681	133	9.755 8548	177	0.244 1452	9.938 9134	43	318	
683	9.694 7814	133	9.755 8724	176	0.244 1276	9.938 9091	43	317	
		133		176			44		
684	9.694 7947		9.755 8900		0.244 1100	9.938 9047		316	
685	9.694 8080	133	9.755 9076	176	0.244 0924	9.938 9004	43	315	
686	9.694 8213	133	9.755 9252	176	0.244 0748	9.938 8961	43	314	
		133		177			43		
687	9.694 8346		9.755 9429		0.244 0571	9.938 8918		313	
688	9.694 8479	133	9.755 9605	176	0.244 0395	9.938 8875	43	312	
689	9.694 8612	133	9.755 9781	176	0.244 0219	9.938 8831	44	311	
		133		176			43		
.690	9.694 8745		9.755 9957		0.244 0043	9.938 8788		.310	
		133		176			43		
691	9.694 8878		9.756 0133		0.243 9867	9.938 8745		309	
692	9.694 9011	133	9.756 0309	176	0.243 9691	9.938 8702	43	308	
693	9.694 9144	133	9.756 0486	177	0.243 9514	9.938 8658	44	307	
		133		176			43		
694	9.694 9277		9.756 0662		0.243 9338	9.938 8615		306	
695	9.694 9410	133	9.756 0838	176	0.243 9162	9.938 8572	43	305	
696	9.694 9543	133	9.756 1014	176	0.243 8986	9.938 8529	43	304	
		133		176			43		
697	9.694 9676		9.756 1190		0.243 8810	9.938 8486		303	
698	9.694 9809	133	9.756 1366	176	0.243 8634	9.938 8442	44	302	
699	9.694 9941	132	9.756 1542	176	0.243 8458	9.938 8399	43	301	
		133		176			43		
.700	9.695 0074		9.756 1718		0.243 8282	9.938 8356		.300	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	177	176
1	17.7	17.6
2	35.4	35.2
3	53.1	52.8
4	70.8	70.4
5	88.5	88.0
6	106.2	105.6
7	123.9	123.2
8	141.6	140.8
9	159.3	158.4

	134	133
1	13.4	13.3
2	26.8	26.6
3	40.2	39.9
4	53.6	53.2
5	67.0	66.5
6	80.4	79.8
7	93.8	93.1
8	107.2	106.4
9	120.6	119.7

	132
1	13.2
2	26.4
3	39.6
4	52.8
5	66.0
6	79.2
7	92.4
8	105.6
9	118.8

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

60°.350 — 60°.300

29°.700 — 29°.750

29°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.695 0074		9.756 1718		0.243 8282	9.938 8356		**.300**	
		133		177			43		
701	9.695 0207		9.756 1895		0.243 8105	9.938 8313		299	
702	9.695 0340	133	9.756 2071	176	0.243 7929	9.938 8269	44	298	
703	9.695 0473	133	9.756 2247	176	0.243 7753	9.938 8226	43	297	
		133		176			43		
704	9.695 0606		9.756 2423		0.243 7577	9.938 8183		296	
705	9.695 0739	133	9.756 2599	176	0.243 7401	9.938 8140	43	295	
706	9.695 0872	133	9.756 2775	176	0.243 7225	9.938 8096	44	294	
		132		176			43		
707	9.695 1004		9.756 2951		0.243 7049	9.938 8053		293	
708	9.695 1137	133	9.756 3127	176	0.243 6873	9.938 8010	43	292	
709	9.695 1270	133	9.756 3303	176	0.243 6697	9.938 7967	43	291	
		133		177			44		
.710	9.695 1403		9.756 3480		0.243 6520	9.938 7923		**.290**	
		133		176			43		
711	9.695 1536		9.756 3656		0.243 6344	9.938 7880		289	
712	9.695 1669	133	9.756 3832	176	0.243 6168	9.938 7837	43	288	
713	9.695 1801	132	9.756 4008	176	0.243 5992	9.938 7794	43	287	
		133		176			44		
714	9.695 1934		9.756 4184		0.243 5816	9.938 7750		286	
715	9.695 2067	133	9.756 4360	176	0.243 5640	9.938 7707	43	285	
716	9.695 2200	133	9.756 4536	176	0.243 5464	9.938 7664	43	284	
		133		176			43		
717	9.695 2333		9.756 4712		0.243 5288	9.938 7621		283	
718	9.695 2465	132	9.756 4888	176	0.243 5112	9.938 7577	44	282	
719	9.695 2598	133	9.756 5064	176	0.243 4936	9.938 7534	43	281	
		133		176			43		
.720	9.695 2731		9.756 5240		0.243 4760	9.938 7491		**.280**	
		133		176			44		
721	9.695 2864		9.756 5416		0.243 4584	9.938 7447		279	
722	9.695 2997	133	9.756 5592	176	0.243 4408	9.938 7404	43	278	
723	9.695 3129	132	9.756 5768	176	0.243 4232	9.938 7361	43	277	
		133		176			43		
724	9.695 3262		9.756 5944		0.243 4056	9.938 7318		276	
725	9.695 3395	133	9.756 6120	176	0.243 3880	9.938 7274	44	275	
726	9.695 3528	133	9.756 6296	176	0.243 3704	9.938 7231	43	274	
		132		177			43		
727	9.695 3660		9.756 6473		0.243 3527	9.938 7188		273	
728	9.695 3793	133	9.756 6649	176	0.243 3351	9.938 7145	43	272	
729	9.695 3926	133	9.756 6825	176	0.243 3175	9.938 7101	44	271	
		133		176			43		
.730	9.695 4059		9.756 7001		0.243 2999	9.938 7058		**.270**	
		132		176			43		
731	9.695 4191		9.756 7177		0.243 2823	9.938 7015		269	
732	9.695 4324	133	9.756 7353	176	0.243 2647	9.938 6971	44	268	
733	9.695 4457	133	9.756 7529	176	0.243 2471	9.938 6928	43	267	
		132		176			43		
734	9.695 4589		9.756 7705		0.243 2295	9.938 6885		266	
735	9.695 4722	133	9.756 7881	176	0.243 2119	9.938 6842	43	265	
736	9.695 4855	133	9.756 8057	176	0.243 1943	9.938 6798	44	264	
		133		176			43		
737	9.695 4988		9.756 8233		0.243 1767	9.938 6755		263	
738	9.695 5120	132	9.756 8409	176	0.243 1591	9.938 6712	43	262	
739	9.695 5253	133	9.756 8585	176	0.243 1415	9.938 6668	44	261	
		133		176			43		
.740	9.695 5386		9.756 8761		0.243 1239	9.938 6625		**.260**	
		132		176			43		
741	9.695 5518		9.756 8937		0.243 1063	9.938 6582		259	
742	9.695 5651	133	9.756 9113	176	0.243 0887	9.938 6538	44	258	
743	9.695 5784	133	9.756 9288	175	0.243 0712	9.938 6495	43	257	
		132		176			43		
744	9.695 5916		9.756 9464		0.243 0536	9.938 6452		256	
745	9.695 6049	133	9.756 9640	176	0.243 0360	9.938 6408	44	255	
746	9.695 6182	133	9.756 9816	176	0.243 0184	9.938 6365	43	254	
		132		176			43		
747	9.695 6314		9.756 9992		0.243 0008	9.938 6322		253	
748	9.695 6447	133	9.757 0168	176	0.242 9832	9.938 6279	43	252	
749	9.695 6579	132	9.757 0344	176	0.242 9656	9.938 6235	44	251	
		133		176			43		
.750	9.695 6712		9.757 0520		0.242 9480	9.938 6192		**.250**	
	cos	d	cotg	d	tang	sin	d	**60°**	P.P.

	177	176
1	17.7	17.6
2	35.4	35.2
3	53.1	52.8
4	70.8	70.4
5	88.5	88.0
6	106.2	105.6
7	123.9	123.2
8	141.6	140.8
9	159.3	158.4

	175
1	17.5
2	35.0
3	52.5
4	70.0
5	87.5
6	105.0
7	122.5
8	140.0
9	157.5

	133	132
1	13.3	13.2
2	26.6	26.4
3	39.9	39.6
4	53.2	52.8
5	66.5	66.0
6	79.8	79.2
7	93.1	92.4
8	106.4	105.6
9	119.7	118.8

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

60°.300 — 60°.250

29°.750 — 29°.800

29°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.695 6712		9.757 0520		0.242 9480	9.938 6192		.250	
		133		176			43		
751	9.695 6845		9.757 0696		0.242 9304	9.938 6149		249	
752	9.695 6977	132	9.757 0872	176	0.242 9128	9.938 6105	44	248	
753	9.695 7110	133	9.757 1048	176	0.242 8952	9.938 6062	43	247	
		132		176			43		
754	9.695 7242		9.757 1224		0.242 8776	9.938 6019		246	
755	9.695 7375	133	9.757 1400	176	0.242 8600	9.938 5975	44	245	
756	9.695 7508	133	9.757 1576	176	0.242 8424	9.938 5932	43	244	
		132		176			43		
757	9.695 7640		9.757 1752		0.242 8248	9.938 5889		243	
758	9.695 7773	133	9.757 1928	176	0.242 8072	9.938 5845	44	242	
759	9.695 7905	132	9.757 2103	175	0.242 7897	9.938 5802	43	241	
		133		176			43		
.760	9.695 8038		9.757 2279		0.242 7721	9.938 5759		.240	
		133		176			44		
761	9.695 8171		9.757 2455		0.242 7545	9.938 5715		239	
762	9.695 8303	132	9.757 2631	176	0.242 7369	9.938 5672	43	238	
763	9.695 8436	133	9.757 2807	176	0.242 7193	9.938 5629	43	237	
		132		176			44		
764	9.695 8568		9.757 2983		0.242 7017	9.938 5585		236	
765	9.695 8701	133	9.757 3159	176	0.242 6841	9.938 5542	43	235	
766	9.695 8833	132	9.757 3335	176	0.242 6665	9.938 5498	44	234	
		133		176			43		
767	9.695 8966		9.757 3511		0.242 6489	9.938 5455		233	
768	9.695 9098	132	9.757 3687	176	0.242 6313	9.938 5412	43	232	
769	9.695 9231	133	9.757 3862	175	0.242 6138	9.938 5368	44	231	
		132		176			43		
.770	9.695 9363		9.757 4038		0.242 5962	9.938 5325		.230	
		133		176			43		
771	9.695 9496		9.757 4214		0.242 5786	9.938 5282		229	
772	9.695 9628	132	9.757 4390	176	0.242 5610	9.938 5238	44	228	
773	9.695 9761	133	9.757 4566	176	0.242 5434	9.938 5195	43	227	
		132		176			43		
774	9.695 9893		9.757 4742		0.242 5258	9.938 5152		226	
775	9.696 0026	133	9.757 4918	176	0.242 5082	9.938 5108	44	225	
776	9.696 0158	132	9.757 5093	175	0.242 4907	9.938 5065	43	224	
		133		176			43		
777	9.696 0291		9.757 5269		0.242 4731	9.938 5022		223	
778	9.696 0423	132	9.757 5445	176	0.242 4555	9.938 4978	44	222	
779	9.696 0556	133	9.757 5621	176	0.242 4379	9.938 4935	43	221	
		132		176			44		
.780	9.696 0688		9.757 5797		0.242 4203	9.938 4891		.220	
		133		176			43		
781	9.696 0821		9.757 5973		0.242 4027	9.938 4848		219	
782	9.696 0953	132	9.757 6148	175	0.242 3852	9.938 4805	43	218	
783	9.696 1086	133	9.757 6324	176	0.242 3676	9.938 4761	44	217	
		132		176			43		
784	9.696 1218		9.757 6500		0.242 3500	9.938 4718		216	
785	9.696 1350	132	9.757 6676	176	0.242 3324	9.938 4675	43	215	
786	9.696 1483	133	9.757 6852	176	0.242 3148	9.938 4631	44	214	
		132		176			43		
787	9.696 1615		9.757 7028		0.242 2972	9.938 4588		213	
788	9.696 1748	133	9.757 7203	175	0.242 2797	9.938 4544	44	212	
789	9.696 1880	132	9.757 7379	176	0.242 2621	9.938 4501	43	211	
		133		176			43		
.790	9.696 2013		9.757 7555		0.242 2445	9.938 4458		.210	
		132		176			44		
791	9.696 2145		9.757 7731		0.242 2269	9.938 4414		209	
792	9.696 2277	132	9.757 7907	176	0.242 2093	9.938 4371	43	208	
793	9.696 2410	133	9.757 8082	175	0.242 1918	9.938 4327	44	207	
		132		176			43		
794	9.696 2542		9.757 8258		0.242 1742	9.938 4284		206	
795	9.696 2675	133	9.757 8434	176	0.242 1566	9.938 4241	43	205	
796	9.696 2807	132	9.757 8610	176	0.242 1390	9.938 4197	44	204	
		132		175			43		
797	9.696 2939		9.757 8785		0.242 1215	9.938 4154		203	
798	9.696 3072	133	9.757 8961	176	0.242 1039	9.938 4110	44	202	
799	9.696 3204	132	9.757 9137	176	0.242 0863	9.938 4067	43	201	
		132		176			43		
.800	9.696 3336		9.757 9313		0.242 0687	9.938 4024		.200	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	176	175
1	17.6	17.5
2	35.2	35.0
3	52.8	52.5
4	70.4	70.0
5	88.0	87.5
6	105.6	105.0
7	123.2	122.5
8	140.8	140.0
9	158.4	157.5

	133
1	13.3
2	26.6
3	39.9
4	53.2
5	66.5
6	79.8
7	93.1
8	106.4
9	119.7

	132
1	13.2
2	26.4
3	39.6
4	52.8
5	66.0
6	79.2
7	92.4
8	105.6
9	118.8

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

60°.250 — 60°.200

29°.800 — 29°.850

29°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.696 3336		9.757 9313		0.242 0687	9.938 4024		**.200**	
		133		176			44		
801	9.696 3469		9.757 9489		0.242 0511	9.938 3980		199	
802	9.696 3601	132	9.757 9664	175	0.242 0336	9.938 3937	43	198	
803	9.696 3733	132	9.757 9840	176	0.242 0160	9.938 3893	44	197	
		133		176			43		
804	9.696 3866		9.758 0016		0.241 9984	9.938 3850		196	
805	9.696 3998	132	9.758 0192	176	0.241 9808	9.938 3806	44	195	
806	9.696 4130	132	9.758 0367	175	0.241 9633	9.938 3763	43	194	
		133		176			43		
807	9.696 4263		9.758 0543		0.241 9457	9.938 3720		193	
808	9.696 4395	132	9.758 0719	176	0.241 9281	9.938 3676	44	192	
809	9.696 4527	132	9.758 0894	175	0.241 9106	9.938 3633	43	191	
		133		176			44		
.810	9.696 4660		9.758 1070		0.241 8930	9.938 3589		**.190**	
		132		176			43		
811	9.696 4792		9.758 1246		0.241 8754	9.938 3546		189	
812	9.696 4924	132	9.758 1422	176	0.241 8578	9.938 3503	43	188	
813	9.696 5056	132	9.758 1597	175	0.241 8403	9.938 3459	44	187	
		133		176			43		
814	9.696 5189		9.758 1773		0.241 8227	9.938 3416		186	
815	9.696 5321	132	9.758 1949	176	0.241 8051	9.938 3372	44	185	
816	9.696 5453	132	9.758 2125	176	0.241 7875	9.938 3329	43	184	
		133		175			44		
817	9.696 5586		9.758 2300		0.241 7700	9.938 3285		183	
818	9.696 5718	132	9.758 2476	176	0.241 7524	9.938 3242	43	182	
819	9.696 5850	132	9.758 2652	176	0.241 7348	9.938 3198	44	181	
		132		175			43		
.820	9.696 5982		9.758 2827		0.241 7173	9.938 3155		**.180**	
		133		176			43		
821	9.696 6115		9.758 3003		0.241 6997	9.938 3112		179	
822	9.696 6247	132	9.758 3179	176	0.241 6821	9.938 3068	44	178	
823	9.696 6379	132	9.758 3354	175	0.241 6646	9.938 3025	43	177	
		132		176			44		
824	9.696 6511		9.758 3530		0.241 6470	9.938 2981		176	
825	9.696 6643	132	9.758 3706	176	0.241 6294	9.938 2938	43	175	
826	9.696 6776	133	9.758 3881	175	0.241 6119	9.938 2894	44	174	
		132		176			43		
827	9.696 6908		9.758 4057		0.241 5943	9.938 2851		173	
828	9.696 7040	132	9.758 4233	176	0.241 5767	9.938 2807	44	172	
829	9.696 7172	132	9.758 4408	175	0.241 5592	9.938 2764	43	171	
		132		176			44		
.830	9.696 7304		9.758 4584		0.241 5416	9.938 2720		**.170**	
		133		176			43		
831	9.696 7437		9.758 4760		0.241 5240	9.938 2677		169	
832	9.696 7569	132	9.758 4935	175	0.241 5065	9.938 2634	43	168	
833	9.696 7701	132	9.758 5111	176	0.241 4889	9.938 2590	44	167	
		132		176			43		
834	9.696 7833		9.758 5287		0.241 4713	9.938 2547		166	
835	9.696 7965	132	9.758 5462	175	0.241 4538	9.938 2503	44	165	
836	9.696 8098	133	9.758 5638	176	0.241 4362	9.938 2460	43	164	
		132		176			44		
837	9.696 8230		9.758 5814		0.241 4186	9.938 2416		163	
838	9.696 8362	132	9.758 5989	175	0.241 4011	9.938 2373	43	162	
839	9.696 8494	132	9.758 6165	176	0.241 3835	9.938 2329	44	161	
		132		175			43		
.840	9.696 8626		9.758 6340		0.241 3660	9.938 2286		**.160**	
		132		176			44		
841	9.696 8758		9.758 6516		0.241 3484	9.938 2242		159	
842	9.696 8890	132	9.758 6692	176	0.241 3308	9.938 2199	43	158	
843	9.696 9023	133	9.758 6867	175	0.241 3133	9.938 2155	44	157	
		132		176			43		
844	9.696 9155		9.758 7043		0.241 2957	9.938 2112		156	
845	9.696 9287	132	9.758 7218	175	0.241 2782	9.938 2068	44	155	
846	9.696 9419	132	9.758 7394	176	0.241 2606	9.938 2025	43	154	
		132		176			44		
847	9.696 9551		9.758 7570		0.241 2430	9.938 1981		153	
848	9.696 9683	132	9.758 7745	175	0.241 2255	9.938 1938	43	152	
849	9.696 9815	132	9.758 7921	176	0.241 2079	9.938 1894	44	151	
		132		175			43		
.850	9.696 9947		9.758 8096		0.241 1904	9.938 1851		**.150**	
	cos	d	cotg	d	tang	sin	d	**60°**	P.P.

	176	175
1	17.6	17.5
2	35.2	35.0
3	52.8	52.5
4	70.4	70.0
5	88.0	87.5
6	105.6	105.0
7	123.2	122.5
8	140.8	140.0
9	158.4	157.5

	133
1	13.3
2	26.6
3	39.9
4	53.2
5	66.5
6	79.8
7	93.1
8	106.4
9	119.7

	132
1	13.2
2	26.4
3	39.6
4	52.8
5	66.0
6	79.2
7	92.4
8	105.6
9	118.8

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

60°.200 — 60°.150

29°.850 — 29°.900

29°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.696 9947		9.758 8096		0.241 1904	9.938 1851		.150	
		132		176			44		
851	9.697 0079		9.758 8272		0.241 1728	9.938 1807		149	
852	9.697 0211	132	9.758 8448	176	0.241 1552	9.938 1764	43	148	
853	9.697 0343	132	9.758 8623	175	0.241 1377	9.938 1720	44	147	
		133		176			43		
854	9.697 0476		9.758 8799		0.241 1201	9.938 1677		146	
855	9.697 0608	132	9.758 8974	175	0.241 1026	9.938 1633	44	145	
856	9.697 0740	132	9.758 9150	176	0.241 0850	9.938 1590	43	144	
		132		175			44		
857	9.697 0872		9.758 9325		0.241 0675	9.938 1546		143	
858	9.697 1004	132	9.758 9501	176	0.241 0499	9.938 1503	43	142	
859	9.697 1136	132	9.758 9677	176	0.241 0323	9.938 1459	44	141	
		132		175			43		
.860	9.697 1268		9.758 9852		0.241 0148	9.938 1416		.140	
		132		176			44		
861	9.697 1400		9.759 0028		0.240 9972	9.938 1372		139	
862	9.697 1532	132	9.759 0203	175	0.240 9797	9.938 1329	43	138	
863	9.697 1664	132	9.759 0379	176	0.240 9621	9.938 1285	44	137	
		132		175			43		
864	9.697 1796		9.759 0554		0.240 9446	9.938 1242		136	
865	9.697 1928	132	9.759 0730	176	0.240 9270	9.938 1198	44	135	
866	9.697 2060	132	9.759 0905	175	0.240 9095	9.938 1155	43	134	
		132		176			44		
867	9.697 2192		9.759 1081		0.240 8919	9.938 1111		133	
868	9.697 2324	132	9.759 1256	175	0.240 8744	9.938 1068	43	132	
869	9.697 2456	132	9.759 1432	176	0.240 8568	9.938 1024	44	131	
		132		175			43		
.870	9.697 2588		9.759 1607		0.240 8393	9.938 0981		.130	
		132		176			44		
871	9.697 2720		9.759 1783		0.240 8217	9.938 0937		129	
872	9.697 2852	132	9.759 1958	175	0.240 8042	9.938 0893	44	128	
873	9.697 2984	132	9.759 2134	176	0.240 7866	9.938 0850	43	127	
		132		175			44		
874	9.697 3116		9.759 2309		0.240 7691	9.938 0806		126	
875	9.697 3248	132	9.759 2485	176	0.240 7515	9.938 0763	43	125	
876	9.697 3380	132	9.759 2660	175	0.240 7340	9.938 0719	44	124	
		132		176			43		
877	9.697 3512		9.759 2836		0.240 7164	9.938 0676		123	
878	9.697 3644	132	9.759 3011	175	0.240 6989	9.938 0632	44	122	
879	9.697 3775	131	9.759 3187	176	0.240 6813	9.938 0589	43	121	
		132		175			44		
.880	9.697 3907		9.759 3362		0.240 6638	9.938 0545		.120	
		132		176			43		
881	9.697 4039		9.759 3538		0.240 6462	9.938 0502		119	
882	9.697 4171	132	9.759 3713	175	0.240 6287	9.938 0458	44	118	
883	9.697 4303	132	9.759 3889	176	0.240 6111	9.938 0414	44	117	
		132		175			43		
884	9.697 4435		9.759 4064		0.240 5936	9.938 0371		116	
885	9.697 4567	132	9.759 4240	176	0.240 5760	9.938 0327	44	115	
886	9.697 4699	132	9.759 4415	175	0.240 5585	9.938 0284	43	114	
		132		176			44		
887	9.697 4831		9.759 4591		0.240 5409	9.938 0240		113	
888	9.697 4963	132	9.759 4766	175	0.240 5234	9.938 0197	43	112	
889	9.697 5094	131	9.759 4941	175	0.240 5059	9.938 0153	44	111	
		132		176			43		
.890	9.697 5226		9.759 5117		0.240 4883	9.938 0110		.110	
		132		175			44		
891	9.697 5358		9.759 5292		0.240 4708	9.938 0066		109	
892	9.697 5490	132	9.759 5468	176	0.240 4532	9.938 0022	44	108	
893	9.697 5622	132	9.759 5643	175	0.240 4357	9.937 9979	43	107	
		132		176			44		
894	9.697 5754		9.759 5819		0.240 4181	9.937 9935		106	
895	9.697 5886	132	9.759 5994	175	0.240 4006	9.937 9892	43	105	
896	9.697 6017	131	9.759 6169	175	0.240 3831	9.937 9848	44	104	
		132		176			44		
897	9.697 6149		9.759 6345		0.240 3655	9.937 9804		103	
898	9.697 6281	132	9.759 6520	175	0.240 3480	9.937 9761	43	102	
899	9.697 6413	132	9.759 6696	176	0.240 3304	9.937 9717	44	101	
		132		175			43		
.900	9.697 6545		9.759 6871		0.240 3129	9.937 9674		.100	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	176	175
1	17.6	17.5
2	35.2	35.0
3	52.8	52.5
4	70.4	70.0
5	88.0	87.5
6	105.6	105.0
7	123.2	122.5
8	140.8	140.0
9	158.4	157.5

	133	132
1	13.3	13.2
2	26.6	26.4
3	39.9	39.6
4	53.2	52.8
5	66.5	66.0
6	79.8	79.2
7	93.1	92.4
8	106.4	105.6
9	119.7	118.8

	131
1	13.1
2	26.2
3	39.3
4	52.4
5	65.5
6	78.6
7	91.7
8	104.8
9	117.9

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

60°.150 — 60°.100

29°.900 — 29°.950

29°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.697 6545		9.759 6871		0.240 3129	9.937 9674		.100	
		132		175			44		
901	9.697 6677		9.759 7046		0.240 2954	9.937 9630		099	
902	9.697 6808	131	9.759 7222	176	0.240 2778	9.937 9587	43	098	
903	9.697 6940	132	9.759 7397	175	0.240 2603	9.937 9543	44	097	
		132		176			44		
904	9.697 7072		9.759 7573		0.240 2427	9.937 9499		096	
905	9.697 7204	132	9.759 7748	175	0.240 2252	9.937 9456	43	095	
906	9.697 7336	132	9.759 7923	175	0.240 2077	9.937 9412	44	094	
		131		176			43		
907	9.697 7467		9.759 8099		0.240 1901	9.937 9369		093	
908	9.697 7599	132	9.759 8274	175	0.240 1726	9.937 9325	44	092	
909	9.697 7731	132	9.759 8450	176	0.240 1550	9.937 9281	44	091	
		132		175			43		
.910	9.697 7863		9.759 8625		0.240 1375	9.937 9238		.090	
		131		175			44		
911	9.697 7994		9.759 8800		0.240 1200	9.937 9194		089	
912	9.697 8126	132	9.759 8976	176	0.240 1024	9.937 9151	43	088	
913	9.697 8258	132	9.759 9151	175	0.240 0849	9.937 9107	44	087	
		132		175			44		
914	9.697 8390		9.759 9326		0.240 0674	9.937 9063		086	
915	9.697 8521	131	9.759 9502	176	0.240 0498	9.937 9020	43	085	
916	9.697 8653	132	9.759 9677	175	0.240 0323	9.937 8976	44	084	
		132		175			43		
917	9.697 8785		9.759 9852		0.240 0148	9.937 8933		083	
918	9.697 8917	132	9.760 0028	176	0.239 9972	9.937 8889	44	082	
919	9.697 9048	131	9.760 0203	175	0.239 9797	9.937 8845	44	081	
		132		175			43		
.920	9.697 9180		9.760 0378		0.239 9622	9.937 8802		.080	
		132		176			44		
921	9.697 9312		9.760 0554		0.239 9446	9.937 8758		079	
922	9.697 9444	132	9.760 0729	175	0.239 9271	9.937 8714	44	078	
923	9.697 9575	131	9.760 0904	175	0.239 9096	9.937 8671	43	077	
		132		176			44		
924	9.697 9707		9.760 1080		0.239 8920	9.937 8627		076	
925	9.697 9839	132	9.760 1255	175	0.239 8745	9.937 8584	43	075	
926	9.697 9970	131	9.760 1430	175	0.239 8570	9.937 8540	44	074	
		132		176			44		
927	9.698 0102		9.760 1606		0.239 8394	9.937 8496		073	
928	9.698 0234	132	9.760 1781	175	0.239 8219	9.937 8453	43	072	
929	9.698 0365	131	9.760 1956	175	0.239 8044	9.937 8409	44	071	
		132		176			44		
.930	9.698 0497		9.760 2132		0.239 7868	9.937 8365		.070	
		132		175			43		
931	9.698 0629		9.760 2307		0.239 7693	9.937 8322		069	
932	9.698 0760	131	9.760 2482	175	0.239 7518	9.937 8278	44	068	
933	9.698 0892	132	9.760 2657	175	0.239 7343	9.937 8234	44	067	
		132		176			43		
934	9.698 1024		9.760 2833		0.239 7167	9.937 8191		066	
935	9.698 1155	131	9.760 3008	175	0.239 6992	9.937 8147	44	065	
936	9.698 1287	132	9.760 3183	175	0.239 6817	9.937 8103	44	064	
		131		176			43		
937	9.698 1418		9.760 3359		0.239 6641	9.937 8060		063	
938	9.698 1550	132	9.760 3534	175	0.239 6466	9.937 8016	44	062	
939	9.698 1682	132	9.760 3709	175	0.239 6291	9.937 7973	43	061	
		131		175			44		
.940	9.698 1813		9.760 3884		0.239 6116	9.937 7929		.060	
		132		176			44		
941	9.698 1945		9.760 4060		0.239 5940	9.937 7885		059	
942	9.698 2076	131	9.760 4235	175	0.239 5765	9.937 7842	43	058	
943	9.698 2208	132	9.760 4410	175	0.239 5590	9.937 7798	44	057	
		132		175			44		
944	9.698 2340		9.760 4585		0.239 5415	9.937 7754		056	
945	9.698 2471	131	9.760 4761	176	0.239 5239	9.937 7711	43	055	
946	9.698 2603	132	9.760 4936	175	0.239 5064	9.937 7667	44	054	
		131		175			44		
947	9.698 2734		9.760 5111		0.239 4889	9.937 7623		053	
948	9.698 2866	132	9.760 5286	175	0.239 4714	9.937 7580	43	052	
949	9.698 2998	132	9.760 5462	176	0.239 4538	9.937 7536	44	051	
		131		175			44		
.950	9.698 3129		9.760 5637		0.239 4363	9.937 7492		.050	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	176	175
1	17.6	17.5
2	35.2	35.0
3	52.8	52.5
4	70.4	70.0
5	88.0	87.5
6	105.6	105.0
7	123.2	122.5
8	140.8	140.0
9	158.4	157.5

	132
1	13.2
2	26.4
3	39.6
4	52.8
5	66.0
6	79.2
7	92.4
8	105.6
9	118.8

	131
1	13.1
2	26.2
3	39.3
4	52.4
5	65.5
6	78.6
7	91.7
8	104.8
9	117.9

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

60°.100 — 60°.050

29°.950 — 30°.000

29°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.698 3129		9.760 5637		0.239 4363	9.937 7492		.050	
		132		175			43		
951	9.698 3261		9.760 5812		0.239 4188	9.937 7449		049	
952	9.698 3392	131	9.760 5987	175	0.239 4013	9.937 7405	44	048	
953	9.698 3524	132	9.760 6162	175	0.239 3838	9.937 7361	44	047	
		131		176			43		
954	9.698 3655		9.760 6338		0.239 3662	9.937 7318		046	
955	9.698 3787	132	9.760 6513	175	0.239 3487	9.937 7274	44	045	
956	9.698 3918	131	9.760 6688	175	0.239 3312	9.937 7230	44	044	
		132		175			44		
957	9.698 4050		9.760 6863		0.239 3137	9.937 7186		043	
958	9.698 4181	131	9.760 7039	176	0.239 2961	9.937 7143	43	042	
959	9.698 4313	132	9.760 7214	175	0.239 2786	9.937 7099	44	041	
		131		175			44		
.960	9.698 4444		9.760 7389		0.239 2611	9.937 7055		.040	
		132		175			43		
961	9.698 4576		9.760 7564		0.239 2436	9.937 7012		039	
962	9.698 4707	131	9.760 7739	175	0.239 2261	9.937 6968	44	038	
963	9.698 4839	132	9.760 7914	175	0.239 2086	9.937 6924	44	037	
		131		176			43		
964	9.698 4970		9.760 8090		0.239 1910	9.937 6881		036	
965	9.698 5102	132	9.760 8265	175	0.239 1735	9.937 6837	44	035	
966	9.698 5233	131	9.760 8440	175	0.239 1560	9.937 6793	44	034	
		132		175			43		
967	9.698 5365		9.760 8615		0.239 1385	9.937 6750		033	
968	9.698 5496	131	9.760 8790	175	0.239 1210	9.937 6706	44	032	
969	9.698 5628	132	9.760 8965	175	0.239 1035	9.937 6662	44	031	
		131		176			44		
.970	9.698 5759		9.760 9141		0.239 0859	9.937 6618		.030	
		131		175			43		
971	9.698 5890		9.760 9316		0.239 0684	9.937 6575		029	
972	9.698 6022	132	9.760 9491	175	0.239 0509	9.937 6531	44	028	
973	9.698 6153	131	9.760 9666	175	0.239 0334	9.937 6487	44	027	
		132		175			43		
974	9.698 6285		9.760 9841		0.239 0159	9.937 6444		026	
975	9.698 6416	131	9.761 0016	175	0.238 9984	9.937 6400	44	025	
976	9.698 6548	132	9.761 0192	176	0.238 9808	9.937 6356	44	024	
		131		175			44		
977	9.698 6679		9.761 0367		0.238 9633	9.937 6312		023	
978	9.698 6810	131	9.761 0542	175	0.238 9458	9.937 6269	43	022	
979	9.698 6942	132	9.761 0717	175	0.238 9283	9.937 6225	44	021	
		131		175			44		
.980	9.698 7073		9.761 0892		0.238 9108	9.937 6181		.020	
		132		175			44		
981	9.698 7205		9.761 1067		0.238 8933	9.937 6137		019	
982	9.698 7336	131	9.761 1242	175	0.238 8758	9.937 6094	43	018	
983	9.698 7467	131	9.761 1417	175	0.238 8583	9.937 6050	44	017	
		132		175			44		
984	9.698 7599		9.761 1592		0.238 8408	9.937 6006		016	
985	9.698 7730	131	9.761 1768	176	0.238 8232	9.937 5963	43	015	
986	9.698 7862	132	9.761 1943	175	0.238 8057	9.937 5919	44	014	
		131		175			44		
987	9.698 7993		9.761 2118		0.238 7882	9.937 5875		013	
988	9.698 8124	131	9.761 2293	175	0.238 7707	9.937 5831	44	012	
989	9.698 8256	132	9.761 2468	175	0.238 7532	9.937 5788	43	011	
		131		175			44		
.990	9.698 8387		9.761 2643		0.238 7357	9.937 5744		.010	
		131		175			44		
991	9.698 8518		9.761 2818		0.238 7182	9.937 5700		009	
992	9.698 8650	132	9.761 2993	175	0.238 7007	9.937 5656	44	008	
993	9.698 8781	131	9.761 3168	175	0.238 6832	9.937 5613	43	007	
		131		175			44		
994	9.698 8912		9.761 3343		0.238 6657	9.937 5569		006	
995	9.698 9044	132	9.761 3518	175	0.238 6482	9.937 5525	44	005	
996	9.698 9175	131	9.761 3693	175	0.238 6307	9.937 5481	44	004	
		131		176			43		
997	9.698 9306		9.761 3869		0.238 6131	9.937 5438		003	
998	9.698 9437	131	9.761 4044	175	0.238 5956	9.937 5394	44	002	
999	9.698 9569	132	9.761 4219	175	0.238 5781	9.937 5350	44	001	
		131		175			44		
*.000	9.698 9700		9.761 4394		0.238 5606	9.937 5306		.000	
	cos	d	cotg	d	tang	sin	d	60°	P.P.

	176	175
1	17.6	17.5
2	35.2	35.0
3	52.8	52.5
4	70.4	70.0
5	88.0	87.5
6	105.6	105.0
7	123.2	122.5
8	140.8	140.0
9	158.4	157.5

	132
1	13.2
2	26.4
3	39.6
4	52.8
5	66.0
6	79.2
7	92.4
8	105.6
9	118.8

	131
1	13.1
2	26.2
3	39.3
4	52.4
5	65.5
6	78.6
7	91.7
8	104.8
9	117.9

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

60°.050 — 60°.000

30°.000 — 30°.050

30°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.698 9700		9.761 4394		0.238 5606	9.937 5306		*000	
		131		175			43		
001	9.698 9831		9.761 4569		0.238 5431	9.937 5263		999	
002	9.698 9963	132	9.761 4744	175	0.238 5256	9.937 5219	44	998	
003	9.699 0094	131	9.761 4919	175	0.238 5081	9.937 5175	44	997	
		131		175			44		
004	9.699 0225		9.761 5094		0.238 4906	9.937 5131		996	
005	9.699 0356	131	9.761 5269	175	0.238 4731	9.937 5087	44	995	
006	9.699 0488	132	9.761 5444	175	0.238 4556	9.937 5044	43	994	
		131		175			44		
007	9.699 0619		9.761 5619		0.238 4381	9.937 5000		993	
008	9.699 0750	131	9.761 5794	175	0.238 4206	9.937 4956	44	992	
009	9.699 0881	131	9.761 5969	175	0.238 4031	9.937 4912	44	991	
		132		175			43		
.010	9.699 1013		9.761 6144		0.238 3856	9.937 4869		.990	
		131		175			44		
011	9.699 1144		9.761 6319		0.238 3681	9.937 4825		989	
012	9.699 1275	131	9.761 6494	175	0.238 3506	9.937 4781	44	988	
013	9.699 1406	131	9.761 6669	175	0.238 3331	9.937 4737	44	987	
		132		175			44		
014	9.699 1538		9.761 6844		0.238 3156	9.937 4693		986	
015	9.699 1669	131	9.761 7019	175	0.238 2981	9.937 4650	43	985	
016	9.699 1800	131	9.761 7194	175	0.238 2806	9.937 4606	44	984	
		131		175			44		
017	9.699 1931		9.761 7369		0.238 2631	9.937 4562		983	
018	9.699 2062	131	9.761 7544	175	0.238 2456	9.937 4518	44	982	
019	9.699 2194	132	9.761 7719	175	0.238 2281	9.937 4475	43	981	
		131		175			44		
.020	9.699 2325		9.761 7894		0.238 2106	9.937 4431		.980	
		131		175			44		
021	9.699 2456		9.761 8069		0.238 1931	9.937 4387		979	
022	9.699 2587	131	9.761 8244	175	0.238 1756	9.937 4343	44	978	
023	9.699 2718	131	9.761 8419	175	0.238 1581	9.937 4299	44	977	
		131		175			43		
024	9.699 2849		9.761 8594		0.238 1406	9.937 4256		976	
025	9.699 2981	132	9.761 8769	175	0.238 1231	9.937 4212	44	975	
026	9.699 3112	131	9.761 8944	175	0.238 1056	9.937 4168	44	974	
		131		175			44		
027	9.699 3243		9.761 9119		0.238 0881	9.937 4124		973	
028	9.699 3374	131	9.761 9294	175	0.238 0706	9.937 4080	44	972	
029	9.699 3505	131	9.761 9469	175	0.238 0531	9.937 4036	44	971	
		131		175			43		
.030	9.699 3636		9.761 9644		0.238 0356	9.937 3993		.970	
		131		175			44		
031	9.699 3767		9.761 9819		0.238 0181	9.937 3949		969	
032	9.699 3899	132	9.761 9994	175	0.238 0006	9.937 3905	44	968	
033	9.699 4030	131	9.762 0168	174	0.237 9832	9.937 3861	44	967	
		131		175			44		
034	9.699 4161		9.762 0343		0.237 9657	9.937 3817		966	
035	9.699 4292	131	9.762 0518	175	0.237 9482	9.937 3774	43	965	
036	9.699 4423	131	9.762 0693	175	0.237 9307	9.937 3730	44	964	
		131		175			44		
037	9.699 4554		9.762 0868		0.237 9132	9.937 3686		963	
038	9.699 4685	131	9.762 1043	175	0.237 8957	9.937 3642	44	962	
039	9.699 4816	131	9.762 1218	175	0.237 8782	9.937 3598	44	961	
		131		175			44		
.040	9.699 4947		9.762 1393		0.237 8607	9.937 3554		.960	
		131		175			43		
041	9.699 5078		9.762 1568		0.237 8432	9.937 3511		959	
042	9.699 5209	131	9.762 1743	175	0.237 8257	9.937 3467	44	958	
043	9.699 5341	132	9.762 1918	175	0.237 8082	9.937 3423	44	957	
		131		174			44		
044	9.699 5472		9.762 2092		0.237 7908	9.937 3379		956	
045	9.699 5603	131	9.762 2267	175	0.237 7733	9.937 3335	44	955	
046	9.699 5734	131	9.762 2442	175	0.237 7558	9.937 3291	44	954	
		131		175			43		
047	9.699 5865		9.762 2617		0.237 7383	9.937 3248		953	
048	9.699 5996	131	9.762 2792	175	0.237 7208	9.937 3204	44	952	
049	9.699 6127	131	9.762 2967	175	0.237 7033	9.937 3160	44	951	
		131		175			44		
.050	9.699 6258		9.762 3142		0.237 6858	9.937 3116		.950	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	175	174
1	17.5	17.4
2	35.0	34.8
3	52.5	52.2
4	70.0	69.6
5	87.5	87.0
6	105.0	104.4
7	122.5	121.8
8	140.0	139.2
9	157.5	156.6

	132
1	13.2
2	26.4
3	39.6
4	52.8
5	66.0
6	79.2
7	92.4
8	105.6
9	118.8

	131
1	13.1
2	26.2
3	39.3
4	52.4
5	65.5
6	78.6
7	91.7
8	104.8
9	117.9

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

60°.000 — 59°.950

30°.050 — 30°.100

30°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.699 6258		9.762 3142		0.237 6858	9.937 3116		**.950**	
		131		175			44		
051	9.699 6389		9.762 3317		0.237 6683	9.937 3072		949	
052	9.699 6520	131	9.762 3492	175	0.237 6508	9.937 3028	44	948	
053	9.699 6651	131	9.762 3666	174	0.237 6334	9.937 2984	44	947	
		131		175			43		
054	9.699 6782		9.762 3841		0.237 6159	9.937 2941		946	
055	9.699 6913	131	9.762 4016	175	0.237 5984	9.937 2897	44	945	
056	9.699 7044	131	9.762 4191	175	0.237 5809	9.937 2853	44	944	
		131		175			44		
057	9.699 7175		9.762 4366		0.237 5634	9.937 2809		943	
058	9.699 7306	131	9.762 4541	175	0.237 5459	9.937 2765	44	942	
059	9.699 7437	131	9.762 4716	175	0.237 5284	9.937 2721	44	941	
		131		174			44		
.060	9.699 7568		9.762 4890		0.237 5110	9.937 2677		**.940**	
		131		175			43		
061	9.699 7699		9.762 5065		0.237 4935	9.937 2634		939	
062	9.699 7830	131	9.762 5240	175	0.237 4760	9.937 2590	44	938	
063	9.699 7961	131	9.762 5415	175	0.237 4585	9.937 2546	44	937	
		131		175			44		
064	9.699 8092		9.762 5590		0.237 4410	9.937 2502		936	
065	9.699 8223	131	9.762 5765	175	0.237 4235	9.937 2458	44	935	
066	9.699 8353	130	9.762 5939	174	0.237 4061	9.937 2414	44	934	
		131		175			44		
067	9.699 8484		9.762 6114		0.237 3886	9.937 2370		933	
068	9.699 8615	131	9.762 6289	175	0.237 3711	9.937 2326	44	932	
069	9.699 8746	131	9.762 6464	175	0.237 3536	9.937 2283	43	931	
		131		175			44		
.070	9.699 8877		9.762 6639		0.237 3361	9.937 2239		**.930**	
		131		174			44		
071	9.699 9008		9.762 6813		0.237 3187	9.937 2195		929	
072	9.699 9139	131	9.762 6988	175	0.237 3012	9.937 2151	44	928	
073	9.699 9270	131	9.762 7163	175	0.237 2837	9.937 2107	44	927	
		131		175			44		
074	9.699 9401		9.762 7338		0.237 2662	9.937 2063		926	
075	9.699 9532	131	9.762 7513	175	0.237 2487	9.937 2019	44	925	
076	9.699 9663	131	9.762 7687	174	0.237 2313	9.937 1975	44	924	
		130		175			44		
077	9.699 9793		9.762 7862		0.237 2138	9.937 1931		923	
078	9.699 9924	131	9.762 8037	175	0.237 1963	9.937 1887	44	922	
079	9.700 0055	131	9.762 8212	175	0.237 1788	9.937 1844	43	921	
		131		174			44		
.080	9.700 0186		9.762 8386		0.237 1614	9.937 1800		**.920**	
		131		175			44		
081	9.700 0317		9.762 8561		0.237 1439	9.937 1756		919	
082	9.700 0448	131	9.762 8736	175	0.237 1264	9.937 1712	44	918	
083	9.700 0579	131	9.762 8911	175	0.237 1089	9.937 1668	44	917	
		131		174			44		
084	9.700 0710		9.762 9085		0.237 0915	9.937 1624		916	
085	9.700 0840	130	9.762 9260	175	0.237 0740	9.937 1580	44	915	
086	9.700 0971	131	9.762 9435	175	0.237 0565	9.937 1536	44	914	
		131		175			44		
087	9.700 1102		9.762 9610		0.237 0390	9.937 1492		913	
088	9.700 1233	131	9.762 9784	174	0.237 0216	9.937 1448	44	912	
089	9.700 1364	131	9.762 9959	175	0.237 0041	9.937 1404	44	911	
		130		175			43		
.090	9.700 1494		9.763 0134		0.236 9866	9.937 1361		**.910**	
		131		175			44		
091	9.700 1625		9.763 0309		0.236 9691	9.937 1317		909	
092	9.700 1756	131	9.763 0483	174	0.236 9517	9.937 1273	44	908	
093	9.700 1887	131	9.763 0658	175	0.236 9342	9.937 1229	44	907	
		131		175			44		
094	9.700 2018		9.763 0833		0.236 9167	9.937 1185		906	
095	9.700 2148	130	9.763 1008	175	0.236 8992	9.937 1141	44	905	
096	9.700 2279	131	9.763 1182	174	0.236 8818	9.937 1097	44	904	
		131		175			44		
097	9.700 2410		9.763 1357		0.236 8643	9.937 1053		903	
098	9.700 2541	131	9.763 1532	175	0.236 8468	9.937 1009	44	902	
099	9.700 2672	131	9.763 1706	174	0.236 8294	9.937 0965	44	901	
		130		175			44		
.100	9.700 2802		9.763 1881		0.236 8119	9.937 0921		**.900**	
	cos	d	cotg	d	tang	sin	d	**59°**	P.P.

	175	174
1	17.5	17.4
2	35.0	34.8
3	52.5	52.2
4	70.0	69.6
5	87.5	87.0
6	105.0	104.4
7	122.5	121.8
8	140.0	139.2
9	157.5	156.6

	131
1	13.1
2	26.2
3	39.3
4	52.4
5	65.5
6	78.6
7	91.7
8	104.8
9	117.9

	130
1	13.0
2	26.0
3	39.0
4	52.0
5	65.0
6	78.0
7	91.0
8	104.0
9	117.0

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

59°.950 — 59°.900

30°.100 — 30°.150

30°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.700 2802		9.763 1881		0.236 8119	9.937 0921		.900	
		131		175			44		
101	9.700 2933		9.763 2056		0.236 7944	9.937 0877		899	
102	9.700 3064	131	9.763 2230	174	0.236 7770	9.937 0833	44	898	
103	9.700 3195	131	9.763 2405	175	0.236 7595	9.937 0789	44	897	
		130		175			44		
104	9.700 3325		9.763 2580		0.236 7420	9.937 0745		896	
105	9.700 3456	131	9.763 2755	175	0.236 7245	9.937 0702	43	895	
106	9.700 3587	131	9.763 2929	174	0.236 7071	9.937 0658	44	894	
		131		175			44		
107	9.700 3718		9.763 3104		0.236 6896	9.937 0614		893	
108	9.700 3848	130	9.763 3279	175	0.236 6721	9.937 0570	44	892	
109	9.700 3979	131	9.763 3453	174	0.236 6547	9.937 0526	44	891	
		131		175			44		
.110	9.700 4110		9.763 3628		0.236 6372	9.937 0482		.890	
		130		175			44		
111	9.700 4240		9.763 3803		0.236 6197	9.937 0438		889	
112	9.700 4371	131	9.763 3977	174	0.236 6023	9.937 0394	44	888	
113	9.700 4502	131	9.763 4152	175	0.236 5848	9.937 0350	44	887	
		130		175			44		
114	9.700 4632		9.763 4327		0.236 5673	9.937 0306		886	
115	9.700 4763	131	9.763 4501	174	0.236 5499	9.937 0262	44	885	
116	9.700 4894	131	9.763 4676	175	0.236 5324	9.937 0218	44	884	
		131		174			44		
117	9.700 5025		9.763 4850		0.236 5150	9.937 0174		883	
118	9.700 5155	130	9.763 5025	175	0.236 4975	9.937 0130	44	882	
119	9.700 5286	131	9.763 5200	175	0.236 4800	9.937 0086	44	881	
		130		174			44		
.120	9.700 5416		9.763 5374		0.236 4626	9.937 0042		.880	
		131		175			44		
121	9.700 5547		9.763 5549		0.236 4451	9.936 9998		879	
122	9.700 5678	131	9.763 5724	175	0.236 4276	9.936 9954	44	878	
123	9.700 5808	130	9.763 5898	174	0.236 4102	9.936 9910	44	877	
		131		175			44		
124	9.700 5939		9.763 6073		0.236 3927	9.936 9866		876	
125	9.700 6070	131	9.763 6247	174	0.236 3753	9.936 9822	44	875	
126	9.700 6200	130	9.763 6422	175	0.236 3578	9.936 9778	44	874	
		131		175			44		
127	9.700 6331		9.763 6597		0.236 3403	9.936 9734		873	
128	9.700 6462	131	9.763 6771	174	0.236 3229	9.936 9690	44	872	
129	9.700 6592	130	9.763 6946	175	0.236 3054	9.936 9646	44	871	
		131		174			44		
.130	9.700 6723		9.763 7120		0.236 2880	9.936 9602		.870	
		130		175			44		
131	9.700 6853		9.763 7295		0.236 2705	9.936 9558		869	
132	9.700 6984	131	9.763 7470	175	0.236 2530	9.936 9514	44	868	
133	9.700 7115	131	9.763 7644	174	0.236 2356	9.936 9470	44	867	
		130		175			44		
134	9.700 7245		9.763 7819		0.236 2181	9.936 9426		866	
135	9.700 7376	131	9.763 7993	174	0.236 2007	9.936 9382	44	865	
136	9.700 7506	130	9.763 8168	175	0.236 1832	9.936 9338	44	864	
		131		175			44		
137	9.700 7637		9.763 8343		0.236 1657	9.936 9294		863	
138	9.700 7767	130	9.763 8517	174	0.236 1483	9.936 9250	44	862	
139	9.700 7898	131	9.763 8692	175	0.236 1308	9.936 9206	44	861	
		131		174			44		
.140	9.700 8029		9.763 8866		0.236 1134	9.936 9162		.860	
		130		175			44		
141	9.700 8159		9.763 9041		0.236 0959	9.936 9118		859	
142	9.700 8290	131	9.763 9215	174	0.236 0785	9.936 9074	44	858	
143	9.700 8420	130	9.763 9390	175	0.236 0610	9.936 9030	44	857	
		131		174			44		
144	9.700 8551		9.763 9564		0.236 0436	9.936 8986		856	
145	9.700 8681	130	9.763 9739	175	0.236 0261	9.936 8942	44	855	
146	9.700 8812	131	9.763 9914	175	0.236 0086	9.936 8898	44	854	
		130		174			44		
147	9.700 8942		9.764 0088		0.235 9912	9.936 8854		853	
148	9.700 9073	131	9.764 0263	175	0.235 9737	9.936 8810	44	852	
149	9.700 9203	130	9.764 0437	174	0.235 9563	9.936 8766	44	851	
		131		175			44		
.150	9.700 9334		9.764 0612		0.235 9388	9.936 8722		.850	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	175	174
1	17.5	17.4
2	35.0	34.8
3	52.5	52.2
4	70.0	69.6
5	87.5	87.0
6	105.0	104.4
7	122.5	121.8
8	140.0	139.2
9	157.5	156.6

	131
1	13.1
2	26.2
3	39.3
4	52.4
5	65.5
6	78.6
7	91.7
8	104.8
9	117.9

	130
1	13.0
2	26.0
3	39.0
4	52.0
5	65.0
6	78.0
7	91.0
8	104.0
9	117.0

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

	43
1	4.3
2	8.6
3	12.9
4	17.2
5	21.5
6	25.8
7	30.1
8	34.4
9	38.7

59°.900 — 59°.850

30°.150 — 30°.200

30°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.700 9334		9.764 0612		0.235 9388	9.936 8722		.850	
		130		174			44		
151	9.700 9464		9.764 0786		0.235 9214	9.936 8678		849	
152	9.700 9595	131	9.764 0961	175	0.235 9039	9.936 8634	44	848	
153	9.700 9725	130	9.764 1135	174	0.235 8865	9.936 8590	44	847	
		131		175			44		
154	9.700 9856		9.764 1310		0.235 8690	9.936 8546		846	
155	9.700 9986	130	9.764 1484	174	0.235 8516	9.936 8502	44	845	
156	9.701 0117	131	9.764 1659	175	0.235 8341	9.936 8458	44	844	
		130		174			44		
157	9.701 0247		9.764 1833		0.235 8167	9.936 8414		843	
158	9.701 0378	131	9.764 2008	175	0.235 7992	9.936 8370	44	842	
159	9.701 0508	130	9.764 2182	174	0.235 7818	9.936 8326	44	841	
		130		175			44		
.160	9.701 0638		9.764 2357		0.235 7643	9.936 8282		.840	
		131		174			44		
161	9.701 0769		9.764 2531		0.235 7469	9.936 8238		839	
162	9.701 0899	130	9.764 2706	175	0.235 7294	9.936 8194	44	838	
163	9.701 1030	131	9.764 2880	174	0.235 7120	9.936 8150	44	837	
		130		175			44		
164	9.701 1160		9.764 3055		0.235 6945	9.936 8106		836	
165	9.701 1291	131	9.764 3229	174	0.235 6771	9.936 8061	45	835	
166	9.701 1421	130	9.764 3404	175	0.235 6596	9.936 8017	44	834	
		130		174			44		
167	9.701 1551		9.764 3578		0.235 6422	9.936 7973		833	
168	9.701 1682	131	9.764 3753	175	0.235 6247	9.936 7929	44	832	
169	9.701 1812	130	9.764 3927	174	0.235 6073	9.936 7885	44	831	
		131		174			44		
.170	9.701 1943		9.764 4101		0.235 5899	9.936 7841		.830	
		130		175			44		
171	9.701 2073		9.764 4276		0.235 5724	9.936 7797		829	
172	9.701 2203	130	9.764 4450	174	0.235 5550	9.936 7753	44	828	
173	9.701 2334	131	9.764 4625	175	0.235 5375	9.936 7709	44	827	
		130		174			44		
174	9.701 2464		9.764 4799		0.235 5201	9.936 7665		826	
175	9.701 2595	131	9.764 4974	175	0.235 5026	9.936 7621	44	825	
176	9.701 2725	130	9.764 5148	174	0.235 4852	9.936 7577	44	824	
		130		175			44		
177	9.701 2855		9.764 5323		0.235 4677	9.936 7533		823	
178	9.701 2986	131	9.764 5497	174	0.235 4503	9.936 7489	44	822	
179	9.701 3116	130	9.764 5671	174	0.235 4329	9.936 7445	44	821	
		130		175			45		
.180	9.701 3246		9.764 5846		0.235 4154	9.936 7400		.820	
		131		174			44		
181	9.701 3377		9.764 6020		0.235 3980	9.936 7356		819	
182	9.701 3507	130	9.764 6195	175	0.235 3805	9.936 7312	44	818	
183	9.701 3637	130	9.764 6369	174	0.235 3631	9.936 7268	44	817	
		131		174			44		
184	9.701 3768		9.764 6543		0.235 3457	9.936 7224		816	
185	9.701 3898	130	9.764 6718	175	0.235 3282	9.936 7180	44	815	
186	9.701 4028	130	9.764 6892	174	0.235 3108	9.936 7136	44	814	
		131		175			44		
187	9.701 4159		9.764 7067		0.235 2933	9.936 7092		813	
188	9.701 4289	130	9.764 7241	174	0.235 2759	9.936 7048	44	812	
189	9.701 4419	130	9.764 7415	174	0.235 2585	9.936 7004	44	811	
		130		175			44		
.190	9.701 4549		9.764 7590		0.235 2410	9.936 6960		.810	
		131		174			45		
191	9.701 4680		9.764 7764		0.235 2236	9.936 6915		809	
192	9.701 4810	130	9.764 7939	175	0.235 2061	9.936 6871	44	808	
193	9.701 4940	130	9.764 8113	174	0.235 1887	9.936 6827	44	807	
		131		174			44		
194	9.701 5071		9.764 8287		0.235 1713	9.936 6783		806	
195	9.701 5201	130	9.764 8462	175	0.235 1538	9.936 6739	44	805	
196	9.701 5331	130	9.764 8636	174	0.235 1364	9.936 6695	44	804	
		130		174			44		
197	9.701 5461		9.764 8810		0.235 1190	9.936 6651		803	
198	9.701 5592	131	9.764 8985	175	0.235 1015	9.936 6607	44	802	
199	9.701 5722	130	9.764 9159	174	0.235 0841	9.936 6563	44	801	
		130		175			44		
.200	9.701 5852		9.764 9334		0.235 0666	9.936 6519		.800	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	175	174
1	17.5	17.4
2	35.0	34.8
3	52.5	52.2
4	70.0	69.6
5	87.5	87.0
6	105.0	104.4
7	122.5	121.8
8	140.0	139.2
9	157.5	156.6

	131
1	13.1
2	26.2
3	39.3
4	52.4
5	65.5
6	78.6
7	91.7
8	104.8
9	117.9

	130
1	13.0
2	26.0
3	39.0
4	52.0
5	65.0
6	78.0
7	91.0
8	104.0
9	117.0

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.850 — 59°.800

30°.200 — 30°.250

30°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.701 5852		9.764 9334		0.235 0666	9.936 6519		.800	
		130		174			45		
201	9.701 5982		9.764 9508		0.235 0492	9.936 6474		799	
202	9.701 6113	131	9.764 9682	174	0.235 0318	9.936 6430	44	798	
203	9.701 6243	130	9.764 9857	175	0.235 0143	9.936 6386	44	797	
		130		174			44		
204	9.701 6373		9.765 0031		0.234 9969	9.936 6342		796	
205	9.701 6503	130	9.765 0205	174	0.234 9795	9.936 6298	44	795	
206	9.701 6633	130	9.765 0380	175	0.234 9620	9.936 6254	44	794	
		131		174			44		
207	9.701 6764		9.765 0554		0.234 9446	9.936 6210		793	
208	9.701 6894	130	9.765 0728	174	0.234 9272	9.936 6166	44	792	
209	9.701 7024	130	9.765 0903	175	0.234 9097	9.936 6121	45	791	
		130		174			44		
.210	9.701 7154		9.765 1077		0.234 8923	9.936 6077		.790	
		130		174			44		
211	9.701 7284		9.765 1251		0.234 8749	9.936 6033		789	
212	9.701 7415	131	9.765 1426	175	0.234 8574	9.936 5989	44	788	
213	9.701 7545	130	9.765 1600	174	0.234 8400	9.936 5945	44	787	
		130		174			44		
214	9.701 7675		9.765 1774		0.234 8226	9.936 5901		786	
215	9.701 7805	130	9.765 1948	174	0.234 8052	9.936 5857	44	785	
216	9.701 7935	130	9.765 2123	175	0.234 7877	9.936 5812	45	784	
		130		174			44		
217	9.701 8065		9.765 2297		0.234 7703	9.936 5768		783	
218	9.701 8195	130	9.765 2471	174	0.234 7529	9.936 5724	44	782	
219	9.701 8326	131	9.765 2646	175	0.234 7354	9.936 5680	44	781	
		130		174			44		
.220	9.701 8456		9.765 2820		0.234 7180	9.936 5636		.780	
		130		174			44		
221	9.701 8586		9.765 2994		0.234 7006	9.936 5592		779	
222	9.701 8716	130	9.765 3168	174	0.234 6832	9.936 5548	44	778	
223	9.701 8846	130	9.765 3343	175	0.234 6657	9.936 5503	45	777	
		130		174			44		
224	9.701 8976		9.765 3517		0.234 6483	9.936 5459		776	
225	9.701 9106	130	9.765 3691	174	0.234 6309	9.936 5415	44	775	
226	9.701 9236	130	9.765 3866	175	0.234 6134	9.936 5371	44	774	
		131		174			44		
227	9.701 9367		9.765 4040		0.234 5960	9.936 5327		773	
228	9.701 9497	130	9.765 4214	174	0.234 5786	9.936 5283	44	772	
229	9.701 9627	130	9.765 4388	174	0.234 5612	9.936 5238	45	771	
		130		175			44		
.230	9.701 9757		9.765 4563		0.234 5437	9.936 5194		.770	
		130		174			44		
231	9.701 9887		9.765 4737		0.234 5263	9.936 5150		769	
232	9.702 0017	130	9.765 4911	174	0.234 5089	9.936 5106	44	768	
233	9.702 0147	130	9.765 5085	174	0.234 4915	9.936 5062	44	767	
		130		174			44		
234	9.702 0277		9.765 5259		0.234 4741	9.936 5018		766	
235	9.702 0407	130	9.765 5434	175	0.234 4566	9.936 4973	45	765	
236	9.702 0537	130	9.765 5608	174	0.234 4392	9.936 4929	44	764	
		130		174			44		
237	9.702 0667		9.765 5782		0.234 4218	9.936 4885		763	
238	9.702 0797	130	9.765 5956	174	0.234 4044	9.936 4841	44	762	
239	9.702 0927	130	9.765 6131	175	0.234 3869	9.936 4797	44	761	
		130		174			45		
.240	9.702 1057		9.765 6305		0.234 3695	9.936 4752		.760	
		130		174			44		
241	9.702 1187		9.765 6479		0.234 3521	9.936 4708		759	
242	9.702 1317	130	9.765 6653	174	0.234 3347	9.936 4664	44	758	
243	9.702 1447	130	9.765 6827	174	0.234 3173	9.936 4620	44	757	
		130		175			44		
244	9.702 1577		9.765 7002		0.234 2998	9.936 4576		756	
245	9.702 1707	130	9.765 7176	174	0.234 2824	9.936 4532	44	755	
246	9.702 1837	130	9.765 7350	174	0.234 2650	9.936 4487	45	754	
		130		174			44		
247	9.702 1967		9.765 7524		0.234 2476	9.936 4443		753	
248	9.702 2097	130	9.765 7698	174	0.234 2302	9.936 4399	44	752	
249	9.702 2227	130	9.765 7873	175	0.234 2127	9.936 4355	44	751	
		130		174			44		
.250	9.702 2357		9.765 8047		0.234 1953	9.936 4311		.750	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	175	174
1	17.5	17.4
2	35.0	34.8
3	52.5	52.2
4	70.0	69.6
5	87.5	87.0
6	105.0	104.4
7	122.5	121.8
8	140.0	139.2
9	157.5	156.6

	131
1	13.1
2	26.2
3	39.3
4	52.4
5	65.5
6	78.6
7	91.7
8	104.8
9	117.9

	130
1	13.0
2	26.0
3	39.0
4	52.0
5	65.0
6	78.0
7	91.0
8	104.0
9	117.0

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.800 — 59°.750

30°.250 — 30°.300

30°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.702 2357		9.765 8047		0.234 1953	9.936 4311		.750	
		130		174			45		
251	9.702 2487		9.765 8221		0.234 1779	9.936 4266		749	
		130		174			44		
252	9.702 2617		9.765 8395		0.234 1605	9.936 4222		748	
		130		174			44		
253	9.702 2747		9.765 8569		0.234 1431	9.936 4178		747	
		130		174			44		
254	9.702 2877		9.765 8743		0.234 1257	9.936 4134		746	
		130		175			45		
255	9.702 3007		9.765 8918		0.234 1082	9.936 4089		745	
		130		174			44		
256	9.702 3137		9.765 9092		0.234 0908	9.936 4045		744	
		130		174			44		
257	9.702 3267		9.765 9266		0.234 0734	9.936 4001		743	
		130		174			44		
258	9.702 3397		9.765 9440		0.234 0560	9.936 3957		742	
		130		174			44		
259	9.702 3527		9.765 9614		0.234 0386	9.936 3913		741	
		130		174			45		
.260	9.702 3657		9.765 9788		0.234 0212	9.936 3868		.740	
		130		175			44		
261	9.702 3787		9.765 9963		0.234 0037	9.936 3824		739	
		130		174			44		
262	9.702 3917		9.766 0137		0.233 9863	9.936 3780		738	
		130		174			44		
263	9.702 4047		9.766 0311		0.233 9689	9.936 3736		737	
		129		174			45		
264	9.702 4176		9.766 0485		0.233 9515	9.936 3691		736	
		130		174			44		
265	9.702 4306		9.766 0659		0.233 9341	9.936 3647		735	
		130		174			44		
266	9.702 4436		9.766 0833		0.233 9167	9.936 3603		734	
		130		174			44		
267	9.702 4566		9.766 1007		0.233 8993	9.936 3559		733	
		130		174			44		
268	9.702 4696		9.766 1181		0.233 8819	9.936 3515		732	
		130		175			45		
269	9.702 4826		9.766 1356		0.233 8644	9.936 3470		731	
		130		174			44		
.270	9.702 4956		9.766 1530		0.233 8470	9.936 3426		.730	
		130		174			44		
271	9.702 5086		9.766 1704		0.233 8296	9.936 3382		729	
		129		174			44		
272	9.702 5215		9.766 1878		0.233 8122	9.936 3338		728	
		130		174			45		
273	9.702 5345		9.766 2052		0.233 7948	9.936 3293		727	
		130		174			44		
274	9.702 5475		9.766 2226		0.233 7774	9.936 3249		726	
		130		174			44		
275	9.702 5605		9.766 2400		0.233 7600	9.936 3205		725	
		130		174			44		
276	9.702 5735		9.766 2574		0.233 7426	9.936 3161		724	
		130		174			45		
277	9.702 5865		9.766 2748		0.233 7252	9.936 3116		723	
		130		174			44		
278	9.702 5995		9.766 2922		0.233 7078	9.936 3072		722	
		129		175			44		
279	9.702 6124		9.766 3097		0.233 6903	9.936 3028		721	
		130		174			44		
.280	9.702 6254		9.766 3271		0.233 6729	9.936 2984		.720	
		130		174			45		
281	9.702 6384		9.766 3445		0.233 6555	9.936 2939		719	
		130		174			44		
282	9.702 6514		9.766 3619		0.233 6381	9.936 2895		718	
		130		174			44		
283	9.702 6644		9.766 3793		0.233 6207	9.936 2851		717	
		129		174			44		
284	9.702 6773		9.766 3967		0.233 6033	9.936 2807		716	
		130		174			45		
285	9.702 6903		9.766 4141		0.233 5859	9.936 2762		715	
		130		174			44		
286	9.702 7033		9.766 4315		0.233 5685	9.936 2718		714	
		130		174			44		
287	9.702 7163		9.766 4489		0.233 5511	9.936 2674		713	
		130		174			45		
288	9.702 7293		9.766 4663		0.233 5337	9.936 2629		712	
		129		174			44		
289	9.702 7422		9.766 4837		0.233 5163	9.936 2585		711	
		130		174			44		
.290	9.702 7552		9.766 5011		0.233 4989	9.936 2541		.710	
		130		174			44		
291	9.702 7682		9.766 5185		0.233 4815	9.936 2497		709	
		130		174			45		
292	9.702 7812		9.766 5359		0.233 4641	9.936 2452		708	
		129		174			44		
293	9.702 7941		9.766 5533		0.233 4467	9.936 2408		707	
		130		174			44		
294	9.702 8071		9.766 5707		0.233 4293	9.936 2364		706	
		130		174			44		
295	9.702 8201		9.766 5881		0.233 4119	9.936 2320		705	
		130		174			45		
296	9.702 8331		9.766 6055		0.233 3945	9.936 2275		704	
		129		174			44		
297	9.702 8460		9.766 6229		0.233 3771	9.936 2231		703	
		130		174			44		
298	9.702 8590		9.766 6403		0.233 3597	9.936 2187		702	
		130		174			45		
299	9.702 8720		9.766 6577		0.233 3423	9.936 2142		701	
		129		174			44		
.300	9.702 8849		9.766 6751		0.233 3249	9.936 2098		.700	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	175	174
1	17.5	17.4
2	35.0	34.8
3	52.5	52.2
4	70.0	69.6
5	87.5	87.0
6	105.0	104.4
7	122.5	121.8
8	140.0	139.2
9	157.5	156.6

	130
1	13.0
2	26.0
3	39.0
4	52.0
5	65.0
6	78.0
7	91.0
8	104.0
9	117.0

	129
1	12.9
2	25.8
3	38.7
4	51.6
5	64.5
6	77.4
7	90.3
8	103.2
9	116.1

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.750 — 59°.700

30°.300 — 30°.350

30°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.702 8849		9.766 6751		0.233 3249	9.936 2098		.700	
		130		174			44		
301	9.702 8979		9.766 6925		0.233 3075	9.936 2054		699	
302	9.702 9109	130	9.766 7099	174	0.233 2901	9.936 2009	45	698	
303	9.702 9239	130	9.766 7273	174	0.233 2727	9.936 1965	44	697	
		129		174			44		
304	9.702 9368		9.766 7447		0.233 2553	9.936 1921		696	
305	9.702 9498	130	9.766 7621	174	0.233 2379	9.936 1877	44	695	
306	9.702 9628	130	9.766 7795	174	0.233 2205	9.936 1832	45	694	
		129		174			44		
307	9.702 9757		9.766 7969		0.233 2031	9.936 1788		693	
308	9.702 9887	130	9.766 8143	174	0.233 1857	9.936 1744	44	692	
309	9.703 0017	130	9.766 8317	174	0.233 1683	9.936 1699	45	691	
		129		174			44		
.310	9.703 0146		9.766 8491		0.233 1509	9.936 1655		.690	
		130		174			44		
311	9.703 0276		9.766 8665		0.233 1335	9.936 1611		689	
312	9.703 0406	130	9.766 8839	174	0.233 1161	9.936 1566	45	688	
313	9.703 0535	129	9.766 9013	174	0.233 0987	9.936 1522	44	687	
		130		174			44		
314	9.703 0665		9.766 9187		0.233 0813	9.936 1478		686	
315	9.703 0795	130	9.766 9361	174	0.233 0639	9.936 1433	45	685	
316	9.703 0924	129	9.766 9535	174	0.233 0465	9.936 1389	44	684	
		130		174			44		
317	9.703 1054		9.766 9709		0.233 0291	9.936 1345		683	
318	9.703 1184	130	9.766 9883	174	0.233 0117	9.936 1300	45	682	
319	9.703 1313	129	9.767 0057	174	0.232 9943	9.936 1256	44	681	
		130		174			44		
.320	9.703 1443		9.767 0231		0.232 9769	9.936 1212		.680	
		129		174			44		
321	9.703 1572		9.767 0405		0.232 9595	9.936 1168		679	
322	9.703 1702	130	9.767 0579	174	0.232 9421	9.936 1123	45	678	
323	9.703 1832	130	9.767 0753	174	0.232 9247	9.936 1079	44	677	
		129		174			44		
324	9.703 1961		9.767 0927		0.232 9073	9.936 1035		676	
325	9.703 2091	130	9.767 1101	174	0.232 8899	9.936 0990	45	675	
326	9.703 2220	129	9.767 1274	173	0.232 8726	9.936 0946	44	674	
		130		174			45		
327	9.703 2350		9.767 1448		0.232 8552	9.936 0901		673	
328	9.703 2479	129	9.767 1622	174	0.232 8378	9.936 0857	44	672	
329	9.703 2609	130	9.767 1796	174	0.232 8204	9.936 0813	44	671	
		130		174			45		
.330	9.703 2739		9.767 1970		0.232 8030	9.936 0768		.670	
		129		174			44		
331	9.703 2868		9.767 2144		0.232 7856	9.936 0724		669	
332	9.703 2998	130	9.767 2318	174	0.232 7682	9.936 0680	44	668	
333	9.703 3127	129	9.767 2492	174	0.232 7508	9.936 0635	45	667	
		130		174			44		
334	9.703 3257		9.767 2666		0.232 7334	9.936 0591		666	
335	9.703 3386	129	9.767 2840	174	0.232 7160	9.936 0547	44	665	
336	9.703 3516	130	9.767 3013	173	0.232 6987	9.936 0502	45	664	
		129		174			44		
337	9.703 3645		9.767 3187		0.232 6813	9.936 0458		663	
338	9.703 3775	130	9.767 3361	174	0.232 6639	9.936 0414	44	662	
339	9.703 3904	129	9.767 3535	174	0.232 6465	9.936 0369	45	661	
		130		174			44		
.340	9.703 4034		9.767 3709		0.232 6291	9.936 0325		.660	
		129		174			44		
341	9.703 4163		9.767 3883		0.232 6117	9.936 0281		659	
342	9.703 4293	130	9.767 4057	174	0.232 5943	9.936 0236	45	658	
343	9.703 4422	129	9.767 4231	174	0.232 5769	9.936 0192	44	657	
		130		173			45		
344	9.703 4552		9.767 4404		0.232 5596	9.936 0147		656	
345	9.703 4681	129	9.767 4578	174	0.232 5422	9.936 0103	44	655	
346	9.703 4811	130	9.767 4752	174	0.232 5248	9.936 0059	44	654	
		129		174			45		
347	9.703 4940		9.767 4926		0.232 5074	9.936 0014		653	
348	9.703 5070	130	9.767 5100	174	0.232 4900	9.935 9970	44	652	
349	9.703 5199	129	9.767 5274	174	0.232 4726	9.935 9926	44	651	
		130		174			45		
.350	9.703 5329		9.767 5448		0.232 4552	9.935 9881		.650	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	174	173
1	17.4	17.3
2	34.8	34.6
3	52.2	51.9
4	69.6	69.2
5	87.0	86.5
6	104.4	103.8
7	121.8	121.1
8	139.2	138.4
9	156.6	155.7

	130
1	13.0
2	26.0
3	39.0
4	52.0
5	65.0
6	78.0
7	91.0
8	104.0
9	117.0

	129
1	12.9
2	25.8
3	38.7
4	51.6
5	64.5
6	77.4
7	90.3
8	103.2
9	116.1

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.700 — 59°.650

30°.350 — 30°.400

30°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.703 5329		9.767 5448		0.232 4552	9.935 9881		**.650**	
		129		173			44		
351	9.703 5458		9.767 5621		0.232 4379	9.935 9837		649	
		130		174			45		
352	9.703 5588		9.767 5795		0.232 4205	9.935 9792		648	
		129		174			44		
353	9.703 5717		9.767 5969		0.232 4031	9.935 9748		647	
		129		174			44		
354	9.703 5846		9.767 6143		0.232 3857	9.935 9704		646	
		130		174			45		
355	9.703 5976		9.767 6317		0.232 3683	9.935 9659		645	
		129		173			44		
356	9.703 6105		9.767 6490		0.232 3510	9.935 9615		644	
		130		174			45		
357	9.703 6235		9.767 6664		0.232 3336	9.935 9570		643	
		129		174			44		
358	9.703 6364		9.767 6838		0.232 3162	9.935 9526		642	
		130		174			44		
359	9.703 6494		9.767 7012		0.232 2988	9.935 9482		641	
		129		174			45		
.360	9.703 6623		9.767 7186		0.232 2814	9.935 9437		**.640**	
		129		174			44		
361	9.703 6752		9.767 7360		0.232 2640	9.935 9393		639	
		130		173			45		
362	9.703 6882		9.767 7533		0.232 2467	9.935 9348		638	
		129		174			44		
363	9.703 7011		9.767 7707		0.232 2293	9.935 9304		637	
		130		174			44		
364	9.703 7141		9.767 7881		0.232 2119	9.935 9260		636	
		129		174			45		
365	9.703 7270		9.767 8055		0.232 1945	9.935 9215		635	
		129		173			44		
366	9.703 7399		9.767 8228		0.232 1772	9.935 9171		634	
		130		174			45		
367	9.703 7529		9.767 8402		0.232 1598	9.935 9126		633	
		129		174			44		
368	9.703 7658		9.767 8576		0.232 1424	9.935 9082		632	
		129		174			44		
369	9.703 7787		9.767 8750		0.232 1250	9.935 9038		631	
		130		174			45		
.370	9.703 7917		9.767 8924		0.232 1076	9.935 8993		**.630**	
		129		173			44		
371	9.703 8046		9.767 9097		0.232 0903	9.935 8949		629	
		129		174			45		
372	9.703 8175		9.767 9271		0.232 0729	9.935 8904		628	
		130		174			44		
373	9.703 8305		9.767 9445		0.232 0555	9.935 8860		627	
		129		174			44		
374	9.703 8434		9.767 9619		0.232 0381	9.935 8816		626	
		129		173			45		
375	9.703 8563		9.767 9792		0.232 0208	9.935 8771		625	
		130		174			44		
376	9.703 8693		9.767 9966		0.232 0034	9.935 8727		624	
		129		174			45		
377	9.703 8822		9.768 0140		0.231 9860	9.935 8682		623	
		129		174			44		
378	9.703 8951		9.768 0314		0.231 9686	9.935 8638		622	
		130		173			45		
379	9.703 9081		9.768 0487		0.231 9513	9.935 8593		621	
		129		174			44		
.380	9.703 9210		9.768 0661		0.231 9339	9.935 8549		**.620**	
		129		174			45		
381	9.703 9339		9.768 0835		0.231 9165	9.935 8504		619	
		130		174			44		
382	9.703 9469		9.768 1009		0.231 8991	9.935 8460		618	
		129		173			44		
383	9.703 9598		9.768 1182		0.231 8818	9.935 8416		617	
		129		174			45		
384	9.703 9727		9.768 1356		0.231 8644	9.935 8371		616	
		129		174			44		
385	9.703 9856		9.768 1530		0.231 8470	9.935 8327		615	
		130		173			45		
386	9.703 9986		9.768 1703		0.231 8297	9.935 8282		614	
		129		174			44		
387	9.704 0115		9.768 1877		0.231 8123	9.935 8238		613	
		129		174			45		
388	9.704 0244		9.768 2051		0.231 7949	9.935 8193		612	
		129		174			44		
389	9.704 0373		9.768 2225		0.231 7775	9.935 8149		611	
		130		173			45		
.390	9.704 0503		9.768 2398		0.231 7602	9.935 8104		**.610**	
		129		174			44		
391	9.704 0632		9.768 2572		0.231 7428	9.935 8060		609	
		129		174			44		
392	9.704 0761		9.768 2746		0.231 7254	9.935 8016		608	
		129		173			45		
393	9.704 0890		9.768 2919		0.231 7081	9.935 7971		607	
		130		174			44		
394	9.704 1020		9.768 3093		0.231 6907	9.935 7927		606	
		129		174			45		
395	9.704 1149		9.768 3267		0.231 6733	9.935 7882		605	
		129		173			44		
396	9.704 1278		9.768 3440		0.231 6560	9.935 7838		604	
		129		174			45		
397	9.704 1407		9.768 3614		0.231 6386	9.935 7793		603	
		130		174			44		
398	9.704 1537		9.768 3788		0.231 6212	9.935 7749		602	
		129		173			45		
399	9.704 1666		9.768 3961		0.231 6039	9.935 7704		601	
		129		174			44		
.400	9.704 1795		9.768 4135		0.231 5865	9.935 7660		**.600**	
	cos	d	cotg	d	tang	sin	d	**59°**	P.P.

	174	173
1	17.4	17.3
2	34.8	34.6
3	52.2	51.9
4	69.6	69.2
5	87.0	86.5
6	104.4	103.8
7	121.8	121.1
8	139.2	138.4
9	156.6	155.7

	130	129
1	13.0	12.9
2	26.0	25.8
3	39.0	38.7
4	52.0	51.6
5	65.0	64.5
6	78.0	77.4
7	91.0	90.3
8	104.0	103.2
9	117.0	116.1

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.650 — 59°.600

30°.400 — 30°.450

30°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.704 1795		9.768 4135		0.231 5865	9.935 7660		.600	
		129		174			45		
401	9.704 1924		9.768 4309		0.231 5691	9.935 7615		599	
402	9.704 2053	129	9.768 4482	173	0.231 5518	9.935 7571	44	598	
403	9.704 2183	130	9.768 4656	174	0.231 5344	9.935 7526	45	597	
		129		174			44		
404	9.704 2312		9.768 4830		0.231 5170	9.935 7482		596	
405	9.704 2441	129	9.768 5003	173	0.231 4997	9.935 7437	45	595	
406	9.704 2570	129	9.768 5177	174	0.231 4823	9.935 7393	44	594	
		129		174			44		
407	9.704 2699		9.768 5351		0.231 4649	9.935 7349		593	
408	9.704 2828	129	9.768 5524	173	0.231 4476	9.935 7304	45	592	
409	9.704 2958	130	9.768 5698	174	0.231 4302	9.935 7260	44	591	
		129		174			45		
.410	9.704 3087		9.768 5872		0.231 4128	9.935 7215		.590	
		129		173			44		
411	9.704 3216		9.768 6045		0.231 3955	9.935 7171		589	
412	9.704 3345	129	9.768 6219	174	0.231 3781	9.935 7126	45	588	
413	9.704 3474	129	9.768 6392	173	0.231 3608	9.935 7082	44	587	
		129		174			45		
414	9.704 3603		9.768 6566		0.231 3434	9.935 7037		586	
415	9.704 3732	129	9.768 6740	174	0.231 3260	9.935 6993	44	585	
416	9.704 3861	129	9.768 6913	173	0.231 3087	9.935 6948	45	584	
		130		174			44		
417	9.704 3991		9.768 7087		0.231 2913	9.935 6904		583	
418	9.704 4120	129	9.768 7261	174	0.231 2739	9.935 6859	45	582	
419	9.704 4249	129	9.768 7434	173	0.231 2566	9.935 6815	44	581	
		129		174			45		
.420	9.704 4378		9.768 7608		0.231 2392	9.935 6770		.580	
		129		173			44		
421	9.704 4507		9.768 7781		0.231 2219	9.935 6726		579	
422	9.704 4636	129	9.768 7955	174	0.231 2045	9.935 6681	45	578	
423	9.704 4765	129	9.768 8129	174	0.231 1871	9.935 6637	44	577	
		129		173			45		
424	9.704 4894		9.768 8302		0.231 1698	9.935 6592		576	
425	9.704 5023	129	9.768 8476	174	0.231 1524	9.935 6548	44	575	
426	9.704 5152	129	9.768 8649	173	0.231 1351	9.935 6503	45	574	
		129		174			44		
427	9.704 5281		9.768 8823		0.231 1177	9.935 6459		573	
428	9.704 5410	129	9.768 8996	173	0.231 1004	9.935 6414	45	572	
429	9.704 5539	129	9.768 9170	174	0.231 0830	9.935 6369	45	571	
		130		174			44		
.430	9.704 5669		9.768 9344		0.231 0656	9.935 6325		.570	
		129		173			45		
431	9.704 5798		9.768 9517		0.231 0483	9.935 6280		569	
432	9.704 5927	129	9.768 9691	174	0.231 0309	9.935 6236	44	568	
433	9.704 6056	129	9.768 9864	173	0.231 0136	9.935 6191	45	567	
		129		174			44		
434	9.704 6185		9.769 0038		0.230 9962	9.935 6147		566	
435	9.704 6314	129	9.769 0211	173	0.230 9789	9.935 6102	45	565	
436	9.704 6443	129	9.769 0385	174	0.230 9615	9.935 6058	44	564	
		129		173			45		
437	9.704 6572		9.769 0558		0.230 9442	9.935 6013		563	
438	9.704 6701	129	9.769 0732	174	0.230 9268	9.935 5969	44	562	
439	9.704 6830	129	9.769 0906	174	0.230 9094	9.935 5924	45	561	
		129		173			44		
.440	9.704 6959		9.769 1079		0.230 8921	9.935 5880		.560	
		129		174			45		
441	9.704 7088		9.769 1253		0.230 8747	9.935 5835		559	
442	9.704 7217	129	9.769 1426	173	0.230 8574	9.935 5791	44	558	
443	9.704 7346	129	9.769 1600	174	0.230 8400	9.935 5746	45	557	
		129		173			45		
444	9.704 7475		9.769 1773		0.230 8227	9.935 5701		556	
445	9.704 7604	129	9.769 1947	174	0.230 8053	9.935 5657	44	555	
446	9.704 7732	128	9.769 2120	173	0.230 7880	9.935 5612	45	554	
		129		174			44		
447	9.704 7861		9.769 2294		0.230 7706	9.935 5568		553	
448	9.704 7990	129	9.769 2467	173	0.230 7533	9.935 5523	45	552	
449	9.704 8119	129	9.769 2641	174	0.230 7359	9.935 5479	44	551	
		129		173			45		
.450	9.704 8248		9.769 2814		0.230 7186	9.935 5434		.550	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	174	173
1	17.4	17.3
2	34.8	34.6
3	52.2	51.9
4	69.6	69.2
5	87.0	86.5
6	104.4	103.8
7	121.8	121.1
8	139.2	138.4
9	156.6	155.7

	130	129
1	13.0	12.9
2	26.0	25.8
3	39.0	38.7
4	52.0	51.6
5	65.0	64.5
6	78.0	77.4
7	91.0	90.3
8	104.0	103.2
9	117.0	116.1

	128
1	12.8
2	25.6
3	38.4
4	51.2
5	64.0
6	76.8
7	89.6
8	102.4
9	115.2

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.600 — 59°.550

30°.450 — 30°.500

30°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.704 8248		9.769 2814		0.230 7186	9.935 5434		.550	
		129		174			44		
451	9.704 8377		9.769 2988		0.230 7012	9.935 5390		549	
452	9.704 8506	129	9.769 3161	173	0.230 6839	9.935 5345	45	548	
453	9.704 8635	129	9.769 3335	174	0.230 6665	9.935 5300	45	547	
		129		173			44		
454	9.704 8764		9.769 3508		0.230 6492	9.935 5256		546	
455	9.704 8893	129	9.769 3682	174	0.230 6318	9.935 5211	45	545	
456	9.704 9022	129	9.769 3855	173	0.230 6145	9.935 5167	44	544	
		129		174			45		
457	9.704 9151		9.769 4029		0.230 5971	9.935 5122		543	
458	9.704 9280	129	9.769 4202	173	0.230 5798	9.935 5078	44	542	
459	9.704 9409	129	9.769 4376	174	0.230 5624	9.935 5033	45	541	
		128		173			45		
.460	9.704 9537		9.769 4549		0.230 5451	9.935 4988		.540	
		129		173			44		
461	9.704 9666		9.769 4722		0.230 5278	9.935 4944		539	
462	9.704 9795	129	9.769 4896	174	0.230 5104	9.935 4899	45	538	
463	9.704 9924	129	9.769 5069	173	0.230 4931	9.935 4855	44	537	
		129		174			45		
464	9.705 0053		9.769 5243		0.230 4757	9.935 4810		536	
465	9.705 0182	129	9.769 5416	173	0.230 4584	9.935 4766	44	535	
466	9.705 0311	129	9.769 5590	174	0.230 4410	9.935 4721	45	534	
		128		173			45		
467	9.705 0439		9.769 5763		0.230 4237	9.935 4676		533	
468	9.705 0568	129	9.769 5937	174	0.230 4063	9.935 4632	44	532	
469	9.705 0697	129	9.769 6110	173	0.230 3890	9.935 4587	45	531	
		129		173			44		
.470	9.705 0826		9.769 6283		0.230 3717	9.935 4543		.530	
		129		174			45		
471	9.705 0955		9.769 6457		0.230 3543	9.935 4498		529	
472	9.705 1084	129	9.769 6630	173	0.230 3370	9.935 4453	45	528	
473	9.705 1212	128	9.769 6804	174	0.230 3196	9.935 4409	44	527	
		129		173			45		
474	9.705 1341		9.769 6977		0.230 3023	9.935 4364		526	
475	9.705 1470	129	9.769 7151	174	0.230 2849	9.935 4320	44	525	
476	9.705 1599	129	9.769 7324	173	0.230 2676	9.935 4275	45	524	
		129		173			45		
477	9.705 1728		9.769 7497		0.230 2503	9.935 4230		523	
478	9.705 1857	129	9.769 7671	174	0.230 2329	9.935 4186	44	522	
479	9.705 1985	128	9.769 7844	173	0.230 2156	9.935 4141	45	521	
		129		174			44		
.480	9.705 2114		9.769 8018		0.230 1982	9.935 4097		.520	
		129		173			45		
481	9.705 2243		9.769 8191		0.230 1809	9.935 4052		519	
482	9.705 2372	129	9.769 8364	173	0.230 1636	9.935 4007	45	518	
483	9.705 2500	128	9.769 8538	174	0.230 1462	9.935 3963	44	517	
		129		173			45		
484	9.705 2629		9.769 8711		0.230 1289	9.935 3918		516	
485	9.705 2758	129	9.769 8885	174	0.230 1115	9.935 3873	45	515	
486	9.705 2887	129	9.769 9058	173	0.230 0942	9.935 3829	44	514	
		128		173			45		
487	9.705 3015		9.769 9231		0.230 0769	9.935 3784		513	
488	9.705 3144	129	9.769 9405	174	0.230 0595	9.935 3740	44	512	
489	9.705 3273	129	9.769 9578	173	0.230 0422	9.935 3695	45	511	
		129		173			45		
.490	9.705 3402		9.769 9751		0.230 0249	9.935 3650		.510	
		128		174			44		
491	9.705 3530		9.769 9925		0.230 0075	9.935 3606		509	
492	9.705 3659	129	9.770 0098	173	0.229 9902	9.935 3561	45	508	
493	9.705 3788	129	9.770 0271	173	0.229 9729	9.935 3516	45	507	
		129		174			44		
494	9.705 3917		9.770 0445		0.229 9555	9.935 3472		506	
495	9.705 4045	128	9.770 0618	173	0.229 9382	9.935 3427	45	505	
496	9.705 4174	129	9.770 0792	174	0.229 9208	9.935 3382	45	504	
		129		173			44		
497	9.705 4303		9.770 0965		0.229 9035	9.935 3338		503	
498	9.705 4431	128	9.770 1138	173	0.229 8862	9.935 3293	45	502	
499	9.705 4560	129	9.770 1312	174	0.229 8688	9.935 3249	44	501	
		129		173			45		
.500	9.705 4689		9.770 1485		0.229 8515	9.935 3204		.500	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	174	173
1	17.4	17.3
2	34.8	34.6
3	52.2	51.9
4	69.6	69.2
5	87.0	86.5
6	104.4	103.8
7	121.8	121.1
8	139.2	138.4
9	156.6	155.7

	129	128
1	12.9	12.8
2	25.8	25.6
3	38.7	38.4
4	51.6	51.2
5	64.5	64.0
6	77.4	76.8
7	90.3	89.6
8	103.2	102.4
9	116.1	115.2

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.550 — 59°.500

30°.500 — 30°.550

30°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.705 4689		9.770 1485		0.229 8515	9.935 3204		.500	
		128		173			45		
501	9.705 4817		9.770 1658		0.229 8342	9.935 3159		499	
502	9.705 4946	129	9.770 1832	174	0.229 8168	9.935 3115	44	498	
503	9.705 5075	129	9.770 2005	173	0.229 7995	9.935 3070	45	497	
		128		173			45		
504	9.705 5203		9.770 2178		0.229 7822	9.935 3025		496	
505	9.705 5332	129	9.770 2351	173	0.229 7649	9.935 2981	44	495	
506	9.705 5461	129	9.770 2525	174	0.229 7475	9.935 2936	45	494	
		128		173			45		
507	9.705 5589		9.770 2698		0.229 7302	9.935 2891		493	
508	9.705 5718	129	9.770 2871	173	0.229 7129	9.935 2847	44	492	
509	9.705 5847	129	9.770 3045	174	0.229 6955	9.935 2802	45	491	
		128		173			45		
.510	9.705 5975		9.770 3218		0.229 6782	9.935 2757		.490	
		129		173			44		
511	9.705 6104		9.770 3391		0.229 6609	9.935 2713		489	
512	9.705 6233	129	9.770 3565	174	0.229 6435	9.935 2668	45	488	
513	9.705 6361	128	9.770 3738	173	0.229 6262	9.935 2623	45	487	
		129		173			44		
514	9.705 6490		9.770 3911		0.229 6089	9.935 2579		486	
515	9.705 6618	128	9.770 4084	173	0.229 5916	9.935 2534	45	485	
516	9.705 6747	129	9.770 4258	174	0.229 5742	9.935 2489	45	484	
		129		173			44		
517	9.705 6876		9.770 4431		0.229 5569	9.935 2445		483	
518	9.705 7004	128	9.770 4604	173	0.229 5396	9.935 2400	45	482	
519	9.705 7133	129	9.770 4778	174	0.229 5222	9.935 2355	45	481	
		128		173			44		
.520	9.705 7261		9.770 4951		0.229 5049	9.935 2311		.480	
		129		173			45		
521	9.705 7390		9.770 5124		0.229 4876	9.935 2266		479	
522	9.705 7518	128	9.770 5297	173	0.229 4703	9.935 2221	45	478	
523	9.705 7647	129	9.770 5471	174	0.229 4529	9.935 2176	45	477	
		129		173			44		
524	9.705 7776		9.770 5644		0.229 4356	9.935 2132		476	
525	9.705 7904	128	9.770 5817	173	0.229 4183	9.935 2087	45	475	
526	9.705 8033	129	9.770 5990	173	0.229 4010	9.935 2042	45	474	
		128		174			44		
527	9.705 8161		9.770 6164		0.229 3836	9.935 1998		473	
528	9.705 8290	129	9.770 6337	173	0.229 3663	9.935 1953	45	472	
529	9.705 8418	128	9.770 6510	173	0.229 3490	9.935 1908	45	471	
		129		173			44		
.530	9.705 8547		9.770 6683		0.229 3317	9.935 1864		.470	
		128		173			45		
531	9.705 8675		9.770 6856		0.229 3144	9.935 1819		469	
532	9.705 8804	129	9.770 7030	174	0.229 2970	9.935 1774	45	468	
533	9.705 8932	128	9.770 7203	173	0.229 2797	9.935 1730	44	467	
		129		173			45		
534	9.705 9061		9.770 7376		0.229 2624	9.935 1685		466	
535	9.705 9189	128	9.770 7549	173	0.229 2451	9.935 1640	45	465	
536	9.705 9318	129	9.770 7723	174	0.229 2277	9.935 1595	45	464	
		128		173			44		
537	9.705 9446		9.770 7896		0.229 2104	9.935 1551		463	
538	9.705 9575	129	9.770 8069	173	0.229 1931	9.935 1506	45	462	
539	9.705 9703	128	9.770 8242	173	0.229 1758	9.935 1461	45	461	
		129		173			44		
.540	9.705 9832		9.770 8415		0.229 1585	9.935 1417		.460	
		128		174			45		
541	9.705 9960		9.770 8589		0.229 1411	9.935 1372		459	
542	9.706 0089	129	9.770 8762	173	0.229 1238	9.935 1327	45	458	
543	9.706 0217	128	9.770 8935	173	0.229 1065	9.935 1282	45	457	
		129		173			44		
544	9.706 0346		9.770 9108		0.229 0892	9.935 1238		456	
545	9.706 0474	128	9.770 9281	173	0.229 0719	9.935 1193	45	455	
546	9.706 0603	129	9.770 9454	173	0.229 0546	9.935 1148	45	454	
		128		174			45		
547	9.706 0731		9.770 9628		0.229 0372	9.935 1103		453	
548	9.706 0860	129	9.770 9801	173	0.229 0199	9.935 1059	44	452	
549	9.706 0988	128	9.770 9974	173	0.229 0026	9.935 1014	45	451	
		128		173			45		
.550	9.706 1116		9.771 0147		0.228 9853	9.935 0969		.450	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	174	173
1	17.4	17.3
2	34.8	34.6
3	52.2	51.9
4	69.6	69.2
5	87.0	86.5
6	104.4	103.8
7	121.8	121.1
8	139.2	138.4
9	156.6	155.7

	129	128
1	12.9	12.8
2	25.8	25.6
3	38.7	38.4
4	51.6	51.2
5	64.5	64.0
6	77.4	76.8
7	90.3	89.6
8	103.2	102.4
9	116.1	115.2

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.500 — 59°.450

30°.550 — 30°.600

30°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.706 1116		9.771 0147		0.228 9853	9.935 0969		.450	
		129		173			45		
551	9.706 1245		9.771 0320		0.228 9680	9.935 0924		449	
		128		173			44		
552	9.706 1373		9.771 0493		0.228 9507	9.935 0880		448	
		129		174			45		
553	9.706 1502		9.771 0667		0.228 9333	9.935 0835		447	
		128		173			45		
554	9.706 1630		9.771 0840		0.228 9160	9.935 0790		446	
		128		173			44		
555	9.706 1758		9.771 1013		0.228 8987	9.935 0746		445	
		129		173			45		
556	9.706 1887		9.771 1186		0.228 8814	9.935 0701		444	
		128		173			45		
557	9.706 2015		9.771 1359		0.228 8641	9.935 0656		443	
		129		173			45		
558	9.706 2144		9.771 1532		0.228 8468	9.935 0611		442	
		128		173			44		
559	9.706 2272		9.771 1705		0.228 8295	9.935 0567		441	
		128		174			45		
.560	9.706 2400		9.771 1879		0.228 8121	9.935 0522		.440	
		129		173			45		
561	9.706 2529		9.771 2052		0.228 7948	9.935 0477		439	
		128		173			45		
562	9.706 2657		9.771 2225		0.228 7775	9.935 0432		438	
		128		173			45		
563	9.706 2785		9.771 2398		0.228 7602	9.935 0387		437	
		129		173			44		
564	9.706 2914		9.771 2571		0.228 7429	9.935 0343		436	
		128		173			45		
565	9.706 3042		9.771 2744		0.228 7256	9.935 0298		435	
		128		173			45		
566	9.706 3170		9.771 2917		0.228 7083	9.935 0253		434	
		129		173			45		
567	9.706 3299		9.771 3090		0.228 6910	9.935 0208		433	
		128		174			44		
568	9.706 3427		9.771 3264		0.228 6736	9.935 0164		432	
		129		173			45		
569	9.706 3556		9.771 3437		0.228 6563	9.935 0119		431	
		128		173			45		
.570	9.706 3684		9.771 3610		0.228 6390	9.935 0074		.430	
		128		173			45		
571	9.706 3812		9.771 3783		0.228 6217	9.935 0029		429	
		128		173			44		
572	9.706 3940		9.771 3956		0.228 6044	9.934 9985		428	
		129		173			45		
573	9.706 4069		9.771 4129		0.228 5871	9.934 9940		427	
		128		173			45		
574	9.706 4197		9.771 4302		0.228 5698	9.934 9895		426	
		128		173			45		
575	9.706 4325		9.771 4475		0.228 5525	9.934 9850		425	
		129		173			45		
576	9.706 4454		9.771 4648		0.228 5352	9.934 9805		424	
		128		173			44		
577	9.706 4582		9.771 4821		0.228 5179	9.934 9761		423	
		128		173			45		
578	9.706 4710		9.771 4994		0.228 5006	9.934 9716		422	
		129		173			45		
579	9.706 4839		9.771 5167		0.228 4833	9.934 9671		421	
		128		174			45		
.580	9.706 4967		9.771 5341		0.228 4659	9.934 9626		.420	
		128		173			45		
581	9.706 5095		9.771 5514		0.228 4486	9.934 9581		419	
		128		173			44		
582	9.706 5223		9.771 5687		0.228 4313	9.934 9537		418	
		129		173			45		
583	9.706 5352		9.771 5860		0.228 4140	9.934 9492		417	
		128		173			45		
584	9.706 5480		9.771 6033		0.228 3967	9.934 9447		416	
		128		173			45		
585	9.706 5608		9.771 6206		0.228 3794	9.934 9402		415	
		128		173			45		
586	9.706 5736		9.771 6379		0.228 3621	9.934 9357		414	
		129		173			44		
587	9.706 5865		9.771 6552		0.228 3448	9.934 9313		413	
		128		173			45		
588	9.706 5993		9.771 6725		0.228 3275	9.934 9268		412	
		128		173			45		
589	9.706 6121		9.771 6898		0.228 3102	9.934 9223		411	
		128		173			45		
.590	9.706 6249		9.771 7071		0.228 2929	9.934 9178		.410	
		128		173			45		
591	9.706 6377		9.771 7244		0.228 2756	9.934 9133		409	
		129		173			44		
592	9.706 6506		9.771 7417		0.228 2583	9.934 9089		408	
		128		173			45		
593	9.706 6634		9.771 7590		0.228 2410	9.934 9044		407	
		128		173			45		
594	9.706 6762		9.771 7763		0.228 2237	9.934 8999		406	
		128		173			45		
595	9.706 6890		9.771 7936		0.228 2064	9.934 8954		405	
		128		173			45		
596	9.706 7018		9.771 8109		0.228 1891	9.934 8909		404	
		129		173			44		
597	9.706 7147		9.771 8282		0.228 1718	9.934 8865		403	
		128		173			45		
598	9.706 7275		9.771 8455		0.228 1545	9.934 8820		402	
		128		173			45		
599	9.706 7403		9.771 8628		0.228 1372	9.934 8775		401	
		128		173			45		
.600	9.706 7531		9.771 8801		0.228 1199	9.934 8730		.400	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	174	173
1	17.4	17.3
2	34.8	34.6
3	52.2	51.9
4	69.6	69.2
5	87.0	86.5
6	104.4	103.8
7	121.8	121.1
8	139.2	138.4
9	156.6	155.7

	129	128
1	12.9	12.8
2	25.8	25.6
3	38.7	38.4
4	51.6	51.2
5	64.5	64.0
6	77.4	76.8
7	90.3	89.6
8	103.2	102.4
9	116.1	115.2

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.450 — 59°.400

30°.600 — 30°.650

30°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.706 7531		9.771 8801		0.228 1199	9.934 8730		.400	
		128		173			45		
601	9.706 7659		9.771 8974		0.228 1026	9.934 8685		399	
602	9.706 7788	129	9.771 9147	173	0.228 0853	9.934 8640	45	398	
603	9.706 7916	128	9.771 9320	173	0.228 0680	9.934 8596	44	397	
		128		173			45		
604	9.706 8044		9.771 9493		0.228 0507	9.934 8551		396	
605	9.706 8172	128	9.771 9666	173	0.228 0334	9.934 8506	45	395	
606	9.706 8300	128	9.771 9839	173	0.228 0161	9.934 8461	45	394	
		128		173			45		
607	9.706 8428		9.772 0012		0.227 9988	9.934 8416		393	
608	9.706 8556	128	9.772 0185	173	0.227 9815	9.934 8371	45	392	
609	9.706 8684	128	9.772 0358	173	0.227 9642	9.934 8327	44	391	
		129		173			45		
.610	9.706 8813		9.772 0531		0.227 9469	9.934 8282		.390	
		128		173			45		
611	9.706 8941		9.772 0704		0.227 9296	9.934 8237		389	
612	9.706 9069	128	9.772 0877	173	0.227 9123	9.934 8192	45	388	
613	9.706 9197	128	9.772 1050	173	0.227 8950	9.934 8147	45	387	
		128		173			45		
614	9.706 9325		9.772 1223		0.227 8777	9.934 8102		386	
615	9.706 9453	128	9.772 1396	173	0.227 8604	9.934 8057	45	385	
616	9.706 9581	128	9.772 1569	173	0.227 8431	9.934 8013	44	384	
		128		173			45		
617	9.706 9709		9.772 1742		0.227 8258	9.934 7968		383	
618	9.706 9837	128	9.772 1914	172	0.227 8086	9.934 7923	45	382	
619	9.706 9965	128	9.772 2087	173	0.227 7913	9.934 7878	45	381	
		129		173			45		
.620	9.707 0094		9.772 2260		0.227 7740	9.934 7833		.380	
		128		173			45		
621	9.707 0222		9.772 2433		0.227 7567	9.934 7788		379	
622	9.707 0350	128	9.772 2606	173	0.227 7394	9.934 7743	45	378	
623	9.707 0478	128	9.772 2779	173	0.227 7221	9.934 7699	44	377	
		128		173			45		
624	9.707 0606		9.772 2952		0.227 7048	9.934 7654		376	
625	9.707 0734	128	9.772 3125	173	0.227 6875	9.934 7609	45	375	
626	9.707 0862	128	9.772 3298	173	0.227 6702	9.934 7564	45	374	
		128		173			45		
627	9.707 0990		9.772 3471		0.227 6529	9.934 7519		373	
628	9.707 1118	128	9.772 3644	173	0.227 6356	9.934 7474	45	372	
629	9.707 1246	128	9.772 3817	173	0.227 6183	9.934 7429	45	371	
		128		172			45		
.630	9.707 1374		9.772 3989		0.227 6011	9.934 7384		.370	
		128		173			44		
631	9.707 1502		9.772 4162		0.227 5838	9.934 7340		369	
632	9.707 1630	128	9.772 4335	173	0.227 5665	9.934 7295	45	368	
633	9.707 1758	128	9.772 4508	173	0.227 5492	9.934 7250	45	367	
		128		173			45		
634	9.707 1886		9.772 4681		0.227 5319	9.934 7205		366	
635	9.707 2014	128	9.772 4854	173	0.227 5146	9.934 7160	45	365	
636	9.707 2142	128	9.772 5027	173	0.227 4973	9.934 7115	45	364	
		128		173			45		
637	9.707 2270		9.772 5200		0.227 4800	9.934 7070		363	
638	9.707 2398	128	9.772 5373	173	0.227 4627	9.934 7025	45	362	
639	9.707 2526	128	9.772 5545	172	0.227 4455	9.934 6980	45	361	
		128		173			44		
.640	9.707 2654		9.772 5718		0.227 4282	9.934 6936		.360	
		128		173			45		
641	9.707 2782		9.772 5891		0.227 4109	9.934 6891		359	
642	9.707 2910	128	9.772 6064	173	0.227 3936	9.934 6846	45	358	
643	9.707 3038	128	9.772 6237	173	0.227 3763	9.934 6801	45	357	
		128		173			45		
644	9.707 3166		9.772 6410		0.227 3590	9.934 6756		356	
645	9.707 3294	128	9.772 6583	173	0.227 3417	9.934 6711	45	355	
646	9.707 3422	128	9.772 6755	172	0.227 3245	9.934 6666	45	354	
		127		173			45		
647	9.707 3549		9.772 6928		0.227 3072	9.934 6621		353	
648	9.707 3677	128	9.772 7101	173	0.227 2899	9.934 6576	45	352	
649	9.707 3805	128	9.772 7274	173	0.227 2726	9.934 6531	45	351	
		128		173			45		
.650	9.707 3933		9.772 7447		0.227 2553	9.934 6486		.350	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	173	172
1	17.3	17.2
2	34.6	34.4
3	51.9	51.6
4	69.2	68.8
5	86.5	86.0
6	103.8	103.2
7	121.1	120.4
8	138.4	137.6
9	155.7	154.8

	129	128
1	12.9	12.8
2	25.8	25.6
3	38.7	38.4
4	51.6	51.2
5	64.5	64.0
6	77.4	76.8
7	90.3	89.6
8	103.2	102.4
9	116.1	115.2

	127
1	12.7
2	25.4
3	38.1
4	50.8
5	63.5
6	76.2
7	88.9
8	101.6
9	114.3

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.400 — 59°.350

30°.650 — 30°.700

30°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.707 3933		9.772 7447		0.227 2553	9.934 6486		**.350**	
		128		173			44		
651	9.707 4061		9.772 7620		0.227 2380	9.934 6442		349	
652	9.707 4189	128	9.772 7792	172	0.227 2208	9.934 6397	45	348	
653	9.707 4317	128	9.772 7965	173	0.227 2035	9.934 6352	45	347	
		128		173			45		
654	9.707 4445		9.772 8138		0.227 1862	9.934 6307		346	
655	9.707 4573	128	9.772 8311	173	0.227 1689	9.934 6262	45	345	
656	9.707 4701	128	9.772 8484	173	0.227 1516	9.934 6217	45	344	
		128		172			45		
657	9.707 4829		9.772 8656		0.227 1344	9.934 6172		343	
658	9.707 4956	127	9.772 8829	173	0.227 1171	9.934 6127	45	342	
659	9.707 5084	128	9.772 9002	173	0.227 0998	9.934 6082	45	341	
		128		173			45		
.660	9.707 5212		9.772 9175		0.227 0825	9.934 6037		**.340**	
		128		173			45		
661	9.707 5340		9.772 9348		0.227 0652	9.934 5992		339	
662	9.707 5468	128	9.772 9520	172	0.227 0480	9.934 5947	45	338	
663	9.707 5596	128	9.772 9693	173	0.227 0307	9.934 5902	45	337	
		128		173			45		
664	9.707 5724		9.772 9866		0.227 0134	9.934 5857		336	
665	9.707 5851	127	9.773 0039	173	0.226 9961	9.934 5813	44	335	
666	9.707 5979	128	9.773 0212	173	0.226 9788	9.934 5768	45	334	
		128		172			45		
667	9.707 6107		9.773 0384		0.226 9616	9.934 5723		333	
668	9.707 6235	128	9.773 0557	173	0.226 9443	9.934 5678	45	332	
669	9.707 6363	128	9.773 0730	173	0.226 9270	9.934 5633	45	331	
		127		173			45		
.670	9.707 6490		9.773 0903		0.226 9097	9.934 5588		**.330**	
		128		172			45		
671	9.707 6618		9.773 1075		0.226 8925	9.934 5543		329	
672	9.707 6746	128	9.773 1248	173	0.226 8752	9.934 5498	45	328	
673	9.707 6874	128	9.773 1421	173	0.226 8579	9.934 5453	45	327	
		128		173			45		
674	9.707 7002		9.773 1594		0.226 8406	9.934 5408		326	
675	9.707 7129	127	9.773 1766	172	0.226 8234	9.934 5363	45	325	
676	9.707 7257	128	9.773 1939	173	0.226 8061	9.934 5318	45	324	
		128		173			45		
677	9.707 7385		9.773 2112		0.226 7888	9.934 5273		323	
678	9.707 7513	128	9.773 2285	173	0.226 7715	9.934 5228	45	322	
679	9.707 7641	128	9.773 2457	172	0.226 7543	9.934 5183	45	321	
		127		173			45		
.680	9.707 7768		9.773 2630		0.226 7370	9.934 5138		**.320**	
		128		173			45		
681	9.707 7896		9.773 2803		0.226 7197	9.934 5093		319	
682	9.707 8024	128	9.773 2976	173	0.226 7024	9.934 5048	45	318	
683	9.707 8152	128	9.773 3148	172	0.226 6852	9.934 5003	45	317	
		127		173			45		
684	9.707 8279		9.773 3321		0.226 6679	9.934 4958		316	
685	9.707 8407	128	9.773 3494	173	0.226 6506	9.934 4913	45	315	
686	9.707 8535	128	9.773 3666	172	0.226 6334	9.934 4868	45	314	
		128		173			45		
687	9.707 8663		9.773 3839		0.226 6161	9.934 4823		313	
688	9.707 8790	127	9.773 4012	173	0.226 5988	9.934 4778	45	312	
689	9.707 8918	128	9.773 4185	173	0.226 5815	9.934 4733	45	311	
		128		172			45		
.690	9.707 9046		9.773 4357		0.226 5643	9.934 4688		**.310**	
		127		173			45		
691	9.707 9173		9.773 4530		0.226 5470	9.934 4643		309	
692	9.707 9301	128	9.773 4703	173	0.226 5297	9.934 4598	45	308	
693	9.707 9429	128	9.773 4875	172	0.226 5125	9.934 4553	45	307	
		128		173			45		
694	9.707 9557		9.773 5048		0.226 4952	9.934 4508		306	
695	9.707 9684	127	9.773 5221	173	0.226 4779	9.934 4463	45	305	
696	9.707 9812	128	9.773 5393	172	0.226 4607	9.934 4418	45	304	
		128		173			45		
697	9.707 9940		9.773 5566		0.226 4434	9.934 4373		303	
698	9.708 0067	127	9.773 5739	173	0.226 4261	9.934 4328	45	302	
699	9.708 0195	128	9.773 5911	172	0.226 4089	9.934 4283	45	301	
		128		173			45		
.700	9.708 0323		9.773 6084		0.226 3916	9.934 4238		**.300**	
	cos	d	cotg	d	tang	sin	d	**59°**	P.P.

	173	172
1	17.3	17.2
2	34.6	34.4
3	51.9	51.6
4	69.2	68.8
5	86.5	86.0
6	103.8	103.2
7	121.1	120.4
8	138.4	137.6
9	155.7	154.8

	128	127
1	12.8	12.7
2	25.6	25.4
3	38.4	38.1
4	51.2	50.8
5	64.0	63.5
6	76.8	76.2
7	89.6	88.9
8	102.4	101.6
9	115.2	114.3

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

	44
1	4.4
2	8.8
3	13.2
4	17.6
5	22.0
6	26.4
7	30.8
8	35.2
9	39.6

59°.350 — 59°.300

30°.700 — 30°.750

30°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.708 0323		9.773 6084		0.226 3916	9.934 4238		.300	
		127		173			45		
701	9.708 0450		9.773 6257		0.226 3743	9.934 4193		299	
702	9.708 0578	128	9.773 6429	172	0.226 3571	9.934 4148	45	298	
703	9.708 0706	128	9.773 6602	173	0.226 3398	9.934 4103	45	297	
		127		173			45		
704	9.708 0833		9.773 6775		0.226 3225	9.934 4058		296	
705	9.708 0961	128	9.773 6947	172	0.226 3053	9.934 4013	45	295	
706	9.708 1088	127	9.773 7120	173	0.226 2880	9.934 3968	45	294	
		128		173			45		
707	9.708 1216		9.773 7293		0.226 2707	9.934 3923		293	
708	9.708 1344	128	9.773 7465	172	0.226 2535	9.934 3878	45	292	
709	9.708 1471	127	9.773 7638	173	0.226 2362	9.934 3833	45	291	
		128		173			45		
.710	9.708 1599		9.773 7811		0.226 2189	9.934 3788		.290	
		128		172			45		
711	9.708 1727		9.773 7983		0.226 2017	9.934 3743		289	
712	9.708 1854	127	9.773 8156	173	0.226 1844	9.934 3698	45	288	
713	9.708 1982	128	9.773 8329	173	0.226 1671	9.934 3653	45	287	
		127		172			45		
714	9.708 2109		9.773 8501		0.226 1499	9.934 3608		286	
715	9.708 2237	128	9.773 8674	173	0.226 1326	9.934 3563	45	285	
716	9.708 2364	127	9.773 8846	172	0.226 1154	9.934 3518	45	284	
		128		173			45		
717	9.708 2492		9.773 9019		0.226 0981	9.934 3473		283	
718	9.708 2620	128	9.773 9192	173	0.226 0808	9.934 3428	45	282	
719	9.708 2747	127	9.773 9364	172	0.226 0636	9.934 3383	45	281	
		128		173			45		
.720	9.708 2875		9.773 9537		0.226 0463	9.934 3338		.280	
		127		172			45		
721	9.708 3002		9.773 9709		0.226 0291	9.934 3293		279	
722	9.708 3130	128	9.773 9882	173	0.226 0118	9.934 3248	45	278	
723	9.708 3257	127	9.774 0055	173	0.225 9945	9.934 3203	45	277	
		128		172			45		
724	9.708 3385		9.774 0227		0.225 9773	9.934 3158		276	
725	9.708 3512	127	9.774 0400	173	0.225 9600	9.934 3113	45	275	
726	9.708 3640	128	9.774 0572	172	0.225 9428	9.934 3068	45	274	
		128		173			45		
727	9.708 3768		9.774 0745		0.225 9255	9.934 3023		273	
728	9.708 3895	127	9.774 0917	172	0.225 9083	9.934 2978	45	272	
729	9.708 4023	128	9.774 1090	173	0.225 8910	9.934 2933	45	271	
		127		173			46		
.730	9.708 4150		9.774 1263		0.225 8737	9.934 2887		.270	
		128		172			45		
731	9.708 4278		9.774 1435		0.225 8565	9.934 2842		269	
732	9.708 4405	127	9.774 1608	173	0.225 8392	9.934 2797	45	268	
733	9.708 4533	128	9.774 1780	172	0.225 8220	9.934 2752	45	267	
		127		173			45		
734	9.708 4660		9.774 1953		0.225 8047	9.934 2707		266	
735	9.708 4788	128	9.774 2125	172	0.225 7875	9.934 2662	45	265	
736	9.708 4915	127	9.774 2298	173	0.225 7702	9.934 2617	45	264	
		127		173			45		
737	9.708 5042		9.774 2471		0.225 7529	9.934 2572		263	
738	9.708 5170	128	9.774 2643	172	0.225 7357	9.934 2527	45	262	
739	9.708 5297	127	9.774 2816	173	0.225 7184	9.934 2482	45	261	
		128		172			45		
.740	9.708 5425		9.774 2988		0.225 7012	9.934 2437		.260	
		127		173			45		
741	9.708 5552		9.774 3161		0.225 6839	9.934 2392		259	
742	9.708 5680	128	9.774 3333	172	0.225 6667	9.934 2347	45	258	
743	9.708 5807	127	9.774 3506	173	0.225 6494	9.934 2302	45	257	
		128		172			46		
744	9.708 5935		9.774 3678		0.225 6322	9.934 2256		256	
745	9.708 6062	127	9.774 3851	173	0.225 6149	9.934 2211	45	255	
746	9.708 6190	128	9.774 4023	172	0.225 5977	9.934 2166	45	254	
		127		173			45		
747	9.708 6317		9.774 4196		0.225 5804	9.934 2121		253	
748	9.708 6444	127	9.774 4368	172	0.225 5632	9.934 2076	45	252	
749	9.708 6572	128	9.774 4541	173	0.225 5459	9.934 2031	45	251	
		127		172			45		
.750	9.708 6699		9.774 4713		0.225 5287	9.934 1986		.250	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	173	172
1	17.3	17.2
2	34.6	34.4
3	51.9	51.6
4	69.2	68.8
5	86.5	86.0
6	103.8	103.2
7	121.1	120.4
8	138.4	137.6
9	155.7	154.8

	128	127
1	12.8	12.7
2	25.6	25.4
3	38.4	38.1
4	51.2	50.8
5	64.0	63.5
6	76.8	76.2
7	89.6	88.9
8	102.4	101.6
9	115.2	114.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

59°.300 — 59°.250

30°.750 — 30°.800

30°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.708 6699		9.774 4713		0.225 5287	9.934 1986		.250	
		128		173			45		
751	9.708 6827		9.774 4886		0.225 5114	9.934 1941		249	
752	9.708 6954	127	9.774 5058	172	0.225 4942	9.934 1896	45	248	
753	9.708 7081	127	9.774 5231	173	0.225 4769	9.934 1851	45	247	
		128		172			46		
754	9.708 7209		9.774 5403		0.225 4597	9.934 1805		246	
755	9.708 7336	127	9.774 5576	173	0.225 4424	9.934 1760	45	245	
756	9.708 7464	128	9.774 5748	172	0.225 4252	9.934 1715	45	244	
		127		173			45		
757	9.708 7591		9.774 5921		0.225 4079	9.934 1670		243	
758	9.708 7718	127	9.774 6093	172	0.225 3907	9.934 1625	45	242	
759	9.708 7846	128	9.774 6266	173	0.225 3734	9.934 1580	45	241	
		127		172			45		
.760	9.708 7973		9.774 6438		0.225 3562	9.934 1535		.240	
		127		173			45		
761	9.708 8100		9.774 6611		0.225 3389	9.934 1490		239	
762	9.708 8228	128	9.774 6783	172	0.225 3217	9.934 1445	45	238	
763	9.708 8355	127	9.774 6956	173	0.225 3044	9.934 1400	45	237	
		127		172			46		
764	9.708 8482		9.774 7128		0.225 2872	9.934 1354		236	
765	9.708 8610	128	9.774 7300	172	0.225 2700	9.934 1309	45	235	
766	9.708 8737	127	9.774 7473	173	0.225 2527	9.934 1264	45	234	
		127		172			45		
767	9.708 8864		9.774 7645		0.225 2355	9.934 1219		233	
768	9.708 8992	128	9.774 7818	173	0.225 2182	9.934 1174	45	232	
769	9.708 9119	127	9.774 7990	172	0.225 2010	9.934 1129	45	231	
		127		173			45		
.770	9.708 9246		9.774 8163		0.225 1837	9.934 1084		.230	
		128		172			46		
771	9.708 9374		9.774 8335		0.225 1665	9.934 1038		229	
772	9.708 9501	127	9.774 8508	173	0.225 1492	9.934 0993	45	228	
773	9.708 9628	127	9.774 8680	172	0.225 1320	9.934 0948	45	227	
		127		172			45		
774	9.708 9755		9.774 8852		0.225 1148	9.934 0903		226	
775	9.708 9883	128	9.774 9025	173	0.225 0975	9.934 0858	45	225	
776	9.709 0010	127	9.774 9197	172	0.225 0803	9.934 0813	45	224	
		127		173			45		
777	9.709 0137		9.774 9370		0.225 0630	9.934 0768		223	
778	9.709 0265	128	9.774 9542	172	0.225 0458	9.934 0723	45	222	
779	9.709 0392	127	9.774 9714	172	0.225 0286	9.934 0677	46	221	
		127		173			45		
.780	9.709 0519		9.774 9887		0.225 0113	9.934 0632		.220	
		127		172			45		
781	9.709 0646		9.775 0059		0.224 9941	9.934 0587		219	
782	9.709 0774	128	9.775 0232	173	0.224 9768	9.934 0542	45	218	
783	9.709 0901	127	9.775 0404	172	0.224 9596	9.934 0497	45	217	
		127		172			45		
784	9.709 1028		9.775 0576		0.224 9424	9.934 0452		216	
785	9.709 1155	127	9.775 0749	173	0.224 9251	9.934 0406	46	215	
786	9.709 1283	128	9.775 0921	172	0.224 9079	9.934 0361	45	214	
		127		173			45		
787	9.709 1410		9.775 1094		0.224 8906	9.934 0316		213	
788	9.709 1537	127	9.775 1266	172	0.224 8734	9.934 0271	45	212	
789	9.709 1664	127	9.775 1438	172	0.224 8562	9.934 0226	45	211	
		127		173			45		
.790	9.709 1791		9.775 1611		0.224 8389	9.934 0181		.210	
		128		172			46		
791	9.709 1919		9.775 1783		0.224 8217	9.934 0135		209	
792	9.709 2046	127	9.775 1955	172	0.224 8045	9.934 0090	45	208	
793	9.709 2173	127	9.775 2128	173	0.224 7872	9.934 0045	45	207	
		127		172			45		
794	9.709 2300		9.775 2300		0.224 7700	9.934 0000		206	
795	9.709 2427	127	9.775 2473	173	0.224 7527	9.933 9955	45	205	
796	9.709 2555	128	9.775 2645	172	0.224 7355	9.933 9910	45	204	
		127		172			46		
797	9.709 2682		9.775 2817		0.224 7183	9.933 9864		203	
798	9.709 2809	127	9.775 2990	173	0.224 7010	9.933 9819	45	202	
799	9.709 2936	127	9.775 3162	172	0.224 6838	9.933 9774	45	201	
		127		172			45		
.800	9.709 3063		9.775 3334		0.224 6666	9.933 9729		.200	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	173	172
1	17.3	17.2
2	34.6	34.4
3	51.9	51.6
4	69.2	68.8
5	86.5	86.0
6	103.8	103.2
7	121.1	120.4
8	138.4	137.6
9	155.7	154.8

	128	127
1	12.8	12.7
2	25.6	25.4
3	38.4	38.1
4	51.2	50.8
5	64.0	63.5
6	76.8	76.2
7	89.6	88.9
8	102.4	101.6
9	115.2	114.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

59°.250 — 59°.200

30°.800 — 30°.850

30°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.709 3063		9.775 3334		0.224 6666	9.933 9729		.200	
		127		173			45		
801	9.709 3190		9.775 3507		0.224 6493	9.933 9684		199	
802	9.709 3317	127	9.775 3679	172	0.224 6321	9.933 9639	45	198	
803	9.709 3445	128	9.775 3851	172	0.224 6149	9.933 9593	46	197	
		127		173			45		
804	9.709 3572		9.775 4024		0.224 5976	9.933 9548		196	
805	9.709 3699	127	9.775 4196	172	0.224 5804	9.933 9503	45	195	
806	9.709 3826	127	9.775 4368	172	0.224 5632	9.933 9458	45	194	
		127		173			45		
807	9.709 3953		9.775 4541		0.224 5459	9.933 9413		193	
808	9.709 4080	127	9.775 4713	172	0.224 5287	9.933 9367	46	192	
809	9.709 4207	127	9.775 4885	172	0.224 5115	9.933 9322	45	191	
		127		173			45		
.810	9.709 4334		9.775 5058		0.224 4942	9.933 9277		.190	
		128		172			45		
811	9.709 4462		9.775 5230		0.224 4770	9.933 9232		189	
812	9.709 4589	127	9.775 5402	172	0.224 4598	9.933 9187	45	188	
813	9.709 4716	127	9.775 5574	172	0.224 4426	9.933 9141	46	187	
		127		173			45		
814	9.709 4843		9.775 5747		0.224 4253	9.933 9096		186	
815	9.709 4970	127	9.775 5919	172	0.224 4081	9.933 9051	45	185	
816	9.709 5097	127	9.775 6091	172	0.224 3909	9.933 9006	45	184	
		127		173			46		
817	9.709 5224		9.775 6264		0.224 3736	9.933 8960		183	
818	9.709 5351	127	9.775 6436	172	0.224 3564	9.933 8915	45	182	
819	9.709 5478	127	9.775 6608	172	0.224 3392	9.933 8870	45	181	
		127		172			45		
.820	9.709 5605		9.775 6780		0.224 3220	9.933 8825		.180	
		127		173			45		
821	9.709 5732		9.775 6953		0.224 3047	9.933 8780		179	
822	9.709 5859	127	9.775 7125	172	0.224 2875	9.933 8734	46	178	
823	9.709 5986	127	9.775 7297	172	0.224 2703	9.933 8689	45	177	
		127		172			45		
824	9.709 6113		9.775 7469		0.224 2531	9.933 8644		176	
825	9.709 6240	127	9.775 7642	173	0.224 2358	9.933 8599	45	175	
826	9.709 6367	127	9.775 7814	172	0.224 2186	9.933 8553	46	174	
		127		172			45		
827	9.709 6494		9.775 7986		0.224 2014	9.933 8508		173	
828	9.709 6622	128	9.775 8159	173	0.224 1841	9.933 8463	45	172	
829	9.709 6749	127	9.775 8331	172	0.224 1669	9.933 8418	45	171	
		127		172			45		
.830	9.709 6876		9.775 8503		0.224 1497	9.933 8373		.170	
		127		172			46		
831	9.709 7003		9.775 8675		0.224 1325	9.933 8327		169	
832	9.709 7130	127	9.775 8847	172	0.224 1153	9.933 8282	45	168	
833	9.709 7257	127	9.775 9020	173	0.224 0980	9.933 8237	45	167	
		126		172			45		
834	9.709 7383		9.775 9192		0.224 0808	9.933 8192		166	
835	9.709 7510	127	9.775 9364	172	0.224 0636	9.933 8146	46	165	
836	9.709 7637	127	9.775 9536	172	0.224 0464	9.933 8101	45	164	
		127		173			45		
837	9.709 7764		9.775 9709		0.224 0291	9.933 8056		163	
838	9.709 7891	127	9.775 9881	172	0.224 0119	9.933 8011	45	162	
839	9.709 8018	127	9.776 0053	172	0.223 9947	9.933 7965	46	161	
		127		172			45		
.840	9.709 8145		9.776 0225		0.223 9775	9.933 7920		.160	
		127		172			45		
841	9.709 8272		9.776 0397		0.223 9603	9.933 7875		159	
842	9.709 8399	127	9.776 0570	173	0.223 9430	9.933 7830	45	158	
843	9.709 8526	127	9.776 0742	172	0.223 9258	9.933 7784	46	157	
		127		172			45		
844	9.709 8653		9.776 0914		0.223 9086	9.933 7739		156	
845	9.709 8780	127	9.776 1086	172	0.223 8914	9.933 7694	45	155	
846	9.709 8907	127	9.776 1258	172	0.223 8742	9.933 7648	46	154	
		127		173			45		
847	9.709 9034		9.776 1431		0.223 8569	9.933 7603		153	
848	9.709 9161	127	9.776 1603	172	0.223 8397	9.933 7558	45	152	
849	9.709 9288	127	9.776 1775	172	0.223 8225	9.933 7513	45	151	
		127		172			46		
.850	9.709 9415		9.776 1947		0.223 8053	9.933 7467		.150	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	173	172
1	17.3	17.2
2	34.6	34.4
3	51.9	51.6
4	69.2	68.8
5	86.5	86.0
6	103.8	103.2
7	121.1	120.4
8	138.4	137.6
9	155.7	154.8

	128	127
1	12.8	12.7
2	25.6	25.4
3	38.4	38.1
4	51.2	50.8
5	64.0	63.5
6	76.8	76.2
7	89.6	88.9
8	102.4	101.6
9	115.2	114.3

	126
1	12.6
2	25.2
3	37.8
4	50.4
5	63.0
6	75.6
7	88.2
8	100.8
9	113.4

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

59°.200 — 59°.150

30°.850 — 30°.900

30°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.709 9415		9.776 1947		0.223 8053	9.933 7467		.150	
		126		172			45		
851	9.709 9541		9.776 2119		0.223 7881	9.933 7422		149	
852	9.709 9668	127	9.776 2292	173	0.223 7708	9.933 7377	45	148	
853	9.709 9795	127	9.776 2464	172	0.223 7536	9.933 7332	45	147	
		127		172			46		
854	9.709 9922		9.776 2636		0.223 7364	9.933 7286		146	
855	9.710 0049	127	9.776 2808	172	0.223 7192	9.933 7241	45	145	
856	9.710 0176	127	9.776 2980	172	0.223 7020	9.933 7196	45	144	
		127		172			46		
857	9.710 0303		9.776 3152		0.223 6848	9.933 7150		143	
858	9.710 0430	127	9.776 3324	172	0.223 6676	9.933 7105	45	142	
859	9.710 0556	126	9.776 3497	173	0.223 6503	9.933 7060	45	141	
		127		172			45		
.860	9.710 0683		9.776 3669		0.223 6331	9.933 7015		.140	
		127		172			46		
861	9.710 0810		9.776 3841		0.223 6159	9.933 6969		139	
862	9.710 0937	127	9.776 4013	172	0.223 5987	9.933 6924	45	138	
863	9.710 1064	127	9.776 4185	172	0.223 5815	9.933 6879	45	137	
		127		172			46		
864	9.710 1191		9.776 4357		0.223 5643	9.933 6833		136	
865	9.710 1318	127	9.776 4529	172	0.223 5471	9.933 6788	45	135	
866	9.710 1444	126	9.776 4702	173	0.223 5298	9.933 6743	45	134	
		127		172			46		
867	9.710 1571		9.776 4874		0.223 5126	9.933 6697		133	
868	9.710 1698	127	9.776 5046	172	0.223 4954	9.933 6652	45	132	
869	9.710 1825	127	9.776 5218	172	0.223 4782	9.933 6607	45	131	
		127		172			45		
.870	9.710 1952		9.776 5390		0.223 4610	9.933 6562		.130	
		126		172			46		
871	9.710 2078		9.776 5562		0.223 4438	9.933 6516		129	
872	9.710 2205	127	9.776 5734	172	0.223 4266	9.933 6471	45	128	
873	9.710 2332	127	9.776 5906	172	0.223 4094	9.933 6426	45	127	
		127		172			46		
874	9.710 2459		9.776 6078		0.223 3922	9.933 6380		126	
875	9.710 2586	127	9.776 6251	173	0.223 3749	9.933 6335	45	125	
876	9.710 2712	126	9.776 6423	172	0.223 3577	9.933 6290	45	124	
		127		172			46		
877	9.710 2839		9.776 6595		0.223 3405	9.933 6244		123	
878	9.710 2966	127	9.776 6767	172	0.223 3233	9.933 6199	45	122	
879	9.710 3093	127	9.776 6939	172	0.223 3061	9.933 6154	45	121	
		126		172			46		
.880	9.710 3219		9.776 7111		0.223 2889	9.933 6108		.120	
		127		172			45		
881	9.710 3346		9.776 7283		0.223 2717	9.933 6063		119	
882	9.710 3473	127	9.776 7455	172	0.223 2545	9.933 6018	45	118	
883	9.710 3600	127	9.776 7627	172	0.223 2373	9.933 5972	46	117	
		126		172			45		
884	9.710 3726		9.776 7799		0.223 2201	9.933 5927		116	
885	9.710 3853	127	9.776 7971	172	0.223 2029	9.933 5882	45	115	
886	9.710 3980	127	9.776 8143	172	0.223 1857	9.933 5836	46	114	
		126		172			45		
887	9.710 4106		9.776 8315		0.223 1685	9.933 5791		113	
888	9.710 4233	127	9.776 8488	173	0.223 1512	9.933 5746	45	112	
889	9.710 4360	127	9.776 8660	172	0.223 1340	9.933 5700	46	111	
		127		172			45		
.890	9.710 4487		9.776 8832		0.223 1168	9.933 5655		.110	
		126		172			45		
891	9.710 4613		9.776 9004		0.223 0996	9.933 5610		109	
892	9.710 4740	127	9.776 9176	172	0.223 0824	9.933 5564	46	108	
893	9.710 4867	127	9.776 9348	172	0.223 0652	9.933 5519	45	107	
		126		172			45		
894	9.710 4993		9.776 9520		0.223 0480	9.933 5474		106	
895	9.710 5120	127	9.776 9692	172	0.223 0308	9.933 5428	46	105	
896	9.710 5247	127	9.776 9864	172	0.223 0136	9.933 5383	45	104	
		126		172			46		
897	9.710 5373		9.777 0036		0.222 9964	9.933 5337		103	
898	9.710 5500	127	9.777 0208	172	0.222 9792	9.933 5292	45	102	
899	9.710 5627	127	9.777 0380	172	0.222 9620	9.933 5247	45	101	
		126		172			46		
.900	9.710 5753		9.777 0552		0.222 9448	9.933 5201		.100	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	173	172
1	17.3	17.2
2	34.6	34.4
3	51.9	51.6
4	69.2	68.8
5	86.5	86.0
6	103.8	103.2
7	121.1	120.4
8	138.4	137.6
9	155.7	154.8

	127	126
1	12.7	12.6
2	25.4	25.2
3	38.1	37.8
4	50.8	50.4
5	63.5	63.0
6	76.2	75.6
7	88.9	88.2
8	101.6	100.8
9	114.3	113.4

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

59°.150 — 59°.100

30°.900 — 30°.950

30°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.710 5753		9.777 0552		0.222 9448	9.933 5201		.100	
		127		172			45		
901	9.710 5880		9.777 0724		0.222 9276	9.933 5156		099	
902	9.710 6007	127	9.777 0896	172	0.222 9104	9.933 5111	45	098	
903	9.710 6133	126	9.777 1068	172	0.222 8932	9.933 5065	46	097	
		127		172			45		
904	9.710 6260		9.777 1240		0.222 8760	9.933 5020		096	
905	9.710 6387	127	9.777 1412	172	0.222 8588	9.933 4975	45	095	
906	9.710 6513	126	9.777 1584	172	0.222 8416	9.933 4929	46	094	
		127		172			45		
907	9.710 6640		9.777 1756		0.222 8244	9.933 4884		093	
908	9.710 6766	126	9.777 1928	172	0.222 8072	9.933 4838	46	092	
909	9.710 6893	127	9.777 2100	172	0.222 7900	9.933 4793	45	091	
		127		172			45		
.910	9.710 7020		9.777 2272		0.222 7728	9.933 4748		.090	
		126		172			46		
911	9.710 7146		9.777 2444		0.222 7556	9.933 4702		089	
912	9.710 7273	127	9.777 2616	172	0.222 7384	9.933 4657	45	088	
913	9.710 7399	126	9.777 2788	172	0.222 7212	9.933 4612	45	087	
		127		172			46		
914	9.710 7526		9.777 2960		0.222 7040	9.933 4566		086	
915	9.710 7653	127	9.777 3132	172	0.222 6868	9.933 4521	45	085	
916	9.710 7779	126	9.777 3304	172	0.222 6696	9.933 4475	46	084	
		127		172			45		
917	9.710 7906		9.777 3476		0.222 6524	9.933 4430		083	
918	9.710 8032	126	9.777 3648	172	0.222 6352	9.933 4385	45	082	
919	9.710 8159	127	9.777 3820	172	0.222 6180	9.933 4339	46	081	
		126		172			45		
.920	9.710 8285		9.777 3992		0.222 6008	9.933 4294		.080	
		127		172			46		
921	9.710 8412		9.777 4164		0.222 5836	9.933 4248		079	
922	9.710 8538	126	9.777 4336	172	0.222 5664	9.933 4203	45	078	
923	9.710 8665	127	9.777 4507	171	0.222 5493	9.933 4158	45	077	
		127		172			46		
924	9.710 8792		9.777 4679		0.222 5321	9.933 4112		076	
925	9.710 8918	126	9.777 4851	172	0.222 5149	9.933 4067	45	075	
926	9.710 9045	127	9.777 5023	172	0.222 4977	9.933 4021	46	074	
		126		172			45		
927	9.710 9171		9.777 5195		0.222 4805	9.933 3976		073	
928	9.710 9298	127	9.777 5367	172	0.222 4633	9.933 3930	46	072	
929	9.710 9424	126	9.777 5539	172	0.222 4461	9.933 3885	45	071	
		127		172			45		
.930	9.710 9551		9.777 5711		0.222 4289	9.933 3840		.070	
		126		172			46		
931	9.710 9677		9.777 5883		0.222 4117	9.933 3794		069	
932	9.710 9804	127	9.777 6055	172	0.222 3945	9.933 3749	45	068	
933	9.710 9930	126	9.777 6227	172	0.222 3773	9.933 3703	46	067	
		127		172			45		
934	9.711 0057		9.777 6399		0.222 3601	9.933 3658		066	
935	9.711 0183	126	9.777 6571	172	0.222 3429	9.933 3613	45	065	
936	9.711 0310	127	9.777 6742	171	0.222 3258	9.933 3567	46	064	
		126		172			45		
937	9.711 0436		9.777 6914		0.222 3086	9.933 3522		063	
938	9.711 0562	126	9.777 7086	172	0.222 2914	9.933 3476	46	062	
939	9.711 0689	127	9.777 7258	172	0.222 2742	9.933 3431	45	061	
		126		172			46		
.940	9.711 0815		9.777 7430		0.222 2570	9.933 3385		.060	
		127		172			45		
941	9.711 0942		9.777 7602		0.222 2398	9.933 3340		059	
942	9.711 1068	126	9.777 7774	172	0.222 2226	9.933 3295	45	058	
943	9.711 1195	127	9.777 7946	172	0.222 2054	9.933 3249	46	057	
		126		172			45		
944	9.711 1321		9.777 8118		0.222 1882	9.933 3204		056	
945	9.711 1448	127	9.777 8289	171	0.222 1711	9.933 3158	46	055	
946	9.711 1574	126	9.777 8461	172	0.222 1539	9.933 3113	45	054	
		126		172			46		
947	9.711 1700		9.777 8633		0.222 1367	9.933 3067		053	
948	9.711 1827	127	9.777 8805	172	0.222 1195	9.933 3022	45	052	
949	9.711 1953	126	9.777 8977	172	0.222 1023	9.933 2976	46	051	
		127		172			45		
.950	9.711 2080		9.777 9149		0.222 0851	9.933 2931		.050	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	172	171
1	17.2	17.1
2	34.4	34.2
3	51.6	51.3
4	68.8	68.4
5	86.0	85.5
6	103.2	102.6
7	120.4	119.7
8	137.6	136.8
9	154.8	153.9

	127	126
1	12.7	12.6
2	25.4	25.2
3	38.1	37.8
4	50.8	50.4
5	63.5	63.0
6	76.2	75.6
7	88.9	88.2
8	101.6	100.8
9	114.3	113.4

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

59°.100 — 59°.050

30°.950 — 31°.000

30°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.711 2080		9.777 9149		0.222 0851	9.933 2931		.050	
		126		172			46		
951	9.711 2206		9.777 9321		0.222 0679	9.933 2885		049	
952	9.711 2332	126	9.777 9492	171	0.222 0508	9.933 2840	45	048	
953	9.711 2459	127	9.777 9664	172	0.222 0336	9.933 2795	45	047	
		126		172			46		
954	9.711 2585		9.777 9836		0.222 0164	9.933 2749		046	
955	9.711 2712	127	9.778 0008	172	0.221 9992	9.933 2704	45	045	
956	9.711 2838	126	9.778 0180	172	0.221 9820	9.933 2658	46	044	
		126		172			45		
957	9.711 2964		9.778 0352		0.221 9648	9.933 2613		043	
958	9.711 3091	127	9.778 0523	171	0.221 9477	9.933 2567	46	042	
959	9.711 3217	126	9.778 0695	172	0.221 9305	9.933 2522	45	041	
		126		172			46		
.960	9.711 3343		9.778 0867		0.221 9133	9.933 2476		.040	
		127		172			45		
961	9.711 3470		9.778 1039		0.221 8961	9.933 2431		039	
962	9.711 3596	126	9.778 1211	172	0.221 8789	9.933 2385	46	038	
963	9.711 3722	126	9.778 1383	172	0.221 8617	9.933 2340	45	037	
		127		171			46		
964	9.711 3849		9.778 1554		0.221 8446	9.933 2294		036	
965	9.711 3975	126	9.778 1726	172	0.221 8274	9.933 2249	45	035	
966	9.711 4101	126	9.778 1898	172	0.221 8102	9.933 2203	46	034	
		127		172			45		
967	9.711 4228		9.778 2070		0.221 7930	9.933 2158		033	
968	9.711 4354	126	9.778 2242	172	0.221 7758	9.933 2112	46	032	
969	9.711 4480	126	9.778 2413	171	0.221 7587	9.933 2067	45	031	
		127		172			46		
.970	9.711 4607		9.778 2585		0.221 7415	9.933 2021		.030	
		126		172			45		
971	9.711 4733		9.778 2757		0.221 7243	9.933 1976		029	
972	9.711 4859	126	9.778 2929	172	0.221 7071	9.933 1930	46	028	
973	9.711 4985	126	9.778 3100	171	0.221 6900	9.933 1885	45	027	
		127		172			46		
974	9.711 5112		9.778 3272		0.221 6728	9.933 1839		026	
975	9.711 5238	126	9.778 3444	172	0.221 6556	9.933 1794	45	025	
976	9.711 5364	126	9.778 3616	172	0.221 6384	9.933 1749	45	024	
		127		172			46		
977	9.711 5491		9.778 3788		0.221 6212	9.933 1703		023	
978	9.711 5617	126	9.778 3959	171	0.221 6041	9.933 1657	46	022	
979	9.711 5743	126	9.778 4131	172	0.221 5869	9.933 1612	45	021	
		126		172			46		
.980	9.711 5869		9.778 4303		0.221 5697	9.933 1566		.020	
		127		172			45		
981	9.711 5996		9.778 4475		0.221 5525	9.933 1521		019	
982	9.711 6122	126	9.778 4646	171	0.221 5354	9.933 1475	46	018	
983	9.711 6248	126	9.778 4818	172	0.221 5182	9.933 1430	45	017	
		126		172			46		
984	9.711 6374		9.778 4990		0.221 5010	9.933 1384		016	
985	9.711 6501	127	9.778 5162	172	0.221 4838	9.933 1339	45	015	
986	9.711 6627	126	9.778 5333	171	0.221 4667	9.933 1293	46	014	
		126		172			45		
987	9.711 6753		9.778 5505		0.221 4495	9.933 1248		013	
988	9.711 6879	126	9.778 5677	172	0.221 4323	9.933 1202	46	012	
989	9.711 7005	126	9.778 5849	172	0.221 4151	9.933 1157	45	011	
		127		171			46		
.990	9.711 7132		9.778 6020		0.221 3980	9.933 1111		.010	
		126		172			45		
991	9.711 7258		9.778 6192		0.221 3808	9.933 1066		009	
992	9.711 7384	126	9.778 6364	172	0.221 3636	9.933 1020	46	008	
993	9.711 7510	126	9.778 6535	171	0.221 3465	9.933 0975	45	007	
		126		172			46		
994	9.711 7636		9.778 6707		0.221 3293	9.933 0929		006	
995	9.711 7763	127	9.778 6879	172	0.221 3121	9.933 0884	45	005	
996	9.711 7889	126	9.778 7051	172	0.221 2949	9.933 0838	46	004	
		126		171			45		
997	9.711 8015		9.778 7222		0.221 2778	9.933 0793		003	
998	9.711 8141	126	9.778 7394	172	0.221 2606	9.933 0747	46	002	
999	9.711 8267	126	9.778 7566	172	0.221 2434	9.933 0701	46	001	
		126		171			45		
*.000	9.711 8393		9.778 7737		0.221 2263	9.933 0656		.000	
	cos	d	cotg	d	tang	sin	d	59°	P.P.

	172	171
1	17.2	17.1
2	34.4	34.2
3	51.6	51.3
4	68.8	68.4
5	86.0	85.5
6	103.2	102.6
7	120.4	119.7
8	137.6	136.8
9	154.8	153.9

	127	126
1	12.7	12.6
2	25.4	25.2
3	38.1	37.8
4	50.8	50.4
5	63.5	63.0
6	76.2	75.6
7	88.9	88.2
8	101.6	100.8
9	114.3	113.4

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

59°.050 — 59°.000

31°.000 — 31°.050

31°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.711 8393		9.778 7737		0.221 2263	9.933 0656		*000	
		127		172			46		
001	9.711 8520		9.778 7909		0.221 2091	9.933 0610		999	
002	9.711 8646	126	9.778 8081	172	0.221 1919	9.933 0565	45	998	
003	9.711 8772	126	9.778 8252	171	0.221 1748	9.933 0519	46	997	
		126		172			45		
004	9.711 8898		9.778 8424		0.221 1576	9.933 0474		996	
005	9.711 9024	126	9.778 8596	172	0.221 1404	9.933 0428	46	995	
006	9.711 9150	126	9.778 8768	172	0.221 1232	9.933 0383	45	994	
		126		171			46		
007	9.711 9276		9.778 8939		0.221 1061	9.933 0337		993	
008	9.711 9402	126	9.778 9111	172	0.221 0889	9.933 0292	45	992	
009	9.711 9529	127	9.778 9283	172	0.221 0717	9.933 0246	46	991	
		126		171			46		
.010	9.711 9655		9.778 9454		0.221 0546	9.933 0200		.990	
		126		172			45		
011	9.711 9781		9.778 9626		0.221 0374	9.933 0155		989	
012	9.711 9907	126	9.778 9798	172	0.221 0202	9.933 0109	46	988	
013	9.712 0033	126	9.778 9969	171	0.221 0031	9.933 0064	45	987	
		126		172			46		
014	9.712 0159		9.779 0141		0.220 9859	9.933 0018		986	
015	9.712 0285	126	9.779 0312	171	0.220 9688	9.932 9973	45	985	
016	9.712 0411	126	9.779 0484	172	0.220 9516	9.932 9927	46	984	
		126		172			46		
017	9.712 0537		9.779 0656		0.220 9344	9.932 9881		983	
018	9.712 0663	126	9.779 0827	171	0.220 9173	9.932 9836	45	982	
019	9.712 0789	126	9.779 0999	172	0.220 9001	9.932 9790	46	981	
		126		172			45		
.020	9.712 0915		9.779 1171		0.220 8829	9.932 9745		.980	
		126		171			46		
021	9.712 1041		9.779 1342		0.220 8658	9.932 9699		979	
022	9.712 1167	126	9.779 1514	172	0.220 8486	9.932 9654	45	978	
023	9.712 1293	126	9.779 1686	172	0.220 8314	9.932 9608	46	977	
		127		171			46		
024	9.712 1420		9.779 1857		0.220 8143	9.932 9562		976	
025	9.712 1546	126	9.779 2029	172	0.220 7971	9.932 9517	45	975	
026	9.712 1672	126	9.779 2200	171	0.220 7800	9.932 9471	46	974	
		126		172			45		
027	9.712 1798		9.779 2372		0.220 7628	9.932 9426		973	
028	9.712 1924	126	9.779 2544	172	0.220 7456	9.932 9380	46	972	
029	9.712 2050	126	9.779 2715	171	0.220 7285	9.932 9334	46	971	
		126		172			45		
.030	9.712 2176		9.779 2887		0.220 7113	9.932 9289		.970	
		126		171			46		
031	9.712 2302		9.779 3058		0.220 6942	9.932 9243		969	
032	9.712 2428	126	9.779 3230	172	0.220 6770	9.932 9198	45	968	
033	9.712 2554	126	9.779 3402	172	0.220 6598	9.932 9152	46	967	
		126		171			46		
034	9.712 2680		9.779 3573		0.220 6427	9.932 9106		966	
035	9.712 2806	126	9.779 3745	172	0.220 6255	9.932 9061	45	965	
036	9.712 2932	126	9.779 3916	171	0.220 6084	9.932 9015	46	964	
		126		172			45		
037	9.712 3058		9.779 4088		0.220 5912	9.932 8970		963	
038	9.712 3183	125	9.779 4260	172	0.220 5740	9.932 8924	46	962	
039	9.712 3309	126	9.779 4431	171	0.220 5569	9.932 8878	46	961	
		126		172			45		
.040	9.712 3435		9.779 4603		0.220 5397	9.932 8833		.960	
		126		171			46		
041	9.712 3561		9.779 4774		0.220 5226	9.932 8787		959	
042	9.712 3687	126	9.779 4946	172	0.220 5054	9.932 8741	46	958	
043	9.712 3813	126	9.779 5117	171	0.220 4883	9.932 8696	45	957	
		126		172			46		
044	9.712 3939		9.779 5289		0.220 4711	9.932 8650		956	
045	9.712 4065	126	9.779 5460	171	0.220 4540	9.932 8605	45	955	
046	9.712 4191	126	9.779 5632	172	0.220 4368	9.932 8559	46	954	
		126		172			46		
047	9.712 4317		9.779 5804		0.220 4196	9.932 8513		953	
048	9.712 4443	126	9.779 5975	171	0.220 4025	9.932 8468	45	952	
049	9.712 4569	126	9.779 6147	172	0.220 3853	9.932 8422	46	951	
		126		171			46		
.050	9.712 4695		9.779 6318		0.220 3682	9.932 8376		.950	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	172	171
1	17.2	17.1
2	34.4	34.2
3	51.6	51.3
4	68.8	68.4
5	86.0	85.5
6	103.2	102.6
7	120.4	119.7
8	137.6	136.8
9	154.8	153.9

	127	126
1	12.7	12.6
2	25.4	25.2
3	38.1	37.8
4	50.8	50.4
5	63.5	63.0
6	76.2	75.6
7	88.9	88.2
8	101.6	100.8
9	114.3	113.4

	125
1	12.5
2	25.0
3	37.5
4	50.0
5	62.5
6	75.0
7	87.5
8	100.0
9	112.5

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

59°.000 — 58°.950

31°.050 — 31°.100

31°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.712 4695		9.779 6318		0.220 3682	9.932 8376		.950	
		126		172			45		
051	9.712 4821		9.779 6490		0.220 3510	9.932 8331		949	
052	9.712 4946	125	9.779 6661	171	0.220 3339	9.932 8285	46	948	
053	9.712 5072	126	9.779 6833	172	0.220 3167	9.932 8240	45	947	
		126		171			46		
054	9.712 5198		9.779 7004		0.220 2996	9.932 8194		946	
055	9.712 5324	126	9.779 7176	172	0.220 2824	9.932 8148	46	945	
056	9.712 5450	126	9.779 7347	171	0.220 2653	9.932 8103	45	944	
		126		172			46		
057	9.712 5576		9.779 7519		0.220 2481	9.932 8057		943	
058	9.712 5702	126	9.779 7690	171	0.220 2310	9.932 8011	46	942	
059	9.712 5828	126	9.779 7862	172	0.220 2138	9.932 7966	45	941	
		125		171			46		
.060	9.712 5953		9.779 8033		0.220 1967	9.932 7920		.940	
		126		172			46		
061	9.712 6079		9.779 8205		0.220 1795	9.932 7874		939	
062	9.712 6205	126	9.779 8376	171	0.220 1624	9.932 7829	45	938	
063	9.712 6331	126	9.779 8548	172	0.220 1452	9.932 7783	46	937	
		126		171			46		
064	9.712 6457		9.779 8719		0.220 1281	9.932 7737		936	
065	9.712 6583	126	9.779 8891	172	0.220 1109	9.932 7692	45	935	
066	9.712 6708	125	9.779 9062	171	0.220 0938	9.932 7646	46	934	
		126		172			46		
067	9.712 6834		9.779 9234		0.220 0766	9.932 7600		933	
068	9.712 6960	126	9.779 9405	171	0.220 0595	9.932 7555	45	932	
069	9.712 7086	126	9.779 9577	172	0.220 0423	9.932 7509	46	931	
		126		171			46		
.070	9.712 7212		9.779 9748		0.220 0252	9.932 7463		.930	
		125		172			45		
071	9.712 7337		9.779 9920		0.220 0080	9.932 7418		929	
072	9.712 7463	126	9.780 0091	171	0.219 9909	9.932 7372	46	928	
073	9.712 7589	126	9.780 0263	172	0.219 9737	9.932 7326	46	927	
		126		171			45		
074	9.712 7715		9.780 0434		0.219 9566	9.932 7281		926	
075	9.712 7841	126	9.780 0606	172	0.219 9394	9.932 7235	46	925	
076	9.712 7966	125	9.780 0777	171	0.219 9223	9.932 7189	46	924	
		126		171			45		
077	9.712 8092		9.780 0948		0.219 9052	9.932 7144		923	
078	9.712 8218	126	9.780 1120	172	0.219 8880	9.932 7098	46	922	
079	9.712 8344	126	9.780 1291	171	0.219 8709	9.932 7052	46	921	
		125		172			45		
.080	9.712 8469		9.780 1463		0.219 8537	9.932 7007		.920	
		126		171			46		
081	9.712 8595		9.780 1634		0.219 8366	9.932 6961		919	
082	9.712 8721	126	9.780 1806	172	0.219 8194	9.932 6915	46	918	
083	9.712 8847	126	9.780 1977	171	0.219 8023	9.932 6870	45	917	
		125		172			46		
084	9.712 8972		9.780 2149		0.219 7851	9.932 6824		916	
085	9.712 9098	126	9.780 2320	171	0.219 7680	9.932 6778	46	915	
086	9.712 9224	126	9.780 2491	171	0.219 7509	9.932 6732	46	914	
		126		172			45		
087	9.712 9350		9.780 2663		0.219 7337	9.932 6687		913	
088	9.712 9475	125	9.780 2834	171	0.219 7166	9.932 6641	46	912	
089	9.712 9601	126	9.780 3006	172	0.219 6994	9.932 6595	46	911	
		126		171			45		
.090	9.712 9727		9.780 3177		0.219 6823	9.932 6550		.910	
		125		171			46		
091	9.712 9852		9.780 3348		0.219 6652	9.932 6504		909	
092	9.712 9978	126	9.780 3520	172	0.219 6480	9.932 6458	46	908	
093	9.713 0104	126	9.780 3691	171	0.219 6309	9.932 6413	45	907	
		125		172			46		
094	9.713 0229		9.780 3863		0.219 6137	9.932 6367		906	
095	9.713 0355	126	9.780 4034	171	0.219 5966	9.932 6321	46	905	
096	9.713 0481	126	9.780 4205	171	0.219 5795	9.932 6275	46	904	
		126		172			45		
097	9.713 0607		9.780 4377		0.219 5623	9.932 6230		903	
098	9.713 0732	125	9.780 4548	171	0.219 5452	9.932 6184	46	902	
099	9.713 0858	126	9.780 4720	172	0.219 5280	9.932 6138	46	901	
		125		171			46		
.100	9.713 0983		9.780 4891		0.219 5109	9.932 6092		.900	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	172	171
1	17.2	17.1
2	34.4	34.2
3	51.6	51.3
4	68.8	68.4
5	86.0	85.5
6	103.2	102.6
7	120.4	119.7
8	137.6	136.8
9	154.8	153.9

	126	125
1	12.6	12.5
2	25.2	25.0
3	37.8	37.5
4	50.4	50.0
5	63.0	62.5
6	75.6	75.0
7	88.2	87.5
8	100.8	100.0
9	113.4	112.5

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

58°.950 — 58°.900

31°.100 — 31°.150

31°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.713 0983		9.780 4891		0.219 5109	9.932 6092		.900	
		126		171			45		
101	9.713 1109		9.780 5062		0.219 4938	9.932 6047		899	
102	9.713 1235	126	9.780 5234	172	0.219 4766	9.932 6001	46	898	
103	9.713 1360	125	9.780 5405	171	0.219 4595	9.932 5955	46	897	
		126		171			45		
104	9.713 1486		9.780 5576		0.219 4424	9.932 5910		896	
105	9.713 1612	126	9.780 5748	172	0.219 4252	9.932 5864	46	895	
106	9.713 1737	125	9.780 5919	171	0.219 4081	9.932 5818	46	894	
		126		172			46		
107	9.713 1863		9.780 6091		0.219 3909	9.932 5772		893	
108	9.713 1989	126	9.780 6262	171	0.219 3738	9.932 5727	45	892	
109	9.713 2114	125	9.780 6433	171	0.219 3567	9.932 5681	46	891	
		126		172			46		
.110	9.713 2240		9.780 6605		0.219 3395	9.932 5635		.890	
		125		171			46		
111	9.713 2365		9.780 6776		0.219 3224	9.932 5589		889	
112	9.713 2491	126	9.780 6947	171	0.219 3053	9.932 5544	45	888	
113	9.713 2617	126	9.780 7119	172	0.219 2881	9.932 5498	46	887	
		125		171			46		
114	9.713 2742		9.780 7290		0.219 2710	9.932 5452		886	
115	9.713 2868	126	9.780 7461	171	0.219 2539	9.932 5406	46	885	
116	9.713 2993	125	9.780 7633	172	0.219 2367	9.932 5361	45	884	
		126		171			46		
117	9.713 3119		9.780 7804		0.219 2196	9.932 5315		883	
118	9.713 3244	125	9.780 7975	171	0.219 2025	9.932 5269	46	882	
119	9.713 3370	126	9.780 8147	172	0.219 1853	9.932 5223	46	881	
		126		171			45		
.120	9.713 3496		9.780 8318		0.219 1682	9.932 5178		.880	
		125		171			46		
121	9.713 3621		9.780 8489		0.219 1511	9.932 5132		879	
122	9.713 3747	126	9.780 8661	172	0.219 1339	9.932 5086	46	878	
123	9.713 3872	125	9.780 8832	171	0.219 1168	9.932 5040	46	877	
		126		171			45		
124	9.713 3998		9.780 9003		0.219 0997	9.932 4995		876	
125	9.713 4123	125	9.780 9174	171	0.219 0826	9.932 4949	46	875	
126	9.713 4249	126	9.780 9346	172	0.219 0654	9.932 4903	46	874	
		125		171			46		
127	9.713 4374		9.780 9517		0.219 0483	9.932 4857		873	
128	9.713 4500	126	9.780 9688	171	0.219 0312	9.932 4811	46	872	
129	9.713 4625	125	9.780 9860	172	0.219 0140	9.932 4766	45	871	
		126		171			46		
.130	9.713 4751		9.781 0031		0.218 9969	9.932 4720		.870	
		125		171			46		
131	9.713 4876		9.781 0202		0.218 9798	9.932 4674		869	
132	9.713 5002	126	9.781 0373	171	0.218 9627	9.932 4628	46	868	
133	9.713 5127	125	9.781 0545	172	0.218 9455	9.932 4583	45	867	
		126		171			46		
134	9.713 5253		9.781 0716		0.218 9284	9.932 4537		866	
135	9.713 5378	125	9.781 0887	171	0.218 9113	9.932 4491	46	865	
136	9.713 5504	126	9.781 1059	172	0.218 8941	9.932 4445	46	864	
		125		171			46		
137	9.713 5629		9.781 1230		0.218 8770	9.932 4399		863	
138	9.713 5755	126	9.781 1401	171	0.218 8599	9.932 4354	45	862	
139	9.713 5880	125	9.781 1572	171	0.218 8428	9.932 4308	46	861	
		126		172			46		
.140	9.713 6006		9.781 1744		0.218 8256	9.932 4262		.860	
		125		171			46		
141	9.713 6131		9.781 1915		0.218 8085	9.932 4216		859	
142	9.713 6257	126	9.781 2086	171	0.218 7914	9.932 4170	46	858	
143	9.713 6382	125	9.781 2257	171	0.218 7743	9.932 4125	45	857	
		125		172			46		
144	9.713 6507		9.781 2429		0.218 7571	9.932 4079		856	
145	9.713 6633	126	9.781 2600	171	0.218 7400	9.932 4033	46	855	
146	9.713 6758	125	9.781 2771	171	0.218 7229	9.932 3987	46	854	
		126		171			46		
147	9.713 6884		9.781 2942		0.218 7058	9.932 3941		853	
148	9.713 7009	125	9.781 3113	171	0.218 6887	9.932 3896	45	852	
149	9.713 7135	126	9.781 3285	172	0.218 6715	9.932 3850	46	851	
		125		171			46		
.150	9.713 7260		9.781 3456		0.218 6544	9.932 3804		.850	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	172	171
1	17.2	17.1
2	34.4	34.2
3	51.6	51.3
4	68.8	68.4
5	86.0	85.5
6	103.2	102.6
7	120.4	119.7
8	137.6	136.8
9	154.8	153.9

	126	125
1	12.6	12.5
2	25.2	25.0
3	37.8	37.5
4	50.4	50.0
5	63.0	62.5
6	75.6	75.0
7	88.2	87.5
8	100.8	100.0
9	113.4	112.5

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

58°.900 — 58°.850

31°.150 — 31°.200

31°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.713 7260		9.781 3456		0.218 6544	9.932 3804		.850	
		125		171			46		
151	9.713 7385		9.781 3627		0.218 6373	9.932 3758		849	
152	9.713 7511	126	9.781 3798	171	0.218 6202	9.932 3712	46	848	
153	9.713 7636	125	9.781 3970	172	0.218 6030	9.932 3667	45	847	
		126		171			46		
154	9.713 7762		9.781 4141		0.218 5859	9.932 3621		846	
155	9.713 7887	125	9.781 4312	171	0.218 5688	9.932 3575	46	845	
156	9.713 8012	125	9.781 4483	171	0.218 5517	9.932 3529	46	844	
		126		171			46		
157	9.713 8138		9.781 4654		0.218 5346	9.932 3483		843	
158	9.713 8263	125	9.781 4826	172	0.218 5174	9.932 3437	46	842	
159	9.713 8388	125	9.781 4997	171	0.218 5003	9.932 3392	45	841	
		126		171			46		
.160	9.713 8514		9.781 5168		0.218 4832	9.932 3346		.840	
		125		171			46		
161	9.713 8639		9.781 5339		0.218 4661	9.932 3300		839	
162	9.713 8764	125	9.781 5510	171	0.218 4490	9.932 3254	46	838	
163	9.713 8890	126	9.781 5682	172	0.218 4318	9.932 3208	46	837	
		125		171			46		
164	9.713 9015		9.781 5853		0.218 4147	9.932 3162		836	
165	9.713 9140	125	9.781 6024	171	0.218 3976	9.932 3117	45	835	
166	9.713 9266	126	9.781 6195	171	0.218 3805	9.932 3071	46	834	
		125		171			46		
167	9.713 9391		9.781 6366		0.218 3634	9.932 3025		833	
168	9.713 9516	125	9.781 6537	171	0.218 3463	9.932 2979	46	832	
169	9.713 9642	126	9.781 6709	172	0.218 3291	9.932 2933	46	831	
		125		171			46		
.170	9.713 9767		9.781 6880		0.218 3120	9.932 2887		.830	
		125		171			46		
171	9.713 9892		9.781 7051		0.218 2949	9.932 2841		829	
172	9.714 0018	126	9.781 7222	171	0.218 2778	9.932 2796	45	828	
173	9.714 0143	125	9.781 7393	171	0.218 2607	9.932 2750	46	827	
		125		171			46		
174	9.714 0268		9.781 7564		0.218 2436	9.932 2704		826	
175	9.714 0394	126	9.781 7735	171	0.218 2265	9.932 2658	46	825	
176	9.714 0519	125	9.781 7907	172	0.218 2093	9.932 2612	46	824	
		125		171			46		
177	9.714 0644		9.781 8078		0.218 1922	9.932 2566		823	
178	9.714 0769	125	9.781 8249	171	0.218 1751	9.932 2520	46	822	
179	9.714 0895	126	9.781 8420	171	0.218 1580	9.932 2475	45	821	
		125		171			46		
.180	9.714 1020		9.781 8591		0.218 1409	9.932 2429		.820	
		125		171			46		
181	9.714 1145		9.781 8762		0.218 1238	9.932 2383		819	
182	9.714 1270	125	9.781 8933	171	0.218 1067	9.932 2337	46	818	
183	9.714 1396	126	9.781 9105	172	0.218 0895	9.932 2291	46	817	
		125		171			46		
184	9.714 1521		9.781 9276		0.218 0724	9.932 2245		816	
185	9.714 1646	125	9.781 9447	171	0.218 0553	9.932 2199	46	815	
186	9.714 1771	125	9.781 9618	171	0.218 0382	9.932 2153	46	814	
		126		171			45		
187	9.714 1897		9.781 9789		0.218 0211	9.932 2108		813	
188	9.714 2022	125	9.781 9960	171	0.218 0040	9.932 2062	46	812	
189	9.714 2147	125	9.782 0131	171	0.217 9869	9.932 2016	46	811	
		125		171			46		
.190	9.714 2272		9.782 0302		0.217 9698	9.932 1970		.810	
		125		171			46		
191	9.714 2397		9.782 0473		0.217 9527	9.932 1924		809	
192	9.714 2523	126	9.782 0644	171	0.217 9356	9.932 1878	46	808	
193	9.714 2648	125	9.782 0816	172	0.217 9184	9.932 1832	46	807	
		125		171			46		
194	9.714 2773		9.782 0987		0.217 9013	9.932 1786		806	
195	9.714 2898	125	9.782 1158	171	0.217 8842	9.932 1741	45	805	
196	9.714 3023	125	9.782 1329	171	0.217 8671	9.932 1695	46	804	
		126		171			46		
197	9.714 3149		9.782 1500		0.217 8500	9.932 1649		803	
198	9.714 3274	125	9.782 1671	171	0.217 8329	9.932 1603	46	802	
199	9.714 3399	125	9.782 1842	171	0.217 8158	9.932 1557	46	801	
		125		171			46		
.200	9.714 3524		9.782 2013		0.217 7987	9.932 1511		.800	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	172	171
1	17.2	17.1
2	34.4	34.2
3	51.6	51.3
4	68.8	68.4
5	86.0	85.5
6	103.2	102.6
7	120.4	119.7
8	137.6	136.8
9	154.8	153.9

	126
1	12.6
2	25.2
3	37.8
4	50.4
5	63.0
6	75.6
7	88.2
8	100.8
9	113.4

	125
1	12.5
2	25.0
3	37.5
4	50.0
5	62.5
6	75.0
7	87.5
8	100.0
9	112.5

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

	45
1	4.5
2	9.0
3	13.5
4	18.0
5	22.5
6	27.0
7	31.5
8	36.0
9	40.5

58°.850 — 58°.800

31°.200 — 31°.250

31°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.714 3524		9.782 2013		0.217 7987	9.932 1511		.800	
		125		171			46		
201	9.714 3649		9.782 2184		0.217 7816	9.932 1465		799	
202	9.714 3774	125	9.782 2355	171	0.217 7645	9.932 1419	46	798	
203	9.714 3899	125	9.782 2526	171	0.217 7474	9.932 1373	46	797	
		126		171			46		
204	9.714 4025		9.782 2697		0.217 7303	9.932 1327		796	
205	9.714 4150	125	9.782 2868	171	0.217 7132	9.932 1281	46	795	
206	9.714 4275	125	9.782 3039	171	0.217 6961	9.932 1236	45	794	
		125		171			46		
207	9.714 4400		9.782 3210		0.217 6790	9.932 1190		793	
208	9.714 4525	125	9.782 3381	171	0.217 6619	9.932 1144	46	792	
209	9.714 4650	125	9.782 3552	171	0.217 6448	9.932 1098	46	791	
		125		172			46		
.210	9.714 4775		9.782 3724		0.217 6276	9.932 1052		.790	
		125		171			46		
211	9.714 4900		9.782 3895		0.217 6105	9.932 1006		789	
212	9.714 5026	126	9.782 4066	171	0.217 5934	9.932 0960	46	788	
213	9.714 5151	125	9.782 4237	171	0.217 5763	9.932 0914	46	787	
		125		171			46		
214	9.714 5276		9.782 4408		0.217 5592	9.932 0868		786	
215	9.714 5401	125	9.782 4579	171	0.217 5421	9.932 0822	46	785	
216	9.714 5526	125	9.782 4750	171	0.217 5250	9.932 0776	46	784	
		125		171			46		
217	9.714 5651		9.782 4921		0.217 5079	9.932 0730		783	
218	9.714 5776	125	9.782 5092	171	0.217 4908	9.932 0684	46	782	
219	9.714 5901	125	9.782 5263	171	0.217 4737	9.932 0638	46	781	
		125		171			45		
.220	9.714 6026		9.782 5434		0.217 4566	9.932 0593		.780	
		125		171			46		
221	9.714 6151		9.782 5605		0.217 4395	9.932 0547		779	
222	9.714 6276	125	9.782 5776	171	0.217 4224	9.932 0501	46	778	
223	9.714 6401	125	9.782 5947	171	0.217 4053	9.932 0455	46	777	
		125		171			46		
224	9.714 6526		9.782 6118		0.217 3882	9.932 0409		776	
225	9.714 6651	125	9.782 6289	171	0.217 3711	9.932 0363	46	775	
226	9.714 6776	125	9.782 6460	171	0.217 3540	9.932 0317	46	774	
		126		171			46		
227	9.714 6902		9.782 6631		0.217 3369	9.932 0271		773	
228	9.714 7027	125	9.782 6802	171	0.217 3198	9.932 0225	46	772	
229	9.714 7152	125	9.782 6973	171	0.217 3027	9.932 0179	46	771	
		125		171			46		
.230	9.714 7277		9.782 7144		0.217 2856	9.932 0133		.770	
		125		171			46		
231	9.714 7402		9.782 7315		0.217 2685	9.932 0087		769	
232	9.714 7527	125	9.782 7485	170	0.217 2515	9.932 0041	46	768	
233	9.714 7652	125	9.782 7656	171	0.217 2344	9.931 9995	46	767	
		125		171			46		
234	9.714 7777		9.782 7827		0.217 2173	9.931 9949		766	
235	9.714 7902	125	9.782 7998	171	0.217 2002	9.931 9903	46	765	
236	9.714 8027	125	9.782 8169	171	0.217 1831	9.931 9857	46	764	
		125		171			46		
237	9.714 8152		9.782 8340		0.217 1660	9.931 9811		763	
238	9.714 8277	125	9.782 8511	171	0.217 1489	9.931 9765	46	762	
239	9.714 8401	124	9.782 8682	171	0.217 1318	9.931 9719	46	761	
		125		171			46		
.240	9.714 8526		9.782 8853		0.217 1147	9.931 9673		.760	
		125		171			46		
241	9.714 8651		9.782 9024		0.217 0976	9.931 9627		759	
242	9.714 8776	125	9.782 9195	171	0.217 0805	9.931 9581	46	758	
243	9.714 8901	125	9.782 9366	171	0.217 0634	9.931 9535	46	757	
		125		171			46		
244	9.714 9026		9.782 9537		0.217 0463	9.931 9489		756	
245	9.714 9151	125	9.782 9708	171	0.217 0292	9.931 9443	46	755	
246	9.714 9276	125	9.782 9879	171	0.217 0121	9.931 9397	46	754	
		125		171			46		
247	9.714 9401		9.783 0050		0.216 9950	9.931 9351		753	
248	9.714 9526	125	9.783 0221	171	0.216 9779	9.931 9305	46	752	
249	9.714 9651	125	9.783 0391	170	0.216 9609	9.931 9259	46	751	
		125		171			46		
.250	9.714 9776		9.783 0562		0.216 9438	9.931 9213		.750	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	172	171
1	17.2	17.1
2	34.4	34.2
3	51.6	51.3
4	68.8	68.4
5	86.0	85.5
6	103.2	102.6
7	120.4	119.7
8	137.6	136.8
9	154.8	153.9

	170
1	17.0
2	34.0
3	51.0
4	68.0
5	85.0
6	102.0
7	119.0
8	136.0
9	153.0

	126	125
1	12.6	12.5
2	25.2	25.0
3	37.8	37.5
4	50.4	50.0
5	63.0	62.5
6	75.6	75.0
7	88.2	87.5
8	100.8	100.0
9	113.4	112.5

	124
1	12.4
2	24.8
3	37.2
4	49.6
5	62.0
6	74.4
7	86.8
8	99.2
9	111.6

	46	45
1	4.6	4.5
2	9.2	9.0
3	13.8	13.5
4	18.4	18.0
5	23.0	22.5
6	27.6	27.0
7	32.2	31.5
8	36.8	36.0
9	41.4	40.5

58°.800 — 58°.750

31°.250 — 31°.300

31°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.714 9776		9.783 0562		0.216 9438	9.931 9213		.750	
		125		171			46		
251	9.714 9901		9.783 0733		0.216 9267	9.931 9167		749	
252	9.715 0026	125	9.783 0904	171	0.216 9096	9.931 9121	46	748	
253	9.715 0151	125	9.783 1075	171	0.216 8925	9.931 9075	46	747	
		124		171			46		
254	9.715 0275		9.783 1246		0.216 8754	9.931 9029		746	
255	9.715 0400	125	9.783 1417	171	0.216 8583	9.931 8983	46	745	
256	9.715 0525	125	9.783 1588	171	0.216 8412	9.931 8937	46	744	
		125		171			46		
257	9.715 0650		9.783 1759		0.216 8241	9.931 8891		743	
258	9.715 0775	125	9.783 1930	171	0.216 8070	9.931 8845	46	742	
259	9.715 0900	125	9.783 2100	170	0.216 7900	9.931 8799	46	741	
		125		171			46		
.260	9.715 1025		9.783 2271		0.216 7729	9.931 8753		.740	
		125		171			46		
261	9.715 1150		9.783 2442		0.216 7558	9.931 8707		739	
262	9.715 1274	124	9.783 2613	171	0.216 7387	9.931 8661	46	738	
263	9.715 1399	125	9.783 2784	171	0.216 7216	9.931 8615	46	737	
		125		171			46		
264	9.715 1524		9.783 2955		0.216 7045	9.931 8569		736	
265	9.715 1649	125	9.783 3126	171	0.216 6874	9.931 8523	46	735	
266	9.715 1774	125	9.783 3296	170	0.216 6704	9.931 8477	46	734	
		125		171			46		
267	9.715 1899		9.783 3467		0.216 6533	9.931 8431		733	
268	9.715 2023	124	9.783 3638	171	0.216 6362	9.931 8385	46	732	
269	9.715 2148	125	9.783 3809	171	0.216 6191	9.931 8339	46	731	
		125		171			46		
.270	9.715 2273		9.783 3980		0.216 6020	9.931 8293		.730	
		125		171			46		
271	9.715 2398		9.783 4151		0.216 5849	9.931 8247		729	
272	9.715 2523	125	9.783 4322	171	0.216 5678	9.931 8201	46	728	
273	9.715 2647	124	9.783 4492	170	0.216 5508	9.931 8155	46	727	
		125		171			46		
274	9.715 2772		9.783 4663		0.216 5337	9.931 8109		726	
275	9.715 2897	125	9.783 4834	171	0.216 5166	9.931 8063	46	725	
276	9.715 3022	125	9.783 5005	171	0.216 4995	9.931 8017	46	724	
		125		171			46		
277	9.715 3147		9.783 5176		0.216 4824	9.931 7971		723	
278	9.715 3271	124	9.783 5347	171	0.216 4653	9.931 7925	46	722	
279	9.715 3396	125	9.783 5517	170	0.216 4483	9.931 7879	46	721	
		125		171			46		
.280	9.715 3521		9.783 5688		0.216 4312	9.931 7833		.720	
		125		171			46		
281	9.715 3646		9.783 5859		0.216 4141	9.931 7787		719	
282	9.715 3770	124	9.783 6030	171	0.216 3970	9.931 7741	46	718	
283	9.715 3895	125	9.783 6201	171	0.216 3799	9.931 7695	46	717	
		125		170			46		
284	9.715 4020		9.783 6371		0.216 3629	9.931 7649		716	
285	9.715 4145	125	9.783 6542	171	0.216 3458	9.931 7603	46	715	
286	9.715 4269	124	9.783 6713	171	0.216 3287	9.931 7556	47	714	
		125		171			46		
287	9.715 4394		9.783 6884		0.216 3116	9.931 7510		713	
288	9.715 4519	125	9.783 7055	171	0.216 2945	9.931 7464	46	712	
289	9.715 4644	125	9.783 7225	170	0.216 2775	9.931 7418	46	711	
		124		171			46		
.290	9.715 4768		9.783 7396		0.216 2604	9.931 7372		.710	
		125		171			46		
291	9.715 4893		9.783 7567		0.216 2433	9.931 7326		709	
292	9.715 5018	125	9.783 7738	171	0.216 2262	9.931 7280	46	708	
293	9.715 5142	124	9.783 7909	171	0.216 2091	9.931 7234	46	707	
		125		170			46		
294	9.715 5267		9.783 8079		0.216 1921	9.931 7188		706	
295	9.715 5392	125	9.783 8250	171	0.216 1750	9.931 7142	46	705	
296	9.715 5517	125	9.783 8421	171	0.216 1579	9.931 7096	46	704	
		124		171			46		
297	9.715 5641		9.783 8592		0.216 1408	9.931 7050		703	
298	9.715 5766	125	9.783 8762	170	0.216 1238	9.931 7004	46	702	
299	9.715 5891	125	9.783 8933	171	0.216 1067	9.931 6958	46	701	
		124		171			47		
.300	9.715 6015		9.783 9104		0.216 0896	9.931 6911		.700	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	171	170
1	17.1	17.0
2	34.2	34.0
3	51.3	51.0
4	68.4	68.0
5	85.5	85.0
6	102.6	102.0
7	119.7	119.0
8	136.8	136.0
9	153.9	153.0

	125
1	12.5
2	25.0
3	37.5
4	50.0
5	62.5
6	75.0
7	87.5
8	100.0
9	112.5

	124
1	12.4
2	24.8
3	37.2
4	49.6
5	62.0
6	74.4
7	86.8
8	99.2
9	111.6

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.750 — 58°.700

$31^\circ.300 - 31^\circ.350$

31°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.715 6015		9.783 9104		0.216 0896	9.931 6911		.700	
		125		171			46		
301	9.715 6140		9.783 9275		0.216 0725	9.931 6865		699	
302	9.715 6265	125	9.783 9445	170	0.216 0555	9.931 6819	46	698	
303	9.715 6389	124	9.783 9616	171	0.216 0384	9.931 6773	46	697	
		125		171			46		
304	9.715 6514		9.783 9787		0.216 0213	9.931 6727		696	
305	9.715 6639	125	9.783 9958	171	0.216 0042	9.931 6681	46	695	
306	9.715 6763	124	9.784 0128	170	0.215 9872	9.931 6635	46	694	
		125		171			46		
307	9.715 6888		9.784 0299		0.215 9701	9.931 6589		693	
308	9.715 7012	124	9.784 0470	171	0.215 9530	9.931 6543	46	692	
309	9.715 7137	125	9.784 0641	171	0.215 9359	9.931 6497	46	691	
		125		170			47		
.310	9.715 7262		9.784 0811		0.215 9189	9.931 6450		.690	
		124		171			46		
311	9.715 7386		9.784 0982		0.215 9018	9.931 6404		689	
312	9.715 7511	125	9.784 1153	171	0.215 8847	9.931 6358	46	688	
313	9.715 7636	125	9.784 1323	170	0.215 8677	9.931 6312	46	687	
		124		171			46		
314	9.715 7760		9.784 1494		0.215 8506	9.931 6266		686	
315	9.715 7885	125	9.784 1665	171	0.215 8335	9.931 6220	46	685	
316	9.715 8009	124	9.784 1836	171	0.215 8164	9.931 6174	46	684	
		125		170			46		
317	9.715 8134		9.784 2006		0.215 7994	9.931 6128		683	
318	9.715 8258	124	9.784 2177	171	0.215 7823	9.931 6082	46	682	
319	9.715 8383	125	9.784 2348	171	0.215 7652	9.931 6035	47	681	
		125		170			46		
.320	9.715 8508		9.784 2518		0.215 7482	9.931 5989		.680	
		124		171			46		
321	9.715 8632		9.784 2689		0.215 7311	9.931 5943		679	
322	9.715 8757	125	9.784 2860	171	0.215 7140	9.931 5897	46	678	
323	9.715 8881	124	9.784 3030	170	0.215 6970	9.931 5851	46	677	
		125		171			46		
324	9.715 9006		9.784 3201		0.215 6799	9.931 5805		676	
325	9.715 9130	124	9.784 3372	171	0.215 6628	9.931 5759	46	675	
326	9.715 9255	125	9.784 3542	170	0.215 6458	9.931 5713	46	674	
		125		171			47		
327	9.715 9380		9.784 3713		0.215 6287	9.931 5666		673	
328	9.715 9504	124	9.784 3884	171	0.215 6116	9.931 5620	46	672	
329	9.715 9629	125	9.784 4054	170	0.215 5946	9.931 5574	46	671	
		124		171			46		
.330	9.715 9753		9.784 4225		0.215 5775	9.931 5528		.670	
		125		171			46		
331	9.715 9878		9.784 4396		0.215 5604	9.931 5482		669	
332	9.716 0002	124	9.784 4566	170	0.215 5434	9.931 5436	46	668	
333	9.716 0127	125	9.784 4737	171	0.215 5263	9.931 5390	46	667	
		124		171			47		
334	9.716 0251		9.784 4908		0.215 5092	9.931 5343		666	
335	9.716 0376	125	9.784 5078	170	0.215 4922	9.931 5297	46	665	
336	9.716 0500	124	9.784 5249	171	0.215 4751	9.931 5251	46	664	
		125		171			46		
337	9.716 0625		9.784 5420		0.215 4580	9.931 5205		663	
338	9.716 0749	124	9.784 5590	170	0.215 4410	9.931 5159	46	662	
339	9.716 0874	125	9.784 5761	171	0.215 4239	9.931 5113	46	661	
		124		171			46		
.340	9.716 0998		9.784 5932		0.215 4068	9.931 5067		.660	
		125		170			47		
341	9.716 1123		9.784 6102		0.215 3898	9.931 5020		659	
342	9.716 1247	124	9.784 6273	171	0.215 3727	9.931 4974	46	658	
343	9.716 1371	124	9.784 6443	170	0.215 3557	9.931 4928	46	657	
		125		171			46		
344	9.716 1496		9.784 6614		0.215 3386	9.931 4882		656	
345	9.716 1620	124	9.784 6785	171	0.215 3215	9.931 4836	46	655	
346	9.716 1745	125	9.784 6955	170	0.215 3045	9.931 4790	46	654	
		124		171			47		
347	9.716 1869		9.784 7126		0.215 2874	9.931 4743		653	
348	9.716 1994	125	9.784 7296	170	0.215 2704	9.931 4697	46	652	
349	9.716 2118	124	9.784 7467	171	0.215 2533	9.931 4651	46	651	
		125		171			46		
.350	9.716 2243		9.784 7638		0.215 2362	9.931 4605		.650	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	171	170
1	17.1	17.0
2	34.2	34.0
3	51.3	51.0
4	68.4	68.0
5	85.5	85.0
6	102.6	102.0
7	119.7	119.0
8	136.8	136.0
9	153.9	153.0

	125
1	12.5
2	25.0
3	37.5
4	50.0
5	62.5
6	75.0
7	87.5
8	100.0
9	112.5

	124
1	12.4
2	24.8
3	37.2
4	49.6
5	62.0
6	74.4
7	86.8
8	99.2
9	111.6

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

$58^\circ.700 - 58^\circ.650$

31°.350 — 31°.400

31°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.716 2243		9.784 7638		0.215 2362	9.931 4605		.650	
		124		170			46		
351	9.716 2367		9.784 7808		0.215 2192	9.931 4559		649	
352	9.716 2491	124	9.784 7979	171	0.215 2021	9.931 4512	47	648	
353	9.716 2616	125	9.784 8149	170	0.215 1851	9.931 4466	46	647	
		124		171			46		
354	9.716 2740		9.784 8320		0.215 1680	9.931 4420		646	
355	9.716 2865	125	9.784 8491	171	0.215 1509	9.931 4374	46	645	
356	9.716 2989	124	9.784 8661	170	0.215 1339	9.931 4328	46	644	
		124		171			46		
357	9.716 3113		9.784 8832		0.215 1168	9.931 4282		643	
358	9.716 3238	125	9.784 9002	170	0.215 0998	9.931 4235	47	642	
359	9.716 3362	124	9.784 9173	171	0.215 0827	9.931 4189	46	641	
		124		171			46		
.360	9.716 3486		9.784 9344		0.215 0656	9.931 4143		.640	
		125		170			46		
361	9.716 3611		9.784 9514		0.215 0486	9.931 4097		639	
362	9.716 3735	124	9.784 9685	171	0.215 0315	9.931 4051	46	638	
363	9.716 3860	125	9.784 9855	170	0.215 0145	9.931 4004	47	637	
		124		171			46		
364	9.716 3984		9.785 0026		0.214 9974	9.931 3958		636	
365	9.716 4108	124	9.785 0196	170	0.214 9804	9.931 3912	46	635	
366	9.716 4233	125	9.785 0367	171	0.214 9633	9.931 3866	46	634	
		124		170			46		
367	9.716 4357		9.785 0537		0.214 9463	9.931 3820		633	
368	9.716 4481	124	9.785 0708	171	0.214 9292	9.931 3773	47	632	
369	9.716 4606	125	9.785 0879	171	0.214 9121	9.931 3727	46	631	
		124		170			46		
.370	9.716 4730		9.785 1049		0.214 8951	9.931 3681		.630	
		124		171			46		
371	9.716 4854		9.785 1220		0.214 8780	9.931 3635		629	
372	9.716 4979	125	9.785 1390	170	0.214 8610	9.931 3589	46	628	
373	9.716 5103	124	9.785 1561	171	0.214 8439	9.931 3542	47	627	
		124		170			46		
374	9.716 5227		9.785 1731		0.214 8269	9.931 3496		626	
375	9.716 5352	125	9.785 1902	171	0.214 8098	9.931 3450	46	625	
376	9.716 5476	124	9.785 2072	170	0.214 7928	9.931 3404	46	624	
		124		171			47		
377	9.716 5600		9.785 2243		0.214 7757	9.931 3357		623	
378	9.716 5724	124	9.785 2413	170	0.214 7587	9.931 3311	46	622	
379	9.716 5849	125	9.785 2584	171	0.214 7416	9.931 3265	46	621	
		124		170			46		
.380	9.716 5973		9.785 2754		0.214 7246	9.931 3219		.620	
		124		171			47		
381	9.716 6097		9.785 2925		0.214 7075	9.931 3172		619	
382	9.716 6222	125	9.785 3095	170	0.214 6905	9.931 3126	46	618	
383	9.716 6346	124	9.785 3266	171	0.214 6734	9.931 3080	46	617	
		124		170			46		
384	9.716 6470		9.785 3436		0.214 6564	9.931 3034		616	
385	9.716 6594	124	9.785 3607	171	0.214 6393	9.931 2988	46	615	
386	9.716 6719	125	9.785 3777	170	0.214 6223	9.931 2941	47	614	
		124		171			46		
387	9.716 6843		9.785 3948		0.214 6052	9.931 2895		613	
388	9.716 6967	124	9.785 4118	170	0.214 5882	9.931 2849	46	612	
389	9.716 7091	124	9.785 4289	171	0.214 5711	9.931 2803	46	611	
		124		170			47		
.390	9.716 7215		9.785 4459		0.214 5541	9.931 2756		.610	
		125		171			46		
391	9.716 7340		9.785 4630		0.214 5370	9.931 2710		609	
392	9.716 7464	124	9.785 4800	170	0.214 5200	9.931 2664	46	608	
393	9.716 7588	124	9.785 4971	171	0.214 5029	9.931 2618	46	607	
		124		170			47		
394	9.716 7712		9.785 5141		0.214 4859	9.931 2571		606	
395	9.716 7837	125	9.785 5312	171	0.214 4688	9.931 2525	46	605	
396	9.716 7961	124	9.785 5482	170	0.214 4518	9.931 2479	46	604	
		124		170			46		
397	9.716 8085		9.785 5652		0.214 4348	9.931 2433		603	
398	9.716 8209	124	9.785 5823	171	0.214 4177	9.931 2386	47	602	
399	9.716 8333	124	9.785 5993	170	0.214 4007	9.931 2340	46	601	
		125		171			46		
.400	9.716 8458		9.785 6164		0.214 3836	9.931 2294		.600	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	171	170
1	17.1	17.0
2	34.2	34.0
3	51.3	51.0
4	68.4	68.0
5	85.5	85.0
6	102.6	102.0
7	119.7	119.0
8	136.8	136.0
9	153.9	153.0

	125
1	12.5
2	25.0
3	37.5
4	50.0
5	62.5
6	75.0
7	87.5
8	100.0
9	112.5

	124
1	12.4
2	24.8
3	37.2
4	49.6
5	62.0
6	74.4
7	86.8
8	99.2
9	111.6

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.650 — 58°.600

31°.400 — 31°.450

31°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.716 8458		9.785 6164		0.214 3836	9.931 2294		.600	
		124		170			47		
401	9.716 8582		9.785 6334		0.214 3666	9.931 2247		599	
402	9.716 8706	124	9.785 6505	171	0.214 3495	9.931 2201	46	598	
403	9.716 8830	124	9.785 6675	170	0.214 3325	9.931 2155	46	597	
		124		171			46		
404	9.716 8954		9.785 6846		0.214 3154	9.931 2109		596	
405	9.716 9078	124	9.785 7016	170	0.214 2984	9.931 2062	47	595	
406	9.716 9203	125	9.785 7186	170	0.214 2814	9.931 2016	46	594	
		124		171			46		
407	9.716 9327		9.785 7357		0.214 2643	9.931 1970		593	
408	9.716 9451	124	9.785 7527	170	0.214 2473	9.931 1924	46	592	
409	9.716 9575	124	9.785 7698	171	0.214 2302	9.931 1877	47	591	
		124		170			46		
.410	9.716 9699		9.785 7868		0.214 2132	9.931 1831		.590	
		124		171			46		
411	9.716 9823		9.785 8039		0.214 1961	9.931 1785		589	
412	9.716 9947	124	9.785 8209	170	0.214 1791	9.931 1738	47	588	
413	9.717 0071	124	9.785 8379	170	0.214 1621	9.931 1692	46	587	
		125		171			46		
414	9.717 0196		9.785 8550		0.214 1450	9.931 1646		586	
415	9.717 0320	124	9.785 8720	170	0.214 1280	9.931 1600	46	585	
416	9.717 0444	124	9.785 8891	171	0.214 1109	9.931 1553	47	584	
		124		170			46		
417	9.717 0568		9.785 9061		0.214 0939	9.931 1507		583	
418	9.717 0692	124	9.785 9231	170	0.214 0769	9.931 1461	46	582	
419	9.717 0816	124	9.785 9402	171	0.214 0598	9.931 1414	47	581	
		124		170			46		
.420	9.717 0940		9.785 9572		0.214 0428	9.931 1368		.580	
		124		170			46		
421	9.717 1064		9.785 9742		0.214 0258	9.931 1322		579	
422	9.717 1188	124	9.785 9913	171	0.214 0087	9.931 1275	47	578	
423	9.717 1312	124	9.786 0083	170	0.213 9917	9.931 1229	46	577	
		124		171			46		
424	9.717 1436		9.786 0254		0.213 9746	9.931 1183		576	
425	9.717 1560	124	9.786 0424	170	0.213 9576	9.931 1136	47	575	
426	9.717 1685	125	9.786 0594	170	0.213 9406	9.931 1090	46	574	
		124		171			46		
427	9.717 1809		9.786 0765		0.213 9235	9.931 1044		573	
428	9.717 1933	124	9.786 0935	170	0.213 9065	9.931 0998	46	572	
429	9.717 2057	124	9.786 1105	170	0.213 8895	9.931 0951	47	571	
		124		171			46		
.430	9.717 2181		9.786 1276		0.213 8724	9.931 0905		.570	
		124		170			46		
431	9.717 2305		9.786 1446		0.213 8554	9.931 0859		569	
432	9.717 2429	124	9.786 1617	171	0.213 8383	9.931 0812	47	568	
433	9.717 2553	124	9.786 1787	170	0.213 8213	9.931 0766	46	567	
		124		170			46		
434	9.717 2677		9.786 1957		0.213 8043	9.931 0720		566	
435	9.717 2801	124	9.786 2128	171	0.213 7872	9.931 0673	47	565	
436	9.717 2925	124	9.786 2298	170	0.213 7702	9.931 0627	46	564	
		124		170			46		
437	9.717 3049		9.786 2468		0.213 7532	9.931 0581		563	
438	9.717 3173	124	9.786 2639	171	0.213 7361	9.931 0534	47	562	
439	9.717 3297	124	9.786 2809	170	0.213 7191	9.931 0488	46	561	
		124		170			46		
.440	9.717 3421		9.786 2979		0.213 7021	9.931 0442		.560	
		124		171			47		
441	9.717 3545		9.786 3150		0.213 6850	9.931 0395		559	
442	9.717 3669	124	9.786 3320	170	0.213 6680	9.931 0349	46	558	
443	9.717 3793	124	9.786 3490	170	0.213 6510	9.931 0303	46	557	
		124		170			47		
444	9.717 3917		9.786 3660		0.213 6340	9.931 0256		556	
445	9.717 4041	124	9.786 3831	171	0.213 6169	9.931 0210	46	555	
446	9.717 4165	124	9.786 4001	170	0.213 5999	9.931 0163	47	554	
		124		170			46		
447	9.717 4289		9.786 4171		0.213 5829	9.931 0117		553	
448	9.717 4412	123	9.786 4342	171	0.213 5658	9.931 0071	46	552	
449	9.717 4536	124	9.786 4512	170	0.213 5488	9.931 0024	47	551	
		124		170			46		
.450	9.717 4660		9.786 4682		0.213 5318	9.930 9978		.550	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	171	170
1	17.1	17.0
2	34.2	34.0
3	51.3	51.0
4	68.4	68.0
5	85.5	85.0
6	102.6	102.0
7	119.7	119.0
8	136.8	136.0
9	153.9	153.0

	125	124
1	12.5	12.4
2	25.0	24.8
3	37.5	37.2
4	50.0	49.6
5	62.5	62.0
6	75.0	74.4
7	87.5	86.8
8	100.0	99.2
9	112.5	111.6

	123
1	12.3
2	24.6
3	36.9
4	49.2
5	61.5
6	73.8
7	86.1
8	98.4
9	110.7

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.600 — 58°.550

31°.450 — 31°.500

31°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.717 4660		9.786 4682		0.213 5318	9.930 9978		.550	
		124		171			46		
451	9.717 4784		9.786 4853		0.213 5147	9.930 9932		549	
452	9.717 4908	124	9.786 5023	170	0.213 4977	9.930 9885	47	548	
453	9.717 5032	124	9.786 5193	170	0.213 4807	9.930 9839	46	547	
		124		170			46		
454	9.717 5156		9.786 5363		0.213 4637	9.930 9793		546	
455	9.717 5280	124	9.786 5534	171	0.213 4466	9.930 9746	47	545	
456	9.717 5404	124	9.786 5704	170	0.213 4296	9.930 9700	46	544	
		124		170			46		
457	9.717 5528		9.786 5874		0.213 4126	9.930 9654		543	
458	9.717 5652	124	9.786 6045	171	0.213 3955	9.930 9607	47	542	
459	9.717 5776	124	9.786 6215	170	0.213 3785	9.930 9561	46	541	
		123		170			47		
.460	9.717 5899		9.786 6385		0.213 3615	9.930 9514		.540	
		124		170			46		
461	9.717 6023		9.786 6555		0.213 3445	9.930 9468		539	
462	9.717 6147	124	9.786 6726	171	0.213 3274	9.930 9422	46	538	
463	9.717 6271	124	9.786 6896	170	0.213 3104	9.930 9375	47	537	
		124		170			46		
464	9.717 6395		9.786 7066		0.213 2934	9.930 9329		536	
465	9.717 6519	124	9.786 7236	170	0.213 2764	9.930 9282	47	535	
466	9.717 6643	124	9.786 7407	171	0.213 2593	9.930 9236	46	534	
		124		170			46		
467	9.717 6767		9.786 7577		0.213 2423	9.930 9190		533	
468	9.717 6890	123	9.786 7747	170	0.213 2253	9.930 9143	47	532	
469	9.717 7014	124	9.786 7917	170	0.213 2083	9.930 9097	46	531	
		124		171			46		
.470	9.717 7138		9.786 8088		0.213 1912	9.930 9051		.530	
		124		170			47		
471	9.717 7262		9.786 8258		0.213 1742	9.930 9004		529	
472	9.717 7386	124	9.786 8428	170	0.213 1572	9.930 8958	46	528	
473	9.717 7510	124	9.786 8598	170	0.213 1402	9.930 8911	47	527	
		123		170			46		
474	9.717 7633		9.786 8768		0.213 1232	9.930 8865		526	
475	9.717 7757	124	9.786 8939	171	0.213 1061	9.930 8819	46	525	
476	9.717 7881	124	9.786 9109	170	0.213 0891	9.930 8772	47	524	
		124		170			46		
477	9.717 8005		9.786 9279		0.213 0721	9.930 8726		523	
478	9.717 8129	124	9.786 9449	170	0.213 0551	9.930 8679	47	522	
479	9.717 8252	123	9.786 9620	171	0.213 0380	9.930 8633	46	521	
		124		170			47		
.480	9.717 8376		9.786 9790		0.213 0210	9.930 8586		.520	
		124		170			46		
481	9.717 8500		9.786 9960		0.213 0040	9.930 8540		519	
482	9.717 8624	124	9.787 0130	170	0.212 9870	9.930 8494	46	518	
483	9.717 8748	124	9.787 0300	170	0.212 9700	9.930 8447	47	517	
		123		170			46		
484	9.717 8871		9.787 0470		0.212 9530	9.930 8401		516	
485	9.717 8995	124	9.787 0641	171	0.212 9359	9.930 8354	47	515	
486	9.717 9119	124	9.787 0811	170	0.212 9189	9.930 8308	46	514	
		124		170			46		
487	9.717 9243		9.787 0981		0.212 9019	9.930 8262		513	
488	9.717 9366	123	9.787 1151	170	0.212 8849	9.930 8215	47	512	
489	9.717 9490	124	9.787 1321	170	0.212 8679	9.930 8169	46	511	
		124		171			47		
.490	9.717 9614		9.787 1492		0.212 8508	9.930 8122		.510	
		124		170			46		
491	9.717 9738		9.787 1662		0.212 8338	9.930 8076		509	
492	9.717 9861	123	9.787 1832	170	0.212 8168	9.930 8029	47	508	
493	9.717 9985	124	9.787 2002	170	0.212 7998	9.930 7983	46	507	
		124		170			46		
494	9.718 0109		9.787 2172		0.212 7828	9.930 7937		506	
495	9.718 0232	123	9.787 2342	170	0.212 7658	9.930 7890	47	505	
496	9.718 0356	124	9.787 2513	171	0.212 7487	9.930 7844	46	504	
		124		170			47		
497	9.718 0480		9.787 2683		0.212 7317	9.930 7797		503	
498	9.718 0604	124	9.787 2853	170	0.212 7147	9.930 7751	46	502	
499	9.718 0727	123	9.787 3023	170	0.212 6977	9.930 7704	47	501	
		124		170			46		
.500	9.718 0851		9.787 3193		0.212 6807	9.930 7658		.500	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	171	170
1	17.1	17.0
2	34.2	34.0
3	51.3	51.0
4	68.4	68.0
5	85.5	85.0
6	102.6	102.0
7	119.7	119.0
8	136.8	136.0
9	153.9	153.0

	124
1	12.4
2	24.8
3	37.2
4	49.6
5	62.0
6	74.4
7	86.8
8	99.2
9	111.6

	123
1	12.3
2	24.6
3	36.9
4	49.2
5	61.5
6	73.8
7	86.1
8	98.4
9	110.7

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.550 — 58°.500

31°.500 — 31°.550

31°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.718 0851		9.787 3193		0.212 6807	9.930 7658		.500	
		124		170			47		
501	9.718 0975		9.787 3363		0.212 6637	9.930 7611		499	
502	9.718 1098	123	9.787 3533	170	0.212 6467	9.930 7565	46	498	
503	9.718 1222	124	9.787 3704	171	0.212 6296	9.930 7519	46	497	
		124		170			47		
504	9.718 1346		9.787 3874		0.212 6126	9.930 7472		496	
505	9.718 1469	123	9.787 4044	170	0.212 5956	9.930 7426	46	495	
506	9.718 1593	124	9.787 4214	170	0.212 5786	9.930 7379	47	494	
		124		170			46		
507	9.718 1717		9.787 4384		0.212 5616	9.930 7333		493	
508	9.718 1840	123	9.787 4554	170	0.212 5446	9.930 7286	47	492	
509	9.718 1964	124	9.787 4724	170	0.212 5276	9.930 7240	46	491	
		124		170			47		
.510	9.718 2088		9.787 4894		0.212 5106	9.930 7193		.490	
		123		171			46		
511	9.718 2211		9.787 5065		0.212 4935	9.930 7147		489	
512	9.718 2335	124	9.787 5235	170	0.212 4765	9.930 7100	47	488	
513	9.718 2459	124	9.787 5405	170	0.212 4595	9.930 7054	46	487	
		123		170			47		
514	9.718 2582		9.787 5575		0.212 4425	9.930 7007		486	
515	9.718 2706	124	9.787 5745	170	0.212 4255	9.930 6961	46	485	
516	9.718 2829	123	9.787 5915	170	0.212 4085	9.930 6914	47	484	
		124		170			46		
517	9.718 2953		9.787 6085		0.212 3915	9.930 6868		483	
518	9.718 3077	124	9.787 6255	170	0.212 3745	9.930 6821	47	482	
519	9.718 3200	123	9.787 6425	170	0.212 3575	9.930 6775	46	481	
		124		170			46		
.520	9.718 3324		9.787 6595		0.212 3405	9.930 6729		.480	
		123		170			47		
521	9.718 3447		9.787 6765		0.212 3235	9.930 6682		479	
522	9.718 3571	124	9.787 6936	171	0.212 3064	9.930 6636	46	478	
523	9.718 3695	124	9.787 7106	170	0.212 2894	9.930 6589	47	477	
		123		170			46		
524	9.718 3818		9.787 7276		0.212 2724	9.930 6543		476	
525	9.718 3942	124	9.787 7446	170	0.212 2554	9.930 6496	47	475	
526	9.718 4065	123	9.787 7616	170	0.212 2384	9.930 6450	46	474	
		124		170			47		
527	9.718 4189		9.787 7786		0.212 2214	9.930 6403		473	
528	9.718 4313	124	9.787 7956	170	0.212 2044	9.930 6357	46	472	
529	9.718 4436	123	9.787 8126	170	0.212 1874	9.930 6310	47	471	
		124		170			46		
.530	9.718 4560		9.787 8296		0.212 1704	9.930 6264		.470	
		123		170			47		
531	9.718 4683		9.787 8466		0.212 1534	9.930 6217		469	
532	9.718 4807	124	9.787 8636	170	0.212 1364	9.930 6171	46	468	
533	9.718 4930	123	9.787 8806	170	0.212 1194	9.930 6124	47	467	
		124		170			46		
534	9.718 5054		9.787 8976		0.212 1024	9.930 6078		466	
535	9.718 5177	123	9.787 9146	170	0.212 0854	9.930 6031	47	465	
536	9.718 5301	124	9.787 9316	170	0.212 0684	9.930 5985	46	464	
		123		170			47		
537	9.718 5424		9.787 9486		0.212 0514	9.930 5938		463	
538	9.718 5548	124	9.787 9656	170	0.212 0344	9.930 5891	47	462	
539	9.718 5671	123	9.787 9826	170	0.212 0174	9.930 5845	46	461	
		124		170			47		
.540	9.718 5795		9.787 9996		0.212 0004	9.930 5798		.460	
		123		170			46		
541	9.718 5918		9.788 0166		0.211 9834	9.930 5752		459	
542	9.718 6042	124	9.788 0336	170	0.211 9664	9.930 5705	47	458	
543	9.718 6165	123	9.788 0506	170	0.211 9494	9.930 5659	46	457	
		124		170			47		
544	9.718 6289		9.788 0676		0.211 9324	9.930 5612		456	
545	9.718 6412	123	9.788 0846	170	0.211 9154	9.930 5566	46	455	
546	9.718 6536	124	9.788 1016	170	0.211 8984	9.930 5519	47	454	
		123		170			46		
547	9.718 6659		9.788 1186		0.211 8814	9.930 5473		453	
548	9.718 6783	124	9.788 1356	170	0.211 8644	9.930 5426	47	452	
549	9.718 6906	123	9.788 1526	170	0.211 8474	9.930 5380	46	451	
		124		170			47		
.550	9.718 7030		9.788 1696		0.211 8304	9.930 5333		.450	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	171	170
1	17.1	17.0
2	34.2	34.0
3	51.3	51.0
4	68.4	68.0
5	85.5	85.0
6	102.6	102.0
7	119.7	119.0
8	136.8	136.0
9	153.9	153.0

	124
1	12.4
2	24.8
3	37.2
4	49.6
5	62.0
6	74.4
7	86.8
8	99.2
9	111.6

	123
1	12.3
2	24.6
3	36.9
4	49.2
5	61.5
6	73.8
7	86.1
8	98.4
9	110.7

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.500 — 58°.450

31°.550 — 31°.600

31°	sin	d	tang	d	cotg	cos	d		P.P.
·550	9.718 7030		9.788 1696		0.211 8304	9.930 5333		·450	
		123		170			46		
551	9.718 7153		9.788 1866		0.211 8134	9.930 5287		449	
552	9.718 7276	123	9.788 2036	170	0.211 7964	9.930 5240	47	448	
553	9.718 7400	124	9.788 2206	170	0.211 7794	9.930 5193	47	447	
		123		170			46		
554	9.718 7523		9.788 2376		0.211 7624	9.930 5147		446	
555	9.718 7647	124	9.788 2546	170	0.211 7454	9.930 5100	47	445	
556	9.718 7770	123	9.788 2716	170	0.211 7284	9.930 5054	46	444	
		124		170			47		
557	9.718 7894		9.788 2886		0.211 7114	9.930 5007		443	
558	9.718 8017	123	9.788 3056	170	0.211 6944	9.930 4961	46	442	
559	9.718 8140	123	9.788 3226	170	0.211 6774	9.930 4914	47	441	
		124		170			46		
·560	9.718 8264		9.788 3396		0.211 6604	9.930 4868		·440	
		123		170			47		
561	9.718 8387		9.788 3566		0.211 6434	9.930 4821		439	
562	9.718 8511	124	9.788 3736	170	0.211 6264	9.930 4774	47	438	
563	9.718 8634	123	9.788 3906	170	0.211 6094	9.930 4728	46	437	
		123		170			47		
564	9.718 8757		9.788 4076		0.211 5924	9.930 4681		436	
565	9.718 8881	124	9.788 4246	170	0.211 5754	9.930 4635	46	435	
566	9.718 9004	123	9.788 4416	170	0.211 5584	9.930 4588	47	434	
		124		170			46		
567	9.718 9128		9.788 4586		0.211 5414	9.930 4542		433	
568	9.718 9251	123	9.788 4756	170	0.211 5244	9.930 4495	47	432	
569	9.718 9374	123	9.788 4926	170	0.211 5074	9.930 4449	46	431	
		124		170			47		
·570	9.718 9498		9.788 5096		0.211 4904	9.930 4402		·430	
		123		170			47		
571	9.718 9621		9.788 5266		0.211 4734	9.930 4355		429	
572	9.718 9744	123	9.788 5436	170	0.211 4564	9.930 4309	46	428	
573	9.718 9868	124	9.788 5605	169	0.211 4395	9.930 4262	47	427	
		123		170			46		
574	9.718 9991		9.788 5775		0.211 4225	9.930 4216		426	
575	9.719 0114	123	9.788 5945	170	0.211 4055	9.930 4169	47	425	
576	9.719 0238	124	9.788 6115	170	0.211 3885	9.930 4122	47	424	
		123		170			46		
577	9.719 0361		9.788 6285		0.211 3715	9.930 4076		423	
578	9.719 0484	123	9.788 6455	170	0.211 3545	9.930 4029	47	422	
579	9.719 0608	124	9.788 6625	170	0.211 3375	9.930 3983	46	421	
		123		170			47		
·580	9.719 0731		9.788 6795		0.211 3205	9.930 3936		·420	
		123		170			47		
581	9.719 0854		9.788 6965		0.211 3035	9.930 3889		419	
582	9.719 0978	124	9.788 7135	170	0.211 2865	9.930 3843	46	418	
583	9.719 1101	123	9.788 7305	170	0.211 2695	9.930 3796	47	417	
		123		169			46		
584	9.719 1224		9.788 7474		0.211 2526	9.930 3750		416	
585	9.719 1347	123	9.788 7644	170	0.211 2356	9.930 3703	47	415	
586	9.719 1471	124	9.788 7814	170	0.211 2186	9.930 3656	47	414	
		123		170			46		
587	9.719 1594		9.788 7984		0.211 2016	9.930 3610		413	
588	9.719 1717	123	9.788 8154	170	0.211 1846	9.930 3563	47	412	
589	9.719 1840	123	9.788 8324	170	0.211 1676	9.930 3517	46	411	
		124		170			47		
·590	9.719 1964		9.788 8494		0.211 1506	9.930 3470		·410	
		123		170			47		
591	9.719 2087		9.788 8664		0.211 1336	9.930 3423		409	
592	9.719 2210	123	9.788 8833	169	0.211 1167	9.930 3377	46	408	
593	9.719 2333	123	9.788 9003	170	0.211 0997	9.930 3330	47	407	
		124		170			46		
594	9.719 2457		9.788 9173		0.211 0827	9.930 3284		406	
595	9.719 2580	123	9.788 9343	170	0.211 0657	9.930 3237	47	405	
596	9.719 2703	123	9.788 9513	170	0.211 0487	9.930 3190	47	404	
		123		170			46		
597	9.719 2826		9.788 9683		0.211 0317	9.930 3144		403	
598	9.719 2950	124	9.788 9853	170	0.211 0147	9.930 3097	47	402	
599	9.719 3073	123	9.789 0022	169	0.210 9978	9.930 3050	47	401	
		123		170			46		
.600	9.719 3196		9.789 0192		0.210 9808	9.930 3004		·400	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	170	169
1	17.0	16.9
2	34.0	33.8
3	51.0	50.7
4	68.0	67.6
5	85.0	84.5
6	102.0	101.4
7	119.0	118.3
8	136.0	135.2
9	153.0	152.1

	124
1	12.4
2	24.8
3	37.2
4	49.6
5	62.0
6	74.4
7	86.8
8	99.2
9	111.6

	123
1	12.3
2	24.6
3	36.9
4	49.2
5	61.5
6	73.8
7	86.1
8	98.4
9	110.7

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.450 — 58°.400

31°.600 — 31°.650

31°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.719 3196		9.789 0192		0.210 9808	9.930 3004		**.400**	
		123		170			47		
601	9.719 3319		9.789 0362		0.210 9638	9.930 2957		399	
602	9.719 3442	123	9.789 0532	170	0.210 9468	9.930 2911	46	398	
603	9.719 3566	124	9.789 0702	170	0.210 9298	9.930 2864	47	397	
		123		170			47		
604	9.719 3689		9.789 0872		0.210 9128	9.930 2817		396	
605	9.719 3812	123	9.789 1041	169	0.210 8959	9.930 2771	46	395	
606	9.719 3935	123	9.789 1211	170	0.210 8789	9.930 2724	47	394	
		123		170			47		
607	9.719 4058		9.789 1381		0.210 8619	9.930 2677		393	
608	9.719 4182	124	9.789 1551	170	0.210 8449	9.930 2631	46	392	
609	9.719 4305	123	9.789 1721	170	0.210 8279	9.930 2584	47	391	
		123		170			47		
.610	9.719 4428		9.789 1891		0.210 8109	9.930 2537		**.390**	
		123		169			46		
611	9.719 4551		9.789 2060		0.210 7940	9.930 2491		389	
612	9.719 4674	123	9.789 2230	170	0.210 7770	9.930 2444	47	388	
613	9.719 4797	123	9.789 2400	170	0.210 7600	9.930 2397	47	387	
		124		170			46		
614	9.719 4921		9.789 2570		0.210 7430	9.930 2351		386	
615	9.719 5044	123	9.789 2740	170	0.210 7260	9.930 2304	47	385	
616	9.719 5167	123	9.789 2909	169	0.210 7091	9.930 2257	47	384	
		123		170			46		
617	9.719 5290		9.789 3079		0.210 6921	9.930 2211		383	
618	9.719 5413	123	9.789 3249	170	0.210 6751	9.930 2164	47	382	
619	9.719 5536	123	9.789 3419	170	0.210 6581	9.930 2117	47	381	
		123		169			46		
.620	9.719 5659		9.789 3588		0.210 6412	9.930 2071		**.380**	
		123		170			47		
621	9.719 5782		9.789 3758		0.210 6242	9.930 2024		379	
622	9.719 5905	123	9.789 3928	170	0.210 6072	9.930 1977	47	378	
623	9.719 6029	124	9.789 4098	170	0.210 5902	9.930 1931	46	377	
		123		170			47		
624	9.719 6152		9.789 4268		0.210 5732	9.930 1884		376	
625	9.719 6275	123	9.789 4437	169	0.210 5563	9.930 1837	47	375	
626	9.719 6398	123	9.789 4607	170	0.210 5393	9.930 1791	46	374	
		123		170			47		
627	9.719 6521		9.789 4777		0.210 5223	9.930 1744		373	
628	9.719 6644	123	9.789 4947	170	0.210 5053	9.930 1697	47	372	
629	9.719 6767	123	9.789 5116	169	0.210 4884	9.930 1651	46	371	
		123		170			47		
.630	9.719 6890		9.789 5286		0.210 4714	9.930 1604		**.370**	
		123		170			47		
631	9.719 7013		9.789 5456		0.210 4544	9.930 1557		369	
632	9.719 7136	123	9.789 5626	170	0.210 4374	9.930 1511	46	368	
633	9.719 7259	123	9.789 5795	169	0.210 4205	9.930 1464	47	367	
		123		170			47		
634	9.719 7382		9.789 5965		0.210 4035	9.930 1417		366	
635	9.719 7505	123	9.789 6135	170	0.210 3865	9.930 1371	46	365	
636	9.719 7628	123	9.789 6305	170	0.210 3695	9.930 1324	47	364	
		123		169			47		
637	9.719 7751		9.789 6474		0.210 3526	9.930 1277		363	
638	9.719 7875	124	9.789 6644	170	0.210 3356	9.930 1230	47	362	
639	9.719 7998	123	9.789 6814	170	0.210 3186	9.930 1184	46	361	
		123		169			47		
.640	9.719 8121		9.789 6983		0.210 3017	9.930 1137		**.360**	
		123		170			47		
641	9.719 8244		9.789 7153		0.210 2847	9.930 1090		359	
642	9.719 8367	123	9.789 7323	170	0.210 2677	9.930 1044	46	358	
643	9.719 8490	123	9.789 7493	170	0.210 2507	9.930 0997	47	357	
		123		169			47		
644	9.719 8613		9.789 7662		0.210 2338	9.930 0950		356	
645	9.719 8736	123	9.789 7832	170	0.210 2168	9.930 0904	46	355	
646	9.719 8859	123	9.789 8002	170	0.210 1998	9.930 0857	47	354	
		123		169			47		
647	9.719 8982		9.789 8171		0.210 1829	9.930 0810		353	
648	9.719 9105	123	9.789 8341	170	0.210 1659	9.930 0763	47	352	
649	9.719 9228	123	9.789 8511	170	0.210 1489	9.930 0717	46	351	
		122		170			47		
.650	9.719 9350		9.789 8681		0.210 1319	9.930 0670		**.350**	
	cos	d	cotg	d	tang	sin	d	**58°**	P.P.

	170	169
1	17.0	16.9
2	34.0	33.8
3	51.0	50.7
4	68.0	67.6
5	85.0	84.5
6	102.0	101.4
7	119.0	118.3
8	136.0	135.2
9	153.0	152.1

	124	123
1	12.4	12.3
2	24.8	24.6
3	37.2	36.9
4	49.6	49.2
5	62.0	61.5
6	74.4	73.8
7	86.8	86.1
8	99.2	98.4
9	111.6	110.7

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.400 — 58°.350

31°.650 — 31°.700

31°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.719 9350		9.789 8681		0.210 1319	9.930 0670		.350	
		123		169			47		
651	9.719 9473		9.789 8850		0.210 1150	9.930 0623		349	
652	9.719 9596	123	9.789 9020	170	0.210 0980	9.930 0576	47	348	
653	9.719 9719	123	9.789 9190	170	0.210 0810	9.930 0530	46	347	
		123		169			47		
654	9.719 9842		9.789 9359		0.210 0641	9.930 0483		346	
655	9.719 9965	123	9.789 9529	170	0.210 0471	9.930 0436	47	345	
656	9.720 0088	123	9.789 9699	170	0.210 0301	9.930 0390	46	344	
		123		169			47		
657	9.720 0211		9.789 9868		0.210 0132	9.930 0343		343	
658	9.720 0334	123	9.790 0038	170	0.209 9962	9.930 0296	47	342	
659	9.720 0457	123	9.790 0208	170	0.209 9792	9.930 0249	47	341	
		123		169			46		
.660	9.720 0580		9.790 0377		0.209 9623	9.930 0203		.340	
		123		170			47		
661	9.720 0703		9.790 0547		0.209 9453	9.930 0156		339	
662	9.720 0826	123	9.790 0717	170	0.209 9283	9.930 0109	47	338	
663	9.720 0949	123	9.790 0886	169	0.209 9114	9.930 0062	47	337	
		123		170			46		
664	9.720 1072		9.790 1056		0.209 8944	9.930 0016		336	
665	9.720 1194	122	9.790 1226	170	0.209 8774	9.929 9969	47	335	
666	9.720 1317	123	9.790 1395	169	0.209 8605	9.929 9922	47	334	
		123		170			47		
667	9.720 1440		9.790 1565		0.209 8435	9.929 9875		333	
668	9.720 1563	123	9.790 1735	170	0.209 8265	9.929 9829	46	332	
669	9.720 1686	123	9.790 1904	169	0.209 8096	9.929 9782	47	331	
		123		170			47		
.670	9.720 1809		9.790 2074		0.209 7926	9.929 9735		.330	
		123		169			47		
671	9.720 1932		9.790 2243		0.209 7757	9.929 9688		329	
672	9.720 2055	123	9.790 2413	170	0.209 7587	9.929 9642	46	328	
673	9.720 2177	122	9.790 2583	170	0.209 7417	9.929 9595	47	327	
		123		169			47		
674	9.720 2300		9.790 2752		0.209 7248	9.929 9548		326	
675	9.720 2423	123	9.790 2922	170	0.209 7078	9.929 9501	47	325	
676	9.720 2546	123	9.790 3092	170	0.209 6908	9.929 9455	46	324	
		123		169			47		
677	9.720 2669		9.790 3261		0.209 6739	9.929 9408		323	
678	9.720 2792	123	9.790 3431	170	0.209 6569	9.929 9361	47	322	
679	9.720 2915	123	9.790 3600	169	0.209 6400	9.929 9314	47	321	
		122		170			47		
.680	9.720 3037		9.790 3770		0.209 6230	9.929 9267		.320	
		123		170			46		
681	9.720 3160		9.790 3940		0.209 6060	9.929 9221		319	
682	9.720 3283	123	9.790 4109	169	0.209 5891	9.929 9174	47	318	
683	9.720 3406	123	9.790 4279	170	0.209 5721	9.929 9127	47	317	
		123		169			47		
684	9.720 3529		9.790 4448		0.209 5552	9.929 9080		316	
685	9.720 3651	122	9.790 4618	170	0.209 5382	9.929 9034	46	315	
686	9.720 3774	123	9.790 4788	170	0.209 5212	9.929 8987	47	314	
		123		169			47		
687	9.720 3897		9.790 4957		0.209 5043	9.929 8940		313	
688	9.720 4020	123	9.790 5127	170	0.209 4873	9.929 8893	47	312	
689	9.720 4143	123	9.790 5296	169	0.209 4704	9.929 8846	47	311	
		122		170			46		
.690	9.720 4265		9.790 5466		0.209 4534	9.929 8800		.310	
		123		169			47		
691	9.720 4388		9.790 5635		0.209 4365	9.929 8753		309	
692	9.720 4511	123	9.790 5805	170	0.209 4195	9.929 8706	47	308	
693	9.720 4634	123	9.790 5975	170	0.209 4025	9.929 8659	47	307	
		122		169			47		
694	9.720 4756		9.790 6144		0.209 3856	9.929 8612		306	
695	9.720 4879	123	9.790 6314	170	0.209 3686	9.929 8566	46	305	
696	9.720 5002	123	9.790 6483	169	0.209 3517	9.929 8519	47	304	
		123		170			47		
697	9.720 5125		9.790 6653		0.209 3347	9.929 8472		303	
698	9.720 5247	122	9.790 6822	169	0.209 3178	9.929 8425	47	302	
699	9.720 5370	123	9.790 6992	170	0.209 3008	9.929 8378	47	301	
		123		169			46		
.700	9.720 5493		9.790 7161		0.209 2839	9.929 8332		.300	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	170	169
1	17.0	16.9
2	34.0	33.8
3	51.0	50.7
4	68.0	67.6
5	85.0	84.5
6	102.0	101.4
7	119.0	118.3
8	136.0	135.2
9	153.0	152.1

	123
1	12.3
2	24.6
3	36.9
4	49.2
5	61.5
6	73.8
7	86.1
8	98.4
9	110.7

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.350 — 58°.300

31°.700 — 31°.750

31°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.720 5493		9.790 7161		0.209 2839	9.929 8332		.300	
		123		170			47		
701	9.720 5616		9.790 7331		0.209 2669	9.929 8285		299	
702	9.720 5738	122	9.790 7500	169	0.209 2500	9.929 8238	47	298	
703	9.720 5861	123	9.790 7670	170	0.209 2330	9.929 8191	47	297	
		123		170			47		
704	9.720 5984		9.790 7840		0.209 2160	9.929 8144		296	
705	9.720 6106	122	9.790 8009	169	0.209 1991	9.929 8097	47	295	
706	9.720 6229	123	9.790 8179	170	0.209 1821	9.929 8051	46	294	
		123		169			47		
707	9.720 6352		9.790 8348		0.209 1652	9.929 8004		293	
708	9.720 6475	123	9.790 8518	170	0.209 1482	9.929 7957	47	292	
709	9.720 6597	122	9.790 8687	169	0.209 1313	9.929 7910	47	291	
		123		170			47		
.710	9.720 6720		9.790 8857		0.209 1143	9.929 7863		.290	
		123		169			47		
711	9.720 6843		9.790 9026		0.209 0974	9.929 7816		289	
712	9.720 6965	122	9.790 9196	170	0.209 0804	9.929 7770	46	288	
713	9.720 7088	123	9.790 9365	169	0.209 0635	9.929 7723	47	287	
		123		170			47		
714	9.720 7211		9.790 9535		0.209 0465	9.929 7676		286	
715	9.720 7333	122	9.790 9704	169	0.209 0296	9.929 7629	47	285	
716	9.720 7456	123	9.790 9874	170	0.209 0126	9.929 7582	47	284	
		123		169			47		
717	9.720 7579		9.791 0043		0.208 9957	9.929 7535		283	
718	9.720 7701	122	9.791 0213	170	0.208 9787	9.929 7489	46	282	
719	9.720 7824	123	9.791 0382	169	0.208 9618	9.929 7442	47	281	
		123		170			47		
.720	9.720 7947		9.791 0552		0.208 9448	9.929 7395		.280	
		122		169			47		
721	9.720 8069		9.791 0721		0.208 9279	9.929 7348		279	
722	9.720 8192	123	9.791 0891	170	0.208 9109	9.929 7301	47	278	
723	9.720 8314	122	9.791 1060	169	0.208 8940	9.929 7254	47	277	
		123		170			47		
724	9.720 8437		9.791 1230		0.208 8770	9.929 7207		276	
725	9.720 8560	123	9.791 1399	169	0.208 8601	9.929 7161	46	275	
726	9.720 8682	122	9.791 1569	170	0.208 8431	9.929 7114	47	274	
		123		169			47		
727	9.720 8805		9.791 1738		0.208 8262	9.929 7067		273	
728	9.720 8927	122	9.791 1907	169	0.208 8093	9.929 7020	47	272	
729	9.720 9050	123	9.791 2077	170	0.208 7923	9.929 6973	47	271	
		123		169			47		
.730	9.720 9173		9.791 2246		0.208 7754	9.929 6926		.270	
		122		170			47		
731	9.720 9295		9.791 2416		0.208 7584	9.929 6879		269	
732	9.720 9418	123	9.791 2585	169	0.208 7415	9.929 6833	46	268	
733	9.720 9540	122	9.791 2755	170	0.208 7245	9.929 6786	47	267	
		123		169			47		
734	9.720 9663		9.791 2924		0.208 7076	9.929 6739		266	
735	9.720 9785	122	9.791 3094	170	0.208 6906	9.929 6692	47	265	
736	9.720 9908	123	9.791 3263	169	0.208 6737	9.929 6645	47	264	
		123		169			47		
737	9.721 0031		9.791 3432		0.208 6568	9.929 6598		263	
738	9.721 0153	122	9.791 3602	170	0.208 6398	9.929 6551	47	262	
739	9.721 0276	123	9.791 3771	169	0.208 6229	9.929 6504	47	261	
		122		170			47		
.740	9.721 0398		9.791 3941		0.208 6059	9.929 6457		.260	
		123		169			46		
741	9.721 0521		9.791 4110		0.208 5890	9.929 6411		259	
742	9.721 0643	122	9.791 4280	170	0.208 5720	9.929 6364	47	258	
743	9.721 0766	123	9.791 4449	169	0.208 5551	9.929 6317	47	257	
		122		169			47		
744	9.721 0888		9.791 4618		0.208 5382	9.929 6270		256	
745	9.721 1011	123	9.791 4788	170	0.208 5212	9.929 6223	47	255	
746	9.721 1133	122	9.791 4957	169	0.208 5043	9.929 6176	47	254	
		123		170			47		
747	9.721 1256		9.791 5127		0.208 4873	9.929 6129		253	
748	9.721 1378	122	9.791 5296	169	0.208 4704	9.929 6082	47	252	
749	9.721 1501	123	9.791 5465	169	0.208 4535	9.929 6035	47	251	
		122		170			46		
.750	9.721 1623		9.791 5635		0.208 4365	9.929 5989		.250	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	170	169
1	17.0	16.9
2	34.0	33.8
3	51.0	50.7
4	68.0	67.6
5	85.0	84.5
6	102.0	101.4
7	119.0	118.3
8	136.0	135.2
9	153.0	152.1

	123
1	12.3
2	24.6
3	36.9
4	49.2
5	61.5
6	73.8
7	86.1
8	98.4
9	110.7

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.300 — 58°.250

31°.750 — 31°.800

31°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.721 1623		9.791 5635		0.208 4365	9.929 5989		.250	
		123		169			47		
751	9.721 1746		9.791 5804		0.208 4196	9.929 5942		249	
752	9.721 1868	122	9.791 5974	170	0.208 4026	9.929 5895	47	248	
753	9.721 1991	123	9.791 6143	169	0.208 3857	9.929 5848	47	247	
		122		169			47		
754	9.721 2113		9.791 6312		0.208 3688	9.929 5801		246	
755	9.721 2236	123	9.791 6482	170	0.208 3518	9.929 5754	47	245	
756	9.721 2358	122	9.791 6651	169	0.208 3349	9.929 5707	47	244	
		123		170			47		
757	9.721 2481		9.791 6821		0.208 3179	9.929 5660		243	
758	9.721 2603	122	9.791 6990	169	0.208 3010	9.929 5613	47	242	
759	9.721 2726	123	9.791 7159	169	0.208 2841	9.929 5566	47	241	
		122		170			47		
.760	9.721 2848		9.791 7329		0.208 2671	9.929 5519		.240	
		122		169			47		
761	9.721 2970		9.791 7498		0.208 2502	9.929 5472		239	
762	9.721 3093	123	9.791 7667	169	0.208 2333	9.929 5426	46	238	
763	9.721 3215	122	9.791 7837	170	0.208 2163	9.929 5379	47	237	
		123		169			47		
764	9.721 3338		9.791 8006		0.208 1994	9.929 5332		236	
765	9.721 3460	122	9.791 8175	169	0.208 1825	9.929 5285	47	235	
766	9.721 3583	123	9.791 8345	170	0.208 1655	9.929 5238	47	234	
		122		169			47		
767	9.721 3705		9.791 8514		0.208 1486	9.929 5191		233	
768	9.721 3827	122	9.791 8683	169	0.208 1317	9.929 5144	47	232	
769	9.721 3950	123	9.791 8853	170	0.208 1147	9.929 5097	47	231	
		122		169			47		
.770	9.721 4072		9.791 9022		0.208 0978	9.929 5050		.230	
		123		169			47		
771	9.721 4195		9.791 9191		0.208 0809	9.929 5003		229	
772	9.721 4317	122	9.791 9361	170	0.208 0639	9.929 4956	47	228	
773	9.721 4439	122	9.791 9530	169	0.208 0470	9.929 4909	47	227	
		123		169			47		
774	9.721 4562		9.791 9699		0.208 0301	9.929 4862		226	
775	9.721 4684	122	9.791 9869	170	0.208 0131	9.929 4815	47	225	
776	9.721 4806	122	9.792 0038	169	0.207 9962	9.929 4768	47	224	
		123		169			47		
777	9.721 4929		9.792 0207		0.207 9793	9.929 4721		223	
778	9.721 5051	122	9.792 0377	170	0.207 9623	9.929 4674	47	222	
779	9.721 5174	123	9.792 0546	169	0.207 9454	9.929 4627	47	221	
		122		169			46		
.780	9.721 5296		9.792 0715		0.207 9285	9.929 4581		.220	
		122		170			47		
781	9.721 5418		9.792 0885		0.207 9115	9.929 4534		219	
782	9.721 5541	123	9.792 1054	169	0.207 8946	9.929 4487	47	218	
783	9.721 5663	122	9.792 1223	169	0.207 8777	9.929 4440	47	217	
		122		170			47		
784	9.721 5785		9.792 1393		0.207 8607	9.929 4393		216	
785	9.721 5908	123	9.792 1562	169	0.207 8438	9.929 4346	47	215	
786	9.721 6030	122	9.792 1731	169	0.207 8269	9.929 4299	47	214	
		122		169			47		
787	9.721 6152		9.792 1900		0.207 8100	9.929 4252		213	
788	9.721 6275	123	9.792 2070	170	0.207 7930	9.929 4205	47	212	
789	9.721 6397	122	9.792 2239	169	0.207 7761	9.929 4158	47	211	
		122		169			47		
.790	9.721 6519		9.792 2408		0.207 7592	9.929 4111		.210	
		122		170			47		
791	9.721 6641		9.792 2578		0.207 7422	9.929 4064		209	
792	9.721 6764	123	9.792 2747	169	0.207 7253	9.929 4017	47	208	
793	9.721 6886	122	9.792 2916	169	0.207 7084	9.929 3970	47	207	
		122		169			47		
794	9.721 7008		9.792 3085		0.207 6915	9.929 3923		206	
795	9.721 7131	123	9.792 3255	170	0.207 6745	9.929 3876	47	205	
796	9.721 7253	122	9.792 3424	169	0.207 6576	9.929 3829	47	204	
		122		169			47		
797	9.721 7375		9.792 3593		0.207 6407	9.929 3782		203	
798	9.721 7497	122	9.792 3762	169	0.207 6238	9.929 3735	47	202	
799	9.721 7620	123	9.792 3932	170	0.207 6068	9.929 3688	47	201	
		122		169			47		
.800	9.721 7742		9.792 4101		0.207 5899	9.929 3641		.200	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	170	169
1	17.0	16.9
2	34.0	33.8
3	51.0	50.7
4	68.0	67.6
5	85.0	84.5
6	102.0	101.4
7	119.0	118.3
8	136.0	135.2
9	153.0	152.1

	123
1	12.3
2	24.6
3	36.9
4	49.2
5	61.5
6	73.8
7	86.1
8	98.4
9	110.7

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

	46
1	4.6
2	9.2
3	13.8
4	18.4
5	23.0
6	27.6
7	32.2
8	36.8
9	41.4

58°.250 — 58°.200

31°.800 — 31°.850

31°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.721 7742		9.792 4101		0.207 5899	9.929 3641		.200	
		122		169			47		
801	9.721 7864		9.792 4270		0.207 5730	9.929 3594		199	
802	9.721 7986	122	9.792 4439	169	0.207 5561	9.929 3547	47	198	
803	9.721 8109	123	9.792 4609	170	0.207 5391	9.929 3500	47	197	
		122		169			47		
804	9.721 8231		9.792 4778		0.207 5222	9.929 3453		196	
805	9.721 8353	122	9.792 4947	169	0.207 5053	9.929 3406	47	195	
806	9.721 8475	122	9.792 5116	169	0.207 4884	9.929 3359	47	194	
		122		170			47		
807	9.721 8597		9.792 5286		0.207 4714	9.929 3312		193	
808	9.721 8720	123	9.792 5455	169	0.207 4545	9.929 3265	47	192	
809	9.721 8842	122	9.792 5624	169	0.207 4376	9.929 3218	47	191	
		122		169			47		
.810	9.721 8964		9.792 5793		0.207 4207	9.929 3171		.190	
		122		169			47		
811	9.721 9086		9.792 5962		0.207 4038	9.929 3124		189	
812	9.721 9209	123	9.792 6132	170	0.207 3868	9.929 3077	47	188	
813	9.721 9331	122	9.792 6301	169	0.207 3699	9.929 3030	47	187	
		122		169			47		
814	9.721 9453		9.792 6470		0.207 3530	9.929 2983		186	
815	9.721 9575	122	9.792 6639	169	0.207 3361	9.929 2936	47	185	
816	9.721 9697	122	9.792 6808	169	0.207 3192	9.929 2889	47	184	
		122		170			47		
817	9.721 9819		9.792 6978		0.207 3022	9.929 2842		183	
818	9.721 9942	123	9.792 7147	169	0.207 2853	9.929 2795	47	182	
819	9.722 0064	122	9.792 7316	169	0.207 2684	9.929 2748	47	181	
		122		169			47		
.820	9.722 0186		9.792 7485		0.207 2515	9.929 2701		.180	
		122		169			47		
821	9.722 0308		9.792 7654		0.207 2346	9.929 2654		179	
822	9.722 0430	122	9.792 7824	170	0.207 2176	9.929 2607	47	178	
823	9.722 0552	122	9.792 7993	169	0.207 2007	9.929 2560	47	177	
		122		169			48		
824	9.722 0674		9.792 8162		0.207 1838	9.929 2512		176	
825	9.722 0797	123	9.792 8331	169	0.207 1669	9.929 2465	47	175	
826	9.722 0919	122	9.792 8500	169	0.207 1500	9.929 2418	47	174	
		122		170			47		
827	9.722 1041		9.792 8670		0.207 1330	9.929 2371		173	
828	9.722 1163	122	9.792 8839	169	0.207 1161	9.929 2324	47	172	
829	9.722 1285	122	9.792 9008	169	0.207 0992	9.929 2277	47	171	
		122		169			47		
.830	9.722 1407		9.792 9177		0.207 0823	9.929 2230		.170	
		122		169			47		
831	9.722 1529		9.792 9346		0.207 0654	9.929 2183		169	
832	9.722 1651	122	9.792 9515	169	0.207 0485	9.929 2136	47	168	
833	9.722 1774	123	9.792 9684	169	0.207 0316	9.929 2089	47	167	
		122		170			47		
834	9.722 1896		9.792 9854		0.207 0146	9.929 2042		166	
835	9.722 2018	122	9.793 0023	169	0.206 9977	9.929 1995	47	165	
836	9.722 2140	122	9.793 0192	169	0.206 9808	9.929 1948	47	164	
		122		169			47		
837	9.722 2262		9.793 0361		0.206 9639	9.929 1901		163	
838	9.722 2384	122	9.793 0530	169	0.206 9470	9.929 1854	47	162	
839	9.722 2506	122	9.793 0699	169	0.206 9301	9.929 1807	47	161	
		122		169			47		
.840	9.722 2628		9.793 0868		0.206 9132	9.929 1760		.160	
		122		170			47		
841	9.722 2750		9.793 1038		0.206 8962	9.929 1713		159	
842	9.722 2872	122	9.793 1207	169	0.206 8793	9.929 1665	48	158	
843	9.722 2994	122	9.793 1376	169	0.206 8624	9.929 1618	47	157	
		122		169			47		
844	9.722 3116		9.793 1545		0.206 8455	9.929 1571		156	
845	9.722 3238	122	9.793 1714	169	0.206 8286	9.929 1524	47	155	
846	9.722 3360	122	9.793 1883	169	0.206 8117	9.929 1477	47	154	
		122		169			47		
847	9.722 3482		9.793 2052		0.206 7948	9.929 1430		153	
848	9.722 3604	122	9.793 2221	169	0.206 7779	9.929 1383	47	152	
849	9.722 3726	122	9.793 2391	170	0.206 7609	9.929 1336	47	151	
		122		169			47		
.850	9.722 3848		9.793 2560		0.206 7440	9.929 1289		.150	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	170	169
1	17.0	16.9
2	34.0	33.8
3	51.0	50.7
4	68.0	67.6
5	85.0	84.5
6	102.0	101.4
7	119.0	118.3
8	136.0	135.2
9	153.0	152.1

	123
1	12.3
2	24.6
3	36.9
4	49.2
5	61.5
6	73.8
7	86.1
8	98.4
9	110.7

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	48
1	4.8
2	9.6
3	14.4
4	19.2
5	24.0
6	28.8
7	33.6
8	38.4
9	43.2

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

58°.200 — 58°.150

31°.850 — 31°.900

31°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.722 3848		9.793 2560		0.206 7440	9.929 1289		.150	
		122		169			47		
851	9.722 3970		9.793 2729		0.206 7271	9.929 1242		149	
852	9.722 4092	122	9.793 2898	169	0.206 7102	9.929 1195	47	148	
853	9.722 4214	122	9.793 3067	169	0.206 6933	9.929 1148	47	147	
		122		169			48		
854	9.722 4336		9.793 3236		0.206 6764	9.929 1100		146	
855	9.722 4458	122	9.793 3405	169	0.206 6595	9.929 1053	47	145	
856	9.722 4580	122	9.793 3574	169	0.206 6426	9.929 1006	47	144	
		122		169			47		
857	9.722 4702		9.793 3743		0.206 6257	9.929 0959		143	
858	9.722 4824	122	9.793 3912	169	0.206 6088	9.929 0912	47	142	
859	9.722 4946	122	9.793 4081	169	0.206 5919	9.929 0865	47	141	
		122		170			47		
.860	9.722 5068		9.793 4251		0.206 5749	9.929 0818		.140	
		122		169			47		
861	9.722 5190		9.793 4420		0.206 5580	9.929 0771		139	
862	9.722 5312	122	9.793 4589	169	0.206 5411	9.929 0724	47	138	
863	9.722 5434	122	9.793 4758	169	0.206 5242	9.929 0676	48	137	
		122		169			47		
864	9.722 5556		9.793 4927		0.206 5073	9.929 0629		136	
865	9.722 5678	122	9.793 5096	169	0.206 4904	9.929 0582	47	135	
866	9.722 5800	122	9.793 5265	169	0.206 4735	9.929 0535	47	134	
		122		169			47		
867	9.722 5922		9.793 5434		0.206 4566	9.929 0488		133	
868	9.722 6044	122	9.793 5603	169	0.206 4397	9.929 0441	47	132	
869	9.722 6166	122	9.793 5772	169	0.206 4228	9.929 0394	47	131	
		122		169			47		
.870	9.722 6288		9.793 5941		0.206 4059	9.929 0347		.130	
		122		169			47		
871	9.722 6410		9.793 6110		0.206 3890	9.929 0300		129	
872	9.722 6532	122	9.793 6279	169	0.206 3721	9.929 0252	48	128	
873	9.722 6653	121	9.793 6448	169	0.206 3552	9.929 0205	47	127	
		122		169			47		
874	9.722 6775		9.793 6617		0.206 3383	9.929 0158		126	
875	9.722 6897	122	9.793 6786	169	0.206 3214	9.929 0111	47	125	
876	9.722 7019	122	9.793 6955	169	0.206 3045	9.929 0064	47	124	
		122		169			47		
877	9.722 7141		9.793 7124		0.206 2876	9.929 0017		123	
878	9.722 7263	122	9.793 7293	169	0.206 2707	9.928 9970	47	122	
879	9.722 7385	122	9.793 7462	169	0.206 2538	9.928 9922	48	121	
		122		169			47		
.880	9.722 7507		9.793 7631		0.206 2369	9.928 9875		.120	
		122		169			47		
881	9.722 7629		9.793 7800		0.206 2200	9.928 9828		119	
882	9.722 7750	121	9.793 7969	169	0.206 2031	9.928 9781	47	118	
883	9.722 7872	122	9.793 8138	169	0.206 1862	9.928 9734	47	117	
		122		169			47		
884	9.722 7994		9.793 8307		0.206 1693	9.928 9687		116	
885	9.722 8116	122	9.793 8476	169	0.206 1524	9.928 9640	47	115	
886	9.722 8238	122	9.793 8645	169	0.206 1355	9.928 9592	48	114	
		122		169			47		
887	9.722 8360		9.793 8814		0.206 1186	9.928 9545		113	
888	9.722 8482	122	9.793 8983	169	0.206 1017	9.928 9498	47	112	
889	9.722 8603	121	9.793 9152	169	0.206 0848	9.928 9451	47	111	
		122		169			47		
.890	9.722 8725		9.793 9321		0.206 0679	9.928 9404		.110	
		122		169			47		
891	9.722 8847		9.793 9490		0.206 0510	9.928 9357		109	
892	9.722 8969	122	9.793 9659	169	0.206 0341	9.928 9309	48	108	
893	9.722 9091	122	9.793 9828	169	0.206 0172	9.928 9262	47	107	
		121		169			47		
894	9.722 9212		9.793 9997		0.206 0003	9.928 9215		106	
895	9.722 9334	122	9.794 0166	169	0.205 9834	9.928 9168	47	105	
896	9.722 9456	122	9.794 0335	169	0.205 9665	9.928 9121	47	104	
		122		169			47		
897	9.722 9578		9.794 0504		0.205 9496	9.928 9074		103	
898	9.722 9700	122	9.794 0673	169	0.205 9327	9.928 9026	48	102	
899	9.722 9821	121	9.794 0842	169	0.205 9158	9.928 8979	47	101	
		122		169			47		
.900	9.722 9943		9.794 1011		0.205 8989	9.928 8932		.100	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	170	169
1	17.0	16.9
2	34.0	33.8
3	51.0	50.7
4	68.0	67.6
5	85.0	84.5
6	102.0	101.4
7	119.0	118.3
8	136.0	135.2
9	153.0	152.1

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	48
1	4.8
2	9.6
3	14.4
4	19.2
5	24.0
6	28.8
7	33.6
8	38.4
9	43.2

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

58°.150 — 58°.100

31°.900 — 31°.950

31°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.722 9943		9.794 1011		0.205 8989	9.928 8932		.100	
		122		169			47		
901	9.723 0065		9.794 1180		0.205 8820	9.928 8885		099	
902	9.723 0187	122	9.794 1349	169	0.205 8651	9.928 8838	47	098	
903	9.723 0308	121	9.794 1518	169	0.205 8482	9.928 8791	47	097	
		122		169			48		
904	9.723 0430		9.794 1687		0.205 8313	9.928 8743		096	
905	9.723 0552	122	9.794 1856	169	0.205 8144	9.928 8696	47	095	
906	9.723 0674	122	9.794 2025	169	0.205 7975	9.928 8649	47	094	
		121		169			47		
907	9.723 0795		9.794 2194		0.205 7806	9.928 8602		093	
908	9.723 0917	122	9.794 2363	169	0.205 7637	9.928 8555	47	092	
909	9.723 1039	122	9.794 2532	169	0.205 7468	9.928 8507	48	091	
		122		168			47		
.910	9.723 1161		9.794 2700		0.205 7300	9.928 8460		.090	
		121		169			47		
911	9.723 1282		9.794 2869		0.205 7131	9.928 8413		089	
912	9.723 1404	122	9.794 3038	169	0.205 6962	9.928 8366	47	088	
913	9.723 1526	122	9.794 3207	169	0.205 6793	9.928 8319	47	087	
		122		169			48		
914	9.723 1648		9.794 3376		0.205 6624	9.928 8271		086	
915	9.723 1769	121	9.794 3545	169	0.205 6455	9.928 8224	47	085	
916	9.723 1891	122	9.794 3714	169	0.205 6286	9.928 8177	47	084	
		122		169			47		
917	9.723 2013		9.794 3883		0.205 6117	9.928 8130		083	
918	9.723 2134	121	9.794 4052	169	0.205 5948	9.928 8083	47	082	
919	9.723 2256	122	9.794 4221	169	0.205 5779	9.928 8035	48	081	
		122		169			47		
.920	9.723 2378		9.794 4390		0.205 5610	9.928 7988		.080	
		121		169			47		
921	9.723 2499		9.794 4559		0.205 5441	9.928 7941		079	
922	9.723 2621	122	9.794 4727	168	0.205 5273	9.928 7894	47	078	
923	9.723 2743	122	9.794 4896	169	0.205 5104	9.928 7846	48	077	
		121		169			47		
924	9.723 2864		9.794 5065		0.205 4935	9.928 7799		076	
925	9.723 2986	122	9.794 5234	169	0.205 4766	9.928 7752	47	075	
926	9.723 3108	122	9.794 5403	169	0.205 4597	9.928 7705	47	074	
		121		169			47		
927	9.723 3229		9.794 5572		0.205 4428	9.928 7658		073	
928	9.723 3351	122	9.794 5741	169	0.205 4259	9.928 7610	48	072	
929	9.723 3473	122	9.794 5910	169	0.205 4090	9.928 7563	47	071	
		121		168			47		
.930	9.723 3594		9.794 6078		0.205 3922	9.928 7516		.070	
		122		169			47		
931	9.723 3716		9.794 6247		0.205 3753	9.928 7469		069	
932	9.723 3838	122	9.794 6416	169	0.205 3584	9.928 7421	48	068	
933	9.723 3959	121	9.794 6585	169	0.205 3415	9.928 7374	47	067	
		122		169			47		
934	9.723 4081		9.794 6754		0.205 3246	9.928 7327		066	
935	9.723 4202	121	9.794 6923	169	0.205 3077	9.928 7280	47	065	
936	9.723 4324	122	9.794 7092	169	0.205 2908	9.928 7232	48	064	
		122		168			47		
937	9.723 4446		9.794 7260		0.205 2740	9.928 7185		063	
938	9.723 4567	121	9.794 7429	169	0.205 2571	9.928 7138	47	062	
939	9.723 4689	122	9.794 7598	169	0.205 2402	9.928 7091	47	061	
		121		169			48		
.940	9.723 4810		9.794 7767		0.205 2233	9.928 7043		.060	
		122		169			47		
941	9.723 4932		9.794 7936		0.205 2064	9.928 6996		059	
942	9.723 5054	122	9.794 8105	169	0.205 1895	9.928 6949	47	058	
943	9.723 5175	121	9.794 8274	169	0.205 1726	9.928 6902	47	057	
		122		168			48		
944	9.723 5297		9.794 8442		0.205 1558	9.928 6854		056	
945	9.723 5418	121	9.794 8611	169	0.205 1389	9.928 6807	47	055	
946	9.723 5540	122	9.794 8780	169	0.205 1220	9.928 6760	47	054	
		121		169			47		
947	9.723 5661		9.794 8949		0.205 1051	9.928 6713		053	
948	9.723 5783	122	9.794 9118	169	0.205 0882	9.928 6665	48	052	
949	9.723 5904	121	9.794 9286	168	0.205 0714	9.928 6618	47	051	
		122		169			47		
.950	9.723 6026		9.794 9455		0.205 0545	9.928 6571		.050	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	169	168
1	16.9	16.8
2	33.8	33.6
3	50.7	50.4
4	67.6	67.2
5	84.5	84.0
6	101.4	100.8
7	118.3	117.6
8	135.2	134.4
9	152.1	151.2

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	48
1	4.8
2	9.6
3	14.4
4	19.2
5	24.0
6	28.8
7	33.6
8	38.4
9	43.2

	47
1	4.7
2	9.4
3	14.1
4	18.8
5	23.5
6	28.2
7	32.9
8	37.6
9	42.3

58°.100 — 58°.050

31°.950 — 32°.000

31°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.723 6026		9.794 9455		0.205 0545	9.928 6571		.050	
		122		169			48		
951	9.723 6148		9.794 9624		0.205 0376	9.928 6523		049	
952	9.723 6269	121	9.794 9793	169	0.205 0207	9.928 6476	47	048	
953	9.723 6391	122	9.794 9962	169	0.205 0038	9.928 6429	47	047	
		121		168			47		
954	9.723 6512		9.795 0130		0.204 9870	9.928 6382		046	
955	9.723 6634	122	9.795 0299	169	0.204 9701	9.928 6334	48	045	
956	9.723 6755	121	9.795 0468	169	0.204 9532	9.928 6287	47	044	
		122		169			47		
957	9.723 6877		9.795 0637		0.204 9363	9.928 6240		043	
958	9.723 6998	121	9.795 0806	169	0.204 9194	9.928 6193	47	042	
959	9.723 7120	122	9.795 0974	168	0.204 9026	9.928 6145	48	041	
		121		169			47		
.960	9.723 7241		9.795 1143		0.204 8857	9.928 6098		.040	
		122		169			47		
961	9.723 7363		9.795 1312		0.204 8688	9.928 6051		039	
962	9.723 7484	121	9.795 1481	169	0.204 8519	9.928 6003	48	038	
963	9.723 7606	122	9.795 1650	169	0.204 8350	9.928 5956	47	037	
		121		168			47		
964	9.723 7727		9.795 1818		0.204 8182	9.928 5909		036	
965	9.723 7849	122	9.795 1987	169	0.204 8013	9.928 5861	48	035	
966	9.723 7970	121	9.795 2156	169	0.204 7844	9.928 5814	47	034	
		122		169			47		
967	9.723 8092		9.795 2325		0.204 7675	9.928 5767		033	
968	9.723 8213	121	9.795 2493	168	0.204 7507	9.928 5720	47	032	
969	9.723 8334	121	9.795 2662	169	0.204 7338	9.928 5672	48	031	
		122		169			47		
.970	9.723 8456		9.795 2831		0.204 7169	9.928 5625		.030	
		121		169			47		
971	9.723 8577		9.795 3000		0.204 7000	9.928 5578		029	
972	9.723 8699	122	9.795 3168	168	0.204 6832	9.928 5530	48	028	
973	9.723 8820	121	9.795 3337	169	0.204 6663	9.928 5483	47	027	
		122		169			47		
974	9.723 8942		9.795 3506		0.204 6494	9.928 5436		026	
975	9.723 9063	121	9.795 3675	169	0.204 6325	9.928 5388	48	025	
976	9.723 9184	121	9.795 3843	168	0.204 6157	9.928 5341	47	024	
		122		169			47		
977	9.723 9306		9.795 4012		0.204 5988	9.928 5294		023	
978	9.723 9427	121	9.795 4181	169	0.204 5819	9.928 5246	48	022	
979	9.723 9549	122	9.795 4350	169	0.204 5650	9.928 5199	47	021	
		121		168			47		
.980	9.723 9670		9.795 4518		0.204 5482	9.928 5152		.020	
		121		169			48		
981	9.723 9791		9.795 4687		0.204 5313	9.928 5104		019	
982	9.723 9913	122	9.795 4856	169	0.204 5144	9.928 5057	47	018	
983	9.724 0034	121	9.795 5024	168	0.204 4976	9.928 5010	47	017	
		122		169			48		
984	9.724 0156		9.795 5193		0.204 4807	9.928 4962		016	
985	9.724 0277	121	9.795 5362	169	0.204 4638	9.928 4915	47	015	
986	9.724 0398	121	9.795 5531	169	0.204 4469	9.928 4868	47	014	
		122		168			48		
987	9.724 0520		9.795 5699		0.204 4301	9.928 4820		013	
988	9.724 0641	121	9.795 5868	169	0.204 4132	9.928 4773	47	012	
989	9.724 0762	121	9.795 6037	169	0.204 3963	9.928 4726	47	011	
		122		168			48		
.990	9.724 0884		9.795 6205		0.204 3795	9.928 4678		.010	
		121		169			47		
991	9.724 1005		9.795 6374		0.204 3626	9.928 4631		009	
992	9.724 1127	122	9.795 6543	169	0.204 3457	9.928 4584	47	008	
993	9.724 1248	121	9.795 6711	168	0.204 3289	9.928 4536	48	007	
		121		169			47		
994	9.724 1369		9.795 6880		0.204 3120	9.928 4489		006	
995	9.724 1491	122	9.795 7049	169	0.204 2951	9.928 4442	47	005	
996	9.724 1612	121	9.795 7218	169	0.204 2782	9.928 4394	48	004	
		121		168			47		
997	9.724 1733		9.795 7386		0.204 2614	9.928 4347		003	
998	9.724 1854	121	9.795 7555	169	0.204 2445	9.928 4300	47	002	
999	9.724 1976	122	9.795 7724	169	0.204 2276	9.928 4252	48	001	
		121		168			47		
*.000	9.724 2097		9.795 7892		0.204 2108	9.928 4205		.000	
	cos	d	cotg	d	tang	sin	d	58°	P.P.

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	48	47
1	4.8	4.7
2	9.6	9.4
3	14.4	14.1
4	19.2	18.8
5	24.0	23.5
6	28.8	28.2
7	33.6	32.9
8	38.4	37.6
9	43.2	42.3

58°.050 — 58°.000

32°.000 — 32°.050

32°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.724 2097		9.795 7892		0.204 2108	9.928 4205		***000**	
		121		169			48		
001	9.724 2218		9.795 8061		0.204 1939	9.928 4157		999	
002	9.724 2340	122	9.795 8230	169	0.204 1770	9.928 4110	47	998	
003	9.724 2461	121	9.795 8398	168	0.204 1602	9.928 4063	47	997	
		121		169			48		
004	9.724 2582		9.795 8567		0.204 1433	9.928 4015		996	
005	9.724 2704	122	9.795 8736	169	0.204 1264	9.928 3968	47	995	
006	9.724 2825	121	9.795 8904	168	0.204 1096	9.928 3921	47	994	
		121		169			48		
007	9.724 2946		9.795 9073		0.204 0927	9.928 3873		993	
008	9.724 3067	121	9.795 9241	168	0.204 0759	9.928 3826	47	992	
009	9.724 3189	122	9.795 9410	169	0.204 0590	9.928 3778	48	991	
		121		169			47		
.010	9.724 3310		9.795 9579		0.204 0421	9.928 3731		**.990**	
		121		168			47		
011	9.724 3431		9.795 9747		0.204 0253	9.928 3684		989	
012	9.724 3552	121	9.795 9916	169	0.204 0084	9.928 3636	48	988	
013	9.724 3674	122	9.796 0085	169	0.203 9915	9.928 3589	47	987	
		121		168			47		
014	9.724 3795		9.796 0253		0.203 9747	9.928 3542		986	
015	9.724 3916	121	9.796 0422	169	0.203 9578	9.928 3494	48	985	
016	9.724 4037	121	9.796 0591	169	0.203 9409	9.928 3447	47	984	
		122		168			48		
017	9.724 4159		9.796 0759		0.203 9241	9.928 3399		983	
018	9.724 4280	121	9.796 0928	169	0.203 9072	9.928 3352	47	982	
019	9.724 4401	121	9.796 1096	168	0.203 8904	9.928 3305	47	981	
		121		169			48		
.020	9.724 4522		9.796 1265		0.203 8735	9.928 3257		**.980**	
		121		169			47		
021	9.724 4643		9.796 1434		0.203 8566	9.928 3210		979	
022	9.724 4765	122	9.796 1602	168	0.203 8398	9.928 3162	48	978	
023	9.724 4886	121	9.796 1771	169	0.203 8229	9.928 3115	47	977	
		121		168			47		
024	9.724 5007		9.796 1939		0.203 8061	9.928 3068		976	
025	9.724 5128	121	9.796 2108	169	0.203 7892	9.928 3020	48	975	
026	9.724 5249	121	9.796 2277	169	0.203 7723	9.928 2973	47	974	
		122		168			48		
027	9.724 5371		9.796 2445		0.203 7555	9.928 2925		973	
028	9.724 5492	121	9.796 2614	169	0.203 7386	9.928 2878	47	972	
029	9.724 5613	121	9.796 2782	168	0.203 7218	9.928 2830	48	971	
		121		169			47		
.030	9.724 5734		9.796 2951		0.203 7049	9.928 2783		**.970**	
		121		169			47		
031	9.724 5855		9.796 3120		0.203 6880	9.928 2736		969	
032	9.724 5976	121	9.796 3288	168	0.203 6712	9.928 2688	48	968	
033	9.724 6098	122	9.796 3457	169	0.203 6543	9.928 2641	47	967	
		121		168			48		
034	9.724 6219		9.796 3625		0.203 6375	9.928 2593		966	
035	9.724 6340	121	9.796 3794	169	0.203 6206	9.928 2546	47	965	
036	9.724 6461	121	9.796 3962	168	0.203 6038	9.928 2499	47	964	
		121		169			48		
037	9.724 6582		9.796 4131		0.203 5869	9.928 2451		963	
038	9.724 6703	121	9.796 4300	169	0.203 5700	9.928 2404	47	962	
039	9.724 6824	121	9.796 4468	168	0.203 5532	9.928 2356	48	961	
		121		169			47		
.040	9.724 6945		9.796 4637		0.203 5363	9.928 2309		**.960**	
		122		168			48		
041	9.724 7067		9.796 4805		0.203 5195	9.928 2261		959	
042	9.724 7188	121	9.796 4974	169	0.203 5026	9.928 2214	47	958	
043	9.724 7309	121	9.796 5142	168	0.203 4858	9.928 2166	48	957	
		121		169			47		
044	9.724 7430		9.796 5311		0.203 4689	9.928 2119		956	
045	9.724 7551	121	9.796 5479	168	0.203 4521	9.928 2072	47	955	
046	9.724 7672	121	9.796 5648	169	0.203 4352	9.928 2024	48	954	
		121		168			47		
047	9.724 7793		9.796 5816		0.203 4184	9.928 1977		953	
048	9.724 7914	121	9.796 5985	169	0.203 4015	9.928 1929	48	952	
049	9.724 8035	121	9.796 6154	169	0.203 3846	9.928 1882	47	951	
		121		168			48		
.050	9.724 8156		9.796 6322		0.203 3678	9.928 1834		**.950**	
	cos	d	cotg	d	tang	sin	d	**57°**	P.P.

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	48	47
1	4.8	4.7
2	9.6	9.4
3	14.4	14.1
4	19.2	18.8
5	24.0	23.5
6	28.8	28.2
7	33.6	32.9
8	38.4	37.6
9	43.2	42.3

58°.000 — 57°.950

32°.050 — 32°.100

32°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.724 8156		9.796 6322		0.203 3678	9.928 1834		.950	
		121		169			47		
051	9.724 8277		9.796 6491		0.203 3509	9.928 1787		949	
052	9.724 8398	121	9.796 6659	168	0.203 3341	9.928 1739	48	948	
053	9.724 8520	122	9.796 6828	169	0.203 3172	9.928 1692	47	947	
		121		168			48		
054	9.724 8641		9.796 6996		0.203 3004	9.928 1644		946	
055	9.724 8762	121	9.796 7165	169	0.203 2835	9.928 1597	47	945	
056	9.724 8883	121	9.796 7333	168	0.203 2667	9.928 1550	47	944	
		121		169			48		
057	9.724 9004		9.796 7502		0.203 2498	9.928 1502		943	
058	9.724 9125	121	9.796 7670	168	0.203 2330	9.928 1455	47	942	
059	9.724 9246	121	9.796 7839	169	0.203 2161	9.928 1407	48	941	
		121		168			47		
.060	9.724 9367		9.796 8007		0.203 1993	9.928 1360		.940	
		121		169			48		
061	9.724 9488		9.796 8176		0.203 1824	9.928 1312		939	
062	9.724 9609	121	9.796 8344	168	0.203 1656	9.928 1265	47	938	
063	9.724 9730	121	9.796 8513	169	0.203 1487	9.928 1217	48	937	
		121		168			47		
064	9.724 9851		9.796 8681		0.203 1319	9.928 1170		936	
065	9.724 9972	121	9.796 8850	169	0.203 1150	9.928 1122	48	935	
066	9.725 0093	121	9.796 9018	168	0.203 0982	9.928 1075	47	934	
		121		169			48		
067	9.725 0214		9.796 9187		0.203 0813	9.928 1027		933	
068	9.725 0335	121	9.796 9355	168	0.203 0645	9.928 0980	47	932	
069	9.725 0456	121	9.796 9523	168	0.203 0477	9.928 0932	48	931	
		121		169			47		
.070	9.725 0577		9.796 9692		0.203 0308	9.928 0885		.930	
		121		168			48		
071	9.725 0698		9.796 9860		0.203 0140	9.928 0837		929	
072	9.725 0819	121	9.797 0029	169	0.202 9971	9.928 0790	47	928	
073	9.725 0940	121	9.797 0197	168	0.202 9803	9.928 0742	48	927	
		121		169			47		
074	9.725 1061		9.797 0366		0.202 9634	9.928 0695		926	
075	9.725 1182	121	9.797 0534	168	0.202 9466	9.928 0647	48	925	
076	9.725 1303	121	9.797 0703	169	0.202 9297	9.928 0600	47	924	
		120		168			48		
077	9.725 1423		9.797 0871		0.202 9129	9.928 0552		923	
078	9.725 1544	121	9.797 1040	169	0.202 8960	9.928 0505	47	922	
079	9.725 1665	121	9.797 1208	168	0.202 8792	9.928 0457	48	921	
		121		168			47		
.080	9.725 1786		9.797 1376		0.202 8624	9.928 0410		.920	
		121		169			48		
081	9.725 1907		9.797 1545		0.202 8455	9.928 0362		919	
082	9.725 2028	121	9.797 1713	168	0.202 8287	9.928 0315	47	918	
083	9.725 2149	121	9.797 1882	169	0.202 8118	9.928 0267	48	917	
		121		168			47		
084	9.725 2270		9.797 2050		0.202 7950	9.928 0220		916	
085	9.725 2391	121	9.797 2219	169	0.202 7781	9.928 0172	48	915	
086	9.725 2512	121	9.797 2387	168	0.202 7613	9.928 0125	47	914	
		121		168			48		
087	9.725 2633		9.797 2555		0.202 7445	9.928 0077		913	
088	9.725 2754	121	9.797 2724	169	0.202 7276	9.928 0030	47	912	
089	9.725 2874	120	9.797 2892	168	0.202 7108	9.927 9982	48	911	
		121		169			47		
.090	9.725 2995		9.797 3061		0.202 6939	9.927 9935		.910	
		121		168			48		
091	9.725 3116		9.797 3229		0.202 6771	9.927 9887		909	
092	9.725 3237	121	9.797 3398	169	0.202 6602	9.927 9840	47	908	
093	9.725 3358	121	9.797 3566	168	0.202 6434	9.927 9792	48	907	
		121		168			48		
094	9.725 3479		9.797 3734		0.202 6266	9.927 9744		906	
095	9.725 3600	121	9.797 3903	169	0.202 6097	9.927 9697	47	905	
096	9.725 3721	121	9.797 4071	168	0.202 5929	9.927 9649	48	904	
		120		169			47		
097	9.725 3841		9.797 4240		0.202 5760	9.927 9602		903	
098	9.725 3962	121	9.797 4408	168	0.202 5592	9.927 9554	48	902	
099	9.725 4083	121	9.797 4576	168	0.202 5424	9.927 9507	47	901	
		121		169			48		
.100	9.725 4204		9.797 4745		0.202 5255	9.927 9459		.900	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	122
1	12.2
2	24.4
3	36.6
4	48.8
5	61.0
6	73.2
7	85.4
8	97.6
9	109.8

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	48	47
1	4.8	4.7
2	9.6	9.4
3	14.4	14.1
4	19.2	18.8
5	24.0	23.5
6	28.8	28.2
7	33.6	32.9
8	38.4	37.6
9	43.2	42.3

57°.950 — 57°.900

32°.100 — 32°.150

32°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.725 4204		9.797 4745		0.202 5255	9.927 9459		.900	
		121		168			47		
101	9.725 4325		9.797 4913		0.202 5087	9.927 9412		899	
102	9.725 4446	121	9.797 5081	168	0.202 4919	9.927 9364	48	898	
103	9.725 4566	120	9.797 5250	169	0.202 4750	9.927 9317	47	897	
		121		168			48		
104	9.725 4687		9.797 5418		0.202 4582	9.927 9269		896	
105	9.725 4808	121	9.797 5587	169	0.202 4413	9.927 9221	48	895	
106	9.725 4929	121	9.797 5755	168	0.202 4245	9.927 9174	47	894	
		121		168			48		
107	9.725 5050		9.797 5923		0.202 4077	9.927 9126		893	
108	9.725 5170	120	9.797 6092	169	0.202 3908	9.927 9079	47	892	
109	9.725 5291	121	9.797 6260	168	0.202 3740	9.927 9031	48	891	
		121		168			47		
.110	9.725 5412		9.797 6428		0.202 3572	9.927 8984		.890	
		121		169			48		
111	9.725 5533		9.797 6597		0.202 3403	9.927 8936		889	
112	9.725 5654	121	9.797 6765	168	0.202 3235	9.927 8888	48	888	
113	9.725 5774	120	9.797 6933	168	0.202 3067	9.927 8841	47	887	
		121		169			48		
114	9.725 5895		9.797 7102		0.202 2898	9.927 8793		886	
115	9.725 6016	121	9.797 7270	168	0.202 2730	9.927 8746	47	885	
116	9.725 6137	121	9.797 7438	168	0.202 2562	9.927 8698	48	884	
		120		169			47		
117	9.725 6257		9.797 7607		0.202 2393	9.927 8651		883	
118	9.725 6378	121	9.797 7775	168	0.202 2225	9.927 8603	48	882	
119	9.725 6499	121	9.797 7943	168	0.202 2057	9.927 8555	48	881	
		121		169			47		
.120	9.725 6620		9.797 8112		0.202 1888	9.927 8508		.880	
		120		168			48		
121	9.725 6740		9.797 8280		0.202 1720	9.927 8460		879	
122	9.725 6861	121	9.797 8448	168	0.202 1552	9.927 8413	47	878	
123	9.725 6982	121	9.797 8617	169	0.202 1383	9.927 8365	48	877	
		121		168			47		
124	9.725 7103		9.797 8785		0.202 1215	9.927 8318		876	
125	9.725 7223	120	9.797 8953	168	0.202 1047	9.927 8270	48	875	
126	9.725 7344	121	9.797 9122	169	0.202 0878	9.927 8222	48	874	
		121		168			47		
127	9.725 7465		9.797 9290		0.202 0710	9.927 8175		873	
128	9.725 7585	120	9.797 9458	168	0.202 0542	9.927 8127	48	872	
129	9.725 7706	121	9.797 9627	169	0.202 0373	9.927 8080	47	871	
		121		168			48		
.130	9.725 7827		9.797 9795		0.202 0205	9.927 8032		.870	
		120		168			48		
131	9.725 7947		9.797 9963		0.202 0037	9.927 7984		869	
132	9.725 8068	121	9.798 0131	168	0.201 9869	9.927 7937	47	868	
133	9.725 8189	121	9.798 0300	169	0.201 9700	9.927 7889	48	867	
		121		168			48		
134	9.725 8310		9.798 0468		0.201 9532	9.927 7841		866	
135	9.725 8430	120	9.798 0636	168	0.201 9364	9.927 7794	47	865	
136	9.725 8551	121	9.798 0805	169	0.201 9195	9.927 7746	48	864	
		121		168			47		
137	9.725 8672		9.798 0973		0.201 9027	9.927 7699		863	
138	9.725 8792	120	9.798 1141	168	0.201 8859	9.927 7651	48	862	
139	9.725 8913	121	9.798 1309	168	0.201 8691	9.927 7603	48	861	
		120		169			47		
.140	9.725 9033		9.798 1478		0.201 8522	9.927 7556		.860	
		121		168			48		
141	9.725 9154		9.798 1646		0.201 8354	9.927 7508		859	
142	9.725 9275	121	9.798 1814	168	0.201 8186	9.927 7461	47	858	
143	9.725 9395	120	9.798 1982	168	0.201 8018	9.927 7413	48	857	
		121		169			48		
144	9.725 9516		9.798 2151		0.201 7849	9.927 7365		856	
145	9.725 9637	121	9.798 2319	168	0.201 7681	9.927 7318	47	855	
146	9.725 9757	120	9.798 2487	168	0.201 7513	9.927 7270	48	854	
		121		169			48		
147	9.725 9878		9.798 2656		0.201 7344	9.927 7222		853	
148	9.725 9999	121	9.798 2824	168	0.201 7176	9.927 7175	47	852	
149	9.726 0119	120	9.798 2992	168	0.201 7008	9.927 7127	48	851	
		121		168			48		
.150	9.726 0240		9.798 3160		0.201 6840	9.927 7079		.850	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	48	47
1	4.8	4.7
2	9.6	9.4
3	14.4	14.1
4	19.2	18.8
5	24.0	23.5
6	28.8	28.2
7	33.6	32.9
8	38.4	37.6
9	43.2	42.3

57°.900 — 57°.850

$32^\circ.150 - 32^\circ.200$

32°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.726 0240		9.798 3160		0.201 6840	9.927 7079		.850	
		120		168			47		
151	9.726 0360		9.798 3328		0.201 6672	9.927 7032		849	
152	9.726 0481	121	9.798 3497	169	0.201 6503	9.927 6984	48	848	
153	9.726 0601	120	9.798 3665	168	0.201 6335	9.927 6937	47	847	
		121		168			48		
154	9.726 0722		9.798 3833		0.201 6167	9.927 6889		846	
155	9.726 0843	121	9.798 4001	168	0.201 5999	9.927 6841	48	845	
156	9.726 0963	120	9.798 4170	169	0.201 5830	9.927 6794	47	844	
		121		168			48		
157	9.726 1084		9.798 4338		0.201 5662	9.927 6746		843	
158	9.726 1204	120	9.798 4506	168	0.201 5494	9.927 6698	48	842	
159	9.726 1325	121	9.798 4674	168	0.201 5326	9.927 6651	47	841	
		120		168			48		
.160	9.726 1445		9.798 4842		0.201 5158	9.927 6603		.840	
		121		169			48		
161	9.726 1566		9.798 5011		0.201 4989	9.927 6555		839	
162	9.726 1687	121	9.798 5179	168	0.201 4821	9.927 6508	47	838	
163	9.726 1807	120	9.798 5347	168	0.201 4653	9.927 6460	48	837	
		121		168			48		
164	9.726 1928		9.798 5515		0.201 4485	9.927 6412		836	
165	9.726 2048	120	9.798 5684	169	0.201 4316	9.927 6365	47	835	
166	9.726 2169	121	9.798 5852	168	0.201 4148	9.927 6317	48	834	
		120		168			48		
167	9.726 2289		9.798 6020		0.201 3980	9.927 6269		833	
168	9.726 2410	121	9.798 6188	168	0.201 3812	9.927 6222	47	832	
169	9.726 2530	120	9.798 6356	168	0.201 3644	9.927 6174	48	831	
		121		168			48		
.170	9.726 2651		9.798 6524		0.201 3476	9.927 6126		.830	
		120		169			47		
171	9.726 2771		9.798 6693		0.201 3307	9.927 6079		829	
172	9.726 2892	121	9.798 6861	168	0.201 3139	9.927 6031	48	828	
173	9.726 3012	120	9.798 7029	168	0.201 2971	9.927 5983	48	827	
		121		168			47		
174	9.726 3133		9.798 7197		0.201 2803	9.927 5936		826	
175	9.726 3253	120	9.798 7365	168	0.201 2635	9.927 5888	48	825	
176	9.726 3374	121	9.798 7534	169	0.201 2466	9.927 5840	48	824	
		120		168			47		
177	9.726 3494		9.798 7702		0.201 2298	9.927 5793		823	
178	9.726 3615	121	9.798 7870	168	0.201 2130	9.927 5745	48	822	
179	9.726 3735	120	9.798 8038	168	0.201 1962	9.927 5697	48	821	
		121		168			48		
.180	9.726 3856		9.798 8206		0.201 1794	9.927 5649		.820	
		120		168			47		
181	9.726 3976		9.798 8374		0.201 1626	9.927 5602		819	
182	9.726 4097	121	9.798 8542	168	0.201 1458	9.927 5554	48	818	
183	9.726 4217	120	9.798 8711	169	0.201 1289	9.927 5506	48	817	
		120		168			47		
184	9.726 4337		9.798 8879		0.201 1121	9.927 5459		816	
185	9.726 4458	121	9.798 9047	168	0.201 0953	9.927 5411	48	815	
186	9.726 4578	120	9.798 9215	168	0.201 0785	9.927 5363	48	814	
		121		168			47		
187	9.726 4699		9.798 9383		0.201 0617	9.927 5316		813	
188	9.726 4819	120	9.798 9551	168	0.201 0449	9.927 5268	48	812	
189	9.726 4940	121	9.798 9719	168	0.201 0281	9.927 5220	48	811	
		120		169			48		
.190	9.726 5060		9.798 9888		0.201 0112	9.927 5172		.810	
		120		168			47		
191	9.726 5180		9.799 0056		0.200 9944	9.927 5125		809	
192	9.726 5301	121	9.799 0224	168	0.200 9776	9.927 5077	48	808	
193	9.726 5421	120	9.799 0392	168	0.200 9608	9.927 5029	48	807	
		121		168			47		
194	9.726 5542		9.799 0560		0.200 9440	9.927 4982		806	
195	9.726 5662	120	9.799 0728	168	0.200 9272	9.927 4934	48	805	
196	9.726 5782	120	9.799 0896	168	0.200 9104	9.927 4886	48	804	
		121		168			48		
197	9.726 5903		9.799 1064		0.200 8936	9.927 4838		803	
198	9.726 6023	120	9.799 1233	169	0.200 8767	9.927 4791	47	802	
199	9.726 6143	120	9.799 1401	168	0.200 8599	9.927 4743	48	801	
		121		168			48		
.200	9.726 6264		9.799 1569		0.200 8431	9.927 4695		.800	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	48	47
1	4.8	4.7
2	9.6	9.4
3	14.4	14.1
4	19.2	18.8
5	24.0	23.5
6	28.8	28.2
7	33.6	32.9
8	38.4	37.6
9	43.2	42.3

$57^\circ.850 - 57^\circ.800$

32°.200 — 32°.250

32°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.726 6264		9.799 1569		0.200 8431	9.927 4695		.800	
		120		168			48		
201	9.726 6384		9.799 1737		0.200 8263	9.927 4647		799	
202	9.726 6505	121	9.799 1905	168	0.200 8095	9.927 4600	47	798	
203	9.726 6625	120	9.799 2073	168	0.200 7927	9.927 4552	48	797	
		120		168			48		
204	9.726 6745		9.799 2241		0.200 7759	9.927 4504		796	
205	9.726 6866	121	9.799 2409	168	0.200 7591	9.927 4456	48	795	
206	9.726 6986	120	9.799 2577	168	0.200 7423	9.927 4409	47	794	
		120		168			48		
207	9.726 7106		9.799 2745		0.200 7255	9.927 4361		793	
208	9.726 7227	121	9.799 2913	168	0.200 7087	9.927 4313	48	792	
209	9.726 7347	120	9.799 3081	168	0.200 6919	9.927 4265	48	791	
		120		169			47		
.210	9.726 7467		9.799 3250		0.200 6750	9.927 4218		.790	
		121		168			48		
211	9.726 7588		9.799 3418		0.200 6582	9.927 4170		789	
212	9.726 7708	120	9.799 3586	168	0.200 6414	9.927 4122	48	788	
213	9.726 7828	120	9.799 3754	168	0.200 6246	9.927 4074	48	787	
		121		168			47		
214	9.726 7949		9.799 3922		0.200 6078	9.927 4027		786	
215	9.726 8069	120	9.799 4090	168	0.200 5910	9.927 3979	48	785	
216	9.726 8189	120	9.799 4258	168	0.200 5742	9.927 3931	48	784	
		120		168			48		
217	9.726 8309		9.799 4426		0.200 5574	9.927 3883		783	
218	9.726 8430	121	9.799 4594	168	0.200 5406	9.927 3836	47	782	
219	9.726 8550	120	9.799 4762	168	0.200 5238	9.927 3788	48	781	
		120		168			48		
.220	9.726 8670		9.799 4930		0.200 5070	9.927 3740		.780	
		121		168			48		
221	9.726 8791		9.799 5098		0.200 4902	9.927 3692		779	
222	9.726 8911	120	9.799 5266	168	0.200 4734	9.927 3645	47	778	
223	9.726 9031	120	9.799 5434	168	0.200 4566	9.927 3597	48	777	
		120		168			48		
224	9.726 9151		9.799 5602		0.200 4398	9.927 3549		776	
225	9.726 9272	121	9.799 5770	168	0.200 4230	9.927 3501	48	775	
226	9.726 9392	120	9.799 5938	168	0.200 4062	9.927 3453	48	774	
		120		168			48		
227	9.726 9512		9.799 6106		0.200 3894	9.927 3406		773	
228	9.726 9632	120	9.799 6274	168	0.200 3726	9.927 3358	47	772	
229	9.726 9753	121	9.799 6442	168	0.200 3558	9.927 3310	48	771	
		120		168			48		
.230	9.726 9873		9.799 6610		0.200 3390	9.927 3262		.770	
		120		168			47		
231	9.726 9993		9.799 6778		0.200 3222	9.927 3215		769	
232	9.727 0113	120	9.799 6946	168	0.200 3054	9.927 3167	48	768	
233	9.727 0233	120	9.799 7114	168	0.200 2886	9.927 3119	48	767	
		121		168			48		
234	9.727 0354		9.799 7282		0.200 2718	9.927 3071		766	
235	9.727 0474	120	9.799 7450	168	0.200 2550	9.927 3023	48	765	
236	9.727 0594	120	9.799 7618	168	0.200 2382	9.927 2976	47	764	
		120		168			48		
237	9.727 0714		9.799 7786		0.200 2214	9.927 2928		763	
238	9.727 0834	120	9.799 7954	168	0.200 2046	9.927 2880	48	762	
239	9.727 0955	121	9.799 8122	168	0.200 1878	9.927 2832	48	761	
		120		168			48		
.240	9.727 1075		9.799 8290		0.200 1710	9.927 2784		.760	
		120		168			47		
241	9.727 1195		9.799 8458		0.200 1542	9.927 2737		759	
242	9.727 1315	120	9.799 8626	168	0.200 1374	9.927 2689	48	758	
243	9.727 1435	120	9.799 8794	168	0.200 1206	9.927 2641	48	757	
		120		168			48		
244	9.727 1555		9.799 8962		0.200 1038	9.927 2593		756	
245	9.727 1676	121	9.799 9130	168	0.200 0870	9.927 2545	48	755	
246	9.727 1796	120	9.799 9298	168	0.200 0702	9.927 2497	48	754	
		120		168			47		
247	9.727 1916		9.799 9466		0.200 0534	9.927 2450		753	
248	9.727 2036	120	9.799 9634	168	0.200 0366	9.927 2402	48	752	
249	9.727 2156	120	9.799 9802	168	0.200 0198	9.927 2354	48	751	
		120		168			48		
.250	9.727 2276		9.799 9970		0.200 0030	9.927 2306		.750	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	169
1	16.9
2	33.8
3	50.7
4	67.6
5	84.5
6	101.4
7	118.3
8	135.2
9	152.1

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	48	47
1	4.8	4.7
2	9.6	9.4
3	14.4	14.1
4	19.2	18.8
5	24.0	23.5
6	28.8	28.2
7	33.6	32.9
8	38.4	37.6
9	43.2	42.3

57°.800 — 57°.750

32°.250 — 32°.300

32°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.727 2276		9.799 9970		0.200 0030	9.927 2306		**.750**	
		120		168			48		
251	9.727 2396		9.800 0138		0.199 9862	9.927 2258		749	
252	9.727 2517	121	9.800 0306	168	0.199 9694	9.927 2211	47	748	
253	9.727 2637	120	9.800 0474	168	0.199 9526	9.927 2163	48	747	
		120		168			48		
254	9.727 2757		9.800 0642		0.199 9358	9.927 2115		746	
255	9.727 2877	120	9.800 0810	168	0.199 9190	9.927 2067	48	745	
256	9.727 2997	120	9.800 0978	168	0.199 9022	9.927 2019	48	744	
		120		168			48		
257	9.727 3117		9.800 1146		0.199 8854	9.927 1971		743	
258	9.727 3237	120	9.800 1314	168	0.199 8686	9.927 1924	47	742	
259	9.727 3357	120	9.800 1482	168	0.199 8518	9.927 1876	48	741	
		120		168			48		
.260	9.727 3477		9.800 1650		0.199 8350	9.927 1828		**.740**	
		121		168			48		
261	9.727 3598		9.800 1818		0.199 8182	9.927 1780		739	
262	9.727 3718	120	9.800 1985	167	0.199 8015	9.927 1732	48	738	
263	9.727 3838	120	9.800 2153	168	0.199 7847	9.927 1684	48	737	
		120		168			48		
264	9.727 3958		9.800 2321		0.199 7679	9.927 1636		736	
265	9.727 4078	120	9.800 2489	168	0.199 7511	9.927 1589	47	735	
266	9.727 4198	120	9.800 2657	168	0.199 7343	9.927 1541	48	734	
		120		168			48		
267	9.727 4318		9.800 2825		0.199 7175	9.927 1493		733	
268	9.727 4438	120	9.800 2993	168	0.199 7007	9.927 1445	48	732	
269	9.727 4558	120	9.800 3161	168	0.199 6839	9.927 1397	48	731	
		120		168			48		
.270	9.727 4678		9.800 3329		0.199 6671	9.927 1349		**.730**	
		120		168			48		
271	9.727 4798		9.800 3497		0.199 6503	9.927 1301		729	
272	9.727 4918	120	9.800 3665	168	0.199 6335	9.927 1254	47	728	
273	9.727 5038	120	9.800 3832	167	0.199 6168	9.927 1206	48	727	
		120		168			48		
274	9.727 5158		9.800 4000		0.199 6000	9.927 1158		726	
275	9.727 5278	120	9.800 4168	168	0.199 5832	9.927 1110	48	725	
276	9.727 5398	120	9.800 4336	168	0.199 5664	9.927 1062	48	724	
		120		168			48		
277	9.727 5518		9.800 4504		0.199 5496	9.927 1014		723	
278	9.727 5638	120	9.800 4672	168	0.199 5328	9.927 0966	48	722	
279	9.727 5758	120	9.800 4840	168	0.199 5160	9.927 0918	48	721	
		120		168			47		
.280	9.727 5878		9.800 5008		0.199 4992	9.927 0871		**.720**	
		120		168			48		
281	9.727 5998		9.800 5176		0.199 4824	9.927 0823		719	
282	9.727 6118	120	9.800 5343	167	0.199 4657	9.927 0775	48	718	
283	9.727 6238	120	9.800 5511	168	0.199 4489	9.927 0727	48	717	
		120		168			48		
284	9.727 6358		9.800 5679		0.199 4321	9.927 0679		716	
285	9.727 6478	120	9.800 5847	168	0.199 4153	9.927 0631	48	715	
286	9.727 6598	120	9.800 6015	168	0.199 3985	9.927 0583	48	714	
		120		168			48		
287	9.727 6718		9.800 6183		0.199 3817	9.927 0535		713	
288	9.727 6838	120	9.800 6351	168	0.199 3649	9.927 0487	48	712	
289	9.727 6958	120	9.800 6518	167	0.199 3482	9.927 0440	47	711	
		120		168			48		
.290	9.727 7078		9.800 6686		0.199 3314	9.927 0392		**.710**	
		120		168			48		
291	9.727 7198		9.800 6854		0.199 3146	9.927 0344		709	
292	9.727 7318	120	9.800 7022	168	0.199 2978	9.927 0296	48	708	
293	9.727 7438	120	9.800 7190	168	0.199 2810	9.927 0248	48	707	
		120		168			48		
294	9.727 7558		9.800 7358		0.199 2642	9.927 0200		706	
295	9.727 7678	120	9.800 7526	168	0.199 2474	9.927 0152	48	705	
296	9.727 7798	120	9.800 7693	167	0.199 2307	9.927 0104	48	704	
		120		168			48		
297	9.727 7918		9.800 7861		0.199 2139	9.927 0056		703	
298	9.727 8037	119	9.800 8029	168	0.199 1971	9.927 0008	48	702	
299	9.727 8157	120	9.800 8197	168	0.199 1803	9.926 9961	47	701	
		120		168			48		
.300	9.727 8277		9.800 8365		0.199 1635	9.926 9913		**.700**	
	cos	d	cotg	d	tang	sin	d	**57°**	P.P.

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	121
1	12.1
2	24.2
3	36.3
4	48.4
5	60.5
6	72.6
7	84.7
8	96.8
9	108.9

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	119
1	11.9
2	23.8
3	35.7
4	47.6
5	59.5
6	71.4
7	83.3
8	95.2
9	107.1

	48	47
1	4.8	4.7
2	9.6	9.4
3	14.4	14.1
4	19.2	18.8
5	24.0	23.5
6	28.8	28.2
7	33.6	32.9
8	38.4	37.6
9	43.2	42.3

57°.750 — 57°.700

32°.300 — 32°.350

32°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.727 8277		9.800 8365		0.199 1635	9.926 9913		.700	
		120		167			48		
301	9.727 8397		9.800 8532		0.199 1468	9.926 9865		699	
302	9.727 8517	120	9.800 8700	168	0.199 1300	9.926 9817	48	698	
303	9.727 8637	120	9.800 8868	168	0.199 1132	9.926 9769	48	697	
		120		168			48		
304	9.727 8757		9.800 9036		0.199 0964	9.926 9721		696	
305	9.727 8877	120	9.800 9204	168	0.199 0796	9.926 9673	48	695	
306	9.727 8997	120	9.800 9372	168	0.199 0628	9.926 9625	48	694	
		119		167			48		
307	9.727 9116		9.800 9539		0.199 0461	9.926 9577		693	
308	9.727 9236	120	9.800 9707	168	0.199 0293	9.926 9529	48	692	
309	9.727 9356	120	9.800 9875	168	0.199 0125	9.926 9481	48	691	
		120		168			48		
.310	9.727 9476		9.801 0043		0.198 9957	9.926 9433		.690	
		120		167			48		
311	9.727 9596		9.801 0210		0.198 9790	9.926 9385		689	
312	9.727 9716	120	9.801 0378	168	0.198 9622	9.926 9337	48	688	
313	9.727 9836	120	9.801 0546	168	0.198 9454	9.926 9290	47	687	
		119		168			48		
314	9.727 9955		9.801 0714		0.198 9286	9.926 9242		686	
315	9.728 0075	120	9.801 0882	168	0.198 9118	9.926 9194	48	685	
316	9.728 0195	120	9.801 1049	167	0.198 8951	9.926 9146	48	684	
		120		168			48		
317	9.728 0315		9.801 1217		0.198 8783	9.926 9098		683	
318	9.728 0435	120	9.801 1385	168	0.198 8615	9.926 9050	48	682	
319	9.728 0555	120	9.801 1553	168	0.198 8447	9.926 9002	48	681	
		119		167			48		
.320	9.728 0674		9.801 1720		0.198 8280	9.926 8954		.680	
		120		168			48		
321	9.728 0794		9.801 1888		0.198 8112	9.926 8906		679	
322	9.728 0914	120	9.801 2056	168	0.198 7944	9.926 8858	48	678	
323	9.728 1034	120	9.801 2224	168	0.198 7776	9.926 8810	48	677	
		120		168			48		
324	9.728 1154		9.801 2392		0.198 7608	9.926 8762		676	
325	9.728 1273	119	9.801 2559	167	0.198 7441	9.926 8714	48	675	
326	9.728 1393	120	9.801 2727	168	0.198 7273	9.926 8666	48	674	
		120		168			48		
327	9.728 1513		9.801 2895		0.198 7105	9.926 8618		673	
328	9.728 1633	120	9.801 3062	167	0.198 6938	9.926 8570	48	672	
329	9.728 1752	119	9.801 3230	168	0.198 6770	9.926 8522	48	671	
		120		168			48		
.330	9.728 1872		9.801 3398		0.198 6602	9.926 8474		.670	
		120		168			48		
331	9.728 1992		9.801 3566		0.198 6434	9.926 8426		669	
332	9.728 2112	120	9.801 3733	167	0.198 6267	9.926 8378	48	668	
333	9.728 2231	119	9.801 3901	168	0.198 6099	9.926 8330	48	667	
		120		168			48		
334	9.728 2351		9.801 4069		0.198 5931	9.926 8282		666	
335	9.728 2471	120	9.801 4237	168	0.198 5763	9.926 8234	48	665	
336	9.728 2591	120	9.801 4404	167	0.198 5596	9.926 8186	48	664	
		119		168			48		
337	9.728 2710		9.801 4572		0.198 5428	9.926 8138		663	
338	9.728 2830	120	9.801 4740	168	0.198 5260	9.926 8090	48	662	
339	9.728 2950	120	9.801 4907	167	0.198 5093	9.926 8042	48	661	
		120		168			48		
.340	9.728 3070		9.801 5075		0.198 4925	9.926 7994		.660	
		119		168			48		
341	9.728 3189		9.801 5243		0.198 4757	9.926 7946		659	
342	9.728 3309	120	9.801 5411	168	0.198 4589	9.926 7898	48	658	
343	9.728 3429	120	9.801 5578	167	0.198 4422	9.926 7850	48	657	
		119		168			48		
344	9.728 3548		9.801 5746		0.198 4254	9.926 7802		656	
345	9.728 3668	120	9.801 5914	168	0.198 4086	9.926 7754	48	655	
346	9.728 3788	120	9.801 6081	167	0.198 3919	9.926 7706	48	654	
		119		168			48		
347	9.728 3907		9.801 6249		0.198 3751	9.926 7658		653	
348	9.728 4027	120	9.801 6417	168	0.198 3583	9.926 7610	48	652	
349	9.728 4147	120	9.801 6584	167	0.198 3416	9.926 7562	48	651	
		120		168			48		
.350	9.728 4267		9.801 6752		0.198 3248	9.926 7514		.650	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	119
1	11.9
2	23.8
3	35.7
4	47.6
5	59.5
6	71.4
7	83.3
8	95.2
9	107.1

	48	47
1	4.8	4.7
2	9.6	9.4
3	14.4	14.1
4	19.2	18.8
5	24.0	23.5
6	28.8	28.2
7	33.6	32.9
8	38.4	37.6
9	43.2	42.3

57°.700 — 57°.650

$32^\circ.350 - 32^\circ.400$

32°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.728 4267		9.801 6752		0.198 3248	9.926 7514		.650	
		119		168			48		
351	9.728 4386		9.801 6920		0.198 3080	9.926 7466		649	
352	9.728 4506	120	9.801 7088	168	0.198 2912	9.926 7418	48	648	
353	9.728 4626	120	9.801 7255	167	0.198 2745	9.926 7370	48	647	
		119		168			48		
354	9.728 4745		9.801 7423		0.198 2577	9.926 7322		646	
355	9.728 4865	120	9.801 7591	168	0.198 2409	9.926 7274	48	645	
356	9.728 4984	119	9.801 7758	167	0.198 2242	9.926 7226	48	644	
		120		168			48		
357	9.728 5104		9.801 7926		0.198 2074	9.926 7178		643	
358	9.728 5224	120	9.801 8094	168	0.198 1906	9.926 7130	48	642	
359	9.728 5343	119	9.801 8261	167	0.198 1739	9.926 7082	48	641	
		120		168			48		
.360	9.728 5463		9.801 8429		0.198 1571	9.926 7034		.640	
		120		167			48		
361	9.728 5583		9.801 8596		0.198 1404	9.926 6986		639	
362	9.728 5702	119	9.801 8764	168	0.198 1236	9.926 6938	48	638	
363	9.728 5822	120	9.801 8932	168	0.198 1068	9.926 6890	48	637	
		119		167			48		
364	9.728 5941		9.801 9099		0.198 0901	9.926 6842		636	
365	9.728 6061	120	9.801 9267	168	0.198 0733	9.926 6794	48	635	
366	9.728 6181	120	9.801 9435	168	0.198 0565	9.926 6746	48	634	
		119		167			48		
367	9.728 6300		9.801 9602		0.198 0398	9.926 6698		633	
368	9.728 6420	120	9.801 9770	168	0.198 0230	9.926 6650	48	632	
369	9.728 6539	119	9.801 9938	168	0.198 0062	9.926 6602	48	631	
		120		167			48		
.370	9.728 6659		9.802 0105		0.197 9895	9.926 6554		.630	
		120		168			48		
371	9.728 6779		9.802 0273		0.197 9727	9.926 6506		629	
372	9.728 6898	119	9.802 0440	167	0.197 9560	9.926 6458	48	628	
373	9.728 7018	120	9.802 0608	168	0.197 9392	9.926 6410	48	627	
		119		168			48		
374	9.728 7137		9.802 0776		0.197 9224	9.926 6362		626	
375	9.728 7257	120	9.802 0943	167	0.197 9057	9.926 6314	48	625	
376	9.728 7376	119	9.802 1111	168	0.197 8889	9.926 6265	49	624	
		120		168			48		
377	9.728 7496		9.802 1279		0.197 8721	9.926 6217		623	
378	9.728 7615	119	9.802 1446	167	0.197 8554	9.926 6169	48	622	
379	9.728 7735	120	9.802 1614	168	0.197 8386	9.926 6121	48	621	
		120		167			48		
.380	9.728 7855		9.802 1781		0.197 8219	9.926 6073		.620	
		119		168			48		
381	9.728 7974		9.802 1949		0.197 8051	9.926 6025		619	
382	9.728 8094	120	9.802 2117	168	0.197 7883	9.926 5977	48	618	
383	9.728 8213	119	9.802 2284	167	0.197 7716	9.926 5929	48	617	
		120		168			48		
384	9.728 8333		9.802 2452		0.197 7548	9.926 5881		616	
385	9.728 8452	119	9.802 2619	167	0.197 7381	9.926 5833	48	615	
386	9.728 8572	120	9.802 2787	168	0.197 7213	9.926 5785	48	614	
		119		167			48		
387	9.728 8691		9.802 2954		0.197 7046	9.926 5737		613	
388	9.728 8811	120	9.802 3122	168	0.197 6878	9.926 5689	48	612	
389	9.728 8930	119	9.802 3290	168	0.197 6710	9.926 5641	48	611	
		120		167			49		
.390	9.728 9050		9.802 3457		0.197 6543	9.926 5592		.610	
		119		168			48		
391	9.728 9169		9.802 3625		0.197 6375	9.926 5544		609	
392	9.728 9289	120	9.802 3792	167	0.197 6208	9.926 5496	48	608	
393	9.728 9408	119	9.802 3960	168	0.197 6040	9.926 5448	48	607	
		120		167			48		
394	9.728 9528		9.802 4127		0.197 5873	9.926 5400		606	
395	9.728 9647	119	9.802 4295	168	0.197 5705	9.926 5352	48	605	
396	9.728 9766	119	9.802 4463	168	0.197 5537	9.926 5304	48	604	
		120		167			48		
397	9.728 9886		9.802 4630		0.197 5370	9.926 5256		603	
398	9.729 0005	119	9.802 4798	168	0.197 5202	9.926 5208	48	602	
399	9.729 0125	120	9.802 4965	167	0.197 5035	9.926 5160	48	601	
		119		168			48		
.400	9.729 0244		9.802 5133		0.197 4867	9.926 5112		.600	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	119
1	11.9
2	23.8
3	35.7
4	47.6
5	59.5
6	71.4
7	83.3
8	95.2
9	107.1

	49	48
1	4.9	4.8
2	9.8	9.6
3	14.7	14.4
4	19.6	19.2
5	24.5	24.0
6	29.4	28.8
7	34.3	33.6
8	39.2	38.4
9	44.1	43.2

$57^\circ.650 - 57^\circ.600$

32°.400 — 32°.450

32°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.729 0244		9.802 5133		0.197 4867	9.926 5112		.600	
		120		167			49		
401	9.729 0364		9.802 5300		0.197 4700	9.926 5063		599	
402	9.729 0483	119	9.802 5468	168	0.197 4532	9.926 5015	48	598	
403	9.729 0603	120	9.802 5635	167	0.197 4365	9.926 4967	48	597	
		119		168			48		
404	9.729 0722		9.802 5803		0.197 4197	9.926 4919		596	
405	9.729 0841	119	9.802 5970	167	0.197 4030	9.926 4871	48	595	
406	9.729 0961	120	9.802 6138	168	0.197 3862	9.926 4823	48	594	
		119		167			48		
407	9.729 1080		9.802 6305		0.197 3695	9.926 4775		593	
408	9.729 1200	120	9.802 6473	168	0.197 3527	9.926 4727	48	592	
409	9.729 1319	119	9.802 6641	168	0.197 3359	9.926 4679	48	591	
		119		167			49		
.410	9.729 1438		9.802 6808		0.197 3192	9.926 4630		.590	
		120		168			48		
411	9.729 1558		9.802 6976		0.197 3024	9.926 4582		589	
412	9.729 1677	119	9.802 7143	167	0.197 2857	9.926 4534	48	588	
413	9.729 1797	120	9.802 7311	168	0.197 2689	9.926 4486	48	587	
		119		167			48		
414	9.729 1916		9.802 7478		0.197 2522	9.926 4438		586	
415	9.729 2035	119	9.802 7646	168	0.197 2354	9.926 4390	48	585	
416	9.729 2155	120	9.802 7813	167	0.197 2187	9.926 4342	48	584	
		119		168			48		
417	9.729 2274		9.802 7981		0.197 2019	9.926 4294		583	
418	9.729 2393	119	9.802 8148	167	0.197 1852	9.926 4245	49	582	
419	9.729 2513	120	9.802 8316	168	0.197 1684	9.926 4197	48	581	
		119		167			48		
.420	9.729 2632		9.802 8483		0.197 1517	9.926 4149		.580	
		119		168			48		
421	9.729 2751		9.802 8651		0.197 1349	9.926 4101		579	
422	9.729 2871	120	9.802 8818	167	0.197 1182	9.926 4053	48	578	
423	9.729 2990	119	9.802 8986	168	0.197 1014	9.926 4005	48	577	
		119		167			48		
424	9.729 3109		9.802 9153		0.197 0847	9.926 3957		576	
425	9.729 3229	120	9.802 9320	167	0.197 0680	9.926 3908	49	575	
426	9.729 3348	119	9.802 9488	168	0.197 0512	9.926 3860	48	574	
		119		167			48		
427	9.729 3467		9.802 9655		0.197 0345	9.926 3812		573	
428	9.729 3587	120	9.802 9823	168	0.197 0177	9.926 3764	48	572	
429	9.729 3706	119	9.802 9990	167	0.197 0010	9.926 3716	48	571	
		119		168			48		
.430	9.729 3825		9.803 0158		0.196 9842	9.926 3668		.570	
		120		167			49		
431	9.729 3945		9.803 0325		0.196 9675	9.926 3619		569	
432	9.729 4064	119	9.803 0493	168	0.196 9507	9.926 3571	48	568	
433	9.729 4183	119	9.803 0660	167	0.196 9340	9.926 3523	48	567	
		120		168			48		
434	9.729 4303		9.803 0828		0.196 9172	9.926 3475		566	
435	9.729 4422	119	9.803 0995	167	0.196 9005	9.926 3427	48	565	
436	9.729 4541	119	9.803 1163	168	0.196 8837	9.926 3379	48	564	
		119		167			49		
437	9.729 4660		9.803 1330		0.196 8670	9.926 3330		563	
438	9.729 4780	120	9.803 1497	167	0.196 8503	9.926 3282	48	562	
439	9.729 4899	119	9.803 1665	168	0.196 8335	9.926 3234	48	561	
		119		167			48		
.440	9.729 5018		9.803 1832		0.196 8168	9.926 3186		.560	
		119		168			48		
441	9.729 5137		9.803 2000		0.196 8000	9.926 3138		559	
442	9.729 5257	120	9.803 2167	167	0.196 7833	9.926 3090	48	558	
443	9.729 5376	119	9.803 2335	168	0.196 7665	9.926 3041	49	557	
		119		167			48		
444	9.729 5495		9.803 2502		0.196 7498	9.926 2993		556	
445	9.729 5614	119	9.803 2669	167	0.196 7331	9.926 2945	48	555	
446	9.729 5734	120	9.803 2837	168	0.196 7163	9.926 2897	48	554	
		119		167			48		
447	9.729 5853		9.803 3004		0.196 6996	9.926 2849		553	
448	9.729 5972	119	9.803 3172	168	0.196 6828	9.926 2800	49	552	
449	9.729 6091	119	9.803 3339	167	0.196 6661	9.926 2752	48	551	
		120		167			48		
.450	9.729 6211		9.803 3506		0.196 6494	9.926 2704		.550	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	119
1	11.9
2	23.8
3	35.7
4	47.6
5	59.5
6	71.4
7	83.3
8	95.2
9	107.1

	49	48
1	4.9	4.8
2	9.8	9.6
3	14.7	14.4
4	19.6	19.2
5	24.5	24.0
6	29.4	28.8
7	34.3	33.6
8	39.2	38.4
9	44.1	43.2

57°.600 — 57°.550

32°.450 — 32°.500

32°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.729 6211		9.803 3506		0.196 6494	9.926 2704		**·550**	
		119		168			48		
451	9.729 6330		9.803 3674		0.196 6326	9.926 2656		549	
452	9.729 6449	119	9.803 3841	167	0.196 6159	9.926 2608	48	548	
453	9.729 6568	119	9.803 4009	168	0.196 5991	9.926 2559	49	547	
		119		167			48		
454	9.729 6687		9.803 4176		0.196 5824	9.926 2511		546	
455	9.729 6806	119	9.803 4343	167	0.196 5657	9.926 2463	48	545	
456	9.729 6926	120	9.803 4511	168	0.196 5489	9.926 2415	48	544	
		119		167			48		
457	9.729 7045		9.803 4678	168	0.196 5322	9.926 2367		543	
458	9.729 7164	119	9.803 4846	167	0.196 5154	9.926 2318	49	542	
459	9.729 7283	119	9.803 5013	167	0.196 4987	9.926 2270	48	541	
		119		168			48		
·460	9.729 7402	120	9.803 5180		0.196 4820	9.926 2222		**·540**	
461	9.729 7522		9.803 5348	167	0.196 4652	9.926 2174	48	539	
462	9.729 7641	119	9.803 5515	167	0.196 4485	9.926 2126	48	538	
463	9.729 7760	119	9.803 5682	168	0.196 4318	9.926 2077	49	537	
		119		167			48		
464	9.729 7879		9.803 5850	168	0.196 4150	9.926 2029		536	
465	9.729 7998	119	9.803 6017	167	0.196 3983	9.926 1981	48	535	
466	9.729 8117	119	9.803 6185	168	0.196 3815	9.926 1933	48	534	
		119		167			49		
467	9.729 8236		9.803 6352		0.196 3648	9.926 1884		533	
468	9.729 8356	120	9.803 6519	167	0.196 3481	9.926 1836	48	532	
469	9.729 8475	119	9.803 6687	168	0.196 3313	9.926 1788	48	531	
		119		167			48		
·470	9.729 8594		9.803 6854		0.196 3146	9.926 1740		**·530**	
		119		167			48		
471	9.729 8713		9.803 7021		0.196 2979	9.926 1692		529	
472	9.729 8832	119	9.803 7189	168	0.196 2811	9.926 1643	49	528	
473	9.729 8951	119	9.803 7356	167	0.196 2644	9.926 1595	48	527	
		119		167			48		
474	9.729 9070		9.803 7523		0.196 2477	9.926 1547		526	
475	9.729 9189	119	9.803 7691	168	0.196 2309	9.926 1499	48	525	
476	9.729 9308	119	9.803 7858	167	0.196 2142	9.926 1450	49	524	
		119		167			48		
477	9.729 9427		9.803 8025		0.196 1975	9.926 1402		523	
478	9.729 9547	120	9.803 8193	168	0.196 1807	9.926 1354	48	522	
479	9.729 9666	119	9.803 8360	167	0.196 1640	9.926 1306	48	521	
		119		167			49		
·480	9.729 9785		9.803 8527		0.196 1473	9.926 1257		**·520**	
		119		168			48		
481	9.729 9904		9.803 8695		0.196 1305	9.926 1209		519	
482	9.730 0023	119	9.803 8862	167	0.196 1138	9.926 1161	48	518	
483	9.730 0142	119	9.803 9029	167	0.196 0971	9.926 1113	48	517	
		119		168			49		
484	9.730 0261		9.803 9197		0.196 0803	9.926 1064		516	
485	9.730 0380	119	9.803 9364	167	0.196 0636	9.926 1016	48	515	
486	9.730 0499	119	9.803 9531	167	0.196 0469	9.926 0968	48	514	
		119		168			48		
487	9.730 0618		9.803 9699		0.196 0301	9.926 0920		513	
488	9.730 0737	119	9.803 9866	167	0.196 0134	9.926 0871	49	512	
489	9.730 0856	119	9.804 0033	167	0.195 9967	9.926 0823	48	511	
		119		167			48		
·490	9.730 0975		9.804 0200		0.195 9800	9.926 0775		**·510**	
		119		168			49		
491	9.730 1094		9.804 0368		0.195 9632	9.926 0726		509	
492	9.730 1213	119	9.804 0535	167	0.195 9465	9.926 0678	48	508	
493	9.730 1332	119	9.804 0702	167	0.195 9298	9.926 0630	48	507	
		119		168			48		
494	9.730 1451		9.804 0870		0.195 9130	9.926 0582		506	
495	9.730 1570	119	9.804 1037	167	0.195 8963	9.926 0533	49	505	
496	9.730 1689	119	9.804 1204	167	0.195 8796	9.926 0485	48	504	
		119		168			48		
497	9.730 1808		9.804 1372		0.195 8628	9.926 0437		503	
498	9.730 1927	119	9.804 1539	167	0.195 8461	9.926 0388	49	502	
499	9.730 2046	119	9.804 1706	167	0.195 8294	9.926 0340	48	501	
		119		167			48		
·500	9.730 2165		9.804 1873		0.195 8127	9.926 0292		**·500**	
	cos	d	cotg	d	tang	sin	d	**57°**	P.P.

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	120
1	12.0
2	24.0
3	36.0
4	48.0
5	60.0
6	72.0
7	84.0
8	96.0
9	108.0

	119
1	11.9
2	23.8
3	35.7
4	47.6
5	59.5
6	71.4
7	83.3
8	95.2
9	107.1

	49	48
1	4.9	4.8
2	9.8	9.6
3	14.7	14.4
4	19.6	19.2
5	24.5	24.0
6	29.4	28.8
7	34.3	33.6
8	39.2	38.4
9	44.1	43.2

57°.550 — 57°.500

$32^\circ.500 - 32^\circ.550$

32°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.730 2165	119	9.804 1873	168	0.195 8127	9.926 0292	48	.500	
501	9.730 2284	119	9.804 2041	167	0.195 7959	9.926 0244	49	499	
502	9.730 2403	119	9.804 2208	167	0.195 7792	9.926 0195	48	498	
503	9.730 2522	119	9.804 2375	167	0.195 7625	9.926 0147	48	497	
504	9.730 2641	119	9.804 2542	168	0.195 7458	9.926 0099	49	496	
505	9.730 2760	119	9.804 2710	167	0.195 7290	9.926 0050	48	495	
506	9.730 2879	119	9.804 2877	167	0.195 7123	9.926 0002	48	494	
507	9.730 2998	119	9.804 3044	167	0.195 6956	9.925 9954	48	493	
508	9.730 3117	119	9.804 3211	168	0.195 6789	9.925 9906	49	492	
509	9.730 3236	119	9.804 3379	167	0.195 6621	9.925 9857	48	491	
.510	9.730 3355	119	9.804 3546	167	0.195 6454	9.925 9809	48	.490	
511	9.730 3474	119	9.804 3713	167	0.195 6287	9.925 9761	49	489	
512	9.730 3593	119	9.804 3880	168	0.195 6120	9.925 9712	48	488	
513	9.730 3712	119	9.804 4048	167	0.195 5952	9.925 9664	48	487	
514	9.730 3831	118	9.804 4215	167	0.195 5785	9.925 9616	49	486	
515	9.730 3949	119	9.804 4382	167	0.195 5618	9.925 9567	48	485	
516	9.730 4068	119	9.804 4549	168	0.195 5451	9.925 9519	48	484	
517	9.730 4187	119	9.804 4717	167	0.195 5283	9.925 9471	49	483	
518	9.730 4306	119	9.804 4884	167	0.195 5116	9.925 9422	48	482	
519	9.730 4425	119	9.804 5051	167	0.195 4949	9.925 9374	48	481	
.520	9.730 4544	119	9.804 5218	167	0.195 4782	9.925 9326	49	.480	
521	9.730 4663	119	9.804 5385	168	0.195 4615	9.925 9277	48	479	
522	9.730 4782	119	9.804 5553	167	0.195 4447	9.925 9229	48	478	
523	9.730 4901	118	9.804 5720	167	0.195 4280	9.925 9181	49	477	
524	9.730 5019	119	9.804 5887	167	0.195 4113	9.925 9132	48	476	
525	9.730 5138	119	9.804 6054	167	0.195 3946	9.925 9084	48	475	
526	9.730 5257	119	9.804 6221	168	0.195 3779	9.925 9036	49	474	
527	9.730 5376	119	9.804 6389	167	0.195 3611	9.925 8987	48	473	
528	9.730 5495	119	9.804 6556	167	0.195 3444	9.925 8939	48	472	
529	9.730 5614	119	9.804 6723	167	0.195 3277	9.925 8891	49	471	
.530	9.730 5733	118	9.804 6890	167	0.195 3110	9.925 8842	48	.470	
531	9.730 5851	119	9.804 7057	168	0.195 2943	9.925 8794	48	469	
532	9.730 5970	119	9.804 7225	167	0.195 2775	9.925 8746	49	468	
533	9.730 6089	119	9.804 7392	167	0.195 2608	9.925 8697	48	467	
534	9.730 6208	119	9.804 7559	167	0.195 2441	9.925 8649	48	466	
535	9.730 6327	119	9.804 7726	167	0.195 2274	9.925 8601	49	465	
536	9.730 6446	118	9.804 7893	167	0.195 2107	9.925 8552	48	464	
537	9.730 6564	119	9.804 8060	168	0.195 1940	9.925 8504	48	463	
538	9.730 6683	119	9.804 8228	167	0.195 1772	9.925 8456	49	462	
539	9.730 6802	119	9.804 8395	167	0.195 1605	9.925 8407	48	461	
.540	9.730 6921	119	9.804 8562	167	0.195 1438	9.925 8359	48	.460	
541	9.730 7040	118	9.804 8729	167	0.195 1271	9.925 8311	49	459	
542	9.730 7158	119	9.804 8896	167	0.195 1104	9.925 8262	48	458	
543	9.730 7277	119	9.804 9063	168	0.195 0937	9.925 8214	49	457	
544	9.730 7396	119	9.804 9231	167	0.195 0769	9.925 8165	48	456	
545	9.730 7515	118	9.804 9398	167	0.195 0602	9.925 8117	48	455	
546	9.730 7633	119	9.804 9565	167	0.195 0435	9.925 8069	49	454	
547	9.730 7752	119	9.804 9732	167	0.195 0268	9.925 8020	48	453	
548	9.730 7871	119	9.804 9899	167	0.195 0101	9.925 7972	48	452	
549	9.730 7990	119	9.805 0066	167	0.194 9934	9.925 7924	49	451	
.550	9.730 8109		9.805 0233		0.194 9767	9.925 7875		.450	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	168
1	16.8
2	33.6
3	50.4
4	67.2
5	84.0
6	100.8
7	117.6
8	134.4
9	151.2

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	119
1	11.9
2	23.8
3	35.7
4	47.6
5	59.5
6	71.4
7	83.3
8	95.2
9	107.1

	118
1	11.8
2	23.6
3	35.4
4	47.2
5	59.0
6	70.8
7	82.6
8	94.4
9	106.2

	49	48
1	4.9	4.8
2	9.8	9.6
3	14.7	14.4
4	19.6	19.2
5	24.5	24.0
6	29.4	28.8
7	34.3	33.6
8	39.2	38.4
9	44.1	43.2

$57^\circ.500 - 57^\circ.450$

32°.550 — 32°.600

32°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.730 8109		9.805 0233		0.194 9767	9.925 7875		**.450**	
		118		168			48		
551	9.730 8227		9.805 0401		0.194 9599	9.925 7827		449	
552	9.730 8346	119	9.805 0568	167	0.194 9432	9.925 7778	49	448	168
553	9.730 8465	119	9.805 0735	167	0.194 9265	9.925 7730	48	447	1 16.8
		118		167			48		2 33.6
554	9.730 8583		9.805 0902		0.194 9098	9.925 7682		446	3 50.4
555	9.730 8702	119	9.805 1069	167	0.194 8931	9.925 7633	49	445	4 67.2
556	9.730 8821	119	9.805 1236	167	0.194 8764	9.925 7585	48	444	5 84.0
		119		167			49		6 100.8
557	9.730 8940		9.805 1403		0.194 8597	9.925 7536		443	7 117.6
558	9.730 9058	118	9.805 1570	167	0.194 8430	9.925 7488	48	442	8 134.4
559	9.730 9177	119	9.805 1737	167	0.194 8263	9.925 7440	48	441	9 151.2
		119		168			49		
.560	9.730 9296		9.805 1905		0.194 8095	9.925 7391		**.440**	
		119		167			48		
561	9.730 9415		9.805 2072		0.194 7928	9.925 7343		439	
562	9.730 9533	118	9.805 2239	167	0.194 7761	9.925 7294	49	438	167
563	9.730 9652	119	9.805 2406	167	0.194 7594	9.925 7246	48	437	1 16.7
		119		167			48		2 33.4
564	9.730 9771		9.805 2573		0.194 7427	9.925 7198		436	3 50.1
565	9.730 9889	118	9.805 2740	167	0.194 7260	9.925 7149	49	435	4 66.8
566	9.731 0008	119	9.805 2907	167	0.194 7093	9.925 7101	48	434	5 83.5
		119		167			49		6 100.2
567	9.731 0127		9.805 3074		0.194 6926	9.925 7052		433	7 116.9
568	9.731 0245	118	9.805 3241	167	0.194 6759	9.925 7004	48	432	8 133.6
569	9.731 0364	119	9.805 3408	167	0.194 6592	9.925 6956	48	431	9 150.3
		119		168			49		
.570	9.731 0483		9.805 3576		0.194 6424	9.925 6907		**.430**	
		118		167			48		
571	9.731 0601		9.805 3743		0.194 6257	9.925 6859		429	
572	9.731 0720	119	9.805 3910	167	0.194 6090	9.925 6810	49	428	119
573	9.731 0839	119	9.805 4077	167	0.194 5923	9.925 6762	48	427	1 11.9
		118		167			49		2 23.8
574	9.731 0957		9.805 4244		0.194 5756	9.925 6713		426	3 35.7
575	9.731 1076	119	9.805 4411	167	0.194 5589	9.925 6665	48	425	4 47.6
576	9.731 1195	119	9.805 4578	167	0.194 5422	9.925 6617	48	424	5 59.5
		118		167			49		6 71.4
577	9.731 1313		9.805 4745		0.194 5255	9.925 6568		423	7 83.3
578	9.731 1432	119	9.805 4912	167	0.194 5088	9.925 6520	48	422	8 95.2
579	9.731 1550	118	9.805 5079	167	0.194 4921	9.925 6471	49	421	9 107.1
		119		167			48		
.580	9.731 1669		9.805 5246		0.194 4754	9.925 6423		**.420**	
		119		167			49		
581	9.731 1788		9.805 5413		0.194 4587	9.925 6374		419	
582	9.731 1906	118	9.805 5580	167	0.194 4420	9.925 6326	48	418	118
583	9.731 2025	119	9.805 5747	167	0.194 4253	9.925 6278	48	417	1 11.8
		118		167			49		2 23.6
584	9.731 2143		9.805 5914		0.194 4086	9.925 6229		416	3 35.4
585	9.731 2262	119	9.805 6081	167	0.194 3919	9.925 6181	48	415	4 47.2
586	9.731 2381	119	9.805 6248	167	0.194 3752	9.925 6132	49	414	5 59.0
		118		167			48		6 70.8
587	9.731 2499		9.805 6415		0.194 3585	9.925 6084		413	7 82.6
588	9.731 2618	119	9.805 6583	168	0.194 3417	9.925 6035	49	412	8 94.4
589	9.731 2736	118	9.805 6750	167	0.194 3250	9.925 5987	48	411	9 106.2
		119		167			49		
.590	9.731 2855		9.805 6917		0.194 3083	9.925 5938		**.410**	
		118		167			48		
591	9.731 2973		9.805 7084		0.194 2916	9.925 5890		409	49 48
592	9.731 3092	119	9.805 7251	167	0.194 2749	9.925 5841	49	408	1 4.9 4.8
593	9.731 3211	119	9.805 7418	167	0.194 2582	9.925 5793	48	407	2 9.8 9.6
		118		167			48		3 14.7 14.4
594	9.731 3329		9.805 7585		0.194 2415	9.925 5745		406	4 19.6 19.2
595	9.731 3448	119	9.805 7752	167	0.194 2248	9.925 5696	49	405	5 24.5 24.0
596	9.731 3566	118	9.805 7919	167	0.194 2081	9.925 5648	48	404	6 29.4 28.8
		119		167			49		7 34.3 33.6
597	9.731 3685		9.805 8086		0.194 1914	9.925 5599		403	8 39.2 38.4
598	9.731 3803	118	9.805 8253	167	0.194 1747	9.925 5551	48	402	9 44.1 43.2
599	9.731 3922	119	9.805 8420	167	0.194 1580	9.925 5502	49	401	
		118		167			48		
.600	9.731 4040		9.805 8587		0.194 1413	9.925 5454		**.400**	
	cos	d	cotg	d	tang	sin	d	**57°**	P.P.

57°.450 — 57°.400

32°.600 — 32°.650

32°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.731 4040		9.805 8587		0.194 1413	9.925 5454		**.400**	
		119		167			49		
601	9.731 4159		9.805 8754		0.194 1246	9.925 5405		399	
602	9.731 4277	118	9.805 8921	167	0.194 1079	9.925 5357	48	398	
603	9.731 4396	119	9.805 9088	167	0.194 0912	9.925 5308	49	397	
		118		167			48		
604	9.731 4514		9.805 9255		0.194 0745	9.925 5260		396	
605	9.731 4633	119	9.805 9422	167	0.194 0578	9.925 5211	49	395	
606	9.731 4751	118	9.805 9589	167	0.194 0411	9.925 5163	48	394	
		119		167			49		
607	9.731 4870		9.805 9756		0.194 0244	9.925 5114		393	
608	9.731 4988	118	9.805 9923	167	0.194 0077	9.925 5066	48	392	
609	9.731 5107	119	9.806 0090	167	0.193 9910	9.925 5017	49	391	
		118		167			48		
.610	9.731 5225		9.806 0257		0.193 9743	9.925 4969		**.390**	
		119		166			49		
611	9.731 5344		9.806 0423		0.193 9577	9.925 4920		389	
612	9.731 5462	118	9.806 0590	167	0.193 9410	9.925 4872	48	388	
613	9.731 5581	119	9.806 0757	167	0.193 9243	9.925 4823	49	387	
		118		167			48		
614	9.731 5699		9.806 0924		0.193 9076	9.925 4775		386	
615	9.731 5818	119	9.806 1091	167	0.193 8909	9.925 4726	49	385	
616	9.731 5936	118	9.806 1258	167	0.193 8742	9.925 4678	48	384	
		119		167			49		
617	9.731 6055		9.806 1425		0.193 8575	9.925 4629		383	
618	9.731 6173	118	9.806 1592	167	0.193 8408	9.925 4581	48	382	
619	9.731 6291	118	9.806 1759	167	0.193 8241	9.925 4532	49	381	
		119		167			48		
.620	9.731 6410		9.806 1926		0.193 8074	9.925 4484		**.380**	
		118		167			49		
621	9.731 6528		9.806 2093		0.193 7907	9.925 4435		379	
622	9.731 6647	119	9.806 2260	167	0.193 7740	9.925 4387	48	378	
623	9.731 6765	118	9.806 2427	167	0.193 7573	9.925 4338	49	377	
		119		167			48		
624	9.731 6884		9.806 2594		0.193 7406	9.925 4290		376	
625	9.731 7002	118	9.806 2761	167	0.193 7239	9.925 4241	49	375	
626	9.731 7120	118	9.806 2928	167	0.193 7072	9.925 4193	48	374	
		119		167			49		
627	9.731 7239		9.806 3095		0.193 6905	9.925 4144		373	
628	9.731 7357	118	9.806 3262	167	0.193 6738	9.925 4096	48	372	
629	9.731 7476	119	9.806 3428	166	0.193 6572	9.925 4047	49	371	
		118		167			48		
.630	9.731 7594		9.806 3595		0.193 6405	9.925 3999		**.370**	
		118		167			49		
631	9.731 7712		9.806 3762		0.193 6238	9.925 3950		369	
632	9.731 7831	119	9.806 3929	167	0.193 6071	9.925 3902	48	368	
633	9.731 7949	118	9.806 4096	167	0.193 5904	9.925 3853	49	367	
		119		167			49		
634	9.731 8068		9.806 4263		0.193 5737	9.925 3804		366	
635	9.731 8186	118	9.806 4430	167	0.193 5570	9.925 3756	48	365	
636	9.731 8304	118	9.806 4597	167	0.193 5403	9.925 3707	49	364	
		119		167			48		
637	9.731 8423		9.806 4764		0.193 5236	9.925 3659		363	
638	9.731 8541	118	9.806 4931	167	0.193 5069	9.925 3610	49	362	
639	9.731 8659	118	9.806 5098	167	0.193 4902	9.925 3562	48	361	
		119		166			49		
.640	9.731 8778		9.806 5264		0.193 4736	9.925 3513		**.360**	
		118		167			48		
641	9.731 8896		9.806 5431		0.193 4569	9.925 3465		359	
642	9.731 9014	118	9.806 5598	167	0.193 4402	9.925 3416	49	358	
643	9.731 9133	119	9.806 5765	167	0.193 4235	9.925 3368	48	357	
		118		167			49		
644	9.731 9251		9.806 5932		0.193 4068	9.925 3319		356	
645	9.731 9369	118	9.806 6099	167	0.193 3901	9.925 3270	49	355	
646	9.731 9488	119	9.806 6266	167	0.193 3734	9.925 3222	48	354	
		118		167			49		
647	9.731 9606		9.806 6433		0.193 3567	9.925 3173		353	
648	9.731 9724	118	9.806 6600	167	0.193 3400	9.925 3125	48	352	
649	9.731 9843	119	9.806 6766	166	0.193 3234	9.925 3076	49	351	
		118		167			48		
.650	9.731 9961		9.806 6933		0.193 3067	9.925 3028		**.350**	
	cos	d	cotg	d	tang	sin	d	**57°**	P.P.

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	119
1	11.9
2	23.8
3	35.7
4	47.6
5	59.5
6	71.4
7	83.3
8	95.2
9	107.1

	118
1	11.8
2	23.6
3	35.4
4	47.2
5	59.0
6	70.8
7	82.6
8	94.4
9	106.2

	49	48
1	4.9	4.8
2	9.8	9.6
3	14.7	14.4
4	19.6	19.2
5	24.5	24.0
6	29.4	28.8
7	34.3	33.6
8	39.2	38.4
9	44.1	43.2

57°.400 — 57°.350

$32^\circ.650 - 32^\circ.700$

32°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.731 9961		9.806 6933		0.193 3067	9.925 3028		**.350**	
		118		167			49		
651	9.732 0079		9.806 7100		0.193 2900	9.925 2979		349	
652	9.732 0197	118	9.806 7267	167	0.193 2733	9.925 2930	49	348	167
653	9.732 0316	119	9.806 7434	167	0.193 2566	9.925 2882	48	347	1 16.7
		118		167			49		2 33.4
654	9.732 0434		9.806 7601		0.193 2399	9.925 2833		346	3 50.1
655	9.732 0552	118	9.806 7768	167	0.193 2232	9.925 2785	48	345	4 66.8
656	9.732 0671	119	9.806 7934	166	0.193 2066	9.925 2736	49	344	5 83.5
		118		167			48		6 100.2
657	9.732 0789		9.806 8101		0.193 1899	9.925 2688		343	7 116.9
658	9.732 0907	118	9.806 8268	167	0.193 1732	9.925 2639	49	342	8 133.6
659	9.732 1025	118	9.806 8435	167	0.193 1565	9.925 2590	49	341	9 150.3
		119		167			48		
.660	9.732 1144		9.806 8602		0.193 1398	9.925 2542		**.340**	
		118		167			49		
661	9.732 1262		9.806 8769		0.193 1231	9.925 2493		339	
662	9.732 1380	118	9.806 8935	166	0.193 1065	9.925 2445	48	338	166
663	9.732 1498	118	9.806 9102	167	0.193 0898	9.925 2396	49	337	1 16.6
		119		167			49		2 33.2
664	9.732 1617		9.806 9269		0.193 0731	9.925 2347		336	3 49.8
665	9.732 1735	118	9.806 9436	167	0.193 0564	9.925 2299	48	335	4 66.4
666	9.732 1853	118	9.806 9603	167	0.193 0397	9.925 2250	49	334	5 83.0
		118		167			48		6 99.6
667	9.732 1971		9.806 9770		0.193 0230	9.925 2202		333	7 116.2
668	9.732 2089	118	9.806 9936	166	0.193 0064	9.925 2153	49	332	8 132.8
669	9.732 2208	119	9.807 0103	167	0.192 9897	9.925 2104	49	331	9 149.4
		118		167			48		
.670	9.732 2326		9.807 0270		0.192 9730	9.925 2056		**.330**	
		118		167			49		
671	9.732 2444		9.807 0437		0.192 9563	9.925 2007		329	
672	9.732 2562	118	9.807 0604	167	0.192 9396	9.925 1959	48	328	119
673	9.732 2680	118	9.807 0770	166	0.192 9230	9.925 1910	49	327	1 11.9
		119		167			49		2 23.8
674	9.732 2799		9.807 0937		0.192 9063	9.925 1861		326	3 35.7
675	9.732 2917	118	9.807 1104	167	0.192 8896	9.925 1813	48	325	4 47.6
676	9.732 3035	118	9.807 1271	167	0.192 8729	9.925 1764	49	324	5 59.5
		118		167			48		6 71.4
677	9.732 3153		9.807 1438		0.192 8562	9.925 1716		323	7 83.3
678	9.732 3271	118	9.807 1604	166	0.192 8396	9.925 1667	49	322	8 95.2
679	9.732 3390	119	9.807 1771	167	0.192 8229	9.925 1618	49	321	9 107.1
		118		167			48		
.680	9.732 3508		9.807 1938		0.192 8062	9.925 1570		**.320**	
		118		167			49		
681	9.732 3626		9.807 2105		0.192 7895	9.925 1521		319	
682	9.732 3744	118	9.807 2272	167	0.192 7728	9.925 1472	49	318	118
683	9.732 3862	118	9.807 2438	166	0.192 7562	9.925 1424	48	317	1 11.8
		118		167			49		2 23.6
684	9.732 3980		9.807 2605		0.192 7395	9.925 1375		316	3 35.4
685	9.732 4098	118	9.807 2772	167	0.192 7228	9.925 1327	48	315	4 47.2
686	9.732 4217	119	9.807 2939	167	0.192 7061	9.925 1278	49	314	5 59.0
		118		166			48		6 70.8
687	9.732 4335		9.807 3105		0.192 6895	9.925 1229		313	7 82.6
688	9.732 4453	118	9.807 3272	167	0.192 6728	9.925 1181	49	312	8 94.4
689	9.732 4571	118	9.807 3439	167	0.192 6561	9.925 1132	49	311	9 106.2
		118		167			49		
.690	9.732 4689		9.807 3606		0.192 6394	9.925 1083		**.310**	
		118		166			48		
691	9.732 4807		9.807 3772		0.192 6228	9.925 1035		309	49 48
692	9.732 4925	118	9.807 3939	167	0.192 6061	9.925 0986	49	308	1 4.9 4.8
693	9.732 5043	118	9.807 4106	167	0.192 5894	9.925 0937	49	307	2 9.8 9.6
		118		167			48		3 14.7 14.4
694	9.732 5161		9.807 4273		0.192 5727	9.925 0889		306	4 19.6 19.2
695	9.732 5280	119	9.807 4439	166	0.192 5561	9.925 0840	49	305	5 24.5 24.0
696	9.732 5398	118	9.807 4606	167	0.192 5394	9.925 0791	49	304	6 29.4 28.8
		118		167			48		7 34.3 33.6
697	9.732 5516		9.807 4773		0.192 5227	9.925 0743		303	8 39.2 38.4
698	9.732 5634	118	9.807 4940	167	0.192 5060	9.925 0694	49	302	9 44.1 43.2
699	9.732 5752	118	9.807 5106	166	0.192 4894	9.925 0646	48	301	
		118		167			49		
.700	9.732 5870		9.807 5273		0.192 4727	9.925 0597		**.300**	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

$57^\circ.350 - 57^\circ.300$

32°.700 — 32°.750

32°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.732 5870		9.807 5273		0.192 4727	9.925 0597		.300	
		118		167			49		
701	9.732 5988		9.807 5440		0.192 4560	9.925 0548		299	
702	9.732 6106	118	9.807 5607	167	0.192 4393	9.925 0500	48	298	
703	9.732 6224	118	9.807 5773	166	0.192 4227	9.925 0451	49	297	
		118		167			49		
704	9.732 6342		9.807 5940		0.192 4060	9.925 0402		296	
705	9.732 6460	118	9.807 6107	167	0.192 3893	9.925 0354	48	295	
706	9.732 6578	118	9.807 6273	166	0.192 3727	9.925 0305	49	294	
		118		167			49		
707	9.732 6696		9.807 6440		0.192 3560	9.925 0256		293	
708	9.732 6814	118	9.807 6607	167	0.192 3393	9.925 0207	49	292	
709	9.732 6932	118	9.807 6774	167	0.192 3226	9.925 0159	48	291	
		118		166			49		
.710	9.732 7050		9.807 6940		0.192 3060	9.925 0110		.290	
		118		167			49		
711	9.732 7168		9.807 7107		0.192 2893	9.925 0061		289	
712	9.732 7286	118	9.807 7274	167	0.192 2726	9.925 0013	48	288	
713	9.732 7404	118	9.807 7440	166	0.192 2560	9.924 9964	49	287	
		118		167			49		
714	9.732 7522		9.807 7607		0.192 2393	9.924 9915		286	
715	9.732 7640	118	9.807 7774	167	0.192 2226	9.924 9867	48	285	
716	9.732 7758	118	9.807 7940	166	0.192 2060	9.924 9818	49	284	
		118		167			49		
717	9.732 7876		9.807 8107		0.192 1893	9.924 9769		283	
718	9.732 7994	118	9.807 8274	167	0.192 1726	9.924 9721	48	282	
719	9.732 8112	118	9.807 8440	166	0.192 1560	9.924 9672	49	281	
		118		167			49		
.720	9.732 8230		9.807 8607		0.192 1393	9.924 9623		.280	
		118		167			48		
721	9.732 8348		9.807 8774		0.192 1226	9.924 9575		279	
722	9.732 8466	118	9.807 8941	167	0.192 1059	9.924 9526	49	278	
723	9.732 8584	118	9.807 9107	166	0.192 0893	9.924 9477	49	277	
		118		167			49		
724	9.732 8702		9.807 9274		0.192 0726	9.924 9428		276	
725	9.732 8820	118	9.807 9441	167	0.192 0559	9.924 9380	48	275	
726	9.732 8938	118	9.807 9607	166	0.192 0393	9.924 9331	49	274	
		118		167			49		
727	9.732 9056		9.807 9774		0.192 0226	9.924 9282		273	
728	9.732 9174	118	9.807 9941	167	0.192 0059	9.924 9234	48	272	
729	9.732 9292	118	9.808 0107	166	0.191 9893	9.924 9185	49	271	
		118		167			49		
.730	9.732 9410		9.808 0274		0.191 9726	9.924 9136		.270	
		118		166			49		
731	9.732 9528		9.808 0440		0.191 9560	9.924 9087		269	117
732	9.732 9646	118	9.808 0607	167	0.191 9393	9.924 9039	48	268	
733	9.732 9764	118	9.808 0774	167	0.191 9226	9.924 8990	49	267	1 11.7
		118		166			49		2 23.4
734	9.732 9882		9.808 0940		0.191 9060	9.924 8941		266	3 35.1
735	9.733 0000	118	9.808 1107	167	0.191 8893	9.924 8893	48	265	4 46.8
736	9.733 0117	117	9.808 1274	167	0.191 8726	9.924 8844	49	264	5 58.5
		118		166			49		6 70.2
737	9.733 0235		9.808 1440		0.191 8560	9.924 8795		263	7 81.9
738	9.733 0353	118	9.808 1607	167	0.191 8393	9.924 8746	49	262	8 93.6
739	9.733 0471	118	9.808 1774	167	0.191 8226	9.924 8698	48	261	9 105.3
		118		166			49		
.740	9.733 0589		9.808 1940		0.191 8060	9.924 8649		.260	
		118		167			49		
741	9.733 0707		9.808 2107		0.191 7893	9.924 8600		259	
742	9.733 0825	118	9.808 2273	166	0.191 7727	9.924 8551	49	258	
743	9.733 0943	118	9.808 2440	167	0.191 7560	9.924 8503	48	257	
		118		167			49		
744	9.733 1061		9.808 2607		0.191 7393	9.924 8454		256	
745	9.733 1178	117	9.808 2773	166	0.191 7227	9.924 8405	49	255	
746	9.733 1296	118	9.808 2940	167	0.191 7060	9.924 8356	49	254	
		118		166			48		
747	9.733 1414		9.808 3106		0.191 6894	9.924 8308		253	
748	9.733 1532	118	9.808 3273	167	0.191 6727	9.924 8259	49	252	
749	9.733 1650	118	9.808 3440	167	0.191 6560	9.924 8210	49	251	
		118		166			49		
.750	9.733 1768		9.808 3606		0.191 6394	9.924 8161		.250	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	118
1	11.8
2	23.6
3	35.4
4	47.2
5	59.0
6	70.8
7	82.6
8	94.4
9	106.2

	49	48
1	4.9	4.8
2	9.8	9.6
3	14.7	14.4
4	19.6	19.2
5	24.5	24.0
6	29.4	28.8
7	34.3	33.6
8	39.2	38.4
9	44.1	43.2

57°.300 — 57°.250

32°.750 — 32°.800

32°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.733 1768		9.808 3606		0.191 6394	9.924 8161		.250	
		118		167			48		
751	9.733 1886		9.808 3773		0.191 6227	9.924 8113		249	
752	9.733 2003	117	9.808 3939	166	0.191 6061	9.924 8064	49	248	
753	9.733 2121	118	9.808 4106	167	0.191 5894	9.924 8015	49	247	
		118		167			49		
754	9.733 2239		9.808 4273		0.191 5727	9.924 7966		246	
755	9.733 2357	118	9.808 4439	166	0.191 5561	9.924 7918	48	245	
756	9.733 2475	118	9.808 4606	167	0.191 5394	9.924 7869	49	244	
		117		166			49		
757	9.733 2592		9.808 4772		0.191 5228	9.924 7820		243	
758	9.733 2710	118	9.808 4939	167	0.191 5061	9.924 7771	49	242	
759	9.733 2828	118	9.808 5106	167	0.191 4894	9.924 7723	48	241	
		118		166			49		
.760	9.733 2946		9.808 5272		0.191 4728	9.924 7674		.240	
		118		167			49		
761	9.733 3064		9.808 5439		0.191 4561	9.924 7625		239	
762	9.733 3181	117	9.808 5605	166	0.191 4395	9.924 7576	49	238	
763	9.733 3299	118	9.808 5772	167	0.191 4228	9.924 7527	49	237	
		118		166			48		
764	9.733 3417		9.808 5938		0.191 4062	9.924 7479		236	
765	9.733 3535	118	9.808 6105	167	0.191 3895	9.924 7430	49	235	
766	9.733 3653	118	9.808 6272	167	0.191 3728	9.924 7381	49	234	
		117		166			49		
767	9.733 3770		9.808 6438		0.191 3562	9.924 7332		233	
768	9.733 3888	118	9.808 6605	167	0.191 3395	9.924 7284	48	232	
769	9.733 4006	118	9.808 6771	166	0.191 3229	9.924 7235	49	231	
		118		167			49		
.770	9.733 4124		9.808 6938		0.191 3062	9.924 7186		.230	
		117		166			49		
771	9.733 4241		9.808 7104		0.191 2896	9.924 7137		229	
772	9.733 4359	118	9.808 7271	167	0.191 2729	9.924 7088	49	228	
773	9.733 4477	118	9.808 7437	166	0.191 2563	9.924 7040	48	227	
		118		167			49		
774	9.733 4595		9.808 7604		0.191 2396	9.924 6991		226	
775	9.733 4712	117	9.808 7770	166	0.191 2230	9.924 6942	49	225	
776	9.733 4830	118	9.808 7937	167	0.191 2063	9.924 6893	49	224	
		118		166			49		
777	9.733 4948		9.808 8103		0.191 1897	9.924 6844		223	
778	9.733 5066	118	9.808 8270	167	0.191 1730	9.924 6796	48	222	
779	9.733 5183	117	9.808 8437	167	0.191 1563	9.924 6747	49	221	
		118		166			49		
.780	9.733 5301		9.808 8603		0.191 1397	9.924 6698		.220	
		118		167			49		
781	9.733 5419		9.808 8770		0.191 1230	9.924 6649		219	
782	9.733 5536	117	9.808 8936	166	0.191 1064	9.924 6600	49	218	
783	9.733 5654	118	9.808 9103	167	0.191 0897	9.924 6551	49	217	
		118		166			48		
784	9.733 5772		9.808 9269		0.191 0731	9.924 6503		216	
785	9.733 5889	117	9.808 9436	167	0.191 0564	9.924 6454	49	215	
786	9.733 6007	118	9.808 9602	166	0.191 0398	9.924 6405	49	214	
		118		167			49		
787	9.733 6125		9.808 9769		0.191 0231	9.924 6356		213	
788	9.733 6242	117	9.808 9935	166	0.191 0065	9.924 6307	49	212	
789	9.733 6360	118	9.809 0102	167	0.190 9898	9.924 6259	48	211	
		118		166			49		
.790	9.733 6478		9.809 0268		0.190 9732	9.924 6210		.210	
		117		167			49		
791	9.733 6595		9.809 0435		0.190 9565	9.924 6161		209	
792	9.733 6713	118	9.809 0601	166	0.190 9399	9.924 6112	49	208	
793	9.733 6831	118	9.809 0768	167	0.190 9232	9.924 6063	49	207	
		117		166			49		
794	9.733 6948		9.809 0934		0.190 9066	9.924 6014		206	
795	9.733 7066	118	9.809 1101	167	0.190 8899	9.924 5966	48	205	
796	9.733 7184	118	9.809 1267	166	0.190 8733	9.924 5917	49	204	
		117		166			49		
797	9.733 7301		9.809 1433		0.190 8567	9.924 5868		203	
798	9.733 7419	118	9.809 1600	167	0.190 8400	9.924 5819	49	202	
799	9.733 7537	118	9.809 1766	166	0.190 8234	9.924 5770	49	201	
		117		167			49		
.800	9.733 7654		9.809 1933		0.190 8067	9.924 5721		.200	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	118
1	11.8
2	23.6
3	35.4
4	47.2
5	59.0
6	70.8
7	82.6
8	94.4
9	106.2

	117
1	11.7
2	23.4
3	35.1
4	46.8
5	58.5
6	70.2
7	81.9
8	93.6
9	105.3

	49	48
1	4.9	4.8
2	9.8	9.6
3	14.7	14.4
4	19.6	19.2
5	24.5	24.0
6	29.4	28.8
7	34.3	33.6
8	39.2	38.4
9	44.1	43.2

57°.250 — 57°.200

32°.800 — 32°.850

32°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.733 7654		9.809 1933		0.190 8067	9.924 5721		**.200**	
		118		166			49		
801	9.733 7772		9.809 2099		0.190 7901	9.924 5672		199	
802	9.733 7889	117	9.809 2266	167	0.190 7734	9.924 5624	48	198	
803	9.733 8007	118	9.809 2432	166	0.190 7568	9.924 5575	49	197	
		118		167			49		
804	9.733 8125		9.809 2599		0.190 7401	9.924 5526		196	
805	9.733 8242	117	9.809 2765	166	0.190 7235	9.924 5477	49	195	
806	9.733 8360	118	9.809 2932	167	0.190 7068	9.924 5428	49	194	
		117		166			49		
807	9.733 8477		9.809 3098		0.190 6902	9.924 5379		193	
808	9.733 8595	118	9.809 3265	167	0.190 6735	9.924 5330	49	192	
809	9.733 8713	118	9.809 3431	166	0.190 6569	9.924 5282	48	191	
		117		166			49		
.810	9.733 8830		9.809 3597		0.190 6403	9.924 5233		**.190**	
		118		167			49		
811	9.733 8948		9.809 3764		0.190 6236	9.924 5184		189	
812	9.733 9065	117	9.809 3930	166	0.190 6070	9.924 5135	49	188	
813	9.733 9183	118	9.809 4097	167	0.190 5903	9.924 5086	49	187	
		117		166			49		
814	9.733 9300		9.809 4263		0.190 5737	9.924 5037		186	
815	9.733 9418	118	9.809 4430	167	0.190 5570	9.924 4988	49	185	
816	9.733 9535	117	9.809 4596	166	0.190 5404	9.924 4939	49	184	
		118		166			48		
817	9.733 9653		9.809 4762		0.190 5238	9.924 4891		183	
818	9.733 9771	118	9.809 4929	167	0.190 5071	9.924 4842	49	182	
819	9.733 9888	117	9.809 5095	166	0.190 4905	9.924 4793	49	181	
		118		167			49		
.820	9.734 0006		9.809 5262		0.190 4738	9.924 4744		**.180**	
		117		166			49		
821	9.734 0123		9.809 5428		0.190 4572	9.924 4695		179	
822	9.734 0241	118	9.809 5594	166	0.190 4406	9.924 4646	49	178	
823	9.734 0358	117	9.809 5761	167	0.190 4239	9.924 4597	49	177	
		118		166			49		
824	9.734 0476		9.809 5927		0.190 4073	9.924 4548		176	
825	9.734 0593	117	9.809 6094	167	0.190 3906	9.924 4500	48	175	
826	9.734 0711	118	9.809 6260	166	0.190 3740	9.924 4451	49	174	
		117		166			49		
827	9.734 0828		9.809 6426		0.190 3574	9.924 4402		173	
828	9.734 0946	118	9.809 6593	167	0.190 3407	9.924 4353	49	172	
829	9.734 1063	117	9.809 6759	166	0.190 3241	9.924 4304	49	171	
		118		167			49		
.830	9.734 1181		9.809 6926		0.190 3074	9.924 4255		**.170**	
		117		166			49		
831	9.734 1298		9.809 7092		0.190 2908	9.924 4206		169	
832	9.734 1416	118	9.809 7258	166	0.190 2742	9.924 4157	49	168	
833	9.734 1533	117	9.809 7425	167	0.190 2575	9.924 4108	49	167	
		118		166			49		
834	9.734 1651		9.809 7591		0.190 2409	9.924 4059		166	
835	9.734 1768	117	9.809 7758	167	0.190 2242	9.924 4010	49	165	
836	9.734 1885	117	9.809 7924	166	0.190 2076	9.924 3962	48	164	
		118		166			49		
837	9.734 2003		9.809 8090		0.190 1910	9.924 3913		163	
838	9.734 2120	117	9.809 8257	167	0.190 1743	9.924 3864	49	162	
839	9.734 2238	118	9.809 8423	166	0.190 1577	9.924 3815	49	161	
		117		166			49		
.840	9.734 2355		9.809 8589		0.190 1411	9.924 3766		**.160**	
		118		167			49		
841	9.734 2473		9.809 8756		0.190 1244	9.924 3717		159	
842	9.734 2590	117	9.809 8922	166	0.190 1078	9.924 3668	49	158	
843	9.734 2708	118	9.809 9088	166	0.190 0912	9.924 3619	49	157	
		117		167			49		
844	9.734 2825		9.809 9255		0.190 0745	9.924 3570		156	
845	9.734 2942	117	9.809 9421	166	0.190 0579	9.924 3521	49	155	
846	9.734 3060	118	9.809 9587	166	0.190 0413	9.924 3472	49	154	
		117		167			49		
847	9.734 3177		9.809 9754		0.190 0246	9.924 3423		153	
848	9.734 3295	118	9.809 9920	166	0.190 0080	9.924 3374	49	152	
849	9.734 3412	117	9.810 0087	167	0.189 9913	9.924 3325	49	151	
		117		166			48		
.850	9.734 3529		9.810 0253		0.189 9747	9.924 3277		**.150**	
	cos	d	cotg	d	tang	sin	d	**57°**	P.P.

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	118
1	11.8
2	23.6
3	35.4
4	47.2
5	59.0
6	70.8
7	82.6
8	94.4
9	106.2

	117
1	11.7
2	23.4
3	35.1
4	46.8
5	58.5
6	70.2
7	81.9
8	93.6
9	105.3

	49	48
1	4.9	4.8
2	9.8	9.6
3	14.7	14.4
4	19.6	19.2
5	24.5	24.0
6	29.4	28.8
7	34.3	33.6
8	39.2	38.4
9	44.1	43.2

57°.200 — 57°.150

32°.850 — 32°.900

32°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.734 3529		9.810 0253		0.189 9747	9.924 3277		**.150**	
		118		166			49		
851	9.734 3647		9.810 0419		0.189 9581	9.924 3228		149	
852	9.734 3764	117	9.810 0586	167	0.189 9414	9.924 3179	49	148	167
853	9.734 3882	118	9.810 0752	166	0.189 9248	9.924 3130	49	147	1 16.7
		117		166			49		2 33.4
854	9.734 3999		9.810 0918		0.189 9082	9.924 3081		146	3 50.1
855	9.734 4116	117	9.810 1084	166	0.189 8916	9.924 3032	49	145	4 66.8
856	9.734 4234	118	9.810 1251	167	0.189 8749	9.924 2983	49	144	5 83.5
		117		166			49		6 100.2
857	9.734 4351		9.810 1417		0.189 8583	9.924 2934		143	7 116.9
858	9.734 4468	117	9.810 1583	166	0.189 8417	9.924 2885	49	142	8 133.6
859	9.734 4586	118	9.810 1750	167	0.189 8250	9.924 2836	49	141	9 150.3
		117		166			49		
.860	9.734 4703		9.810 1916		0.189 8084	9.924 2787		**.140**	
		117		166			49		
861	9.734 4820		9.810 2082		0.189 7918	9.924 2738		139	166
862	9.734 4938	118	9.810 2249	167	0.189 7751	9.924 2689	49	138	1 16.6
863	9.734 5055	117	9.810 2415	166	0.189 7585	9.924 2640	49	137	2 33.2
		117		166			49		3 49.8
864	9.734 5172		9.810 2581		0.189 7419	9.924 2591		136	4 66.4
865	9.734 5290	118	9.810 2748	167	0.189 7252	9.924 2542	49	135	5 83.0
866	9.734 5407	117	9.810 2914	166	0.189 7086	9.924 2493	49	134	6 99.6
		117		166			49		7 116.2
867	9.734 5524		9.810 3080		0.189 6920	9.924 2444		133	8 132.8
868	9.734 5642	118	9.810 3246	166	0.189 6754	9.924 2395	49	132	9 149.4
869	9.734 5759	117	9.810 3413	167	0.189 6587	9.924 2346	49	131	
		117		166			49		
.870	9.734 5876		9.810 3579		0.189 6421	9.924 2297		**.130**	
		118		166			49		
871	9.734 5994		9.810 3745		0.189 6255	9.924 2248		129	118
872	9.734 6111	117	9.810 3912	167	0.189 6088	9.924 2199	49	128	
873	9.734 6228	117	9.810 4078	166	0.189 5922	9.924 2150	49	127	1 11.8
		117		166			49		2 23.6
874	9.734 6345		9.810 4244		0.189 5756	9.924 2101		126	3 35.4
875	9.734 6463	118	9.810 4410	166	0.189 5590	9.924 2052	49	125	4 47.2
876	9.734 6580	117	9.810 4577	167	0.189 5423	9.924 2003	49	124	5 59.0
		117		166			49		6 70.8
877	9.734 6697		9.810 4743		0.189 5257	9.924 1954		123	7 82.6
878	9.734 6815	118	9.810 4909	166	0.189 5091	9.924 1905	49	122	8 94.4
879	9.734 6932	117	9.810 5075	166	0.189 4925	9.924 1856	49	121	9 106.2
		117		167			49		
.880	9.734 7049		9.810 5242		0.189 4758	9.924 1807		**.120**	
		117		166			49		
881	9.734 7166		9.810 5408		0.189 4592	9.924 1758		119	117
882	9.734 7284	118	9.810 5574	166	0.189 4426	9.924 1709	49	118	
883	9.734 7401	117	9.810 5740	166	0.189 4260	9.924 1660	49	117	1 11.7
		117		167			49		2 23.4
884	9.734 7518		9.810 5907		0.189 4093	9.924 1611		116	3 35.1
885	9.734 7635	117	9.810 6073	166	0.189 3927	9.924 1562	49	115	4 46.8
886	9.734 7753	118	9.810 6239	166	0.189 3761	9.924 1513	49	114	5 58.5
		117		166			49		6 70.2
887	9.734 7870		9.810 6405		0.189 3595	9.924 1464		113	7 81.9
888	9.734 7987	117	9.810 6572	167	0.189 3428	9.924 1415	49	112	8 93.6
889	9.734 8104	117	9.810 6738	166	0.189 3262	9.924 1366	49	111	9 105.3
		117		166			49		
.890	9.734 8221		9.810 6904		0.189 3096	9.924 1317		**.110**	
		118		166			49		
891	9.734 8339		9.810 7070		0.189 2930	9.924 1268		109	49
892	9.734 8456	117	9.810 7237	167	0.189 2763	9.924 1219	49	108	
893	9.734 8573	117	9.810 7403	166	0.189 2597	9.924 1170	49	107	1 4.9
		117		166			49		2 9.8
894	9.734 8690		9.810 7569		0.189 2431	9.924 1121		106	3 14.7
895	9.734 8807	117	9.810 7735	166	0.189 2265	9.924 1072	49	105	4 19.6
896	9.734 8925	118	9.810 7901	166	0.189 2099	9.924 1023	49	104	5 24.5
		117		167			49		6 29.4
897	9.734 9042		9.810 8068		0.189 1932	9.924 0974		103	7 34.3
898	9.734 9159	117	9.810 8234	166	0.189 1766	9.924 0925	49	102	8 39.2
899	9.734 9276	117	9.810 8400	166	0.189 1600	9.924 0876	49	101	9 44.1
		117		166			49		
.900	9.734 9393		9.810 8566		0.189 1434	9.924 0827		**.100**	
	cos	d	cotg	d	tang	sin	d	**57°**	P.P.

57°.150 — 57°.100

32°.900 — 32°.950

32°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.734 9393		9.810 8566		0.189 1434	9.924 0827		.100	
		117		166			49		
901	9.734 9510		9.810 8732		0.189 1268	9.924 0778		099	
902	9.734 9628	118	9.810 8899	167	0.189 1101	9.924 0729	49	098	167
903	9.734 9745	117	9.810 9065	166	0.189 0935	9.924 0680	49	097	1 16.7
		117		166			49		2 33.4
904	9.734 9862		9.810 9231		0.189 0769	9.924 0631		096	3 50.1
905	9.734 9979	117	9.810 9397	166	0.189 0603	9.924 0582	49	095	4 66.8
906	9.735 0096	117	9.810 9563	166	0.189 0437	9.924 0533	49	094	5 83.5
		117		167			49		6 100.2
907	9.735 0213		9.810 9730		0.189 0270	9.924 0484		093	7 116.9
908	9.735 0331	118	9.810 9896	166	0.189 0104	9.924 0435	49	092	8 133.6
909	9.735 0448	117	9.811 0062	166	0.188 9938	9.924 0386	49	091	9 150.3
		117		166			49		
.910	9.735 0565		9.811 0228		0.188 9772	9.924 0337		.090	
		117		166			49		
911	9.735 0682		9.811 0394		0.188 9606	9.924 0288		089	166
912	9.735 0799	117	9.811 0561	167	0.188 9439	9.924 0238	50	088	1 16.6
913	9.735 0916	117	9.811 0727	166	0.188 9273	9.924 0189	49	087	2 33.2
		117		166			49		3 49.8
914	9.735 1033		9.811 0893		0.188 9107	9.924 0140		086	4 66.4
915	9.735 1150	117	9.811 1059	166	0.188 8941	9.924 0091	49	085	5 83.0
916	9.735 1267	117	9.811 1225	166	0.188 8775	9.924 0042	49	084	6 99.6
		118		166			49		7 116.2
917	9.735 1385		9.811 1391		0.188 8609	9.923 9993		083	8 132.8
918	9.735 1502	117	9.811 1558	167	0.188 8442	9.923 9944	49	082	9 149.4
919	9.735 1619	117	9.811 1724	166	0.188 8276	9.923 9895	49	081	
		117		166			49		
.920	9.735 1736		9.811 1890		0.188 8110	9.923 9846		.080	
		117		166			49		
921	9.735 1853		9.811 2056		0.188 7944	9.923 9797		079	118
922	9.735 1970	117	9.811 2222	166	0.188 7778	9.923 9748	49	078	1 11.8
923	9.735 2087	117	9.811 2388	166	0.188 7612	9.923 9699	49	077	2 23.6
		117		166			49		3 35.4
924	9.735 2204		9.811 2554		0.188 7446	9.923 9650		076	4 47.2
925	9.735 2321	117	9.811 2721	167	0.188 7279	9.923 9601	49	075	5 59.0
926	9.735 2438	117	9.811 2887	166	0.188 7113	9.923 9551	50	074	6 70.8
		117		166			49		7 82.6
927	9.735 2555		9.811 3053		0.188 6947	9.923 9502		073	8 94.4
928	9.735 2672	117	9.811 3219	166	0.188 6781	9.923 9453	49	072	9 106.2
929	9.735 2789	117	9.811 3385	166	0.188 6615	9.923 9404	49	071	
		117		166			49		
.930	9.735 2906		9.811 3551		0.188 6449	9.923 9355		.070	
		117		166			49		
931	9.735 3023		9.811 3717		0.188 6283	9.923 9306		069	117
932	9.735 3140	117	9.811 3883	166	0.188 6117	9.923 9257	49	068	1 11.7
933	9.735 3257	117	9.811 4050	167	0.188 5950	9.923 9208	49	067	2 23.4
		117		166			49		3 35.1
934	9.735 3374		9.811 4216		0.188 5784	9.923 9159		066	4 46.8
935	9.735 3491	117	9.811 4382	166	0.188 5618	9.923 9110	49	065	5 58.5
936	9.735 3608	117	9.811 4548	166	0.188 5452	9.923 9061	49	064	6 70.2
		117		166			50		7 81.9
937	9.735 3725		9.811 4714		0.188 5286	9.923 9011		063	8 93.6
938	9.735 3842	117	9.811 4880	166	0.188 5120	9.923 8962	49	062	9 105.3
939	9.735 3959	117	9.811 5046	166	0.188 4954	9.923 8913	49	061	
		117		166			49		
.940	9.735 4076		9.811 5212		0.188 4788	9.923 8864		.060	
		117		166			49		
941	9.735 4193		9.811 5378		0.188 4622	9.923 8815		059	50 49
942	9.735 4310	117	9.811 5545	167	0.188 4455	9.923 8766	49	058	1 5.0 4.9
943	9.735 4427	117	9.811 5711	166	0.188 4289	9.923 8717	49	057	2 10.0 9.8
		117		166			49		3 15.0 14.7
944	9.735 4544		9.811 5877		0.188 4123	9.923 8668		056	4 20.0 19.6
945	9.735 4661	117	9.811 6043	166	0.188 3957	9.923 8619	49	055	5 25.0 24.5
946	9.735 4778	117	9.811 6209	166	0.188 3791	9.923 8569	50	054	6 30.0 29.4
		117		166			49		7 35.0 34.3
947	9.735 4895		9.811 6375		0.188 3625	9.923 8520		053	8 40.0 39.2
948	9.735 5012	117	9.811 6541	166	0.188 3459	9.923 8471	49	052	9 45.0 44.1
949	9.735 5129	117	9.811 6707	166	0.188 3293	9.923 8422	49	051	
		117		166			49		
.950	9.735 5246		9.811 6873		0.188 3127	9.923 8373		.050	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

57°.100 — 57°.050

32°.950 — 33°.000

32°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.735 5246		9.811 6873		0.188 3127	9.923 8373		.050	
		117		166			49		
951	9.735 5363		9.811 7039		0.188 2961	9.923 8324		049	
952	9.735 5480	117	9.811 7205	166	0.188 2795	9.923 8275	49	048	
953	9.735 5597	117	9.811 7371	166	0.188 2629	9.923 8225	50	047	
		117		166			49		
954	9.735 5714		9.811 7537		0.188 2463	9.923 8176		046	
955	9.735 5831	117	9.811 7704	167	0.188 2296	9.923 8127	49	045	
956	9.735 5948	117	9.811 7870	166	0.188 2130	9.923 8078	49	044	
		117		166			49		
957	9.735 6065		9.811 8036		0.188 1964	9.923 8029		043	
958	9.735 6181	116	9.811 8202	166	0.188 1798	9.923 7980	49	042	
959	9.735 6298	117	9.811 8368	166	0.188 1632	9.923 7931	49	041	
		117		166			50		
.960	9.735 6415		9.811 8534		0.188 1466	9.923 7881		.040	
		117		166			49		
961	9.735 6532		9.811 8700		0.188 1300	9.923 7832		039	
962	9.735 6649	117	9.811 8866	166	0.188 1134	9.923 7783	49	038	
963	9.735 6766	117	9.811 9032	166	0.188 0968	9.923 7734	49	037	
		117		166			49		
964	9.735 6883		9.811 9198		0.188 0802	9.923 7685		036	
965	9.735 7000	117	9.811 9364	166	0.188 0636	9.923 7636	49	035	
966	9.735 7117	117	9.811 9530	166	0.188 0470	9.923 7587	49	034	
		116		166			50		
967	9.735 7233		9.811 9696		0.188 0304	9.923 7537		033	
968	9.735 7350	117	9.811 9862	166	0.188 0138	9.923 7488	49	032	
969	9.735 7467	117	9.812 0028	166	0.187 9972	9.923 7439	49	031	
		117		166			49		
.970	9.735 7584		9.812 0194		0.187 9806	9.923 7390		.030	
		117		166			49		
971	9.735 7701		9.812 0360		0.187 9640	9.923 7341		029	
972	9.735 7818	117	9.812 0526	166	0.187 9474	9.923 7292	49	028	
973	9.735 7935	117	9.812 0692	166	0.187 9308	9.923 7242	50	027	
		116		166			49		
974	9.735 8051		9.812 0858		0.187 9142	9.923 7193		026	
975	9.735 8168	117	9.812 1024	166	0.187 8976	9.923 7144	49	025	
976	9.735 8285	117	9.812 1190	166	0.187 8810	9.923 7095	49	024	
		117		166			49		
977	9.735 8402		9.812 1356		0.187 8644	9.923 7046		023	
978	9.735 8519	117	9.812 1522	166	0.187 8478	9.923 6997	49	022	
979	9.735 8636	117	9.812 1688	166	0.187 8312	9.923 6947	50	021	
		116		166			49		
.980	9.735 8752		9.812 1854		0.187 8146	9.923 6898		.020	
		117		166			49		
981	9.735 8869		9.812 2020		0.187 7980	9.923 6849		019	
982	9.735 8986	117	9.812 2186	166	0.187 7814	9.923 6800	49	018	
983	9.735 9103	117	9.812 2352	166	0.187 7648	9.923 6751	49	017	
		117		166			50		
984	9.735 9220		9.812 2518		0.187 7482	9.923 6701		016	
985	9.735 9336	116	9.812 2684	166	0.187 7316	9.923 6652	49	015	
986	9.735 9453	117	9.812 2850	166	0.187 7150	9.923 6603	49	014	
		117		166			49		
987	9.735 9570		9.812 3016		0.187 6984	9.923 6554		013	
988	9.735 9687	117	9.812 3182	166	0.187 6818	9.923 6505	49	012	
989	9.735 9803	116	9.812 3348	166	0.187 6652	9.923 6455	50	011	
		117		166			49		
.990	9.735 9920		9.812 3514		0.187 6486	9.923 6406		.010	
		117		166			49		
991	9.736 0037		9.812 3680		0.187 6320	9.923 6357		009	
992	9.736 0154	117	9.812 3846	166	0.187 6154	9.923 6308	49	008	
993	9.736 0270	116	9.812 4012	166	0.187 5988	9.923 6259	49	007	
		117		166			50		
994	9.736 0387		9.812 4178		0.187 5822	9.923 6209		006	
995	9.736 0504	117	9.812 4344	166	0.187 5656	9.923 6160	49	005	
996	9.736 0621	117	9.812 4510	166	0.187 5490	9.923 6111	49	004	
		116		166			49		
997	9.736 0737		9.812 4676		0.187 5324	9.923 6062		003	
998	9.736 0854	117	9.812 4842	166	0.187 5158	9.923 6012	50	002	
999	9.736 0971	117	9.812 5008	166	0.187 4992	9.923 5963	49	001	
		117		166			49		
*000	9.736 1088		9.812 5174		0.187 4826	9.923 5914		.000	
	cos	d	cotg	d	tang	sin	d	57°	P.P.

	167
1	16.7
2	33.4
3	50.1
4	66.8
5	83.5
6	100.2
7	116.9
8	133.6
9	150.3

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	117
1	11.7
2	23.4
3	35.1
4	46.8
5	58.5
6	70.2
7	81.9
8	93.6
9	105.3

	116
1	11.6
2	23.2
3	34.8
4	46.4
5	58.0
6	69.6
7	81.2
8	92.8
9	104.4

	50	49
1	5.0	4.9
2	10.0	9.8
3	15.0	14.7
4	20.0	19.6
5	25.0	24.5
6	30.0	29.4
7	35.0	34.3
8	40.0	39.2
9	45.0	44.1

57°.050 — 57°.000

33°.000 — 33°.050

33°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.736 1088		9.812 5174		0.187 4826	9.923 5914		*000	
		116		166			49		
001	9.736 1204		9.812 5340		0.187 4660	9.923 5865		999	
002	9.736 1321	117	9.812 5506	166	0.187 4494	9.923 5816	49	998	
003	9.736 1438	117	9.812 5671	165	0.187 4329	9.923 5766	50	997	
		116		166			49		
004	9.736 1554		9.812 5837		0.187 4163	9.923 5717		996	
005	9.736 1671	117	9.812 6003	166	0.187 3997	9.923 5668	49	995	
006	9.736 1788	117	9.812 6169	166	0.187 3831	9.923 5619	49	994	
		117		166			50		
007	9.736 1905		9.812 6335		0.187 3665	9.923 5569		993	
008	9.736 2021	116	9.812 6501	166	0.187 3499	9.923 5520	49	992	
009	9.736 2138	117	9.812 6667	166	0.187 3333	9.923 5471	49	991	
		117		166			49		
.010	9.736 2255		9.812 6833		0.187 3167	9.923 5422		.990	
		116		166			50		
011	9.736 2371		9.812 6999		0.187 3001	9.923 5372		989	
012	9.736 2488	117	9.812 7165	166	0.187 2835	9.923 5323	49	988	
013	9.736 2605	117	9.812 7331	166	0.187 2669	9.923 5274	49	987	
		116		166			49		
014	9.736 2721		9.812 7497		0.187 2503	9.923 5225		986	
015	9.736 2838	117	9.812 7662	165	0.187 2338	9.923 5175	50	985	
016	9.736 2955	117	9.812 7828	166	0.187 2172	9.923 5126	49	984	
		116		166			49		
017	9.736 3071		9.812 7994		0.187 2006	9.923 5077		983	
018	9.736 3188	117	9.812 8160	166	0.187 1840	9.923 5028	49	982	
019	9.736 3305	117	9.812 8326	166	0.187 1674	9.923 4978	50	981	
		116		166			49		
.020	9.736 3421		9.812 8492		0.187 1508	9.923 4929		.980	
		117		166			49		
021	9.736 3538		9.812 8658		0.187 1342	9.923 4880		979	
022	9.736 3654	116	9.812 8824	166	0.187 1176	9.923 4831	49	978	
023	9.736 3771	117	9.812 8990	166	0.187 1010	9.923 4781	50	977	
		117		166			49		
024	9.736 3888		9.812 9156		0.187 0844	9.923 4732		976	
025	9.736 4004	116	9.812 9321	165	0.187 0679	9.923 4683	49	975	
026	9.736 4121	117	9.812 9487	166	0.187 0513	9.923 4634	49	974	
		116		166			50		
027	9.736 4237		9.812 9653		0.187 0347	9.923 4584		973	
028	9.736 4354	117	9.812 9819	166	0.187 0181	9.923 4535	49	972	
029	9.736 4471	117	9.812 9985	166	0.187 0015	9.923 4486	49	971	
		116		166			50		
.030	9.736 4587		9.813 0151		0.186 9849	9.923 4436		.970	
		117		166			49		
031	9.736 4704		9.813 0317		0.186 9683	9.923 4387		969	
032	9.736 4820	116	9.813 0483	166	0.186 9517	9.923 4338	49	968	
033	9.736 4937	117	9.813 0648	165	0.186 9352	9.923 4289	49	967	
		117		166			50		
034	9.736 5054		9.813 0814		0.186 9186	9.923 4239		966	
035	9.736 5170	116	9.813 0980	166	0.186 9020	9.923 4190	49	965	
036	9.736 5287	117	9.813 1146	166	0.186 8854	9.923 4141	49	964	
		116		166			50		
037	9.736 5403		9.813 1312		0.186 8688	9.923 4091		963	
038	9.736 5520	117	9.813 1478	166	0.186 8522	9.923 4042	49	962	
039	9.736 5636	116	9.813 1643	165	0.186 8357	9.923 3993	49	961	
		117		166			49		
.040	9.736 5753		9.813 1809		0.186 8191	9.923 3944		.960	
		116		166			50		
041	9.736 5869		9.813 1975		0.186 8025	9.923 3894		959	
042	9.736 5986	117	9.813 2141	166	0.186 7859	9.923 3845	49	958	
043	9.736 6102	116	9.813 2307	166	0.186 7693	9.923 3796	49	957	
		117		166			50		
044	9.736 6219		9.813 2473		0.186 7527	9.923 3746		956	
045	9.736 6336	117	9.813 2638	165	0.186 7362	9.923 3697	49	955	
046	9.736 6452	116	9.813 2804	166	0.186 7196	9.923 3648	49	954	
		117		166			50		
047	9.736 6569		9.813 2970		0.186 7030	9.923 3598		953	
048	9.736 6685	116	9.813 3136	166	0.186 6864	9.923 3549	49	952	
049	9.736 6802	117	9.813 3302	166	0.186 6698	9.923 3500	49	951	
		116		166			50		
.050	9.736 6918		9.813 3468		0.186 6532	9.923 3450		.950	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	117
1	11.7
2	23.4
3	35.1
4	46.8
5	58.5
6	70.2
7	81.9
8	93.6
9	105.3

	116
1	11.6
2	23.2
3	34.8
4	46.4
5	58.0
6	69.6
7	81.2
8	92.8
9	104.4

	50	49
1	5.0	4.9
2	10.0	9.8
3	15.0	14.7
4	20.0	19.6
5	25.0	24.5
6	30.0	29.4
7	35.0	34.3
8	40.0	39.2
9	45.0	44.1

57°.000 — 56°.950

33°.050 — 33°.100

33°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.736 6918		9.813 3468		0.186 6532	9.923 3450		.950	
		117		165			49		
051	9.736 7035		9.813 3633		0.186 6367	9.923 3401		949	
052	9.736 7151	116	9.813 3799	166	0.186 6201	9.923 3352	49	948	166
053	9.736 7268	117	9.813 3965	166	0.186 6035	9.923 3302	50	947	1 16.6
		116		166			49		2 33.2
054	9.736 7384		9.813 4131		0.186 5869	9.923 3253		946	3 49.8
055	9.736 7500	116	9.813 4297	166	0.186 5703	9.923 3204	49	945	4 66.4
056	9.736 7617	117	9.813 4462	165	0.186 5538	9.923 3155	49	944	5 83.0
		116		166			50		6 99.6
057	9.736 7733		9.813 4628		0.186 5372	9.923 3105		943	7 116.2
058	9.736 7850	117	9.813 4794	166	0.186 5206	9.923 3056	49	942	8 132.8
059	9.736 7966	116	9.813 4960	166	0.186 5040	9.923 3007	49	941	9 149.4
		117		166			50		
.060	9.736 8083		9.813 5126		0.186 4874	9.923 2957		.940	
		116		165			49		
061	9.736 8199		9.813 5291		0.186 4709	9.923 2908		939	
062	9.736 8316	117	9.813 5457	166	0.186 4543	9.923 2859	49	938	165
063	9.736 8432	116	9.813 5623	166	0.186 4377	9.923 2809	50	937	1 16.5
		117		166			49		2 33.0
064	9.736 8549		9.813 5789		0.186 4211	9.923 2760		936	3 49.5
065	9.736 8665	116	9.813 5955	166	0.186 4045	9.923 2710	50	935	4 66.0
066	9.736 8781	116	9.813 6120	165	0.186 3880	9.923 2661	49	934	5 82.5
		117		166			49		6 99.0
067	9.736 8898		9.813 6286		0.186 3714	9.923 2612		933	7 115.5
068	9.736 9014	116	9.813 6452	166	0.186 3548	9.923 2562	50	932	8 132.0
069	9.736 9131	117	9.813 6618	166	0.186 3382	9.923 2513	49	931	9 148.5
		116		165			49		
.070	9.736 9247		9.813 6783		0.186 3217	9.923 2464		.930	
		117		166			50		
071	9.736 9364		9.813 6949		0.186 3051	9.923 2414		929	
072	9.736 9480	116	9.813 7115	166	0.186 2885	9.923 2365	49	928	117
073	9.736 9596	116	9.813 7281	166	0.186 2719	9.923 2316	49	927	1 11.7
		117		165			50		2 23.4
074	9.736 9713		9.813 7446		0.186 2554	9.923 2266		926	3 35.1
075	9.736 9829	116	9.813 7612	166	0.186 2388	9.923 2217	49	925	4 46.8
076	9.736 9945	116	9.813 7778	166	0.186 2222	9.923 2168	49	924	5 58.5
		117		166			50		6 70.2
077	9.737 0062		9.813 7944		0.186 2056	9.923 2118		923	7 81.9
078	9.737 0178	116	9.813 8109	165	0.186 1891	9.923 2069	49	922	8 93.6
079	9.737 0295	117	9.813 8275	166	0.186 1725	9.923 2019	50	921	9 105.3
		116		166			49		
.080	9.737 0411		9.813 8441		0.186 1559	9.923 1970		.920	
		116		166			49		
081	9.737 0527		9.813 8607		0.186 1393	9.923 1921		919	
082	9.737 0644	117	9.813 8772	165	0.186 1228	9.923 1871	50	918	116
083	9.737 0760	116	9.813 8938	166	0.186 1062	9.923 1822	49	917	1 11.6
		116		166			49		2 23.2
084	9.737 0876		9.813 9104		0.186 0896	9.923 1773		916	3 34.8
085	9.737 0993	117	9.813 9270	166	0.186 0730	9.923 1723	50	915	4 46.4
086	9.737 1109	116	9.813 9435	165	0.186 0565	9.923 1674	49	914	5 58.0
		116		166			50		6 69.6
087	9.737 1225		9.813 9601		0.186 0399	9.923 1624		913	7 81.2
088	9.737 1342	117	9.813 9767	166	0.186 0233	9.923 1575	49	912	8 92.8
089	9.737 1458	116	9.813 9932	165	0.186 0068	9.923 1526	49	911	9 104.4
		116		166			50		
.090	9.737 1574		9.814 0098		0.185 9902	9.923 1476		.910	
		117		166			49		
091	9.737 1691		9.814 0264		0.185 9736	9.923 1427		909	50 49
092	9.737 1807	116	9.814 0430	166	0.185 9570	9.923 1377	50	908	1 5.0 4.9
093	9.737 1923	116	9.814 0595	165	0.185 9405	9.923 1328	49	907	2 10.0 9.8
		117		166			49		3 15.0 14.7
094	9.737 2040		9.814 0761		0.185 9239	9.923 1279		906	4 20.0 19.6
095	9.737 2156	116	9.814 0927	166	0.185 9073	9.923 1229	50	905	5 25.0 24.5
096	9.737 2272	116	9.814 1092	165	0.185 8908	9.923 1180	49	904	6 30.0 29.4
		117		166			50		7 35.0 34.3
097	9.737 2389		9.814 1258		0.185 8742	9.923 1130		903	8 40.0 39.2
098	9.737 2505	116	9.814 1424	166	0.185 8576	9.923 1081	49	902	9 45.0 44.1
099	9.737 2621	116	9.814 1589	165	0.185 8411	9.923 1032	49	901	
		116		166			50		
.100	9.737 2737		9.814 1755		0.185 8245	9.923 0982		.900	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

56°.950 — 56°.900

33°.100 — 33°.150

33°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.737 2737		9.814 1755		0.185 8245	9.923 0982		.900	
		117		166			49		
101	9.737 2854		9.814 1921		0.185 8079	9.923 0933		899	
102	9.737 2970	116	9.814 2087	166	0.185 7913	9.923 0883	50	898	
103	9.737 3086	116	9.814 2252	165	0.185 7748	9.923 0834	49	897	
		116		166			49		
104	9.737 3202		9.814 2418		0.185 7582	9.923 0785		896	
105	9.737 3319	117	9.814 2584	166	0.185 7416	9.923 0735	50	895	
106	9.737 3435	116	9.814 2749	165	0.185 7251	9.923 0686	49	894	
		116		166			50		
107	9.737 3551		9.814 2915		0.185 7085	9.923 0636		893	
108	9.737 3667	116	9.814 3081	166	0.185 6919	9.923 0587	49	892	
109	9.737 3784	117	9.814 3246	165	0.185 6754	9.923 0537	50	891	
		116		166			49		
.110	9.737 3900		9.814 3412		0.185 6588	9.923 0488		.890	
		116		166			49		
111	9.737 4016		9.814 3578		0.185 6422	9.923 0439		889	
112	9.737 4132	116	9.814 3743	165	0.185 6257	9.923 0389	50	888	
113	9.737 4249	117	9.814 3909	166	0.185 6091	9.923 0340	49	887	
		116		166			50		
114	9.737 4365		9.814 4075		0.185 5925	9.923 0290		886	
115	9.737 4481	116	9.814 4240	165	0.185 5760	9.923 0241	49	885	
116	9.737 4597	116	9.814 4406	166	0.185 5594	9.923 0191	50	884	
		116		165			49		
117	9.737 4713		9.814 4571		0.185 5429	9.923 0142		883	
118	9.737 4830	117	9.814 4737	166	0.185 5263	9.923 0092	50	882	
119	9.737 4946	116	9.814 4903	166	0.185 5097	9.923 0043	49	881	
		116		165			49		
.120	9.737 5062		9.814 5068		0.185 4932	9.922 9994		.880	
		116		166			50		
121	9.737 5178		9.814 5234		0.185 4766	9.922 9944		879	
122	9.737 5294	116	9.814 5400	166	0.185 4600	9.922 9895	49	878	
123	9.737 5411	117	9.814 5565	165	0.185 4435	9.922 9845	50	877	
		116		166			49		
124	9.737 5527		9.814 5731		0.185 4269	9.922 9796		876	
125	9.737 5643	116	9.814 5897	166	0.185 4103	9.922 9746	50	875	
126	9.737 5759	116	9.814 6062	165	0.185 3938	9.922 9697	49	874	
		116		166			50		
127	9.737 5875		9.814 6228		0.185 3772	9.922 9647		873	
128	9.737 5991	116	9.814 6393	165	0.185 3607	9.922 9598	49	872	
129	9.737 6107	116	9.814 6559	166	0.185 3441	9.922 9548	50	871	
		117		166			49		
.130	9.737 6224		9.814 6725		0.185 3275	9.922 9499		.870	
		116		165			50		
131	9.737 6340		9.814 6890		0.185 3110	9.922 9449		869	
132	9.737 6456	116	9.814 7056	166	0.185 2944	9.922 9400	49	868	
133	9.737 6572	116	9.814 7221	165	0.185 2779	9.922 9351	49	867	
		116		166			50		
134	9.737 6688		9.814 7387		0.185 2613	9.922 9301		866	
135	9.737 6804	116	9.814 7553	166	0.185 2447	9.922 9252	49	865	
136	9.737 6920	116	9.814 7718	165	0.185 2282	9.922 9202	50	864	
		116		166			49		
137	9.737 7036		9.814 7884		0.185 2116	9.922 9153		863	
138	9.737 7153	117	9.814 8049	165	0.185 1951	9.922 9103	50	862	
139	9.737 7269	116	9.814 8215	166	0.185 1785	9.922 9054	49	861	
		116		166			50		
.140	9.737 7385		9.814 8381		0.185 1619	9.922 9004		.860	
		116		165			49		
141	9.737 7501		9.814 8546		0.185 1454	9.922 8955		859	
142	9.737 7617	116	9.814 8712	166	0.185 1288	9.922 8905	50	858	
143	9.737 7733	116	9.814 8877	165	0.185 1123	9.922 8856	49	857	
		116		166			50		
144	9.737 7849		9.814 9043		0.185 0957	9.922 8806		856	
145	9.737 7965	116	9.814 9209	166	0.185 0791	9.922 8757	49	855	
146	9.737 8081	116	9.814 9374	165	0.185 0626	9.922 8707	50	854	
		116		166			49		
147	9.737 8197		9.814 9540		0.185 0460	9.922 8658		853	
148	9.737 8313	116	9.814 9705	165	0.185 0295	9.922 8608	50	852	
149	9.737 8430	117	9.814 9871	166	0.185 0129	9.922 8559	49	851	
		116		165			50		
.150	9.737 8546		9.815 0036		0.184 9964	9.922 8509		.850	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	117
1	11.7
2	23.4
3	35.1
4	46.8
5	58.5
6	70.2
7	81.9
8	93.6
9	105.3

	116
1	11.6
2	23.2
3	34.8
4	46.4
5	58.0
6	69.6
7	81.2
8	92.8
9	104.4

	50	49
1	5.0	4.9
2	10.0	9.8
3	15.0	14.7
4	20.0	19.6
5	25.0	24.5
6	30.0	29.4
7	35.0	34.3
8	40.0	39.2
9	45.0	44.1

56°.900 — 56°.850

33°.150 — 33°.200

33°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.737 8546		9.815 0036		0.184 9964	9.922 8509		.850	
		116		166			49		
151	9.737 8662		9.815 0202		0.184 9798	9.922 8460		849	
152	9.737 8778	116	9.815 0367	165	0.184 9633	9.922 8410	50	848	166
153	9.737 8894	116	9.815 0533	166	0.184 9467	9.922 8361	49	847	1 16.6
		116		166			50		2 33.2
154	9.737 9010		9.815 0699		0.184 9301	9.922 8311		846	3 49.8
155	9.737 9126	116	9.815 0864	165	0.184 9136	9.922 8262	49	845	4 66.4
156	9.737 9242	116	9.815 1030	166	0.184 8970	9.922 8212	50	844	5 83.0
		116		165			49		6 99.6
157	9.737 9358		9.815 1195		0.184 8805	9.922 8163		843	7 116.2
158	9.737 9474	116	9.815 1361	166	0.184 8639	9.922 8113	50	842	8 132.8
159	9.737 9590	116	9.815 1526	165	0.184 8474	9.922 8064	49	841	9 149.4
		116		166			50		
.160	9.737 9706		9.815 1692		0.184 8308	9.922 8014		.840	
		116		165			49		
161	9.737 9822		9.815 1857		0.184 8143	9.922 7965		839	
162	9.737 9938	116	9.815 2023	166	0.184 7977	9.922 7915	50	838	165
163	9.738 0054	116	9.815 2188	165	0.184 7812	9.922 7865	50	837	1 16.5
		116		166			49		2 33.0
164	9.738 0170		9.815 2354		0.184 7646	9.922 7816		836	3 49.5
165	9.738 0286	116	9.815 2519	165	0.184 7481	9.922 7766	50	835	4 66.0
166	9.738 0402	116	9.815 2685	166	0.184 7315	9.922 7717	49	834	5 82.5
		116		166			50		6 99.0
167	9.738 0518		9.815 2851		0.184 7149	9.922 7667		833	7 115.5
168	9.738 0634	116	9.815 3016	165	0.184 6984	9.922 7618	49	832	8 132.0
169	9.738 0750	116	9.815 3182	166	0.184 6818	9.922 7568	50	831	9 148.5
		116		165			49		
.170	9.738 0866		9.815 3347		0.184 6653	9.922 7519		.830	
		116		166			50		
171	9.738 0982		9.815 3513		0.184 6487	9.922 7469		829	
172	9.738 1098	116	9.815 3678	165	0.184 6322	9.922 7420	49	828	116
173	9.738 1214	116	9.815 3844	166	0.184 6156	9.922 7370	50	827	1 11.6
		116		165			50		2 23.2
174	9.738 1330		9.815 4009		0.184 5991	9.922 7320		826	3 34.8
175	9.738 1446	116	9.815 4175	166	0.184 5825	9.922 7271	49	825	4 46.4
176	9.738 1561	115	9.815 4340	165	0.184 5660	9.922 7221	50	824	5 58.0
		116		166			49		6 69.6
177	9.738 1677		9.815 4506		0.184 5494	9.922 7172		823	7 81.2
178	9.738 1793	116	9.815 4671	165	0.184 5329	9.922 7122	50	822	8 92.8
179	9.738 1909	116	9.815 4837	166	0.184 5163	9.922 7073	49	821	9 104.4
		116		165			50		
.180	9.738 2025		9.815 5002		0.184 4998	9.922 7023		.820	
		116		166			49		
181	9.738 2141		9.815 5168		0.184 4832	9.922 6974		819	
182	9.738 2257	116	9.815 5333	165	0.184 4667	9.922 6924	50	818	115
183	9.738 2373	116	9.815 5498	165	0.184 4502	9.922 6874	50	817	1 11.5
		116		166			49		2 23.0
184	9.738 2489		9.815 5664		0.184 4336	9.922 6825		816	3 34.5
185	9.738 2605	116	9.815 5829	165	0.184 4171	9.922 6775	50	815	4 46.0
186	9.738 2721	116	9.815 5995	166	0.184 4005	9.922 6726	49	814	5 57.5
		116		165			50		6 69.0
187	9.738 2837		9.815 6160		0.184 3840	9.922 6676		813	7 80.5
188	9.738 2952	115	9.815 6326	166	0.184 3674	9.922 6627	49	812	8 92.0
189	9.738 3068	116	9.815 6491	165	0.184 3509	9.922 6577	50	811	9 103.5
		116		166			50		
.190	9.738 3184		9.815 6657		0.184 3343	9.922 6527		.810	
		116		165			49		
191	9.738 3300		9.815 6822		0.184 3178	9.922 6478		809	50 49
192	9.738 3416	116	9.815 6988	166	0.184 3012	9.922 6428	50	808	1 5.0 4.9
193	9.738 3532	116	9.815 7153	165	0.184 2847	9.922 6379	49	807	2 10.0 9.8
		116		166			50		3 15.0 14.7
194	9.738 3648		9.815 7319		0.184 2681	9.922 6329		806	4 20.0 19.6
195	9.738 3763	115	9.815 7484	165	0.184 2516	9.922 6279	50	805	5 25.0 24.5
196	9.738 3879	116	9.815 7649	165	0.184 2351	9.922 6230	49	804	6 30.0 29.4
		116		166			50		7 35.0 34.3
197	9.738 3995		9.815 7815		0.184 2185	9.922 6180		803	8 40.0 39.2
198	9.738 4111	116	9.815 7980	165	0.184 2020	9.922 6131	49	802	9 45.0 44.1
199	9.738 4227	116	9.815 8146	166	0.184 1854	9.922 6081	50	801	
		116		165			49		
.200	9.738 4343		9.815 8311		0.184 1689	9.922 6032		.800	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

56°.850 — 56°.800

$33^\circ.200$ — $33^\circ.250$

33°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.738 4343		9.815 8311		0.184 1689	9.922 6032		**.800**	
		116		166			50		
201	9.738 4459		9.815 8477		0.184 1523	9.922 5982		799	
202	9.738 4574	115	9.815 8642	165	0.184 1358	9.922 5932	50	798	
203	9.738 4690	116	9.815 8808	166	0.184 1192	9.922 5883	49	797	
		116		165			50		
204	9.738 4806		9.815 8973		0.184 1027	9.922 5833		796	
205	9.738 4922	116	9.815 9138	165	0.184 0862	9.922 5783	50	795	
206	9.738 5038	116	9.815 9304	166	0.184 0696	9.922 5734	49	794	
		115		165			50		
207	9.738 5153		9.815 9469		0.184 0531	9.922 5684		793	
208	9.738 5269	116	9.815 9635	166	0.184 0365	9.922 5635	49	792	
209	9.738 5385	116	9.815 9800	165	0.184 0200	9.922 5585	50	791	
		116		165			50		
.210	9.738 5501		9.815 9965		0.184 0035	9.922 5535		**.790**	
		116		166			49		
211	9.738 5617		9.816 0131		0.183 9869	9.922 5486		789	
212	9.738 5732	115	9.816 0296	165	0.183 9704	9.922 5436	50	788	
213	9.738 5848	116	9.816 0462	166	0.183 9538	9.922 5387	49	787	
		116		165			50		
214	9.738 5964		9.816 0627		0.183 9373	9.922 5337		786	
215	9.738 6080	116	9.816 0792	165	0.183 9208	9.922 5287	50	785	
216	9.738 6195	115	9.816 0958	166	0.183 9042	9.922 5238	49	784	
		116		165			50		
217	9.738 6311		9.816 1123		0.183 8877	9.922 5188		783	
218	9.738 6427	116	9.816 1289	166	0.183 8711	9.922 5138	50	782	
219	9.738 6543	116	9.816 1454	165	0.183 8546	9.922 5089	49	781	
		115		165			50		
.220	9.738 6658		9.816 1619		0.183 8381	9.922 5039		**.780**	
		116		166			50		
221	9.738 6774		9.816 1785		0.183 8215	9.922 4989		779	
222	9.738 6890	116	9.816 1950	165	0.183 8050	9.922 4940	49	778	
223	9.738 7006	116	9.816 2116	166	0.183 7884	9.922 4890	50	777	
		115		165			49		
224	9.738 7121		9.816 2281		0.183 7719	9.922 4841		776	
225	9.738 7237	116	9.816 2446	165	0.183 7554	9.922 4791	50	775	
226	9.738 7353	116	9.816 2612	166	0.183 7388	9.922 4741	50	774	
		116		165			49		
227	9.738 7469		9.816 2777		0.183 7223	9.922 4692		773	
228	9.738 7584	115	9.816 2942	165	0.183 7058	9.922 4642	50	772	
229	9.738 7700	116	9.816 3108	166	0.183 6892	9.922 4592	50	771	
		116		165			49		
.230	9.738 7816		9.816 3273		0.183 6727	9.922 4543		**.770**	
		115		165			50		
231	9.738 7931		9.816 3438		0.183 6562	9.922 4493		769	
232	9.738 8047	116	9.816 3604	166	0.183 6396	9.922 4443	50	768	
233	9.738 8163	116	9.816 3769	165	0.183 6231	9.922 4394	49	767	
		115		166			50		
234	9.738 8278		9.816 3935		0.183 6065	9.922 4344		766	
235	9.738 8394	116	9.816 4100	165	0.183 5900	9.922 4294	50	765	
236	9.738 8510	116	9.816 4265	165	0.183 5735	9.922 4245	49	764	
		116		166			50		
237	9.738 8626		9.816 4431		0.183 5569	9.922 4195		763	
238	9.738 8741	115	9.816 4596	165	0.183 5404	9.922 4145	50	762	
239	9.738 8857	116	9.816 4761	165	0.183 5239	9.922 4096	49	761	
		115		166			50		
.240	9.738 8972		9.816 4927		0.183 5073	9.922 4046		**.760**	
		116		165			50		
241	9.738 9088		9.816 5092		0.183 4908	9.922 3996		759	
242	9.738 9204	116	9.816 5257	165	0.183 4743	9.922 3947	49	758	
243	9.738 9319	115	9.816 5423	166	0.183 4577	9.922 3897	50	757	
		116		165			50		
244	9.738 9435		9.816 5588		0.183 4412	9.922 3847		756	
245	9.738 9551	116	9.816 5753	165	0.183 4247	9.922 3798	49	755	
246	9.738 9666	115	9.816 5919	166	0.183 4081	9.922 3748	50	754	
		116		165			50		
247	9.738 9782		9.816 6084		0.183 3916	9.922 3698		753	
248	9.738 9898	116	9.816 6249	165	0.183 3751	9.922 3648	50	752	
249	9.739 0013	115	9.816 6414	165	0.183 3586	9.922 3599	49	751	
		116		166			50		
.250	9.739 0129		9.816 6580		0.183 3420	9.922 3549		**.750**	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	116
1	11.6
2	23.2
3	34.8
4	46.4
5	58.0
6	69.6
7	81.2
8	92.8
9	104.4

	115
1	11.5
2	23.0
3	34.5
4	46.0
5	57.5
6	69.0
7	80.5
8	92.0
9	103.5

	50	49
1	5.0	4.9
2	10.0	9.8
3	15.0	14.7
4	20.0	19.6
5	25.0	24.5
6	30.0	29.4
7	35.0	34.3
8	40.0	39.2
9	45.0	44.1

$56^\circ.800$ — $56^\circ.750$

$33^\circ.250 - 33^\circ.300$

33°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.739 0129		9.816 6580		0.183 3420	9.922 3549		.750	
		115		165			50		
251	9.739 0244		9.816 6745		0.183 3255	9.922 3499		749	
252	9.739 0360	116	9.816 6910	165	0.183 3090	9.922 3450	49	748	
253	9.739 0476	116	9.816 7076	166	0.183 2924	9.922 3400	50	747	
		115		165			50		
254	9.739 0591		9.816 7241		0.183 2759	9.922 3350		746	
255	9.739 0707	116	9.816 7406	165	0.183 2594	9.922 3301	49	745	
256	9.739 0822	115	9.816 7572	166	0.183 2428	9.922 3251	50	744	
		116		165			50		
257	9.739 0938		9.816 7737		0.183 2263	9.922 3201		743	
258	9.739 1054	116	9.816 7902	165	0.183 2098	9.922 3151	50	742	
259	9.739 1169	115	9.816 8067	165	0.183 1933	9.922 3102	49	741	
		116		166			50		
.260	9.739 1285		9.816 8233		0.183 1767	9.922 3052		.740	
		115		165			50		
261	9.739 1400		9.816 8398		0.183 1602	9.922 3002		739	
262	9.739 1516	116	9.816 8563	165	0.183 1437	9.922 2953	49	738	
263	9.739 1631	115	9.816 8729	166	0.183 1271	9.922 2903	50	737	
		116		165			50		
264	9.739 1747		9.816 8894		0.183 1106	9.922 2853		736	
265	9.739 1863	116	9.816 9059	165	0.183 0941	9.922 2803	50	735	
266	9.739 1978	115	9.816 9224	165	0.183 0776	9.922 2754	49	734	
		116		166			50		
267	9.739 2094		9.816 9390		0.183 0610	9.922 2704		733	
268	9.739 2209	115	9.816 9555	165	0.183 0445	9.922 2654	50	732	
269	9.739 2325	116	9.816 9720	165	0.183 0280	9.922 2605	49	731	
		115		165			50		
.270	9.739 2440		9.816 9885		0.183 0115	9.922 2555		.730	
		116		166			50		
271	9.739 2556		9.817 0051		0.182 9949	9.922 2505		729	
272	9.739 2671	115	9.817 0216	165	0.182 9784	9.922 2455	50	728	
273	9.739 2787	116	9.817 0381	165	0.182 9619	9.922 2406	49	727	
		115		165			50		
274	9.739 2902		9.817 0546		0.182 9454	9.922 2356		726	
275	9.739 3018	116	9.817 0712	166	0.182 9288	9.922 2306	50	725	
276	9.739 3133	115	9.817 0877	165	0.182 9123	9.922 2256	50	724	
		116		165			49		
277	9.739 3249		9.817 1042		0.182 8958	9.922 2207		723	
278	9.739 3364	115	9.817 1207	165	0.182 8793	9.922 2157	50	722	
279	9.739 3480	116	9.817 1373	166	0.182 8627	9.922 2107	50	721	
		115		165			50		
.280	9.739 3595		9.817 1538		0.182 8462	9.922 2057		.720	
		116		165			49		
281	9.739 3711		9.817 1703		0.182 8297	9.922 2008		719	
282	9.739 3826	115	9.817 1868	165	0.182 8132	9.922 1958	50	718	
283	9.739 3942	116	9.817 2034	166	0.182 7966	9.922 1908	50	717	
		115		165			50		
284	9.739 4057		9.817 2199		0.182 7801	9.922 1858		716	
285	9.739 4173	116	9.817 2364	165	0.182 7636	9.922 1809	49	715	
286	9.739 4288	115	9.817 2529	165	0.182 7471	9.922 1759	50	714	
		115		165			50		
287	9.739 4403		9.817 2694		0.182 7306	9.922 1709		713	
288	9.739 4519	116	9.817 2860	166	0.182 7140	9.922 1659	50	712	
289	9.739 4634	115	9.817 3025	165	0.182 6975	9.922 1609	50	711	
		116		165			49		
.290	9.739 4750		9.817 3190		0.182 6810	9.922 1560		.710	
		115		165			50		
291	9.739 4865		9.817 3355		0.182 6645	9.922 1510		709	
292	9.739 4981	116	9.817 3520	165	0.182 6480	9.922 1460	50	708	
293	9.739 5096	115	9.817 3686	166	0.182 6314	9.922 1410	50	707	
		116		165			49		
294	9.739 5212		9.817 3851		0.182 6149	9.922 1361		706	
295	9.739 5327	115	9.817 4016	165	0.182 5984	9.922 1311	50	705	
296	9.739 5442	115	9.817 4181	165	0.182 5819	9.922 1261	50	704	
		116		165			50		
297	9.739 5558		9.817 4346		0.182 5654	9.922 1211		703	
298	9.739 5673	115	9.817 4512	166	0.182 5488	9.922 1161	50	702	
299	9.739 5789	116	9.817 4677	165	0.182 5323	9.922 1112	49	701	
		115		165			50		
.300	9.739 5904		9.817 4842		0.182 5158	9.922 1062		.700	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	166
1	16.6
2	33.2
3	49.8
4	66.4
5	83.0
6	99.6
7	116.2
8	132.8
9	149.4

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	116
1	11.6
2	23.2
3	34.8
4	46.4
5	58.0
6	69.6
7	81.2
8	92.8
9	104.4

	115
1	11.5
2	23.0
3	34.5
4	46.0
5	57.5
6	69.0
7	80.5
8	92.0
9	103.5

	50	49
1	5.0	4.9
2	10.0	9.8
3	15.0	14.7
4	20.0	19.6
5	25.0	24.5
6	30.0	29.4
7	35.0	34.3
8	40.0	39.2
9	45.0	44.1

$56^\circ.750 - 56^\circ.700$

$33^\circ.300 - 33^\circ.350$

33°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.739 5904		9.817 4842		0.182 5158	9.922 1062		.700	
		115		165			50		
301	9.739 6019		9.817 5007		0.182 4993	9.922 1012		699	
302	9.739 6135	116	9.817 5172	165	0.182 4828	9.922 0962	50	698	166
303	9.739 6250	115	9.817 5338	166	0.182 4662	9.922 0913	49	697	1 16.6
		115		165			50		2 33.2
304	9.739 6365		9.817 5503		0.182 4497	9.922 0863		696	3 49.8
305	9.739 6481	116	9.817 5668	165	0.182 4332	9.922 0813	50	695	4 66.4
306	9.739 6596	115	9.817 5833	165	0.182 4167	9.922 0763	50	694	5 83.0
		116		165			50		6 99.6
307	9.739 6712		9.817 5998		0.182 4002	9.922 0713		693	7 116.2
308	9.739 6827	115	9.817 6163	165	0.182 3837	9.922 0664	49	692	8 132.8
309	9.739 6942	115	9.817 6329	166	0.182 3671	9.922 0614	50	691	9 149.4
		116		165			50		
.310	9.739 7058		9.817 6494		0.182 3506	9.922 0564		.690	
		115		165			50		
311	9.739 7173		9.817 6659		0.182 3341	9.922 0514		689	
312	9.739 7288	115	9.817 6824	165	0.182 3176	9.922 0464	50	688	165
313	9.739 7404	116	9.817 6989	165	0.182 3011	9.922 0414	50	687	1 16.5
		115		165			49		2 33.0
314	9.739 7519		9.817 7154		0.182 2846	9.922 0365		686	3 49.5
315	9.739 7634	115	9.817 7319	165	0.182 2681	9.922 0315	50	685	4 66.0
316	9.739 7750	116	9.817 7485	166	0.182 2515	9.922 0265	50	684	5 82.5
		115		165			50		6 99.0
317	9.739 7865		9.817 7650		0.182 2350	9.922 0215		683	7 115.5
318	9.739 7980	115	9.817 7815	165	0.182 2185	9.922 0165	50	682	8 132.0
319	9.739 8096	116	9.817 7980	165	0.182 2020	9.922 0116	49	681	9 148.5
		115		165			50		
.320	9.739 8211		9.817 8145		0.182 1855	9.922 0066		.680	
		115		165			50		
321	9.739 8326		9.817 8310		0.182 1690	9.922 0016		679	
322	9.739 8442	116	9.817 8475	165	0.182 1525	9.921 9966	50	678	116
323	9.739 8557	115	9.817 8641	166	0.182 1359	9.921 9916	50	677	1 11.6
		115		165			50		2 23.2
324	9.739 8672		9.817 8806		0.182 1194	9.921 9866		676	3 34.8
325	9.739 8787	115	9.817 8971	165	0.182 1029	9.921 9817	49	675	4 46.4
326	9.739 8903	116	9.817 9136	165	0.182 0864	9.921 9767	50	674	5 58.0
		115		165			50		6 69.6
327	9.739 9018		9.817 9301		0.182 0699	9.921 9717		673	7 81.2
328	9.739 9133	115	9.817 9466	165	0.182 0534	9.921 9667	50	672	8 92.8
329	9.739 9248	115	9.817 9631	165	0.182 0369	9.921 9617	50	671	9 104.4
		116		165			50		
.330	9.739 9364		9.817 9796		0.182 0204	9.921 9567		.670	
		115		165			49		
331	9.739 9479		9.817 9961		0.182 0039	9.921 9518		669	
332	9.739 9594	115	9.818 0127	166	0.181 9873	9.921 9468	50	668	115
333	9.739 9710	116	9.818 0292	165	0.181 9708	9.921 9418	50	667	1 11.5
		115		165			50		2 23.0
334	9.739 9825		9.818 0457		0.181 9543	9.921 9368		666	3 34.5
335	9.739 9940	115	9.818 0622	165	0.181 9378	9.921 9318	50	665	4 46.0
336	9.740 0055	115	9.818 0787	165	0.181 9213	9.921 9268	50	664	5 57.5
		115		165			50		6 69.0
337	9.740 0170		9.818 0952		0.181 9048	9.921 9218		663	7 80.5
338	9.740 0286	116	9.818 1117	165	0.181 8883	9.921 9169	49	662	8 92.0
339	9.740 0401	115	9.818 1282	165	0.181 8718	9.921 9119	50	661	9 103.5
		115		165			50		
.340	9.740 0516		9.818 1447		0.181 8553	9.921 9069		.660	
		115		165			50		
341	9.740 0631		9.818 1612		0.181 8388	9.921 9019		659	50 49
342	9.740 0747	116	9.818 1778	166	0.181 8222	9.921 8969	50	658	1 5.0 4.9
343	9.740 0862	115	9.818 1943	165	0.181 8057	9.921 8919	50	657	2 10.0 9.8
		115		165			50		3 15.0 14.7
344	9.740 0977		9.818 2108		0.181 7892	9.921 8869		656	4 20.0 19.6
345	9.740 1092	115	9.818 2273	165	0.181 7727	9.921 8819	50	655	5 25.0 24.5
346	9.740 1207	115	9.818 2438	165	0.181 7562	9.921 8770	49	654	6 30.0 29.4
		116		165			50		7 35.0 34.3
347	9.740 1323		9.818 2603		0.181 7397	9.921 8720		653	8 40.0 39.2
348	9.740 1438	115	9.818 2768	165	0.181 7232	9.921 8670	50	652	9 45.0 44.1
349	9.740 1553	115	9.818 2933	165	0.181 7067	9.921 8620	50	651	
		115		165			50		
.350	9.740 1668		9.818 3098		0.181 6902	9.921 8570		.650	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

$56^\circ.700 - 56^\circ.650$

33°.350 — 33°.400

33°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.740 1668		9.818 3098		0.181 6902	9.921 8570		.650	
		115		165			50		
351	9.740 1783		9.818 3263		0.181 6737	9.921 8520		649	
352	9.740 1898	115	9.818 3428	165	0.181 6572	9.921 8470	50	648	
353	9.740 2014	116	9.818 3593	165	0.181 6407	9.921 8420	50	647	
		115		165			50		
354	9.740 2129		9.818 3758		0.181 6242	9.921 8370		646	
355	9.740 2244	115	9.818 3923	165	0.181 6077	9.921 8321	49	645	
356	9.740 2359	115	9.818 4088	165	0.181 5912	9.921 8271	50	644	
		115		165			50		
357	9.740 2474		9.818 4253		0.181 5747	9.921 8221		643	
358	9.740 2589	115	9.818 4418	165	0.181 5582	9.921 8171	50	642	
359	9.740 2704	115	9.818 4583	165	0.181 5417	9.921 8121	50	641	
		116		166			50		
.360	9.740 2820		9.818 4749		0.181 5251	9.921 8071		.640	
		115		165			50		
361	9.740 2935		9.818 4914		0.181 5086	9.921 8021		639	
362	9.740 3050	115	9.818 5079	165	0.181 4921	9.921 7971	50	638	
363	9.740 3165	115	9.818 5244	165	0.181 4756	9.921 7921	50	637	
		115		165			50		
364	9.740 3280		9.818 5409		0.181 4591	9.921 7871		636	
365	9.740 3395	115	9.818 5574	165	0.181 4426	9.921 7822	49	635	
366	9.740 3510	115	9.818 5739	165	0.181 4261	9.921 7772	50	634	
		115		165			50		
367	9.740 3625		9.818 5904		0.181 4096	9.921 7722		633	
368	9.740 3740	115	9.818 6069	165	0.181 3931	9.921 7672	50	632	
369	9.740 3856	116	9.818 6234	165	0.181 3766	9.921 7622	50	631	
		115		165			50		
.370	9.740 3971		9.818 6399		0.181 3601	9.921 7572		.630	
		115		165			50		
371	9.740 4086		9.818 6564		0.181 3436	9.921 7522		629	
372	9.740 4201	115	9.818 6729	165	0.181 3271	9.921 7472	50	628	
373	9.740 4316	115	9.818 6894	165	0.181 3106	9.921 7422	50	627	
		115		165			50		
374	9.740 4431		9.818 7059		0.181 2941	9.921 7372		626	
375	9.740 4546	115	9.818 7224	165	0.181 2776	9.921 7322	50	625	
376	9.740 4661	115	9.818 7389	165	0.181 2611	9.921 7272	50	624	
		115		165			50		
377	9.740 4776		9.818 7554		0.181 2446	9.921 7222		623	
378	9.740 4891	115	9.818 7719	165	0.181 2281	9.921 7173	49	622	
379	9.740 5006	115	9.818 7884	165	0.181 2116	9.921 7123	50	621	
		115		165			50		
.380	9.740 5121		9.818 8049		0.181 1951	9.921 7073		.620	
		115		165			50		
381	9.740 5236		9.818 8214		0.181 1786	9.921 7023		619	
382	9.740 5351	115	9.818 8379	165	0.181 1621	9.921 6973	50	618	
383	9.740 5466	115	9.818 8544	165	0.181 1456	9.921 6923	50	617	
		115		165			50		
384	9.740 5581		9.818 8709		0.181 1291	9.921 6873		616	
385	9.740 5696	115	9.818 8874	165	0.181 1126	9.921 6823	50	615	
386	9.740 5811	115	9.818 9039	165	0.181 0961	9.921 6773	50	614	
		116		165			50		
387	9.740 5927		9.818 9204		0.181 0796	9.921 6723		613	
388	9.740 6042	115	9.818 9368	164	0.181 0632	9.921 6673	50	612	
389	9.740 6157	115	9.818 9533	165	0.181 0467	9.921 6623	50	611	
		115		165			50		
.390	9.740 6272		9.818 9698		0.181 0302	9.921 6573		.610	
		115		165			50		
391	9.740 6387		9.818 9863		0.181 0137	9.921 6523		609	
392	9.740 6502	115	9.819 0028	165	0.180 9972	9.921 6473	50	608	
393	9.740 6616	114	9.819 0193	165	0.180 9807	9.921 6423	50	607	
		115		165			50		
394	9.740 6731		9.819 0358		0.180 9642	9.921 6373		606	
395	9.740 6846	115	9.819 0523	165	0.180 9477	9.921 6323	50	605	
396	9.740 6961	115	9.819 0688	165	0.180 9312	9.921 6273	50	604	
		115		165			50		
397	9.740 7076		9.819 0853		0.180 9147	9.921 6223		603	
398	9.740 7191	115	9.819 1018	165	0.180 8982	9.921 6173	50	602	
399	9.740 7306	115	9.819 1183	165	0.180 8817	9.921 6123	50	601	
		115		165			50		
.400	9.740 7421		9.819 1348		0.180 8652	9.921 6073		.600	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	166	165
1	16.6	16.5
2	33.2	33.0
3	49.8	49.5
4	66.4	66.0
5	83.0	82.5
6	99.6	99.0
7	116.2	115.5
8	132.8	132.0
9	149.4	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	116	115
1	11.6	11.5
2	23.2	23.0
3	34.8	34.5
4	46.4	46.0
5	58.0	57.5
6	69.6	69.0
7	81.2	80.5
8	92.8	92.0
9	104.4	103.5

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	50	49
1	5.0	4.9
2	10.0	9.8
3	15.0	14.7
4	20.0	19.6
5	25.0	24.5
6	30.0	29.4
7	35.0	34.3
8	40.0	39.2
9	45.0	44.1

56°.650 — 56°.600

33°.400 — 33°.450

33°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.740 7421		9.819 1348		0.180 8652	9.921 6073		.600	
		115		165			50		
401	9.740 7536		9.819 1513		0.180 8487	9.921 6023		599	
402	9.740 7651	115	9.819 1678	165	0.180 8322	9.921 5973	50	598	
403	9.740 7766	115	9.819 1843	165	0.180 8157	9.921 5923	50	597	
		115		165			50		
404	9.740 7881		9.819 2008		0.180 7992	9.921 5873		596	
405	9.740 7996	115	9.819 2173	165	0.180 7827	9.921 5823	50	595	
406	9.740 8111	115	9.819 2337	164	0.180 7663	9.921 5773	50	594	
		115		165			50		
407	9.740 8226		9.819 2502		0.180 7498	9.921 5723		593	
408	9.740 8341	115	9.819 2667	165	0.180 7333	9.921 5673	50	592	
409	9.740 8456	115	9.819 2832	165	0.180 7168	9.921 5624	49	591	
		115		165			50		
.410	9.740 8571		9.819 2997		0.180 7003	9.921 5574		.590	
		115		165			50		
411	9.740 8686		9.819 3162		0.180 6838	9.921 5524		589	
412	9.740 8800	114	9.819 3327	165	0.180 6673	9.921 5474	50	588	
413	9.740 8915	115	9.819 3492	165	0.180 6508	9.921 5423	51	587	
		115		165			50		
414	9.740 9030		9.819 3657		0.180 6343	9.921 5373		586	
415	9.740 9145	115	9.819 3822	165	0.180 6178	9.921 5323	50	585	
416	9.740 9260	115	9.819 3987	165	0.180 6013	9.921 5273	50	584	
		115		164			50		
417	9.740 9375		9.819 4151		0.180 5849	9.921 5223		583	
418	9.740 9490	115	9.819 4316	165	0.180 5684	9.921 5173	50	582	
419	9.740 9605	115	9.819 4481	165	0.180 5519	9.921 5123	50	581	
		115		165			50		
.420	9.740 9720		9.819 4646		0.180 5354	9.921 5073		.580	
		114		165			50		
421	9.740 9834		9.819 4811		0.180 5189	9.921 5023		579	
422	9.740 9949	115	9.819 4976	165	0.180 5024	9.921 4973	50	578	
423	9.741 0064	115	9.819 5141	165	0.180 4859	9.921 4923	50	577	
		115		165			50		
424	9.741 0179		9.819 5306		0.180 4694	9.921 4873		576	
425	9.741 0294	115	9.819 5470	164	0.180 4530	9.921 4823	50	575	
426	9.741 0409	115	9.819 5635	165	0.180 4365	9.921 4773	50	574	
		114		165			50		
427	9.741 0523		9.819 5800		0.180 4200	9.921 4723		573	
428	9.741 0638	115	9.819 5965	165	0.180 4035	9.921 4673	50	572	
429	9.741 0753	115	9.819 6130	165	0.180 3870	9.921 4623	50	571	
		115		165			50		
.430	9.741 0868		9.819 6295		0.180 3705	9.921 4573		.570	
		115		165			50		
431	9.741 0983		9.819 6460		0.180 3540	9.921 4523		569	
432	9.741 1098	115	9.819 6625	165	0.180 3375	9.921 4473	50	568	
433	9.741 1212	114	9.819 6789	164	0.180 3211	9.921 4423	50	567	
		115		165			50		
434	9.741 1327		9.819 6954		0.180 3046	9.921 4373		566	
435	9.741 1442	115	9.819 7119	165	0.180 2881	9.921 4323	50	565	
436	9.741 1557	115	9.819 7284	165	0.180 2716	9.921 4273	50	564	
		115		165			50		
437	9.741 1672		9.819 7449		0.180 2551	9.921 4223		563	
438	9.741 1786	114	9.819 7614	165	0.180 2386	9.921 4173	50	562	
439	9.741 1901	115	9.819 7778	164	0.180 2222	9.921 4123	50	561	
		115		165			50		
.440	9.741 2016		9.819 7943		0.180 2057	9.921 4073		.560	
		115		165			50		
441	9.741 2131		9.819 8108		0.180 1892	9.921 4023		559	
442	9.741 2246	115	9.819 8273	165	0.180 1727	9.921 3973	50	558	
443	9.741 2360	114	9.819 8438	165	0.180 1562	9.921 3923	50	557	
		115		165			51		
444	9.741 2475		9.819 8603		0.180 1397	9.921 3872		556	
445	9.741 2590	115	9.819 8767	164	0.180 1233	9.921 3822	50	555	
446	9.741 2705	115	9.819 8932	165	0.180 1068	9.921 3772	50	554	
		114		165			50		
447	9.741 2819		9.819 9097		0.180 0903	9.921 3722		553	
448	9.741 2934	115	9.819 9262	165	0.180 0738	9.921 3672	50	552	
449	9.741 3049	115	9.819 9427	165	0.180 0573	9.921 3622	50	551	
		115		165			50		
.450	9.741 3164		9.819 9592		0.180 0408	9.921 3572		.550	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	115
1	11.5
2	23.0
3	34.5
4	46.0
5	57.5
6	69.0
7	80.5
8	92.0
9	103.5

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

	49
1	4.9
2	9.8
3	14.7
4	19.6
5	24.5
6	29.4
7	34.3
8	39.2
9	44.1

56°.600 — 56°.550

33°.450 — 33°.500

33°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.741 3164		9.819 9592		0.180 0408	9.921 3572		·550	
		114		164			50		
451	9.741 3278		9.819 9756		0.180 0244	9.921 3522		549	
452	9.741 3393	115	9.819 9921	165	0.180 0079	9.921 3472	50	548	
453	9.741 3508	115	9.820 0086	165	0.179 9914	9.921 3422	50	547	
		114		165			50		
454	9.741 3622		9.820 0251		0.179 9749	9.921 3372		546	
455	9.741 3737	115	9.820 0416	165	0.179 9584	9.921 3322	50	545	
456	9.741 3852	115	9.820 0580	164	0.179 9420	9.921 3272	50	544	
		115		165			51		
457	9.741 3967		9.820 0745		0.179 9255	9.921 3221		543	
458	9.741 4081	114	9.820 0910	165	0.179 9090	9.921 3171	50	542	
459	9.741 4196	115	9.820 1075	165	0.179 8925	9.921 3121	50	541	
		115		165			50		
·460	9.741 4311		9.820 1240		0.179 8760	9.921 3071		·540	
		114		164			50		
461	9.741 4425		9.820 1404		0.179 8596	9.921 3021		539	
462	9.741 4540	115	9.820 1569	165	0.179 8431	9.921 2971	50	538	
463	9.741 4655	115	9.820 1734	165	0.179 8266	9.921 2921	50	537	
		114		165			50		
464	9.741 4769		9.820 1899		0.179 8101	9.921 2871		536	
465	9.741 4884	115	9.820 2063	164	0.179 7937	9.921 2821	50	535	
466	9.741 4999	115	9.820 2228	165	0.179 7772	9.921 2771	50	534	
		114		165			51		
467	9.741 5113		9.820 2393		0.179 7607	9.921 2720		533	
468	9.741 5228	115	9.820 2558	165	0.179 7442	9.921 2670	50	532	
469	9.741 5343	115	9.820 2723	165	0.179 7277	9.921 2620	50	531	
		114		164			50		
·470	9.741 5457		9.820 2887		0.179 7113	9.921 2570		·530	
		115		165			50		
471	9.741 5572		9.820 3052		0.179 6948	9.921 2520		529	
472	9.741 5687	115	9.820 3217	165	0.179 6783	9.921 2470	50	528	
473	9.741 5801	114	9.820 3382	165	0.179 6618	9.921 2420	50	527	
		115		164			50		
474	9.741 5916		9.820 3546		0.179 6454	9.921 2370		526	
475	9.741 6031	115	9.820 3711	165	0.179 6289	9.921 2320	50	525	
476	9.741 6145	114	9.820 3876	165	0.179 6124	9.921 2269	51	524	
		115		165			50		
477	9.741 6260		9.820 4041		0.179 5959	9.921 2219		523	
478	9.741 6374	114	9.820 4205	164	0.179 5795	9.921 2169	50	522	
479	9.741 6489	115	9.820 4370	165	0.179 5630	9.921 2119	50	521	
		115		165			50		
·480	9.741 6604		9.820 4535		0.179 5465	9.921 2069		·520	
		114		165			50		
481	9.741 6718		9.820 4700		0.179 5300	9.921 2019		519	
482	9.741 6833	115	9.820 4864	164	0.179 5136	9.921 1969	50	518	
483	9.741 6948	115	9.820 5029	165	0.179 4971	9.921 1919	50	517	
		114		165			51		
484	9.741 7062		9.820 5194		0.179 4806	9.921 1868		516	
485	9.741 7177	115	9.820 5358	164	0.179 4642	9.921 1818	50	515	
486	9.741 7291	114	9.820 5523	165	0.179 4477	9.921 1768	50	514	
		115		165			50		
487	9.741 7406		9.820 5688		0.179 4312	9.921 1718		513	
488	9.741 7520	114	9.820 5853	165	0.179 4147	9.921 1668	50	512	
489	9.741 7635	115	9.820 6017	164	0.179 3983	9.921 1618	50	511	
		115		165			50		
·490	9.741 7750		9.820 6182		0.179 3818	9.921 1568		·510	
		114		165			51		
491	9.741 7864		9.820 6347		0.179 3653	9.921 1517		509	
492	9.741 7979	115	9.820 6511	164	0.179 3489	9.921 1467	50	508	
493	9.741 8093	114	9.820 6676	165	0.179 3324	9.921 1417	50	507	
		115		165			50		
494	9.741 8208		9.820 6841		0.179 3159	9.921 1367		506	
495	9.741 8322	114	9.820 7006	165	0.179 2994	9.921 1317	50	505	
496	9.741 8437	115	9.820 7170	164	0.179 2830	9.921 1267	50	504	
		114		165			51		
497	9.741 8551		9.820 7335		0.179 2665	9.921 1216		503	
498	9.741 8666	115	9.820 7500	165	0.179 2500	9.921 1166	50	502	
499	9.741 8780	114	9.820 7664	164	0.179 2336	9.921 1116	50	501	
		115		165			50		
·500	9.741 8895		9.820 7829		0.179 2171	9.921 1066		·500	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	115
1	11.5
2	23.0
3	34.5
4	46.0
5	57.5
6	69.0
7	80.5
8	92.0
9	103.5

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.550 — 56°.500

33°.500 — 33°.550

33°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.741 8895		9.820 7829		0.179 2171	9.921 1066		.500	
		114		165			50		
501	9.741 9009		9.820 7994		0.179 2006	9.921 1016		499	
502	9.741 9124	115	9.820 8158	164	0.179 1842	9.921 0966	50	498	
503	9.741 9239	115	9.820 8323	165	0.179 1677	9.921 0915	51	497	
		114		165			50		
504	9.741 9353		9.820 8488		0.179 1512	9.921 0865		496	
505	9.741 9468	115	9.820 8652	164	0.179 1348	9.921 0815	50	495	
506	9.741 9582	114	9.820 8817	165	0.179 1183	9.921 0765	50	494	
		115		165			50		
507	9.741 9697		9.820 8982		0.179 1018	9.921 0715		493	
508	9.741 9811	114	9.820 9147	165	0.179 0853	9.921 0664	51	492	
509	9.741 9925	114	9.820 9311	164	0.179 0689	9.921 0614	50	491	
		115		165			50		
.510	9.742 0040		9.820 9476		0.179 0524	9.921 0564		.490	
		114		165			50		
511	9.742 0154		9.820 9641		0.179 0359	9.921 0514		489	
512	9.742 0269	115	9.820 9805	164	0.179 0195	9.921 0464	50	488	
513	9.742 0383	114	9.820 9970	165	0.179 0030	9.921 0414	50	487	
		115		164			51		
514	9.742 0498		9.821 0134		0.178 9866	9.921 0363		486	
515	9.742 0612	114	9.821 0299	165	0.178 9701	9.921 0313	50	485	
516	9.742 0727	115	9.821 0464	165	0.178 9536	9.921 0263	50	484	
		114		164			50		
517	9.742 0841		9.821 0628		0.178 9372	9.921 0213		483	
518	9.742 0956	115	9.821 0793	165	0.178 9207	9.921 0163	50	482	
519	9.742 1070	114	9.821 0958	165	0.178 9042	9.921 0112	51	481	
		114		164			50		
.520	9.742 1184		9.821 1122		0.178 8878	9.921 0062		.480	
		115		165			50		
521	9.742 1299		9.821 1287		0.178 8713	9.921 0012		479	
522	9.742 1413	114	9.821 1452	165	0.178 8548	9.920 9962	50	478	
523	9.742 1528	115	9.821 1616	164	0.178 8384	9.920 9911	51	477	
		114		165			50		
524	9.742 1642		9.821 1781		0.178 8219	9.920 9861		476	
525	9.742 1757	115	9.821 1946	165	0.178 8054	9.920 9811	50	475	
526	9.742 1871	114	9.821 2110	164	0.178 7890	9.920 9761	50	474	
		114		165			50		
527	9.742 1985		9.821 2275		0.178 7725	9.920 9711		473	
528	9.742 2100	115	9.821 2439	164	0.178 7561	9.920 9660	51	472	
529	9.742 2214	114	9.821 2604	165	0.178 7396	9.920 9610	50	471	
		115		165			50		
.530	9.742 2329		9.821 2769		0.178 7231	9.920 9560		.470	
		114		164			50		
531	9.742 2443		9.821 2933		0.178 7067	9.920 9510		469	
532	9.742 2557	114	9.821 3098	165	0.178 6902	9.920 9459	51	468	
533	9.742 2672	115	9.821 3262	164	0.178 6738	9.920 9409	50	467	
		114		165			50		
534	9.742 2786		9.821 3427		0.178 6573	9.920 9359		466	
535	9.742 2900	114	9.821 3592	165	0.178 6408	9.920 9309	50	465	
536	9.742 3015	115	9.821 3756	164	0.178 6244	9.920 9259	50	464	
		114		165			51		
537	9.742 3129		9.821 3921		0.178 6079	9.920 9208		463	
538	9.742 3244	115	9.821 4086	165	0.178 5914	9.920 9158	50	462	
539	9.742 3358	114	9.821 4250	164	0.178 5750	9.920 9108	50	461	
		114		165			50		
.540	9.742 3472		9.821 4415		0.178 5585	9.920 9058		.460	
		115		164			51		
541	9.742 3587		9.821 4579		0.178 5421	9.920 9007		459	
542	9.742 3701	114	9.821 4744	165	0.178 5256	9.920 8957	50	458	
543	9.742 3815	114	9.821 4908	164	0.178 5092	9.920 8907	50	457	
		115		165			50		
544	9.742 3930		9.821 5073		0.178 4927	9.920 8857		456	
545	9.742 4044	114	9.821 5238	165	0.178 4762	9.920 8806	51	455	
546	9.742 4158	114	9.821 5402	164	0.178 4598	9.920 8756	50	454	
		115		165			50		
547	9.742 4273		9.821 5567		0.178 4433	9.920 8706		453	
548	9.742 4387	114	9.821 5731	164	0.178 4269	9.920 8656	50	452	
549	9.742 4501	114	9.821 5896	165	0.178 4104	9.920 8605	51	451	
		115		164			50		
.550	9.742 4616		9.821 6060		0.178 3940	9.920 8555		.450	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	115
1	11.5
2	23.0
3	34.5
4	46.0
5	57.5
6	69.0
7	80.5
8	92.0
9	103.5

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.500 — 56°.450

33°.550 — 33°.600

33°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.742 4616		9.821 6060		0.178 3940	9.920 8555		.450	
		114		165			50		
551	9.742 4730		9.821 6225		0.178 3775	9.920 8505		449	
552	9.742 4844	114	9.821 6390	165	0.178 3610	9.920 8454	51	448	
553	9.742 4958	114	9.821 6554	164	0.178 3446	9.920 8404	50	447	
		115		165			50		
554	9.742 5073		9.821 6719		0.178 3281	9.920 8354		446	
555	9.742 5187	114	9.821 6883	164	0.178 3117	9.920 8304	50	445	
556	9.742 5301	114	9.821 7048	165	0.178 2952	9.920 8253	51	444	
		115		164			50		
557	9.742 5416		9.821 7212		0.178 2788	9.920 8203		443	
558	9.742 5530	114	9.821 7377	165	0.178 2623	9.920 8153	50	442	
559	9.742 5644	114	9.821 7542	165	0.178 2458	9.920 8103	50	441	
		114		164			51		
.560	9.742 5758		9.821 7706		0.178 2294	9.920 8052		.440	
		115		165			50		
561	9.742 5873		9.821 7871		0.178 2129	9.920 8002		439	
562	9.742 5987	114	9.821 8035	164	0.178 1965	9.920 7952	50	438	
563	9.742 6101	114	9.821 8200	165	0.178 1800	9.920 7901	51	437	
		114		164			50		
564	9.742 6215		9.821 8364		0.178 1636	9.920 7851		436	
565	9.742 6330	115	9.821 8529	165	0.178 1471	9.920 7801	50	435	
566	9.742 6444	114	9.821 8693	164	0.178 1307	9.920 7751	50	434	
		114		165			51		
567	9.742 6558		9.821 8858		0.178 1142	9.920 7700		433	
568	9.742 6672	114	9.821 9022	164	0.178 0978	9.920 7650	50	432	
569	9.742 6786	114	9.821 9187	165	0.178 0813	9.920 7600	50	431	
		115		164			51		
.570	9.742 6901		9.821 9351		0.178 0649	9.920 7549		.430	
		114		165			50		
571	9.742 7015		9.821 9516		0.178 0484	9.920 7499		429	
572	9.742 7129	114	9.821 9680	164	0.178 0320	9.920 7449	50	428	
573	9.742 7243	114	9.821 9845	165	0.178 0155	9.920 7398	51	427	
		115		164			50		
574	9.742 7358		9.822 0009		0.177 9991	9.920 7348		426	
575	9.742 7472	114	9.822 0174	165	0.177 9826	9.920 7298	50	425	
576	9.742 7586	114	9.822 0338	164	0.177 9662	9.920 7247	51	424	
		114		165			50		
577	9.742 7700		9.822 0503		0.177 9497	9.920 7197		423	
578	9.742 7814	114	9.822 0667	164	0.177 9333	9.920 7147	50	422	
579	9.742 7928	114	9.822 0832	165	0.177 9168	9.920 7097	50	421	
		115		164			51		
.580	9.742 8043		9.822 0996		0.177 9004	9.920 7046		.420	
		114		165			50		
581	9.742 8157		9.822 1161		0.177 8839	9.920 6996		419	
582	9.742 8271	114	9.822 1325	164	0.177 8675	9.920 6946	50	418	
583	9.742 8385	114	9.822 1490	165	0.177 8510	9.920 6895	51	417	
		114		164			50		
584	9.742 8499		9.822 1654		0.177 8346	9.920 6845		416	
585	9.742 8613	114	9.822 1819	165	0.177 8181	9.920 6795	50	415	
586	9.742 8728	115	9.822 1983	164	0.177 8017	9.920 6744	51	414	
		114		165			50		
587	9.742 8842		9.822 2148		0.177 7852	9.920 6694		413	
588	9.742 8956	114	9.822 2312	164	0.177 7688	9.920 6644	50	412	
589	9.742 9070	114	9.822 2477	165	0.177 7523	9.920 6593	51	411	
		114		164			50		
.590	9.742 9184		9.822 2641		0.177 7359	9.920 6543		.410	
		114		165			50		
591	9.742 9298		9.822 2806		0.177 7194	9.920 6493		409	
592	9.742 9412	114	9.822 2970	164	0.177 7030	9.920 6442	51	408	
593	9.742 9527	115	9.822 3135	165	0.177 6865	9.920 6392	50	407	
		114		164			50		
594	9.742 9641		9.822 3299		0.177 6701	9.920 6342		406	
595	9.742 9755	114	9.822 3464	165	0.177 6536	9.920 6291	51	405	
596	9.742 9869	114	9.822 3628	164	0.177 6372	9.920 6241	50	404	
		114		165			51		
597	9.742 9983		9.822 3793		0.177 6207	9.920 6190		403	
598	9.743 0097	114	9.822 3957	164	0.177 6043	9.920 6140	50	402	
599	9.743 0211	114	9.822 4121	164	0.177 5879	9.920 6090	50	401	
		114		165			51		
.600	9.743 0325		9.822 4286		0.177 5714	9.920 6039		.400	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	115
1	11.5
2	23.0
3	34.5
4	46.0
5	57.5
6	69.0
7	80.5
8	92.0
9	103.5

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.450 — 56°.400

33°.600 — 33°.650

33°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.743 0325		9.822 4286		0.177 5714	9.920 6039		**.400**	
		114		164			50		
601	9.743 0439		9.822 4450		0.177 5550	9.920 5989		399	
602	9.743 0553	114	9.822 4615	165	0.177 5385	9.920 5939	50	398	
603	9.743 0667	114	9.822 4779	164	0.177 5221	9.920 5888	51	397	
		115		165			50		
604	9.743 0782		9.822 4944		0.177 5056	9.920 5838		396	
605	9.743 0896	114	9.822 5108	164	0.177 4892	9.920 5788	50	395	
606	9.743 1010	114	9.822 5272	164	0.177 4728	9.920 5737	51	394	
		114		165			50		
607	9.743 1124		9.822 5437		0.177 4563	9.920 5687		393	
608	9.743 1238	114	9.822 5601	164	0.177 4399	9.920 5636	51	392	
609	9.743 1352	114	9.822 5766	165	0.177 4234	9.920 5586	50	391	
		114		164			50		
.610	9.743 1466		9.822 5930		0.177 4070	9.920 5536		**.390**	
		114		165			51		
611	9.743 1580		9.822 6095		0.177 3905	9.920 5485		389	
612	9.743 1694	114	9.822 6259	164	0.177 3741	9.920 5435	50	388	
613	9.743 1808	114	9.822 6423	164	0.177 3577	9.920 5385	50	387	
		114		165			51		
614	9.743 1922		9.822 6588		0.177 3412	9.920 5334		386	
615	9.743 2036	114	9.822 6752	164	0.177 3248	9.920 5284	50	385	
616	9.743 2150	114	9.822 6917	165	0.177 3083	9.920 5233	51	384	
		114		164			50		
617	9.743 2264		9.822 7081		0.177 2919	9.920 5183		383	
618	9.743 2378	114	9.822 7246	165	0.177 2754	9.920 5133	50	382	
619	9.743 2492	114	9.822 7410	164	0.177 2590	9.920 5082	51	381	
		114		164			50		
.620	9.743 2606		9.822 7574		0.177 2426	9.920 5032		**.380**	
		114		165			51		
621	9.743 2720		9.822 7739		0.177 2261	9.920 4981		379	
622	9.743 2834	114	9.822 7903	164	0.177 2097	9.920 4931	50	378	
623	9.743 2948	114	9.822 8067	164	0.177 1933	9.920 4881	50	377	
		114		165			51		
624	9.743 3062		9.822 8232		0.177 1768	9.920 4830		376	
625	9.743 3176	114	9.822 8396	164	0.177 1604	9.920 4780	50	375	
626	9.743 3290	114	9.822 8561	165	0.177 1439	9.920 4729	51	374	
		114		164			50		
627	9.743 3404		9.822 8725		0.177 1275	9.920 4679		373	
628	9.743 3518	114	9.822 8889	164	0.177 1111	9.920 4629	50	372	
629	9.743 3632	114	9.822 9054	165	0.177 0946	9.920 4578	51	371	
		114		164			50		
.630	9.743 3746		9.822 9218		0.177 0782	9.920 4528		**.370**	
		114		165			51		
631	9.743 3860		9.822 9383		0.177 0617	9.920 4477		369	
632	9.743 3974	114	9.822 9547	164	0.177 0453	9.920 4427	50	368	
633	9.743 4088	114	9.822 9711	164	0.177 0289	9.920 4376	51	367	
		114		165			50		
634	9.743 4202		9.822 9876		0.177 0124	9.920 4326		366	
635	9.743 4316	114	9.823 0040	164	0.176 9960	9.920 4276	50	365	
636	9.743 4430	114	9.823 0204	164	0.176 9796	9.920 4225	51	364	
		113		165			50		
637	9.743 4543		9.823 0369		0.176 9631	9.920 4175		363	
638	9.743 4657	114	9.823 0533	164	0.176 9467	9.920 4124	51	362	
639	9.743 4771	114	9.823 0697	164	0.176 9303	9.920 4074	50	361	
		114		165			51		
.640	9.743 4885		9.823 0862		0.176 9138	9.920 4023		**.360**	
		114		164			50		
641	9.743 4999		9.823 1026		0.176 8974	9.920 3973		359	
642	9.743 5113	114	9.823 1190	164	0.176 8810	9.920 3923	50	358	
643	9.743 5227	114	9.823 1355	165	0.176 8645	9.920 3872	51	357	
		114		164			50		
644	9.743 5341		9.823 1519		0.176 8481	9.920 3822		356	
645	9.743 5455	114	9.823 1684	165	0.176 8316	9.920 3771	51	355	
646	9.743 5569	114	9.823 1848	164	0.176 8152	9.920 3721	50	354	
		114		164			51		
647	9.743 5683		9.823 2012		0.176 7988	9.920 3670		353	
648	9.743 5796	113	9.823 2177	165	0.176 7823	9.920 3620	50	352	
649	9.743 5910	114	9.823 2341	164	0.176 7659	9.920 3569	51	351	
		114		164			50		
.650	9.743 6024		9.823 2505		0.176 7495	9.920 3519		**.350**	
	cos	d	cotg	d	tang	sin	d	**56°**	P.P.

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	115
1	11.5
2	23.0
3	34.5
4	46.0
5	57.5
6	69.0
7	80.5
8	92.0
9	103.5

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.400 — 56°.350

33°.650 — 33°.700

33°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.743 6024		9.823 2505		0.176 7495	9.920 3519		.350	
		114		165			50		
651	9.743 6138		9.823 2670		0.176 7330	9.920 3469		349	
652	9.743 6252	114	9.823 2834	164	0.176 7166	9.920 3418	51	348	
653	9.743 6366	114	9.823 2998	164	0.176 7002	9.920 3368	50	347	
		114		164			51		
654	9.743 6480		9.823 3162		0.176 6838	9.920 3317		346	
655	9.743 6593	113	9.823 3327	165	0.176 6673	9.920 3267	50	345	
656	9.743 6707	114	9.823 3491	164	0.176 6509	9.920 3216	51	344	
		114		164			50		
657	9.743 6821		9.823 3655		0.176 6345	9.920 3166		343	
658	9.743 6935	114	9.823 3820	165	0.176 6180	9.920 3115	51	342	
659	9.743 7049	114	9.823 3984	164	0.176 6016	9.920 3065	50	341	
		114		164			51		
.660	9.743 7163		9.823 4148		0.176 5852	9.920 3014		.340	
		113		165			50		
661	9.743 7276		9.823 4313		0.176 5687	9.920 2964		339	
662	9.743 7390	114	9.823 4477	164	0.176 5523	9.920 2913	51	338	
663	9.743 7504	114	9.823 4641	164	0.176 5359	9.920 2863	50	337	
		114		165			51		
664	9.743 7618		9.823 4806		0.176 5194	9.920 2812		336	
665	9.743 7732	114	9.823 4970	164	0.176 5030	9.920 2762	50	335	
666	9.743 7846	114	9.823 5134	164	0.176 4866	9.920 2711	51	334	
		113		164			50		
667	9.743 7959		9.823 5298		0.176 4702	9.920 2661		333	
668	9.743 8073	114	9.823 5463	165	0.176 4537	9.920 2610	51	332	
669	9.743 8187	114	9.823 5627	164	0.176 4373	9.920 2560	50	331	
		114		164			51		
.670	9.743 8301		9.823 5791		0.176 4209	9.920 2509		.330	
		113		165			50		
671	9.743 8414		9.823 5956		0.176 4044	9.920 2459		329	
672	9.743 8528	114	9.823 6120	164	0.176 3880	9.920 2408	51	328	
673	9.743 8642	114	9.823 6284	164	0.176 3716	9.920 2358	50	327	
		114		164			51		
674	9.743 8756		9.823 6448		0.176 3552	9.920 2307		326	
675	9.743 8870	114	9.823 6613	165	0.176 3387	9.920 2257	50	325	
676	9.743 8983	113	9.823 6777	164	0.176 3223	9.920 2206	51	324	
		114		164			50		
677	9.743 9097		9.823 6941		0.176 3059	9.920 2156		323	
678	9.743 9211	114	9.823 7105	164	0.176 2895	9.920 2105	51	322	
679	9.743 9325	114	9.823 7270	165	0.176 2730	9.920 2055	50	321	
		113		164			51		
.680	9.743 9438		9.823 7434		0.176 2566	9.920 2004		.320	
		114		164			50		
681	9.743 9552		9.823 7598		0.176 2402	9.920 1954		319	
682	9.743 9666	114	9.823 7762	164	0.176 2238	9.920 1903	51	318	
683	9.743 9780	114	9.823 7927	165	0.176 2073	9.920 1853	50	317	
		113		164			51		
684	9.743 9893		9.823 8091		0.176 1909	9.920 1802		316	
685	9.744 0007	114	9.823 8255	164	0.176 1745	9.920 1752	50	315	
686	9.744 0121	114	9.823 8419	164	0.176 1581	9.920 1701	51	314	
		113		165			50		
687	9.744 0234		9.823 8584		0.176 1416	9.920 1651		313	
688	9.744 0348	114	9.823 8748	164	0.176 1252	9.920 1600	51	312	
689	9.744 0462	114	9.823 8912	164	0.176 1088	9.920 1550	50	311	
		114		164			51		
.690	9.744 0576		9.823 9076		0.176 0924	9.920 1499		.310	
		113		165			50		
691	9.744 0689		9.823 9241		0.176 0759	9.920 1449		309	
692	9.744 0803	114	9.823 9405	164	0.176 0595	9.920 1398	51	308	
693	9.744 0917	114	9.823 9569	164	0.176 0431	9.920 1348	50	307	
		113		164			51		
694	9.744 1030		9.823 9733		0.176 0267	9.920 1297		306	
695	9.744 1144	114	9.823 9897	164	0.176 0103	9.920 1247	50	305	
696	9.744 1258	114	9.824 0062	165	0.175 9938	9.920 1196	51	304	
		113		164			51		
697	9.744 1371		9.824 0226		0.175 9774	9.920 1145		303	
698	9.744 1485	114	9.824 0390	164	0.175 9610	9.920 1095	50	302	
699	9.744 1599	114	9.824 0554	164	0.175 9446	9.920 1044	51	301	
		113		165			50		
.700	9.744 1712		9.824 0719		0.175 9281	9.920 0994		.300	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.350 — 56°.300

33°.700 — 33°.750

33°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.744 1712		9.824 0719		0.175 9281	9.920 0994		.300	
		114		164			51		
701	9.744 1826		9.824 0883		0.175 9117	9.920 0943		299	
702	9.744 1940	114	9.824 1047	164	0.175 8953	9.920 0893	50	298	
703	9.744 2053	113	9.824 1211	164	0.175 8789	9.920 0842	51	297	
		114		164			50		
704	9.744 2167		9.824 1375		0.175 8625	9.920 0792		296	
705	9.744 2281	114	9.824 1540	165	0.175 8460	9.920 0741	51	295	
706	9.744 2394	113	9.824 1704	164	0.175 8296	9.920 0690	51	294	
		114		164			50		
707	9.744 2508		9.824 1868		0.175 8132	9.920 0640		293	
708	9.744 2621	113	9.824 2032	164	0.175 7968	9.920 0589	51	292	
709	9.744 2735	114	9.824 2196	164	0.175 7804	9.920 0539	50	291	
		114		164			51		
.710	9.744 2849		9.824 2360		0.175 7640	9.920 0488		.290	
		113		165			50		
711	9.744 2962		9.824 2525		0.175 7475	9.920 0438		289	
712	9.744 3076	114	9.824 2689	164	0.175 7311	9.920 0387	51	288	
713	9.744 3189	113	9.824 2853	164	0.175 7147	9.920 0336	51	287	
		114		164			50		
714	9.744 3303		9.824 3017		0.175 6983	9.920 0286		286	
715	9.744 3417	114	9.824 3181	164	0.175 6819	9.920 0235	51	285	
716	9.744 3530	113	9.824 3346	165	0.175 6654	9.920 0185	50	284	
		114		164			51		
717	9.744 3644		9.824 3510		0.175 6490	9.920 0134		283	
718	9.744 3757	113	9.824 3674	164	0.175 6326	9.920 0084	50	282	
719	9.744 3871	114	9.824 3838	164	0.175 6162	9.920 0033	51	281	
		114		164			51		
.720	9.744 3985		9.824 4002		0.175 5998	9.919 9982		.280	
		113		164			50		
721	9.744 4098		9.824 4166		0.175 5834	9.919 9932		279	
722	9.744 4212	114	9.824 4330	164	0.175 5670	9.919 9881	51	278	
723	9.744 4325	113	9.824 4495	165	0.175 5505	9.919 9831	50	277	
		114		164			51		
724	9.744 4439		9.824 4659		0.175 5341	9.919 9780		276	
725	9.744 4552	113	9.824 4823	164	0.175 5177	9.919 9729	51	275	
726	9.744 4666	114	9.824 4987	164	0.175 5013	9.919 9679	50	274	
		113		164			51		
727	9.744 4779		9.824 5151		0.175 4849	9.919 9628		273	
728	9.744 4893	114	9.824 5315	164	0.175 4685	9.919 9578	50	272	
729	9.744 5006	113	9.824 5480	165	0.175 4520	9.919 9527	51	271	
		114		164			51		
.730	9.744 5120		9.824 5644		0.175 4356	9.919 9476		.270	
		114		164			50		
731	9.744 5234		9.824 5808		0.175 4192	9.919 9426		269	
732	9.744 5347	113	9.824 5972	164	0.175 4028	9.919 9375	51	268	
733	9.744 5461	114	9.824 6136	164	0.175 3864	9.919 9325	50	267	
		113		164			51		
734	9.744 5574		9.824 6300		0.175 3700	9.919 9274		266	
735	9.744 5688	114	9.824 6464	164	0.175 3536	9.919 9223	51	265	
736	9.744 5801	113	9.824 6628	164	0.175 3372	9.919 9173	50	264	
		114		165			51		
737	9.744 5915		9.824 6793		0.175 3207	9.919 9122		263	
738	9.744 6028	113	9.824 6957	164	0.175 3043	9.919 9071	51	262	
739	9.744 6142	114	9.824 7121	164	0.175 2879	9.919 9021	50	261	
		113		164			51		
.740	9.744 6255		9.824 7285		0.175 2715	9.919 8970		.260	
		114		164			50		
741	9.744 6369		9.824 7449		0.175 2551	9.919 8920		259	
742	9.744 6482	113	9.824 7613	164	0.175 2387	9.919 8869	51	258	
743	9.744 6595	113	9.824 7777	164	0.175 2223	9.919 8818	51	257	
		114		164			50		
744	9.744 6709		9.824 7941		0.175 2059	9.919 8768		256	
745	9.744 6822	113	9.824 8105	164	0.175 1895	9.919 8717	51	255	
746	9.744 6936	114	9.824 8269	164	0.175 1731	9.919 8666	51	254	
		113		165			50		
747	9.744 7049		9.824 8434		0.175 1566	9.919 8616		253	
748	9.744 7163	114	9.824 8598	164	0.175 1402	9.919 8565	51	252	
749	9.744 7276	113	9.824 8762	164	0.175 1238	9.919 8514	51	251	
		114		164			50		
.750	9.744 7390		9.824 8926		0.175 1074	9.919 8464		.250	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.300 — 56°.250

33°.750 — 33°.800

33°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.744 7390		9.824 8926		0.175 1074	9.919 8464		.250	
		113		164			51		
751	9.744 7503		9.824 9090		0.175 0910	9.919 8413		249	
752	9.744 7617	114	9.824 9254	164	0.175 0746	9.919 8363	50	248	
753	9.744 7730	113	9.824 9418	164	0.175 0582	9.919 8312	51	247	
		113		164			51		
754	9.744 7843		9.824 9582		0.175 0418	9.919 8261		246	
755	9.744 7957	114	9.824 9746	164	0.175 0254	9.919 8211	50	245	
756	9.744 8070	113	9.824 9910	164	0.175 0090	9.919 8160	51	244	
		114		164			51		
757	9.744 8184		9.825 0074		0.174 9926	9.919 8109		243	
758	9.744 8297	113	9.825 0238	164	0.174 9762	9.919 8059	50	242	
759	9.744 8410	113	9.825 0403	165	0.174 9597	9.919 8008	51	241	
		114		164			51		
.760	9.744 8524		9.825 0567		0.174 9433	9.919 7957		.240	
		113		164			50		
761	9.744 8637		9.825 0731		0.174 9269	9.919 7907		239	
762	9.744 8751	114	9.825 0895	164	0.174 9105	9.919 7856	51	238	
763	9.744 8864	113	9.825 1059	164	0.174 8941	9.919 7805	51	237	
		113		164			50		
764	9.744 8977		9.825 1223		0.174 8777	9.919 7755		236	
765	9.744 9091	114	9.825 1387	164	0.174 8613	9.919 7704	51	235	
766	9.744 9204	113	9.825 1551	164	0.174 8449	9.919 7653	51	234	
		114		164			50		
767	9.744 9318		9.825 1715		0.174 8285	9.919 7603		233	
768	9.744 9431	113	9.825 1879	164	0.174 8121	9.919 7552	51	232	
769	9.744 9544	113	9.825 2043	164	0.174 7957	9.919 7501	51	231	
		114		164			51		
.770	9.744 9658		9.825 2207		0.174 7793	9.919 7450		.230	
		113		164			50		
771	9.744 9771		9.825 2371		0.174 7629	9.919 7400		229	
772	9.744 9884	113	9.825 2535	164	0.174 7465	9.919 7349	51	228	
773	9.744 9998	114	9.825 2699	164	0.174 7301	9.919 7298	51	227	
		113		164			50		
774	9.745 0111		9.825 2863		0.174 7137	9.919 7248		226	
775	9.745 0224	113	9.825 3027	164	0.174 6973	9.919 7197	51	225	
776	9.745 0338	114	9.825 3191	164	0.174 6809	9.919 7146	51	224	
		113		164			50		
777	9.745 0451		9.825 3355		0.174 6645	9.919 7096		223	
778	9.745 0564	113	9.825 3519	164	0.174 6481	9.919 7045	51	222	
779	9.745 0678	114	9.825 3683	164	0.174 6317	9.919 6994	51	221	
		113		164			50		
.780	9.745 0791		9.825 3847		0.174 6153	9.919 6944		.220	
		113		164			51		
781	9.745 0904		9.825 4011		0.174 5989	9.919 6893		219	
782	9.745 1018	114	9.825 4175	164	0.174 5825	9.919 6842	51	218	
783	9.745 1131	113	9.825 4339	164	0.174 5661	9.919 6791	51	217	
		113		164			50		
784	9.745 1244		9.825 4503		0.174 5497	9.919 6741		216	
785	9.745 1357	113	9.825 4667	164	0.174 5333	9.919 6690	51	215	
786	9.745 1471	114	9.825 4831	164	0.174 5169	9.919 6639	51	214	
		113		164			50		
787	9.745 1584		9.825 4995		0.174 5005	9.919 6589		213	
788	9.745 1697	113	9.825 5159	164	0.174 4841	9.919 6538	51	212	
789	9.745 1811	114	9.825 5323	164	0.174 4677	9.919 6487	51	211	
		113		164			51		
.790	9.745 1924		9.825 5487		0.174 4513	9.919 6436		.210	
		113		164			50		
791	9.745 2037		9.825 5651		0.174 4349	9.919 6386		209	
792	9.745 2150	113	9.825 5815	164	0.174 4185	9.919 6335	51	208	
793	9.745 2264	114	9.825 5979	164	0.174 4021	9.919 6284	51	207	
		113		164			51		
794	9.745 2377		9.825 6143		0.174 3857	9.919 6233		206	
795	9.745 2490	113	9.825 6307	164	0.174 3693	9.919 6183	50	205	
796	9.745 2603	113	9.825 6471	164	0.174 3529	9.919 6132	51	204	
		114		164			51		
797	9.745 2717		9.825 6635		0.174 3365	9.919 6081		203	
798	9.745 2830	113	9.825 6799	164	0.174 3201	9.919 6031	50	202	
799	9.745 2943	113	9.825 6963	164	0.174 3037	9.919 5980	51	201	
		113		164			51		
.800	9.745 3056		9.825 7127		0.174 2873	9.919 5929		.200	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	165
1	16.5
2	33.0
3	49.5
4	66.0
5	82.5
6	99.0
7	115.5
8	132.0
9	148.5

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.250 — 56°.200

33°.800 — 33°.850

33°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.745 3056		9.825 7127		0.174 2873	9.919 5929		.200	
		114		164			51		
801	9.745 3170		9.825 7291		0.174 2709	9.919 5878		199	
802	9.745 3283	113	9.825 7455	164	0.174 2545	9.919 5828	50	198	
803	9.745 3396	113	9.825 7619	164	0.174 2381	9.919 5777	51	197	
		113		164			51		
804	9.745 3509		9.825 7783		0.174 2217	9.919 5726		196	
805	9.745 3622	113	9.825 7947	164	0.174 2053	9.919 5675	51	195	
806	9.745 3736	114	9.825 8111	164	0.174 1889	9.919 5625	50	194	
		113		164			51		
807	9.745 3849		9.825 8275		0.174 1725	9.919 5574		193	
808	9.745 3962	113	9.825 8439	164	0.174 1561	9.919 5523	51	192	
809	9.745 4075	113	9.825 8603	164	0.174 1397	9.919 5472	51	191	
		113		164			50		
.810	9.745 4188		9.825 8767		0.174 1233	9.919 5422		.190	
		114		164			51		
811	9.745 4302		9.825 8931		0.174 1069	9.919 5371		189	
812	9.745 4415	113	9.825 9095	164	0.174 0905	9.919 5320	51	188	
813	9.745 4528	113	9.825 9259	164	0.174 0741	9.919 5269	51	187	
		113		164			51		
814	9.745 4641		9.825 9423		0.174 0577	9.919 5218		186	
815	9.745 4754	113	9.825 9587	164	0.174 0413	9.919 5168	50	185	
816	9.745 4867	113	9.825 9751	164	0.174 0249	9.919 5117	51	184	
		114		163			51		
817	9.745 4981		9.825 9914		0.174 0086	9.919 5066		183	
818	9.745 5094	113	9.826 0078	164	0.173 9922	9.919 5015	51	182	
819	9.745 5207	113	9.826 0242	164	0.173 9758	9.919 4965	50	181	
		113		164			51		
.820	9.745 5320		9.826 0406		0.173 9594	9.919 4914		.180	
		113		164			51		
821	9.745 5433		9.826 0570		0.173 9430	9.919 4863		179	
822	9.745 5546	113	9.826 0734	164	0.173 9266	9.919 4812	51	178	
823	9.745 5659	113	9.826 0898	164	0.173 9102	9.919 4761	51	177	
		114		164			50		
824	9.745 5773		9.826 1062		0.173 8938	9.919 4711		176	
825	9.745 5886	113	9.826 1226	164	0.173 8774	9.919 4660	51	175	
826	9.745 5999	113	9.826 1390	164	0.173 8610	9.919 4609	51	174	
		113		164			51		
827	9.745 6112		9.826 1554		0.173 8446	9.919 4558		173	
828	9.745 6225	113	9.826 1718	164	0.173 8282	9.919 4508	50	172	
829	9.745 6338	113	9.826 1881	163	0.173 8119	9.919 4457	51	171	
		113		164			51		
.830	9.745 6451		9.826 2045		0.173 7955	9.919 4406		.170	
		113		164			51		
831	9.745 6564		9.826 2209		0.173 7791	9.919 4355		169	
832	9.745 6677	113	9.826 2373	164	0.173 7627	9.919 4304	51	168	
833	9.745 6791	114	9.826 2537	164	0.173 7463	9.919 4254	50	167	
		113		164			51		
834	9.745 6904		9.826 2701		0.173 7299	9.919 4203		166	
835	9.745 7017	113	9.826 2865	164	0.173 7135	9.919 4152	51	165	
836	9.745 7130	113	9.826 3029	164	0.173 6971	9.919 4101	51	164	
		113		164			51		
837	9.745 7243		9.826 3193		0.173 6807	9.919 4050		163	
838	9.745 7356	113	9.826 3356	163	0.173 6644	9.919 3999	51	162	
839	9.745 7469	113	9.826 3520	164	0.173 6480	9.919 3949	50	161	
		113		164			51		
.840	9.745 7582		9.826 3684		0.173 6316	9.919 3898		.160	
		113		164			51		
841	9.745 7695		9.826 3848		0.173 6152	9.919 3847		159	
842	9.745 7808	113	9.826 4012	164	0.173 5988	9.919 3796	51	158	
843	9.745 7921	113	9.826 4176	164	0.173 5824	9.919 3745	51	157	
		113		164			50		
844	9.745 8034		9.826 4340		0.173 5660	9.919 3695		156	
845	9.745 8147	113	9.826 4504	164	0.173 5496	9.919 3644	51	155	
846	9.745 8260	113	9.826 4667	163	0.173 5333	9.919 3593	51	154	
		113		164			51		
847	9.745 8373		9.826 4831		0.173 5169	9.919 3542		153	
848	9.745 8486	113	9.826 4995	164	0.173 5005	9.919 3491	51	152	
849	9.745 8599	113	9.826 5159	164	0.173 4841	9.919 3440	51	151	
		113		164			50		
.850	9.745 8712		9.826 5323		0.173 4677	9.919 3390		.150	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	114
1	11.4
2	22.8
3	34.2
4	45.6
5	57.0
6	68.4
7	79.8
8	91.2
9	102.6

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.200 — 56°.150

33°.850 — 33°.900

33°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.745 8712		9.826 5323		0.173 4677	9.919 3390		.150	
		113		164			51		
851	9.745 8825		9.826 5487		0.173 4513	9.919 3339		149	
852	9.745 8938	113	9.826 5651	164	0.173 4349	9.919 3288	51	148	
853	9.745 9051	113	9.826 5814	163	0.173 4186	9.919 3237	51	147	
		113		164			51		
854	9.745 9164		9.826 5978		0.173 4022	9.919 3186		146	
855	9.745 9277	113	9.826 6142	164	0.173 3858	9.919 3135	51	145	
856	9.745 9390	113	9.826 6306	164	0.173 3694	9.919 3084	51	144	
		113		164			50		
857	9.745 9503		9.826 6470		0.173 3530	9.919 3034		143	
858	9.745 9616	113	9.826 6634	164	0.173 3366	9.919 2983	51	142	
859	9.745 9729	113	9.826 6797	163	0.173 3203	9.919 2932	51	141	
		113		164			51		
.860	9.745 9842		9.826 6961		0.173 3039	9.919 2881		.140	
		113		164			51		
861	9.745 9955		9.826 7125		0.173 2875	9.919 2830		139	
862	9.746 0068	113	9.826 7289	164	0.173 2711	9.919 2779	51	138	
863	9.746 0181	113	9.826 7453	164	0.173 2547	9.919 2728	51	137	
		113		164			50		
864	9.746 0294		9.826 7617		0.173 2383	9.919 2678		136	
865	9.746 0407	113	9.826 7780	163	0.173 2220	9.919 2627	51	135	
866	9.746 0520	113	9.826 7944	164	0.173 2056	9.919 2576	51	134	
		113		164			51		
867	9.746 0633		9.826 8108		0.173 1892	9.919 2525		133	
868	9.746 0746	113	9.826 8272	164	0.173 1728	9.919 2474	51	132	
869	9.746 0859	113	9.826 8436	164	0.173 1564	9.919 2423	51	131	
		113		163			51		
.870	9.746 0972		9.826 8599		0.173 1401	9.919 2372		.130	
		113		164			50		
871	9.746 1085		9.826 8763		0.173 1237	9.919 2322		129	
872	9.746 1198	113	9.826 8927	164	0.173 1073	9.919 2271	51	128	
873	9.746 1311	113	9.826 9091	164	0.173 0909	9.919 2220	51	127	
		112		164			51		
874	9.746 1423		9.826 9255		0.173 0745	9.919 2169		126	
875	9.746 1536	113	9.826 9418	163	0.173 0582	9.919 2118	51	125	
876	9.746 1649	113	9.826 9582	164	0.173 0418	9.919 2067	51	124	
		113		164			51		
877	9.746 1762		9.826 9746		0.173 0254	9.919 2016		123	
878	9.746 1875	113	9.826 9910	164	0.173 0090	9.919 1965	51	122	
879	9.746 1988	113	9.827 0074	164	0.172 9926	9.919 1914	51	121	
		113		163			50		
.880	9.746 2101		9.827 0237		0.172 9763	9.919 1864		.120	
		113		164			51		
881	9.746 2214		9.827 0401		0.172 9599	9.919 1813		119	
882	9.746 2327	113	9.827 0565	164	0.172 9435	9.919 1762	51	118	
883	9.746 2439	112	9.827 0729	164	0.172 9271	9.919 1711	51	117	
		113		163			51		
884	9.746 2552		9.827 0892		0.172 9108	9.919 1660		116	
885	9.746 2665	113	9.827 1056	164	0.172 8944	9.919 1609	51	115	
886	9.746 2778	113	9.827 1220	164	0.172 8780	9.919 1558	51	114	
		113		164			51		
887	9.746 2891		9.827 1384		0.172 8616	9.919 1507		113	
888	9.746 3004	113	9.827 1548	164	0.172 8452	9.919 1456	51	112	
889	9.746 3117	113	9.827 1711	163	0.172 8289	9.919 1405	51	111	
		112		164			51		
.890	9.746 3229		9.827 1875		0.172 8125	9.919 1354		.110	
		113		164			50		
891	9.746 3342		9.827 2039		0.172 7961	9.919 1304		109	
892	9.746 3455	113	9.827 2203	164	0.172 7797	9.919 1253	51	108	
893	9.746 3568	113	9.827 2366	163	0.172 7634	9.919 1202	51	107	
		113		164			51		
894	9.746 3681		9.827 2530		0.172 7470	9.919 1151		106	
895	9.746 3794	113	9.827 2694	164	0.172 7306	9.919 1100	51	105	
896	9.746 3906	112	9.827 2858	164	0.172 7142	9.919 1049	51	104	
		113		163			51		
897	9.746 4019		9.827 3021		0.172 6979	9.919 0998		103	
898	9.746 4132	113	9.827 3185	164	0.172 6815	9.919 0947	51	102	
899	9.746 4245	113	9.827 3349	164	0.172 6651	9.919 0896	51	101	
		113		164			51		
.900	9.746 4358		9.827 3513		0.172 6487	9.919 0845		.100	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	112
1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.150 — 56°.100

33°.900 — 33°.950

33°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.746 4358		9.827 3513		0.172 6487	9.919 0845		.100	
		113		163			51		
901	9.746 4471		9.827 3676		0.172 6324	9.919 0794		099	
902	9.746 4583	112	9.827 3840	164	0.172 6160	9.919 0743	51	098	
903	9.746 4696	113	9.827 4004	164	0.172 5996	9.919 0692	51	097	
		113		163			51		
904	9.746 4809		9.827 4167		0.172 5833	9.919 0641		096	
905	9.746 4922	113	9.827 4331	164	0.172 5669	9.919 0591	50	095	
906	9.746 5034	112	9.827 4495	164	0.172 5505	9.919 0540	51	094	
		113		164			51		
907	9.746 5147		9.827 4659		0.172 5341	9.919 0489		093	
908	9.746 5260	113	9.827 4822	163	0.172 5178	9.919 0438	51	092	
909	9.746 5373	113	9.827 4986	164	0.172 5014	9.919 0387	51	091	
		112		164			51		
.910	9.746 5485		9.827 5150		0.172 4850	9.919 0336		.090	
		113		163			51		
911	9.746 5598		9.827 5313		0.172 4687	9.919 0285		089	
912	9.746 5711	113	9.827 5477	164	0.172 4523	9.919 0234	51	088	
913	9.746 5824	113	9.827 5641	164	0.172 4359	9.919 0183	51	087	
		112		164			51		
914	9.746 5936		9.827 5805		0.172 4195	9.919 0132		086	
915	9.746 6049	113	9.827 5968	163	0.172 4032	9.919 0081	51	085	
916	9.746 6162	113	9.827 6132	164	0.172 3868	9.919 0030	51	084	
		113		164			51		
917	9.746 6275		9.827 6296		0.172 3704	9.918 9979		083	
918	9.746 6387	112	9.827 6459	163	0.172 3541	9.918 9928	51	082	
919	9.746 6500	113	9.827 6623	164	0.172 3377	9.918 9877	51	081	
		113		164			51		
.920	9.746 6613		9.827 6787		0.172 3213	9.918 9826		.080	
		113		163			51		
921	9.746 6726		9.827 6950		0.172 3050	9.918 9775		079	
922	9.746 6838	112	9.827 7114	164	0.172 2886	9.918 9724	51	078	
923	9.746 6951	113	9.827 7278	164	0.172 2722	9.918 9673	51	077	
		113		163			51		
924	9.746 7064		9.827 7441		0.172 2559	9.918 9622		076	
925	9.746 7176	112	9.827 7605	164	0.172 2395	9.918 9571	51	075	
926	9.746 7289	113	9.827 7769	164	0.172 2231	9.918 9520	51	074	
		113		163			51		
927	9.746 7402		9.827 7932		0.172 2068	9.918 9469		073	
928	9.746 7514	112	9.827 8096	164	0.172 1904	9.918 9418	51	072	
929	9.746 7627	113	9.827 8260	164	0.172 1740	9.918 9367	51	071	
		113		164			51		
.930	9.746 7740		9.827 8424		0.172 1576	9.918 9316		.070	
		112		163			51		
931	9.746 7852		9.827 8587		0.172 1413	9.918 9265		069	
932	9.746 7965	113	9.827 8751	164	0.172 1249	9.918 9214	51	068	
933	9.746 8078	113	9.827 8914	163	0.172 1086	9.918 9163	51	067	
		112		164			51		
934	9.746 8190		9.827 9078		0.172 0922	9.918 9112		066	
935	9.746 8303	113	9.827 9242	164	0.172 0758	9.918 9061	51	065	
936	9.746 8416	113	9.827 9405	163	0.172 0595	9.918 9010	51	064	
		112		164			51		
937	9.746 8528		9.827 9569		0.172 0431	9.918 8959		063	
938	9.746 8641	113	9.827 9733	164	0.172 0267	9.918 8908	51	062	
939	9.746 8754	113	9.827 9896	163	0.172 0104	9.918 8857	51	061	
		112		164			51		
.940	9.746 8866		9.828 0060		0.171 9940	9.918 8806		.060	
		113		164			51		
941	9.746 8979		9.828 0224		0.171 9776	9.918 8755		059	
942	9.746 9092	113	9.828 0387	163	0.171 9613	9.918 8704	51	058	
943	9.746 9204	112	9.828 0551	164	0.171 9449	9.918 8653	51	057	
		113		164			51		
944	9.746 9317		9.828 0715		0.171 9285	9.918 8602		056	
945	9.746 9429	112	9.828 0878	163	0.171 9122	9.918 8551	51	055	
946	9.746 9542	113	9.828 1042	164	0.171 8958	9.918 8500	51	054	
		113		163			51		
947	9.746 9655		9.828 1205		0.171 8795	9.918 8449		053	
948	9.746 9767	112	9.828 1369	164	0.171 8631	9.918 8398	51	052	
949	9.746 9880	113	9.828 1533	164	0.171 8467	9.918 8347	51	051	
		112		163			51		
.950	9.746 9992		9.828 1696		0.171 8304	9.918 8296		.050	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	112
1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

	51	50
1	5.1	5.0
2	10.2	10.0
3	15.3	15.0
4	20.4	20.0
5	25.5	25.0
6	30.6	30.0
7	35.7	35.0
8	40.8	40.0
9	45.9	45.0

56°.100 — 56°.050

33°.950 — 34°.000

33°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.746 9992		9.828 1696		0.171 8304	9.918 8296		.050	
		113		164			51		
951	9.747 0105		9.828 1860		0.171 8140	9.918 8245		049	
952	9.747 0218	113	9.828 2024	164	0.171 7976	9.918 8194	51	048	
953	9.747 0330	112	9.828 2187	163	0.171 7813	9.918 8143	51	047	
		113		164			51		
954	9.747 0443		9.828 2351		0.171 7649	9.918 8092		046	
955	9.747 0555	112	9.828 2514	163	0.171 7486	9.918 8041	51	045	
956	9.747 0668	113	9.828 2678	164	0.171 7322	9.918 7990	51	044	
		112		164			51		
957	9.747 0780		9.828 2842		0.171 7158	9.918 7939		043	
958	9.747 0893	113	9.828 3005	163	0.171 6995	9.918 7888	51	042	
959	9.747 1006	113	9.828 3169	164	0.171 6831	9.918 7837	51	041	
		112		163			51		
.960	9.747 1118		9.828 3332		0.171 6668	9.918 7786		.040	
		113		164			51		
961	9.747 1231		9.828 3496		0.171 6504	9.918 7735		039	
962	9.747 1343	112	9.828 3660	164	0.171 6340	9.918 7684	51	038	
963	9.747 1456	113	9.828 3823	163	0.171 6177	9.918 7633	51	037	
		112		164			52		
964	9.747 1568		9.828 3987		0.171 6013	9.918 7581		036	
965	9.747 1681	113	9.828 4150	163	0.171 5850	9.918 7530	51	035	
966	9.747 1793	112	9.828 4314	164	0.171 5686	9.918 7479	51	034	
		113		164			51		
967	9.747 1906		9.828 4478		0.171 5522	9.918 7428		033	
968	9.747 2018	112	9.828 4641	163	0.171 5359	9.918 7377	51	032	
969	9.747 2131	113	9.828 4805	164	0.171 5195	9.918 7326	51	031	
		112		163			51		
.970	9.747 2243		9.828 4968		0.171 5032	9.918 7275		.030	
		113		164			51		
971	9.747 2356		9.828 5132		0.171 4868	9.918 7224		029	
972	9.747 2468	112	9.828 5295	163	0.171 4705	9.918 7173	51	028	
973	9.747 2581	113	9.828 5459	164	0.171 4541	9.918 7122	51	027	
		112		164			51		
974	9.747 2693		9.828 5623		0.171 4377	9.918 7071		026	
975	9.747 2806	113	9.828 5786	163	0.171 4214	9.918 7020	51	025	
976	9.747 2918	112	9.828 5950	164	0.171 4050	9.918 6969	51	024	
		113		163			51		
977	9.747 3031		9.828 6113		0.171 3887	9.918 6918		023	
978	9.747 3143	112	9.828 6277	164	0.171 3723	9.918 6866	52	022	
979	9.747 3256	113	9.828 6440	163	0.171 3560	9.918 6815	51	021	
		112		164			51		
.980	9.747 33 68		9.828 6604		0.171 3396	9.918 6764		.020	
		113		163			51		
981	9.747 3481		9.828 6767		0.171 3233	9.918 6713		019	
982	9.747 3593	112	9.828 6931	164	0.171 3069	9.918 6662	51	018	
983	9.747 3706	113	9.828 7094	163	0.171 2906	9.918 6611	51	017	
		112		164			51		
984	9.747 3818		9.828 7258		0.171 2742	9.918 6560		016	
985	9.747 3930	112	9.828 7422	164	0.171 2578	9.918 6509	51	015	
986	9.747 4043	113	9.828 7585	163	0.171 2415	9.918 6458	51	014	
		112		164			51		
987	9.747 4155		9.828 7749		0.171 2251	9.918 6407		013	
988	9.747 4268	113	9.828 7912	163	0.171 2088	9.918 6356	51	012	
989	9.747 4380	112	9.828 8076	164	0.171 1924	9.918 6304	52	011	
		113		163			51		
.990	9.747 4493		9.828 8239		0.171 1761	9.918 6253		.010	
		112		164			51		
991	9.747 4605		9.828 8403		0.171 1597	9.918 6202		009	
992	9.747 4717	112	9.828 8566	163	0.171 1434	9.918 6151	51	008	
993	9.747 4830	113	9.828 8730	164	0.171 1270	9.918 6100	51	007	
		112		163			51		
994	9.747 4942		9.828 8893		0.171 1107	9.918 6049		006	
995	9.747 5055	113	9.828 9057	164	0.171 0943	9.918 5998	51	005	
996	9.747 5167	112	9.828 9220	163	0.171 0780	9.918 5947	51	004	
		112		164			51		
997	9.747 5279		9.828 9384		0.171 0616	9.918 5896		003	
998	9.747 5392	113	9.828 9547	163	0.171 0453	9.918 5844	52	002	
999	9.747 5504	112	9.828 9711	164	0.171 0289	9.918 5793	51	001	
		113		163			51		
*.000	9.747 5617		9.828 9874		0.171 0126	9.918 5742		.000	
	cos	d	cotg	d	tang	sin	d	56°	P.P.

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	112
1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

56°.050 — 56°.000

34°.000 — 34°.050

34°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.747 5617		9.828 9874		0.171 0126	9.918 5742		*000	
		112		164			51		
001	9.747 5729		9.829 0038		0.170 9962	9.918 5691		999	
002	9.747 5841	112	9.829 0201	163	0.170 9799	9.918 5640	51	998	
003	9.747 5954	113	9.829 0365	164	0.170 9635	9.918 5589	51	997	
		112		163			51		
004	9.747 6066		9.829 0528		0.170 9472	9.918 5538		996	
005	9.747 6178	112	9.829 0692	164	0.170 9308	9.918 5486	52	995	
006	9.747 6291	113	9.829 0855	163	0.170 9145	9.918 5435	51	994	
		112		164			51		
007	9.747 6403		9.829 1019		0.170 8981	9.918 5384		993	
008	9.747 6515	112	9.829 1182	163	0.170 8818	9.918 5333	51	992	
009	9.747 6628	113	9.829 1346	164	0.170 8654	9.918 5282	51	991	
		112		163			51		
.010	9.747 6740		9.829 1509		0.170 8491	9.918 5231		.990	
		112		164			51		
011	9.747 6852		9.829 1673		0.170 8327	9.918 5180		989	
012	9.747 6965	113	9.829 1836	163	0.170 8164	9.918 5128	52	988	
013	9.747 7077	112	9.829 2000	164	0.170 8000	9.918 5077	51	987	
		112		163			51		
014	9.747 7189		9.829 2163		0.170 7837	9.918 5026		986	
015	9.747 7302	113	9.829 2327	164	0.170 7673	9.918 4975	51	985	
016	9.747 7414	112	9.829 2490	163	0.170 7510	9.918 4924	51	984	
		112		164			51		
017	9.747 7526		9.829 2654		0.170 7346	9.918 4873		983	
018	9.747 7639	113	9.829 2817	163	0.170 7183	9.918 4822	51	982	
019	9.747 7751	112	9.829 2981	164	0.170 7019	9.918 4770	52	981	
		112		163			51		
.020	9.747 7863		9.829 3144		0.170 6856	9.918 4719		.980	
		112		163			51		
021	9.747 7975		9.829 3307		0.170 6693	9.918 4668		979	
022	9.747 8088	113	9.829 3471	164	0.170 6529	9.918 4617	51	978	
023	9.747 8200	112	9.829 3634	163	0.170 6366	9.918 4566	51	977	
		112		164			51		
024	9.747 8312		9.829 3798		0.170 6202	9.918 4515		976	
025	9.747 8425	113	9.829 3961	163	0.170 6039	9.918 4463	52	975	
026	9.747 8537	112	9.829 4125	164	0.170 5875	9.918 4412	51	974	
		112		163			51		
027	9.747 8649		9.829 4288		0.170 5712	9.918 4361		973	
028	9.747 8761	112	9.829 4452	164	0.170 5548	9.918 4310	51	972	
029	9.747 8874	113	9.829 4615	163	0.170 5385	9.918 4259	51	971	
		112		163			52		
.030	9.747 8986		9.829 4778		0.170 5222	9.918 4207		.970	
		112		164			51		
031	9.747 9098		9.829 4942		0.170 5058	9.918 4156		969	
032	9.747 9210	112	9.829 5105	163	0.170 4895	9.918 4105	51	968	
033	9.747 9323	113	9.829 5269	164	0.170 4731	9.918 4054	51	967	
		112		163			51		
034	9.747 9435		9.829 5432		0.170 4568	9.918 4003		966	
035	9.747 9547	112	9.829 5596	164	0.170 4404	9.918 3952	51	965	
036	9.747 9659	112	9.829 5759	163	0.170 4241	9.918 3900	52	964	
		113		163			51		
037	9.747 9772		9.829 5922		0.170 4078	9.918 3849		963	
038	9.747 9884	112	9.829 6086	164	0.170 3914	9.918 3798	51	962	
039	9.747 9996	112	9.829 6249	163	0.170 3751	9.918 3747	51	961	
		112		164			51		
.040	9.748 0108		9.829 6413		0.170 3587	9.918 3696		.960	
		112		163			52		
041	9.748 0220		9.829 6576		0.170 3424	9.918 3644		959	
042	9.748 0333	113	9.829 6739	163	0.170 3261	9.918 3593	51	958	
043	9.748 0445	112	9.829 6903	164	0.170 3097	9.918 3542	51	957	
		112		163			51		
044	9.748 0557		9.829 7066		0.170 2934	9.918 3491		956	
045	9.748 0669	112	9.829 7230	164	0.170 2770	9.918 3439	52	955	
046	9.748 0781	112	9.829 7393	163	0.170 2607	9.918 3388	51	954	
		113		163			51		
047	9.748 0894		9.829 7556		0.170 2444	9.918 3337		953	
048	9.748 1006	112	9.829 7720	164	0.170 2280	9.918 3286	51	952	
049	9.748 1118	112	9.829 7883	163	0.170 2117	9.918 3235	51	951	
		112		164			52		
.050	9.748 1230		9.829 8047		0.170 1953	9.918 3183		.950	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	112
1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

56°.000 — 55°.950

34°.050 — 34°.100

34°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.748 1230		9.829 8047		0.170 1953	9.918 3183		**.950**	
		112		163			51		
051	9.748 1342		9.829 8210		0.170 1790	9.918 3132		949	
052	9.748 1454	112	9.829 8373	163	0.170 1627	9.918 3081	51	948	
053	9.748 1567	113	9.829 8537	164	0.170 1463	9.918 3030	51	947	
		112		163			52		
054	9.748 1679		9.829 8700		0.170 1300	9.918 2978		946	
055	9.748 1791	112	9.829 8864	164	0.170 1136	9.918 2927	51	945	
056	9.748 1903	112	9.829 9027	163	0.170 0973	9.918 2876	51	944	
		112		163			51		
057	9.748 2015		9.829 9190		0.170 0810	9.918 2825		943	
058	9.748 2127	112	9.829 9354	164	0.170 0646	9.918 2774	51	942	
059	9.748 2239	112	9.829 9517	163	0.170 0483	9.918 2722	52	941	
		112		163			51		
.060	9.748 2351		9.829 9680		0.170 0320	9.918 2671		**.940**	
		113		164			51		
061	9.748 2464		9.829 9844		0.170 0156	9.918 2620		939	
062	9.748 2576	112	9.830 0007	163	0.169 9993	9.918 2569	51	938	
063	9.748 2688	112	9.830 0171	164	0.169 9829	9.918 2517	52	937	
		112		163			51		
064	9.748 2800		9.830 0334		0.169 9666	9.918 2466		936	
065	9.748 2912	112	9.830 0497	163	0.169 9503	9.918 2415	51	935	
066	9.748 3024	112	9.830 0661	164	0.169 9339	9.918 2364	51	934	
		112		163			52		
067	9.748 3136		9.830 0824		0.169 9176	9.918 2312		933	
068	9.748 3248	112	9.830 0987	163	0.169 9013	9.918 2261	51	932	
069	9.748 3360	112	9.830 1151	164	0.169 8849	9.918 2210	51	931	
		112		163			51		
.070	9.748 3472		9.830 1314		0.169 8686	9.918 2159		**.930**	
		113		163			52		
071	9.748 3585		9.830 1477		0.169 8523	9.918 2107		929	
072	9.748 3697	112	9.830 1641	164	0.169 8359	9.918 2056	51	928	
073	9.748 3809	112	9.830 1804	163	0.169 8196	9.918 2005	51	927	
		112		163			52		
074	9.748 3921		9.830 1967		0.169 8033	9.918 1953		926	
075	9.748 4033	112	9.830 2131	164	0.169 7869	9.918 1902	51	925	
076	9.748 4145	112	9.830 2294	163	0.169 7706	9.918 1851	51	924	
		112		163			51		
077	9.748 4257		9.830 2457		0.169 7543	9.918 1800		923	
078	9.748 4369	112	9.830 2621	164	0.169 7379	9.918 1748	52	922	
079	9.748 4481	112	9.830 2784	163	0.169 7216	9.918 1697	51	921	
		112		163			51		
.080	9.748 4593		9.830 2947		0.169 7053	9.918 1646		**.920**	
		112		164			51		
081	9.748 4705		9.830 3111		0.169 6889	9.918 1595		919	
082	9.748 4817	112	9.830 3274	163	0.169 6726	9.918 1543	52	918	
083	9.748 4929	112	9.830 3437	163	0.169 6563	9.918 1492	51	917	
		112		164			51		
084	9.748 5041		9.830 3601		0.169 6399	9.918 1441		916	
085	9.748 5153	112	9.830 3764	163	0.169 6236	9.918 1389	52	915	
086	9.748 5265	112	9.830 3927	163	0.169 6073	9.918 1338	51	914	
		112		163			51		
087	9.748 5377		9.830 4090		0.169 5910	9.918 1287		913	
088	9.748 5489	112	9.830 4254	164	0.169 5746	9.918 1236	51	912	
089	9.748 5601	112	9.830 4417	163	0.169 5583	9.918 1184	52	911	
		112		163			51		
.090	9.748 5713		9.830 4580		0.169 5420	9.918 1133		**.910**	
		112		164			51		
091	9.748 5825		9.830 4744		0.169 5256	9.918 1082		909	
092	9.748 5937	112	9.830 4907	163	0.169 5093	9.918 1030	52	908	
093	9.748 6049	112	9.830 5070	163	0.169 4930	9.918 0979	51	907	
		112		164			51		
094	9.748 6161		9.830 5234		0.169 4766	9.918 0928		906	
095	9.748 6273	112	9.830 5397	163	0.169 4603	9.918 0876	52	905	
096	9.748 6385	112	9.830 5560	163	0.169 4440	9.918 0825	51	904	
		112		163			51		
097	9.748 6497		9.830 5723		0.169 4277	9.918 0774		903	
098	9.748 6609	112	9.830 5887	164	0.169 4113	9.918 0722	52	902	
099	9.748 6721	112	9.830 6050	163	0.169 3950	9.918 0671	51	901	
		112		163			51		
.100	9.748 6833		9.830 6213		0.169 3787	9.918 0620		**.900**	
	cos	d	cotg	d	tang	sin	d	**55°**	P.P.

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	113
1	11.3
2	22.6
3	33.9
4	45.2
5	56.5
6	67.8
7	79.1
8	90.4
9	101.7

	112
1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

55°.950 — 55°.900

34°.100 — 34°.150

34°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.748 6833		9.830 6213		0.169 3787	9.918 0620		.900	
		112		163			52		
101	9.748 6945		9.830 6376		0.169 3624	9.918 0568		899	
102	9.748 7057	112	9.830 6540	164	0.169 3460	9.918 0517	51	898	164
103	9.748 7169	112	9.830 6703	163	0.169 3297	9.918 0466	51	897	1 16.4
104	9.748 7281	112	9.830 6866	163	0.169 3134	9.918 0415	51	896	2 32.8
105	9.748 7393	112	9.830 7030	164	0.169 2970	9.918 0363	52	895	3 49.2
106	9.748 7505	112	9.830 7193	163	0.169 2807	9.918 0312	51	894	4 65.6
107	9.748 7617	112	9.830 7356	163	0.169 2644	9.918 0261	51	893	5 82.0
108	9.748 7729	112	9.830 7519	163	0.169 2481	9.918 0209	52	892	6 98.4
109	9.748 7840	111	9.830 7683	164	0.169 2317	9.918 0158	51	891	7 114.8
.110	9.748 7952	112	9.830 7846	163	0.169 2154	9.918 0107	51	.890	8 131.2
		112		163			52		9 147.6
111	9.748 8064		9.830 8009		0.169 1991	9.918 0055		889	
112	9.748 8176	112	9.830 8172	163	0.169 1828	9.918 0004	51	888	163
113	9.748 8288	112	9.830 8336	164	0.169 1664	9.917 9953	51	887	1 16.3
114	9.748 8400	112	9.830 8499	163	0.169 1501	9.917 9901	52	886	2 32.6
115	9.748 8512	112	9.830 8662	163	0.169 1338	9.917 9850	51	885	3 48.9
116	9.748 8624	112	9.830 8825	163	0.169 1175	9.917 9798	52	884	4 65.2
117	9.748 8736	112	9.830 8989	164	0.169 1011	9.917 9747	51	883	5 81.5
118	9.748 8848	112	9.830 9152	163	0.169 0848	9.917 9696	51	882	6 97.8
119	9.748 8959	111	9.830 9315	163	0.169 0685	9.917 9644	52	881	7 114.1
.120	9.748 9071	112	9.830 9478	163	0.169 0522	9.917 9593	51	.880	8 130.4
		112		163			51		9 146.7
121	9.748 9183		9.830 9641		0.169 0359	9.917 9542		879	
122	9.748 9295	112	9.830 9805	164	0.169 0195	9.917 9490	52	878	112
123	9.748 9407	112	9.830 9968	163	0.169 0032	9.917 9439	51	877	1 11.2
124	9.748 9519	112	9.831 0131	163	0.168 9869	9.917 9388	51	876	2 22.4
125	9.748 9631	112	9.831 0294	163	0.168 9706	9.917 9336	52	875	3 33.6
126	9.748 9742	111	9.831 0458	164	0.168 9542	9.917 9285	51	874	4 44.8
127	9.748 9854	112	9.831 0621	163	0.168 9379	9.917 9233	52	873	5 56.0
128	9.748 9966	112	9.831 0784	163	0.168 9216	9.917 9182	51	872	6 67.2
129	9.749 0078	112	9.831 0947	163	0.168 9053	9.917 9131	51	871	7 78.4
.130	9.749 0190	112	9.831 1110	163	0.168 8890	9.917 9079	52	.870	8 89.6
		112		164			51		9 100.8
131	9.749 0302		9.831 1274		0.168 8726	9.917 9028		869	
132	9.749 0413	111	9.831 1437	163	0.168 8563	9.917 8977	51	868	111
133	9.749 0525	112	9.831 1600	163	0.168 8400	9.917 8925	52	867	1 11.1
134	9.749 0637	112	9.831 1763	163	0.168 8237	9.917 8874	51	866	2 22.2
135	9.749 0749	112	9.831 1926	163	0.168 8074	9.917 8822	52	865	3 33.3
136	9.749 0861	112	9.831 2090	164	0.168 7910	9.917 8771	51	864	4 44.4
137	9.749 0972	111	9.831 2253	163	0.168 7747	9.917 8720	51	863	5 55.5
138	9.749 1084	112	9.831 2416	163	0.168 7584	9.917 8668	52	862	6 66.6
139	9.749 1196	112	9.831 2579	163	0.168 7421	9.917 8617	51	861	7 77.7
.140	9.749 1308	112	9.831 2742	163	0.168 7258	9.917 8565	52	.860	8 88.8
		112		164			51		9 99.9
141	9.749 1420		9.831 2906		0.168 7094	9.917 8514		859	
142	9.749 1531	111	9.831 3069	163	0.168 6931	9.917 8463	51	858	52 51
143	9.749 1643	112	9.831 3232	163	0.168 6768	9.917 8411	52	857	1 5.2 5.1
144	9.749 1755	112	9.831 3395	163	0.168 6605	9.917 8360	51	856	2 10.4 10.2
145	9.749 1867	112	9.831 3558	163	0.168 6442	9.917 8308	52	855	3 15.6 15.3
146	9.749 1978	111	9.831 3721	163	0.168 6279	9.917 8257	51	854	4 20.8 20.4
147	9.749 2090	112	9.831 3885	164	0.168 6115	9.917 8206	51	853	5 26.0 25.5
148	9.749 2202	112	9.831 4048	163	0.168 5952	9.917 8154	52	852	6 31.2 30.6
149	9.749 2314	112	9.831 4211	163	0.168 5789	9.917 8103	51	851	7 36.4 35.7
.150	9.749 2425	111	9.831 4374	163	0.168 5626	9.917 8051	52	.850	8 41.6 40.8
									9 46.8 45.9
	cos	d	cotg	d	tang	sin	d	55°	P.P.

55°.900 — 55°.850

34°.150 — 34°.200

34°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.749 2425		9.831 4374		0.168 5626	9.917 8051		.850	
		112		163			51		
151	9.749 2537		9.831 4537		0.168 5463	9.917 8000		849	
152	9.749 2649	112	9.831 4700	163	0.168 5300	9.917 7949	51	848	
153	9.749 2761	112	9.831 4864	164	0.168 5136	9.917 7897	52	847	
		111		163			51		
154	9.749 2872		9.831 5027		0.168 4973	9.917 7846		846	
155	9.749 2984	112	9.831 5190	163	0.168 4810	9.917 7794	52	845	
156	9.749 3096	112	9.831 5353	163	0.168 4647	9.917 7743	51	844	
		112		163			52		
157	9.749 3208		9.831 5516		0.168 4484	9.917 7691		843	
158	9.749 3319	111	9.831 5679	163	0.168 4321	9.917 7640	51	842	
159	9.749 3431	112	9.831 5842	163	0.168 4158	9.917 7589	51	841	
		112		164			52		
.160	9.749 3543		9.831 6006		0.168 3994	9.917 7537		.840	
		111		163			51		
161	9.749 3654		9.831 6169		0.168 3831	9.917 7486		839	
162	9.749 3766	112	9.831 6332	163	0.168 3668	9.917 7434	52	838	
163	9.749 3878	112	9.831 6495	163	0.168 3505	9.917 7383	51	837	
		111		163			52		
164	9.749 3989		9.831 6658		0.168 3342	9.917 7331		836	
165	9.749 4101	112	9.831 6821	163	0.168 3179	9.917 7280	51	835	
166	9.749 4213	112	9.831 6984	163	0.168 3016	9.917 7229	51	834	
		112		163			52		
167	9.749 4325		9.831 7147		0.168 2853	9.917 7177		833	
168	9.749 4436	111	9.831 7311	164	0.168 2689	9.917 7126	51	832	
169	9.749 4548	112	9.831 7474	163	0.168 2526	9.917 7074	52	831	
		112		163			51		
.170	9.749 4660		9.831 7637		0.168 2363	9.917 7023		.830	
		111		163			52		
171	9.749 4771		9.831 7800		0.168 2200	9.917 6971		829	
172	9.749 4883	112	9.831 7963	163	0.168 2037	9.917 6920	51	828	
173	9.749 4994	111	9.831 8126	163	0.168 1874	9.917 6868	52	827	
		112		163			51		
174	9.749 5106		9.831 8289		0.168 1711	9.917 6817		826	
175	9.749 5218	112	9.831 8452	163	0.168 1548	9.917 6765	52	825	
176	9.749 5329	111	9.831 8615	163	0.168 1385	9.917 6714	51	824	
		112		164			52		
177	9.749 5441		9.831 8779		0.168 1221	9.917 6662		823	
178	9.749 5553	112	9.831 8942	163	0.168 1058	9.917 6611	51	822	
179	9.749 5664	111	9.831 9105	163	0.168 0895	9.917 6560	51	821	
		112		163			52		
.180	9.749 5776		9.831 9268		0.168 0732	9.917 6508		.820	
		112		163			51		
181	9.749 5888		9.831 9431		0.168 0569	9.917 6457		819	
182	9.749 5999	111	9.831 9594	163	0.168 0406	9.917 6405	52	818	
183	9.749 6111	112	9.831 9757	163	0.168 0243	9.917 6354	51	817	
		111		163			52		
184	9.749 6222		9.831 9920		0.168 0080	9.917 6302		816	
185	9.749 6334	112	9.832 0083	163	0.167 9917	9.917 6251	51	815	
186	9.749 6446	112	9.832 0246	163	0.167 9754	9.917 6199	52	814	
		111		163			51		
187	9.749 6557		9.832 0409		0.167 9591	9.917 6148		813	
188	9.749 6669	112	9.832 0572	163	0.167 9428	9.917 6096	52	812	
189	9.749 6780	111	9.832 0736	164	0.167 9264	9.917 6045	51	811	
		112		163			52		
.190	9.749 6892		9.832 0899		0.167 9101	9.917 5993		.810	
		111		163			51		
191	9.749 7003		9.832 1062		0.167 8938	9.917 5942		809	
192	9.749 7115	112	9.832 1225	163	0.167 8775	9.917 5890	52	808	
193	9.749 7227	112	9.832 1388	163	0.167 8612	9.917 5839	51	807	
		111		163			52		
194	9.749 7338		9.832 1551		0.167 8449	9.917 5787		806	
195	9.749 7450	112	9.832 1714	163	0.167 8286	9.917 5736	51	805	
196	9.749 7561	111	9.832 1877	163	0.167 8123	9.917 5684	52	804	
		112		163			51		
197	9.749 7673		9.832 2040		0.167 7960	9.917 5633		803	
198	9.749 7784	111	9.832 2203	163	0.167 7797	9.917 5581	52	802	
199	9.749 7896	112	9.832 2366	163	0.167 7634	9.917 5530	51	801	
		111		163			52		
.200	9.749 8007		9.832 2529		0.167 7471	9.917 5478		.800	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	164
1	16.4
2	32.8
3	49.2
4	65.6
5	82.0
6	98.4
7	114.8
8	131.2
9	147.6

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	112
1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

	111
1	11.1
2	22.2
3	33.3
4	44.4
5	55.5
6	66.6
7	77.7
8	88.8
9	99.9

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

55°.850 — 55°.800

34°.200 — 34°.250

34°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.749 8007		9.832 2529		0.167 7471	9.917 5478		.800	
		112		163			51		
201	9.749 8119		9.832 2692		0.167 7308	9.917 5427		799	
		111		163			52		
202	9.749 8230		9.832 2855		0.167 7145	9.917 5375		798	
		112		163			51		
203	9.749 8342		9.832 3018		0.167 6982	9.917 5324		797	
		112		163			52		
204	9.749 8454		9.832 3181		0.167 6819	9.917 5272		796	
		111		163			51		
205	9.749 8565		9.832 3344		0.167 6656	9.917 5221		795	
		112		163			52		
206	9.749 8677		9.832 3507		0.167 6493	9.917 5169		794	
		111		163			51		
207	9.749 8788		9.832 3670		0.167 6330	9.917 5118		793	
		112		164			52		
208	9.749 8900		9.832 3834		0.167 6166	9.917 5066		792	
		111		163			51		
209	9.749 9011		9.832 3997		0.167 6003	9.917 5015		791	
		112		163			52		
.210	9.749 9123		9.832 4160		0.167 5840	9.917 4963		.790	
		111		163			52		
211	9.749 9234		9.832 4323		0.167 5677	9.917 4911		789	
		112		163			51		
212	9.749 9346		9.832 4486		0.167 5514	9.917 4860		788	
		111		163			52		
213	9.749 9457		9.832 4649		0.167 5351	9.917 4808		787	
		111		163			51		
214	9.749 9568		9.832 4812		0.167 5188	9.917 4757		786	
		112		163			52		
215	9.749 9680		9.832 4975		0.167 5025	9.917 4705		785	
		111		163			51		
216	9.749 9791		9.832 5138		0.167 4862	9.917 4654		784	
		112		163			52		
217	9.749 9903		9.832 5301		0.167 4699	9.917 4602		783	
		111		163			51		
218	9.750 0014		9.832 5464		0.167 4536	9.917 4551		782	
		112		163			52		
219	9.750 0126		9.832 5627		0.167 4373	9.917 4499		781	
		111		163			51		
.220	9.750 0237		9.832 5790		0.167 4210	9.917 4448		.780	
		112		163			52		
221	9.750 0349		9.832 5953		0.167 4047	9.917 4396		779	
		111		163			52		
222	9.750 0460		9.832 6116		0.167 3884	9.917 4344		778	
		112		163			51		
223	9.750 0572		9.832 6279		0.167 3721	9.917 4293		777	
		111		163			52		
224	9.750 0683		9.832 6442		0.167 3558	9.917 4241		776	
		111		163			51		
225	9.750 0794		9.832 6605		0.167 3395	9.917 4190		775	
		112		163			52		
226	9.750 0906		9.832 6768		0.167 3232	9.917 4138		774	
		111		163			51		
227	9.750 1017		9.832 6931		0.167 3069	9.917 4087		773	
		112		163			52		
228	9.750 1129		9.832 7094		0.167 2906	9.917 4035		772	
		111		163			51		
229	9.750 1240		9.832 7257		0.167 2743	9.917 3984		771	
		112		163			52		
.230	9.750 1352		9.832 7420		0.167 2580	9.917 3932		.770	
		111		163			52		
231	9.750 1463		9.832 7583		0.167 2417	9.917 3880		769	
		111		163			51		
232	9.750 1574		9.832 7746		0.167 2254	9.917 3829		768	
		112		163			52		
233	9.750 1686		9.832 7909		0.167 2091	9.917 3777		767	
		111		163			51		
234	9.750 1797		9.832 8072		0.167 1928	9.917 3726		766	
		112		162			52		
235	9.750 1909		9.832 8234		0.167 1766	9.917 3674		765	
		111		163			52		
236	9.750 2020		9.832 8397		0.167 1603	9.917 3622		764	
		111		163			51		
237	9.750 2131		9.832 8560		0.167 1440	9.917 3571		763	
		112		163			52		
238	9.750 2243		9.832 8723		0.167 1277	9.917 3519		762	
		111		163			51		
239	9.750 2354		9.832 8886		0.167 1114	9.917 3468		761	
		111		163			52		
.240	9.750 2465		9.832 9049		0.167 0951	9.917 3416		.760	
		112		163			51		
241	9.750 2577		9.832 9212		0.167 0788	9.917 3365		759	
		111		163			52		
242	9.750 2688		9.832 9375		0.167 0625	9.917 3313		758	
		112		163			52		
243	9.750 2800		9.832 9538		0.167 0462	9.917 3261		757	
		111		163			51		
244	9.750 2911		9.832 9701		0.167 0299	9.917 3210		756	
		111		163			52		
245	9.750 3022		9.832 9864		0.167 0136	9.917 3158		755	
		112		163			51		
246	9.750 3134		9.833 0027		0.166 9973	9.917 3107		754	
		111		163			52		
247	9.750 3245		9.833 0190		0.166 9810	9.917 3055		753	
		111		163			52		
248	9.750 3356		9.833 0353		0.166 9647	9.917 3003		752	
		112		163			51		
249	9.750 3468		9.833 0516		0.166 9484	9.917 2952		751	
		111		163			52		
.250	9.750 3579		9.833 0679		0.166 9321	9.917 2900		.750	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	164	163
1	16.4	16.3
2	32.8	32.6
3	49.2	48.9
4	65.6	65.2
5	82.0	81.5
6	98.4	97.8
7	114.8	114.1
8	131.2	130.4
9	147.6	146.7

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	112
1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

	111
1	11.1
2	22.2
3	33.3
4	44.4
5	55.5
6	66.6
7	77.7
8	88.8
9	99.9

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

55°.800 — 55°.750

34°.250 — 34°.300

34°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.750 3579		9.833 0679		0.166 9321	9.917 2900		.750	
		111		163			51		
251	9.750 3690		9.833 0842		0.166 9158	9.917 2849		749	
252	9.750 3802	112	9.833 1005	163	0.166 8995	9.917 2797	52	748	
253	9.750 3913	111	9.833 1168	163	0.166 8832	9.917 2745	52	747	
		111		162			51		
254	9.750 4024		9.833 1330		0.166 8670	9.917 2694		746	
255	9.750 4135	111	9.833 1493	163	0.166 8507	9.917 2642	52	745	
256	9.750 4247	112	9.833 1656	163	0.166 8344	9.917 2590	52	744	
		111		163			51		
257	9.750 4358		9.833 1819		0.166 8181	9.917 2539		743	
258	9.750 4469	111	9.833 1982	163	0.166 8018	9.917 2487	52	742	
259	9.750 4581	112	9.833 2145	163	0.166 7855	9.917 2436	51	741	
		111		163			52		
.260	9.750 4692		9.833 2308		0.166 7692	9.917 2384		.740	
		111		163			52		
261	9.750 4803		9.833 2471		0.166 7529	9.917 2332		739	
262	9.750 4915	112	9.833 2634	163	0.166 7366	9.917 2281	51	738	
263	9.750 5026	111	9.833 2797	163	0.166 7203	9.917 2229	52	737	
		111		163			52		
264	9.750 5137		9.833 2960		0.166 7040	9.917 2177		736	
265	9.750 5248	111	9.833 3123	163	0.166 6877	9.917 2126	51	735	
266	9.750 5360	112	9.833 3285	162	0.166 6715	9.917 2074	52	734	
		111		163			51		
267	9.750 5471		9.833 3448		0.166 6552	9.917 2023		733	
268	9.750 5582	111	9.833 3611	163	0.166 6389	9.917 1971	52	732	
269	9.750 5693	111	9.833 3774	163	0.166 6226	9.917 1919	52	731	
		112		163			51		
.270	9.750 5805		9.833 3937		0.166 6063	9.917 1868		.730	
		111		163			52		
271	9.750 5916		9.833 4100		0.166 5900	9.917 1816		729	
272	9.750 6027	111	9.833 4263	163	0.166 5737	9.917 1764	52	728	
273	9.750 6138	111	9.833 4426	163	0.166 5574	9.917 1713	51	727	
		112		163			52		
274	9.750 6250		9.833 4589		0.166 5411	9.917 1661		726	
275	9.750 6361	111	9.833 4751	162	0.166 5249	9.917 1609	52	725	
276	9.750 6472	111	9.833 4914	163	0.166 5086	9.917 1558	51	724	
		111		163			52		
277	9.750 6583		9.833 5077		0.166 4923	9.917 1506		723	
278	9.750 6694	111	9.833 5240	163	0.166 4760	9.917 1454	52	722	
279	9.750 6806	112	9.833 5403	163	0.166 4597	9.917 1403	51	721	
		111		163			52		
.280	9.750 6917		9.833 5566		0.166 4434	9.917 1351		.720	
		111		163			52		
281	9.750 7028		9.833 5729		0.166 4271	9.917 1299		719	
282	9.750 7139	111	9.833 5892	163	0.166 4108	9.917 1248	51	718	
283	9.750 7250	111	9.833 6054	162	0.166 3946	9.917 1196	52	717	
		112		163			52		
284	9.750 7362		9.833 6217		0.166 3783	9.917 1144		716	
285	9.750 7473	111	9.833 6380	163	0.166 3620	9.917 1093	51	715	
286	9.750 7584	111	9.833 6543	163	0.166 3457	9.917 1041	52	714	
		111		163			52		
287	9.750 7695		9.833 6706		0.166 3294	9.917 0989		713	
288	9.750 7806	111	9.833 6869	163	0.166 3131	9.917 0938	51	712	
289	9.750 7917	111	9.833 7032	163	0.166 2968	9.917 0886	52	711	
		112		162			52		
.290	9.750 8029		9.833 7194		0.166 2806	9.917 0834		.710	
		111		163			51		
291	9.750 8140		9.833 7357		0.166 2643	9.917 0783		709	
292	9.750 8251	111	9.833 7520	163	0.166 2480	9.917 0731	52	708	
293	9.750 8362	111	9.833 7683	163	0.166 2317	9.917 0679	52	707	
		111		163			52		
294	9.750 8473		9.833 7846		0.166 2154	9.917 0627		706	
295	9.750 8584	111	9.833 8009	163	0.166 1991	9.917 0576	51	705	
296	9.750 8695	111	9.833 8171	162	0.166 1829	9.917 0524	52	704	
		112		163			52		
297	9.750 8807		9.833 8334		0.166 1666	9.917 0472		703	
298	9.750 8918	111	9.833 8497	163	0.166 1503	9.917 0421	51	702	
299	9.750 9029	111	9.833 8660	163	0.166 1340	9.917 0369	52	701	
		111		163			52		
.300	9.750 9140		9.833 8823		0.166 1177	9.917 0317		.700	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

163

1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

162

1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

112

1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

111

1	11.1
2	22.2
3	33.3
4	44.4
5	55.5
6	66.6
7	77.7
8	88.8
9	99.9

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

55°.750 — 55°.700

34°.300 — 34°.350

34°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.750 9140		9.833 8823		0.166 1177	9.917 0317		.700	
		111		163			51		
301	9.750 9251		9.833 8986		0.166 1014	9.917 0266		699	
302	9.750 9362	111	9.833 9148	162	0.166 0852	9.917 0214	52	698	
303	9.750 9473	111	9.833 9311	163	0.166 0689	9.917 0162	52	697	
		111		163			52		
304	9.750 9584		9.833 9474		0.166 0526	9.917 0110		696	
305	9.750 9695	111	9.833 9637	163	0.166 0363	9.917 0059	51	695	
306	9.750 9807	112	9.833 9800	163	0.166 0200	9.917 0007	52	694	
		111		162			52		
307	9.750 9918		9.833 9962		0.166 0038	9.916 9955		693	
308	9.751 0029	111	9.834 0125	163	0.165 9875	9.916 9904	51	692	
309	9.751 0140	111	9.834 0288	163	0.165 9712	9.916 9852	52	691	
		111		163			52		
.310	9.751 0251		9.834 0451		0.165 9549	9.916 9800		.690	
		111		163			52		
311	9.751 0362		9.834 0614		0.165 9386	9.916 9748		689	
312	9.751 0473	111	9.834 0776	162	0.165 9224	9.916 9697	51	688	
313	9.751 0584	111	9.834 0939	163	0.165 9061	9.916 9645	52	687	
		111		163			52		
314	9.751 0695		9.834 1102		0.165 8898	9.916 9593		686	
315	9.751 0806	111	9.834 1265	163	0.165 8735	9.916 9541	52	685	
316	9.751 0917	111	9.834 1428	163	0.165 8572	9.916 9490	51	684	
		111		162			52		
317	9.751 1028		9.834 1590		0.165 8410	9.916 9438		683	
318	9.751 1139	111	9.834 1753	163	0.165 8247	9.916 9386	52	682	
319	9.751 1250	111	9.834 1916	163	0.165 8084	9.916 9334	52	681	
		111		163			51		
.320	9.751 1361		9.834 2079		0.165 7921	9.916 9283		.680	
		111		162			52		
321	9.751 1472		9.834 2241		0.165 7759	9.916 9231		679	
322	9.751 1584	112	9.834 2404	163	0.165 7596	9.916 9179	52	678	
323	9.751 1695	111	9.834 2567	163	0.165 7433	9.916 9127	52	677	
		111		163			51		
324	9.751 1806		9.834 2730		0.165 7270	9.916 9076		676	
325	9.751 1917	111	9.834 2893	163	0.165 7107	9.916 9024	52	675	
326	9.751 2028	111	9.834 3055	162	0.165 6945	9.916 8972	52	674	
		111		163			52		
327	9.751 2139		9.834 3218		0.165 6782	9.916 8920		673	
328	9.751 2250	111	9.834 3381	163	0.165 6619	9.916 8869	51	672	
329	9.751 2361	111	9.834 3544	163	0.165 6456	9.916 8817	52	671	
		111		162			52		
.330	9.751 2472		9.834 3706		0.165 6294	9.916 8765		.670	
		111		163			52		
331	9.751 2583		9.834 3869		0.165 6131	9.916 8713		669	
332	9.751 2694	111	9.834 4032	163	0.165 5968	9.916 8662	51	668	
333	9.751 2805	111	9.834 4195	163	0.165 5805	9.916 8610	52	667	
		111		162			52		
334	9.751 2916		9.834 4357		0.165 5643	9.916 8558		666	
335	9.751 3026	110	9.834 4520	163	0.165 5480	9.916 8506	52	665	
336	9.751 3137	111	9.834 4683	163	0.165 5317	9.916 8455	51	664	
		111		163			52		
337	9.751 3248		9.834 4846		0.165 5154	9.916 8403		663	
338	9.751 3359	111	9.834 5008	162	0.165 4992	9.916 8351	52	662	
339	9.751 3470	111	9.834 5171	163	0.165 4829	9.916 8299	52	661	
		111		163			52		
.340	9.751 3581		9.834 5334		0.165 4666	9.916 8247		.660	
		111		163			51		
341	9.751 3692		9.834 5497		0.165 4503	9.916 8196		659	
342	9.751 3803	111	9.834 5659	162	0.165 4341	9.916 8144	52	658	
343	9.751 3914	111	9.834 5822	163	0.165 4178	9.916 8092	52	657	
		111		163			52		
344	9.751 4025		9.834 5985		0.165 4015	9.916 8040		656	
345	9.751 4136	111	9.834 6147	162	0.165 3853	9.916 7989	51	655	
346	9.751 4247	111	9.834 6310	163	0.165 3690	9.916 7937	52	654	
		111		163			52		
347	9.751 4358		9.834 6473		0.165 3527	9.916 7885		653	
348	9.751 4469	111	9.834 6636	163	0.165 3364	9.916 7833	52	652	
349	9.751 4580	111	9.834 6798	162	0.165 3202	9.916 7781	52	651	
		111		163			51		
.350	9.751 4691		9.834 6961		0.165 3039	9.916 7730		.650	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	112
1	11.2
2	22.4
3	33.6
4	44.8
5	56.0
6	67.2
7	78.4
8	89.6
9	100.8

	111
1	11.1
2	22.2
3	33.3
4	44.4
5	55.5
6	66.6
7	77.7
8	88.8
9	99.9

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

55°.700 — 55°.650

34°.350 — 34°.400

34°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.751 4691		9.834 6961		0.165 3039	9.916 7730		.650	
		111		163			52		
351	9.751 4802		9.834 7124		0.165 2876	9.916 7678		649	
		110		162			52		
352	9.751 4912		9.834 7286		0.165 2714	9.916 7626		648	
		111		163			52		
353	9.751 5023		9.834 7449		0.165 2551	9.916 7574		647	
		111		163			52		
354	9.751 5134		9.834 7612		0.165 2388	9.916 7522		646	
		111		163			52		
355	9.751 5245		9.834 7775		0.165 2225	9.916 7470		645	
		111		162			51		
356	9.751 5356		9.834 7937		0.165 2063	9.916 7419		644	
		111		163			52		
357	9.751 5467		9.834 8100		0.165 1900	9.916 7367		643	
		111		163			52		
358	9.751 5578		9.834 8263		0.165 1737	9.916 7315		642	
		111		162			52		
359	9.751 5689		9.834 8425		0.165 1575	9.916 7263		641	
		110		163			52		
.360	9.751 5799		9.834 8588		0.165 1412	9.916 7211		.640	
		111		163			51		
361	9.751 5910		9.834 8751		0.165 1249	9.916 7160		639	
		111		162			52		
362	9.751 6021		9.834 8913		0.165 1087	9.916 7108		638	
		111		163			52		
363	9.751 6132		9.834 9076		0.165 0924	9.916 7056		637	
		111		163			52		
364	9.751 6243		9.834 9239		0.165 0761	9.916 7004		636	
		111		163			52		
365	9.751 6354		9.834 9402		0.165 0598	9.916 6952		635	
		111		162			52		
366	9.751 6465		9.834 9564		0.165 0436	9.916 6900		634	
		110		163			51		
367	9.751 6575		9.834 9727		0.165 0273	9.916 6849		633	
		111		163			52		
368	9.751 6686		9.834 9890		0.165 0110	9.916 6797		632	
		111		162			52		
369	9.751 6797		9.835 0052		0.164 9948	9.916 6745		631	
		111		163			52		
.370	9.751 6908		9.835 0215		0.164 9785	9.916 6693		.630	
		111		163			52		
371	9.751 7019		9.835 0378		0.164 9622	9.916 6641		629	
		111		162			52		
372	9.751 7130		9.835 0540		0.164 9460	9.916 6589		628	
		110		163			51		
373	9.751 7240		9.835 0703		0.164 9297	9.916 6538		627	
		111		163			52		
374	9.751 7351		9.835 0866		0.164 9134	9.916 6486		626	
		111		162			52		
375	9.751 7462		9.835 1028		0.164 8972	9.916 6434		625	
		111		163			52		
376	9.751 7573		9.835 1191		0.164 8809	9.916 6382		624	
		111		162			52		
377	9.751 7684		9.835 1353		0.164 8647	9.916 6330		623	
		110		163			52		
378	9.751 7794		9.835 1516		0.164 8484	9.916 6278		622	
		111		163			52		
379	9.751 7905		9.835 1679		0.164 8321	9.916 6226		621	
		111		162			51		
.380	9.751 8016		9.835 1841		0.164 8159	9.916 6175		.620	
		111		163			52		
381	9.751 8127		9.835 2004		0.164 7996	9.916 6123		619	
		111		163			52		
382	9.751 8238		9.835 2167		0.164 7833	9.916 6071		618	
		110		162			52		
383	9.751 8348		9.835 2329		0.164 7671	9.916 6019		617	
		111		163			52		
384	9.751 8459		9.835 2492		0.164 7508	9.916 5967		616	
		111		163			52		
385	9.751 8570		9.835 2655		0.164 7345	9.916 5915		615	
		111		162			52		
386	9.751 8681		9.835 2817		0.164 7183	9.916 5863		614	
		110		163			52		
387	9.751 8791		9.835 2980		0.164 7020	9.916 5811		613	
		111		163			51		
388	9.751 8902		9.835 3143		0.164 6857	9.916 5760		612	
		111		162			52		
389	9.751 9013		9.835 3305		0.164 6695	9.916 5708		611	
		111		163			52		
.390	9.751 9124		9.835 3468		0.164 6532	9.916 5656		.610	
		110		162			52		
391	9.751 9234		9.835 3630		0.164 6370	9.916 5604		609	
		111		163			52		
392	9.751 9345		9.835 3793		0.164 6207	9.916 5552		608	
		111		163			52		
393	9.751 9456		9.835 3956		0.164 6044	9.916 5500		607	
		111		162			52		
394	9.751 9567		9.835 4118		0.164 5882	9.916 5448		606	
		110		163			52		
395	9.751 9677		9.835 4281		0.164 5719	9.916 5396		605	
		111		162			51		
396	9.751 9788		9.835 4443		0.164 5557	9.916 5345		604	
		111		163			52		
397	9.751 9899		9.835 4606		0.164 5394	9.916 5293		603	
		110		163			52		
398	9.752 0009		9.835 4769		0.164 5231	9.916 5241		602	
		111		162			52		
399	9.752 0120		9.835 4931		0.164 5069	9.916 5189		601	
		111		163			52		
.400	9.752 0231		9.835 5094		0.164 4906	9.916 5137		.600	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	111
1	11.1
2	22.2
3	33.3
4	44.4
5	55.5
6	66.6
7	77.7
8	88.8
9	99.9

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

55°.650 — 55°.600

34°.400 — 34°.450

34°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.752 0231		9.835 5094		0.164 4906	9.916 5137		.600	
		111		163			52		
401	9.752 0342		9.835 5257		0.164 4743	9.916 5085		599	
402	9.752 0452	110	9.835 5419	162	0.164 4581	9.916 5033	52	598	
403	9.752 0563	111	9.835 5582	163	0.164 4418	9.916 4981	52	597	
		111		162			52		
404	9.752 0674		9.835 5744		0.164 4256	9.916 4929		596	
405	9.752 0784	110	9.835 5907	163	0.164 4093	9.916 4877	52	595	
406	9.752 0895	111	9.835 6069	162	0.164 3931	9.916 4825	52	594	
		111		163			51		
407	9.752 1006		9.835 6232		0.164 3768	9.916 4774		593	
408	9.752 1116	110	9.835 6395	163	0.164 3605	9.916 4722	52	592	
409	9.752 1227	111	9.835 6557	162	0.164 3443	9.916 4670	52	591	
		111		163			52		
.410	9.752 1338		9.835 6720		0.164 3280	9.916 4618		.590	
		110		162			52		
411	9.752 1448		9.835 6882		0.164 3118	9.916 4566		589	
412	9.752 1559	111	9.835 7045	163	0.164 2955	9.916 4514	52	588	
413	9.752 1670	111	9.835 7208	163	0.164 2792	9.916 4462	52	587	
		110		162			52		
414	9.752 1780		9.835 7370		0.164 2630	9.916 4410		586	
415	9.752 1891	111	9.835 7533	163	0.164 2467	9.916 4358	52	585	
416	9.752 2002	111	9.835 7695	162	0.164 2305	9.916 4306	52	584	
		110		163			52		
417	9.752 2112		9.835 7858		0.164 2142	9.916 4254		583	
418	9.752 2223	111	9.835 8020	162	0.164 1980	9.916 4202	52	582	
419	9.752 2333	110	9.835 8183	163	0.164 1817	9.916 4150	52	581	
		111		163			51		
.420	9.752 2444		9.835 8346		0.164 1654	9.916 4099		.580	
		111		162			52		
421	9.752 2555		9.835 8508		0.164 1492	9.916 4047		579	
422	9.752 2665	110	9.835 8671	163	0.164 1329	9.916 3995	52	578	
423	9.752 2776	111	9.835 8833	162	0.164 1167	9.916 3943	52	577	
		110		163			52		
424	9.752 2886		9.835 8996		0.164 1004	9.916 3891		576	
425	9.752 2997	111	9.835 9158	162	0.164 0842	9.916 3839	52	575	
426	9.752 3108	111	9.835 9321	163	0.164 0679	9.916 3787	52	574	
		110		162			52		
427	9.752 3218		9.835 9483		0.164 0517	9.916 3735		573	
428	9.752 3329	111	9.835 9646	163	0.164 0354	9.916 3683	52	572	
429	9.752 3439	110	9.835 9808	162	0.164 0192	9.916 3631	52	571	
		111		163			52		
.430	9.752 3550		9.835 9971		0.164 0029	9.916 3579		.570	
		111		163			52		
431	9.752 3661		9.836 0134		0.163 9866	9.916 3527		569	
432	9.752 3771	110	9.836 0296	162	0.163 9704	9.916 3475	52	568	
433	9.752 3882	111	9.836 0459	163	0.163 9541	9.916 3423	52	567	
		110		162			52		
434	9.752 3992		9.836 0621		0.163 9379	9.916 3371		566	
435	9.752 4103	111	9.836 0784	163	0.163 9216	9.916 3319	52	565	
436	9.752 4213	110	9.836 0946	162	0.163 9054	9.916 3267	52	564	
		111		163			52		
437	9.752 4324		9.836 1109		0.163 8891	9.916 3215		563	
438	9.752 4434	110	9.836 1271	162	0.163 8729	9.916 3163	52	562	
439	9.752 4545	111	9.836 1434	163	0.163 8566	9.916 3111	52	561	
		111		162			52		
.440	9.752 4656		9.836 1596		0.163 8404	9.916 3059		.560	
		110		163			52		
441	9.752 4766		9.836 1759		0.163 8241	9.916 3007		559	
442	9.752 4877	111	9.836 1921	162	0.163 8079	9.916 2955	52	558	
443	9.752 4987	110	9.836 2084	163	0.163 7916	9.916 2903	52	557	
		111		162			52		
444	9.752 5098		9.836 2246		0.163 7754	9.916 2851		556	
445	9.752 5208	110	9.836 2409	163	0.163 7591	9.916 2799	52	555	
446	9.752 5319	111	9.836 2571	162	0.163 7429	9.916 2747	52	554	
		110		163			52		
447	9.752 5429		9.836 2734		0.163 7266	9.916 2695		553	
448	9.752 5540	111	9.836 2896	162	0.163 7104	9.916 2643	52	552	
449	9.752 5650	110	9.836 3059	163	0.163 6941	9.916 2591	52	551	
		111		162			52		
.450	9.752 5761		9.836 3221		0.163 6779	9.916 2539		.550	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	111
1	11.1
2	22.2
3	33.3
4	44.4
5	55.5
6	66.6
7	77.7
8	88.8
9	99.9

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	52	51
1	5.2	5.1
2	10.4	10.2
3	15.6	15.3
4	20.8	20.4
5	26.0	25.5
6	31.2	30.6
7	36.4	35.7
8	41.6	40.8
9	46.8	45.9

55°.600 — 55°.550

34°.450 — 34°.500

34°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9·752 5761		9.836 3221		0.163 6779	9.916 2539		·550	
		110		163			52		
451	9·752 5871		9.836 3384		0.163 6616	9.916 2487		549	
452	9·752 5982	111	9.836 3546	162	0.163 6454	9.916 2435	52	548	
453	9·752 6092	110	9.836 3709	163	0.163 6291	9.916 2383	52	547	
		111		162			52		
454	9·752 6203		9.836 3871		0.163 6129	9.916 2331		546	
455	9·752 6313	110	9.836 4034	163	0.163 5966	9.916 2279	52	545	
456	9·752 6424	111	9.836 4196	162	0.163 5804	9.916 2227	52	544	
		110		163			52		
457	9·752 6534		9.836 4359		0.163 5641	9.916 2175		543	
458	9·752 6645	111	9.836 4521	162	0.163 5479	9.916 2123	52	542	
459	9·752 6755	110	9.836 4684	163	0.163 5316	9.916 2071	52	541	
		110		162			52		
·460	9·752 6865		9.836 4846		0.163 5154	9.916 2019		·540	
		111		163			52		
461	9·752 6976		9.836 5009		0.163 4991	9.916 1967		539	
462	9·752 7086	110	9.836 5171	162	0.163 4829	9.916 1915	52	538	
463	9·752 7197	111	9.836 5333	162	0.163 4667	9.916 1863	52	537	
		110		163			52		
464	9·752 7307		9.836 5496		0.163 4504	9.916 1811		536	
465	9·752 7418	111	9.836 5658	162	0.163 4342	9.916 1759	52	535	
466	9·752 7528	110	9.836 5821	163	0.163 4179	9.916 1707	52	534	
		111		162			52		
467	9·752 7639		9.836 5983		0.163 4017	9.916 1655		533	
468	9·752 7749	110	9.836 6146	163	0.163 3854	9.916 1603	52	532	
469	9·752 7859	110	9.836 6308	162	0.163 3692	9.916 1551	52	531	
		111		163			52		
·470	9·752 7970		9.836 6471		0.163 3529	9.916 1499		·530	
		110		162			52		
471	9·752 8080		9.836 6633		0.163 3367	9.916 1447		529	
472	9·752 8191	111	9.836 6796	163	0.163 3204	9.916 1395	52	528	
473	9·752 8301	110	9.836 6958	162	0.163 3042	9.916 1343	52	527	
		110		162			52		
474	9·752 8411		9.836 7120		0.163 2880	9.916 1291		526	
475	9·752 8522	111	9.836 7283	163	0.163 2717	9.916 1239	52	525	
476	9·752 8632	110	9.836 7445	162	0.163 2555	9.916 1187	52	524	
		111		163			52		
477	9·752 8743		9.836 7608		0.163 2392	9.916 1135		523	
478	9·752 8853	110	9.836 7770	162	0.163 2230	9.916 1083	52	522	
479	9·752 8963	110	9.836 7933	163	0.163 2067	9.916 1031	52	521	
		111		162			52		
·480	9·752 9074		9.836 8095		0.163 1905	9.916 0979		·520	
		110		162			52		
481	9·752 9184		9.836 8257		0.163 1743	9.916 0927		519	
482	9·752 9294	110	9.836 8420	163	0.163 1580	9.916 0875	52	518	
483	9·752 9405	111	9.836 8582	162	0.163 1418	9.916 0822	53	517	
		110		163			52		
484	9·752 9515		9.836 8745		0.163 1255	9.916 0770		516	
485	9·752 9625	110	9.836 8907	162	0.163 1093	9.916 0718	52	515	
486	9·752 9736	111	9.836 9070	163	0.163 0930	9.916 0666	52	514	
		110		162			52		
487	9·752 9846		9.836 9232		0.163 0768	9.916 0614		513	
488	9·752 9957	111	9.836 9394	162	0.163 0606	9.916 0562	52	512	
489	9·753 0067	110	9.836 9557	163	0.163 0443	9.916 0510	52	511	
		110		162			52		
·490	9·753 0177		9.836 9719		0.163 0281	9.916 0458		·510	
		111		163			52		
491	9·753 0288		9.836 9882		0.163 0118	9.916 0406		509	
492	9·753 0398	110	9.837 0044	162	0.162 9956	9.916 0354	52	508	
493	9·753 0508	110	9.837 0206	162	0.162 9794	9.916 0302	52	507	
		110		163			52		
494	9·753 0618		9.837 0369		0.162 9631	9.916 0250		506	
495	9·753 0729	111	9.837 0531	162	0.162 9469	9.916 0198	52	505	
496	9·753 0839	110	9.837 0694	163	0.162 9306	9.916 0146	52	504	
		110		162			53		
497	9·753 0949		9.837 0856		0.162 9144	9.916 0093		503	
498	9·753 1060	111	9.837 1018	162	0.162 8982	9.916 0041	52	502	
499	9·753 1170	110	9.837 1181	163	0.162 8819	9.915 9989	52	501	
		110		162			52		
·500	9·753 1280		9.837 1343		0.162 8657	9.915 9937		·500	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

163

1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

162

1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

111

1	11.1
2	22.2
3	33.3
4	44.4
5	55.5
6	66.6
7	77.7
8	88.8
9	99.9

110

1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.550 — 55°.500

34°.500 — 34°.550

34°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.753 1280		9.837 1343		0.162 8657	9.915 9937		.500	
		111		162			52		
501	9.753 1391		9.837 1505		0.162 8495	9.915 9885		499	
502	9.753 1501	110	9.837 1668	163	0.162 8332	9.915 9833	52	498	
503	9.753 1611	110	9.837 1830	162	0.162 8170	9.915 9781	52	497	
		110		163			52		
504	9.753 1721		9.837 1993		0.162 8007	9.915 9729		496	
505	9.753 1832	111	9.837 2155	162	0.162 7845	9.915 9677	52	495	
506	9.753 1942	110	9.837 2317	162	0.162 7683	9.915 9625	52	494	
		110		163			53		
507	9.753 2052		9.837 2480		0.162 7520	9.915 9572		493	
508	9.753 2162	110	9.837 2642	162	0.162 7358	9.915 9520	52	492	
509	9.753 2273	111	9.837 2804	162	0.162 7196	9.915 9468	52	491	
		110		163			52		
.510	9.753 2383		9.837 2967		0.162 7033	9.915 9416		.490	
		110		162			52		
511	9.753 2493		9.837 3129		0.162 6871	9.915 9364		489	
512	9.753 2603	110	9.837 3292	163	0.162 6708	9.915 9312	52	488	
513	9.753 2714	111	9.837 3454	162	0.162 6546	9.915 9260	52	487	
		110		162			52		
514	9.753 2824		9.837 3616		0.162 6384	9.915 9208		486	
515	9.753 2934	110	9.837 3779	163	0.162 6221	9.915 9156	52	485	
516	9.753 3044	110	9.837 3941	162	0.162 6059	9.915 9103	53	484	
		111		162			52		
517	9.753 3155		9.837 4103		0.162 5897	9.915 9051		483	
518	9.753 3265	110	9.837 4266	163	0.162 5734	9.915 8999	52	482	
519	9.753 3375	110	9.837 4428	162	0.162 5572	9.915 8947	52	481	
		110		162			52		
.520	9.753 3485		9.837 4590		0.162 5410	9.915 8895		.480	
		110		163			52		
521	9.753 3595		9.837 4753		0.162 5247	9.915 8843		479	
522	9.753 3706	111	9.837 4915	162	0.162 5085	9.915 8791	52	478	
523	9.753 3816	110	9.837 5077	162	0.162 4923	9.915 8738	53	477	
		110		163			52		
524	9.753 3926		9.837 5240		0.162 4760	9.915 8686		476	
525	9.753 4036	110	9.837 5402	162	0.162 4598	9.915 8634	52	475	
526	9.753 4146	110	9.837 5564	162	0.162 4436	9.915 8582	52	474	
		111		163			52		
527	9.753 4257		9.837 5727		0.162 4273	9.915 8530		473	
528	9.753 4367	110	9.837 5889	162	0.162 4111	9.915 8478	52	472	
529	9.753 4477	110	9.837 6051	162	0.162 3949	9.915 8426	52	471	
		110		163			53		
.530	9.753 4587		9.837 6214		0.162 3786	9.915 8373		.470	
		110		162			52		
531	9.753 4697		9.837 6376		0.162 3624	9.915 8321		469	
532	9.753 4807	110	9.837 6538	162	0.162 3462	9.915 8269	52	468	
533	9.753 4918	111	9.837 6701	163	0.162 3299	9.915 8217	52	467	
		110		162			52		
534	9.753 5028		9.837 6863		0.162 3137	9.915 8165		466	
535	9.753 5138	110	9.837 7025	162	0.162 2975	9.915 8113	52	465	
536	9.753 5248	110	9.837 7187	162	0.162 2813	9.915 8060	53	464	
		110		163			52		
537	9.753 5358		9.837 7350		0.162 2650	9.915 8008		463	
538	9.753 5468	110	9.837 7512	162	0.162 2488	9.915 7956	52	462	
539	9.753 5578	110	9.837 7674	162	0.162 2326	9.915 7904	52	461	
		110		163			52		
.540	9.753 5688		9.837 7837		0.162 2163	9.915 7852		.460	
		111		162			52		
541	9.753 5799		9.837 7999		0.162 2001	9.915 7800		459	
542	9.753 5909	110	9.837 8161	162	0.162 1839	9.915 7747	53	458	
543	9.753 6019	110	9.837 8324	163	0.162 1676	9.915 7695	52	457	
		110		162			52		
544	9.753 6129		9.837 8486		0.162 1514	9.915 7643		456	
545	9.753 6239	110	9.837 8648	162	0.162 1352	9.915 7591	52	455	
546	9.753 6349	110	9.837 8810	162	0.162 1190	9.915 7539	52	454	
		110		163			52		
547	9.753 6459		9.837 8973		0.162 1027	9.915 7487		453	
548	9.753 6569	110	9.837 9135	162	0.162 0865	9.915 7434	53	452	
549	9.753 6679	110	9.837 9297	162	0.162 0703	9.915 7382	52	451	
		111		163			52		
.550	9.753 6790		9.837 9460		0.162 0540	9.915 7330		.450	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	111
1	11.1
2	22.2
3	33.3
4	44.4
5	55.5
6	66.6
7	77.7
8	88.8
9	99.9

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.500 — 55°.450

34°.550 — 34°.600

34°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.753 6790		9.837 9460		0.162 0540	9.915 7330		.450	
		110		162			52		
551	9.753 6900		9.837 9622		0.162 0378	9.915 7278		449	
		110		162			52		
552	9.753 7010		9.837 9784		0.162 0216	9.915 7226		448	
		110		162			53		
553	9.753 7120		9.837 9946		0.162 0054	9.915 7173		447	
		110		163			52		
554	9.753 7230		9.838 0109		0.161 9891	9.915 7121		446	
		110		162			52		
555	9.753 7340		9.838 0271		0.161 9729	9.915 7069		445	
		110		162			52		
556	9.753 7450		9.838 0433		0.161 9567	9.915 7017		444	
		110		162			52		
557	9.753 7560		9.838 0595		0.161 9405	9.915 6965		443	
		110		163			53		
558	9.753 7670		9.838 0758		0.161 9242	9.915 6912		442	
		110		162			52		
559	9.753 7780		9.838 0920		0.161 9080	9.915 6860		441	
		110		162			52		
.560	9.753 7890		9.838 1082		0.161 8918	9.915 6808		.440	
		110		162			52		
561	9.753 8000		9.838 1244		0.161 8756	9.915 6756		439	
		110		163			52		
562	9.753 8110		9.838 1407		0.161 8593	9.915 6704		438	
		110		162			53		
563	9.753 8220		9.838 1569		0.161 8431	9.915 6651		437	
		110		162			52		
564	9.753 8330		9.838 1731		0.161 8269	9.915 6599		436	
		110		162			52		
565	9.753 8440		9.838 1893		0.161 8107	9.915 6547		435	
		110		163			52		
566	9.753 8550		9.838 2056		0.161 7944	9.915 6495		434	
		110		162			53		
567	9.753 8660		9.838 2218		0.161 7782	9.915 6442		433	
		110		162			52		
568	9.753 8770		9.838 2380		0.161 7620	9.915 6390		432	
		110		162			52		
569	9.753 8880		9.838 2542		0.161 7458	9.915 6338		431	
		110		163			52		
.570	9.753 8990		9.838 2705		0.161 7295	9.915 6286		.430	
		110		162			53		
571	9.753 9100		9.838 2867		0.161 7133	9.915 6233		429	
		110		162			52		
572	9.753 9210		9.838 3029		0.161 6971	9.915 6181		428	
		110		162			52		
573	9.753 9320		9.838 3191		0.161 6809	9.915 6129		427	
		110		163			52		
574	9.753 9430		9.838 3354		0.161 6646	9.915 6077		426	
		110		162			52		
575	9.753 9540		9.838 3516		0.161 6484	9.915 6025		425	
		110		162			53		
576	9.753 9650		9.838 3678		0.161 6322	9.915 5972		424	
		110		162			52		
577	9.753 9760		9.838 3840		0.161 6160	9.915 5920		423	
		110		162			52		
578	9.753 9870		9.838 4002		0.161 5998	9.915 5868		422	
		110		163			52		
579	9.753 9980		9.838 4165		0.161 5835	9.915 5816		421	
		110		162			53		
.580	9.754 0090		9.838 4327		0.161 5673	9.915 5763		.420	
		110		162			52		
581	9.754 0200		9.838 4489		0.161 5511	9.915 5711		419	
		110		162			52		
582	9.754 0310		9.838 4651		0.161 5349	9.915 5659		418	
		110		162			52		
583	9.754 0420		9.838 4813		0.161 5187	9.915 5607		417	
		110		163			53		
584	9.754 0530		9.838 4976		0.161 5024	9.915 5554		416	
		110		162			52		
585	9.754 0640		9.838 5138		0.161 4862	9.915 5502		415	
		110		162			52		
586	9.754 0750		9.838 5300		0.161 4700	9.915 5450		414	
		110		162			52		
587	9.754 0860		9.838 5462		0.161 4538	9.915 5398		413	
		110		162			53		
588	9.754 0970		9.838 5624		0.161 4376	9.915 5345		412	
		110		163			52		
589	9.754 1080		9.838 5787		0.161 4213	9.915 5293		411	
		109		162			52		
.590	9.754 1189		9.838 5949		0.161 4051	9.915 5241		.410	
		110		162			53		
591	9.754 1299		9.838 6111		0.161 3889	9.915 5188		409	
		110		162			52		
592	9.754 1409		9.838 6273		0.161 3727	9.915 5136		408	
		110		162			52		
593	9.754 1519		9.838 6435		0.161 3565	9.915 5084		407	
		110		163			52		
594	9.754 1629		9.838 6598		0.161 3402	9.915 5032		406	
		110		162			53		
595	9.754 1739		9.838 6760		0.161 3240	9.915 4979		405	
		110		162			52		
596	9.754 1849		9.838 6922		0.161 3078	9.915 4927		404	
		110		162			52		
597	9.754 1959		9.838 7084		0.161 2916	9.915 4875		403	
		110		162			53		
598	9.754 2069		9.838 7246		0.161 2754	9.915 4822		402	
		110		162			52		
599	9.754 2179		9.838 7408		0.161 2592	9.915 4770		401	
		109		163			52		
.600	9.754 2288		9.838 7571		0.161 2429	9.915 4718		.400	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.450 — 55°.400

34°.600 — 34°.650

34°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.754 2288		9.838 7571		0.161 2429	9.915 4718		.400	
		110		162			52		
601	9.754 2398		9.838 7733		0.161 2267	9.915 4666		399	
602	9.754 2508	110	9.838 7895	162	0.161 2105	9.915 4613	53	398	
603	9.754 2618	110	9.838 8057	162	0.161 1943	9.915 4561	52	397	
		110		162			52		
604	9.754 2728		9.838 8219		0.161 1781	9.915 4509		396	
605	9.754 2838	110	9.838 8381	162	0.161 1619	9.915 4456	53	395	
606	9.754 2948	110	9.838 8544	163	0.161 1456	9.915 4404	52	394	
		109		162			52		
607	9.754 3057		9.838 8706		0.161 1294	9.915 4352		393	
608	9.754 3167	110	9.838 8868	162	0.161 1132	9.915 4300	52	392	
609	9.754 3277	110	9.838 9030	162	0.161 0970	9.915 4247	53	391	
		110		162			52		
.610	9.754 3387		9.838 9192		0.161 0808	9.915 4195		.390	
		110		162			52		
611	9.754 3497		9.838 9354		0.161 0646	9.915 4143		389	
612	9.754 3607	110	9.838 9516	162	0.161 0484	9.915 4090	53	388	
613	9.754 3717	110	9.838 9679	163	0.161 0321	9.915 4038	52	387	
		109		162			52		
614	9.754 3826		9.838 9841		0.161 0159	9.915 3986		386	
615	9.754 3936	110	9.839 0003	162	0.160 9997	9.915 3933	53	385	
616	9.754 4046	110	9.839 0165	162	0.160 9835	9.915 3881	52	384	
		110		162			52		
617	9.754 4156		9.839 0327		0.160 9673	9.915 3829		383	
618	9.754 4266	110	9.839 0489	162	0.160 9511	9.915 3776	53	382	
619	9.754 4375	109	9.839 0651	162	0.160 9349	9.915 3724	52	381	
		110		162			52		
.620	9.754 4485		9.839 0813		0.160 9187	9.915 3672		.380	
		110		163			53		
621	9.754 4595		9.839 0976		0.160 9024	9.915 3619		379	
622	9.754 4705	110	9.839 1138	162	0.160 8862	9.915 3567	52	378	
623	9.754 4815	110	9.839 1300	162	0.160 8700	9.915 3515	52	377	
		109		162			53		
624	9.754 4924		9.839 1462		0.160 8538	9.915 3462		376	
625	9.754 5034	110	9.839 1624	162	0.160 8376	9.915 3410	52	375	
626	9.754 5144	110	9.839 1786	162	0.160 8214	9.915 3358	52	374	
		110		162			53		
627	9.754 5254		9.839 1948		0.160 8052	9.915 3305		373	
628	9.754 5363	109	9.839 2110	162	0.160 7890	9.915 3253	52	372	
629	9.754 5473	110	9.839 2272	162	0.160 7728	9.915 3201	52	371	
		110		163			53		
.630	9.754 5583		9.839 2435		0.160 7565	9.915 3148		.370	
		110		162			52		
631	9.754 5693		9.839 2597		0.160 7403	9.915 3096		369	
632	9.754 5802	109	9.839 2759	162	0.160 7241	9.915 3044	52	368	
633	9.754 5912	110	9.839 2921	162	0.160 7079	9.915 2991	53	367	
		110		162			52		
634	9.754 6022		9.839 3083		0.160 6917	9.915 2939		366	
635	9.754 6132	110	9.839 3245	162	0.160 6755	9.915 2887	52	365	
636	9.754 6241	109	9.839 3407	162	0.160 6593	9.915 2834	53	364	
		110		162			52		
637	9.754 6351		9.839 3569		0.160 6431	9.915 2782		363	
638	9.754 6461	110	9.839 3731	162	0.160 6269	9.915 2729	53	362	
639	9.754 6571	110	9.839 3893	162	0.160 6107	9.915 2677	52	361	
		109		162			52		
.640	9.754 6680		9.839 4055		0.160 5945	9.915 2625		.360	
		110		163			53		
641	9.754 6790		9.839 4218		0.160 5782	9.915 2572		359	
642	9.754 6900	110	9.839 4380	162	0.160 5620	9.915 2520	52	358	
643	9.754 7009	109	9.839 4542	162	0.160 5458	9.915 2468	52	357	
		110		162			53		
644	9.754 7119		9.839 4704		0.160 5296	9.915 2415		356	
645	9.754 7229	110	9.839 4866	162	0.160 5134	9.915 2363	52	355	
646	9.754 7338	109	9.839 5028	162	0.160 4972	9.915 2310	53	354	
		110		162			52		
647	9.754 7448		9.839 5190		0.160 4810	9.915 2258		353	
648	9.754 7558	110	9.839 5352	162	0.160 4648	9.915 2206	52	352	
649	9.754 7667	109	9.839 5514	162	0.160 4486	9.915 2153	53	351	
		110		162			52		
.650	9.754 7777		9.839 5676		0.160 4324	9.915 2101		.350	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	163
1	16.3
2	32.6
3	48.9
4	65.2
5	81.5
6	97.8
7	114.1
8	130.4
9	146.7

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.400 — 55°.350

34°.650 — 34°.700

34°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.754 7777		9.839 5676		0.160 4324	9.915 2101		.350	
		110		162			52		
651	9.754 7887		9.839 5838		0.160 4162	9.915 2049		349	
652	9.754 7996	109	9.839 6000	162	0.160 4000	9.915 1996	53	348	
653	9.754 8106	110	9.839 6162	162	0.160 3838	9.915 1944	52	347	
		110		162			53		
654	9.754 8216		9.839 6324		0.160 3676	9.915 1891		346	
655	9.754 8325	109	9.839 6486	162	0.160 3514	9.915 1839	52	345	
656	9.754 8435	110	9.839 6649	163	0.160 3351	9.915 1787	52	344	
		110		162			53		
657	9.754 8545		9.839 6811		0.160 3189	9.915 1734		343	
658	9.754 8654	109	9.839 6973	162	0.160 3027	9.915 1682	52	342	
659	9.754 8764	110	9.839 7135	162	0.160 2865	9.915 1629	53	341	
		110		162			52		
.660	9.754 8874		9.839 7297		0.160 2703	9.915 1577		.340	
		109		162			52		
661	9.754 8983		9.839 7459		0.160 2541	9.915 1525		339	
662	9.754 9093	110	9.839 7621	162	0.160 2379	9.915 1472	53	338	
663	9.754 9203	110	9.839 7783	162	0.160 2217	9.915 1420	52	337	
		109		162			53		
664	9.754 9312		9.839 7945		0.160 2055	9.915 1367		336	
665	9.754 9422	110	9.839 8107	162	0.160 1893	9.915 1315	52	335	
666	9.754 9531	109	9.839 8269	162	0.160 1731	9.915 1263	52	334	
		110		162			53		
667	9.754 9641		9.839 8431		0.160 1569	9.915 1210		333	
668	9.754 9751	110	9.839 8593	162	0.160 1407	9.915 1158	52	332	
669	9.754 9860	109	9.839 8755	162	0.160 1245	9.915 1105	53	331	
		110		162			52		
.670	9.754 9970		9.839 8917		0.160 1083	9.915 1053		.330	
		109		162			53		
671	9.755 0079		9.839 9079		0.160 0921	9.915 1000		329	
672	9.755 0189	110	9.839 9241	162	0.160 0759	9.915 0948	52	328	
673	9.755 0299	110	9.839 9403	162	0.160 0597	9.915 0896	52	327	
		109		162			53		
674	9.755 0408		9.839 9565		0.160 0435	9.915 0843		326	
675	9.755 0518	110	9.839 9727	162	0.160 0273	9.915 0791	52	325	
676	9.755 0627	109	9.839 9889	162	0.160 0111	9.915 0738	53	324	
		110		162			52		
677	9.755 0737		9.840 0051		0.159 9949	9.915 0686		323	
678	9.755 0846	109	9.840 0213	162	0.159 9787	9.915 0633	53	322	
679	9.755 0956	110	9.840 0375	162	0.159 9625	9.915 0581	52	321	
		109		162			53		
.680	9.755 1065		9.840 0537		0.159 9463	9.915 0528		.320	
		110		162			52		
681	9.755 1175		9.840 0699		0.159 9301	9.915 0476		319	
682	9.755 1285	110	9.840 0861	162	0.159 9139	9.915 0424	52	318	
683	9.755 1394	109	9.840 1023	162	0.159 8977	9.915 0371	53	317	
		110		162			52		
684	9.755 1504		9.840 1185		0.159 8815	9.915 0319		316	
685	9.755 1613	109	9.840 1347	162	0.159 8653	9.915 0266	53	315	
686	9.755 1723	110	9.840 1509	162	0.159 8491	9.915 0214	52	314	
		109		162			53		
687	9.755 1832		9.840 1671		0.159 8329	9.915 0161		313	
688	9.755 1942	110	9.840 1833	162	0.159 8167	9.915 0109	52	312	
689	9.755 2051	109	9.840 1995	162	0.159 8005	9.915 0056	53	311	
		110		162			52		
.690	9.755 2161		9.840 2157		0.159 7843	9.915 0004		.310	
		109		162			53		
691	9.755 2270		9.840 2319		0.159 7681	9.914 9951		309	
692	9.755 2380	110	9.840 2481	162	0.159 7519	9.914 9899	52	308	
693	9.755 2489	109	9.840 2643	162	0.159 7357	9.914 9846	53	307	
		110		162			52		
694	9.755 2599		9.840 2805		0.159 7195	9.914 9794		306	
695	9.755 2708	109	9.840 2967	162	0.159 7033	9.914 9742	52	305	
696	9.755 2818	110	9.840 3129	162	0.159 6871	9.914 9689	53	304	
		109		162			52		
697	9.755 2927		9.840 3291		0.159 6709	9.914 9637		303	
698	9.755 3037	110	9.840 3453	162	0.159 6547	9.914 9584	53	302	
699	9.755 3146	109	9.840 3615	162	0.159 6385	9.914 9532	52	301	
		110		161			53		
.700	9.755 3256		9.840 3776		0.159 6224	9.914 9479		.300	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	163	162
1	16.3	16.2
2	32.6	32.4
3	48.9	48.6
4	65.2	64.8
5	81.5	81.0
6	97.8	97.2
7	114.1	113.4
8	130.4	129.6
9	146.7	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.350 — 55°.300

34°.700 — 34°.750

34°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.755 3256		9.840 3776		0.159 6224	9.914 9479		.300	
		109		162			52		
701	9.755 3365		9.840 3938		0.159 6062	9.914 9427		299	
702	9.755 3475	110	9.840 4100	162	0.159 5900	9.914 9374	53	298	
703	9.755 3584	109	9.840 4262	162	0.159 5738	9.914 9322	52	297	
		109		162			53		
704	9.755 3693		9.840 4424		0.159 5576	9.914 9269		296	
705	9.755 3803	110	9.840 4586	162	0.159 5414	9.914 9217	52	295	
706	9.755 3912	109	9.840 4748	162	0.159 5252	9.914 9164	53	294	
		110		162			52		
707	9.755 4022		9.840 4910		0.159 5090	9.914 9112		293	
708	9.755 4131	109	9.840 5072	162	0.159 4928	9.914 9059	53	292	
709	9.755 4241	110	9.840 5234	162	0.159 4766	9.914 9007	52	291	
		109		162			53		
.710	9.755 4350		9.840 5396		0.159 4604	9.914 8954		.290	
		110		162			52		
711	9.755 4460		9.840 5558		0.159 4442	9.914 8902		289	
712	9.755 4569	109	9.840 5720	162	0.159 4280	9.914 8849	53	288	
713	9.755 4678	109	9.840 5882	162	0.159 4118	9.914 8797	52	287	
		110		162			53		
714	9.755 4788		9.840 6044		0.159 3956	9.914 8744		286	
715	9.755 4897	109	9.840 6206	162	0.159 3794	9.914 8692	52	285	
716	9.755 5007	110	9.840 6367	161	0.159 3633	9.914 8639	53	284	
		109		162			52		
717	9.755 5116		9.840 6529		0.159 3471	9.914 8587		283	
718	9.755 5225	109	9.840 6691	162	0.159 3309	9.914 8534	53	282	
719	9.755 5335	110	9.840 6853	162	0.159 3147	9.914 8482	52	281	
		109		162			53		
.720	9.755 5444		9.840 7015		0.159 2985	9.914 8429		.280	
		110		162			52		
721	9.755 5554		9.840 7177		0.159 2823	9.914 8377		279	
722	9.755 5663	109	9.840 7339	162	0.159 2661	9.914 8324	53	278	
723	9.755 5772	109	9.840 7501	162	0.159 2499	9.914 8271	53	277	
		110		162			52		
724	9.755 5882		9.840 7663		0.159 2337	9.914 8219		276	
725	9.755 5991	109	9.840 7825	162	0.159 2175	9.914 8166	53	275	
726	9.755 6100	109	9.840 7987	162	0.159 2013	9.914 8114	52	274	
		110		161			53		
727	9.755 6210		9.840 8148		0.159 1852	9.914 8061		273	
728	9.755 6319	109	9.840 8310	162	0.159 1690	9.914 8009	52	272	
729	9.755 6428	109	9.840 8472	162	0.159 1528	9.914 7956	53	271	
		110		162			52		
.730	9.755 6538		9.840 8634		0.159 1366	9.914 7904		.270	
		109		162			53		
731	9.755 6647		9.840 8796		0.159 1204	9.914 7851		269	
732	9.755 6756	109	9.840 8958	162	0.159 1042	9.914 7799	52	268	
733	9.755 6866	110	9.840 9120	162	0.159 0880	9.914 7746	53	267	
		109		162			53		
734	9.755 6975		9.840 9282		0.159 0718	9.914 7693		266	
735	9.755 7084	109	9.840 9444	162	0.159 0556	9.914 7641	52	265	
736	9.755 7194	110	9.840 9605	161	0.159 0395	9.914 7588	53	264	
		109		162			52		
737	9.755 7303		9.840 9767		0.159 0233	9.914 7536		263	
738	9.755 7412	109	9.840 9929	162	0.159 0071	9.914 7483	53	262	
739	9.755 7522	110	9.841 0091	162	0.158 9909	9.914 7431	52	261	
		109		162			53		
.740	9.755 7631		9.841 0253		0.158 9747	9.914 7378		.260	
		109		162			52		
741	9.755 7740		9.841 0415		0.158 9585	9.914 7326		259	
742	9.755 7850	110	9.841 0577	162	0.158 9423	9.914 7273	53	258	
743	9.755 7959	109	9.841 0739	162	0.158 9261	9.914 7220	53	257	
		109		161			52		
744	9.755 8068		9.841 0900		0.158 9100	9.914 7168		256	
745	9.755 8178	110	9.841 1062	162	0.158 8938	9.914 7115	53	255	
746	9.755 8287	109	9.841 1224	162	0.158 8776	9.914 7063	52	254	
		109		162			53		
747	9.755 8396		9.841 1386		0.158 8614	9.914 7010		253	
748	9.755 8505	109	9.841 1548	162	0.158 8452	9.914 6958	52	252	
749	9.755 8615	110	9.841 1710	162	0.158 8290	9.914 6905	53	251	
		109		161			53		
.750	9.755 8724		9.841 1871		0.158 8129	9.914 6852		.250	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.300 — 55°.250

34°.750 — 34°.800

34°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.755 8724		9.841 1871		0.158 8129	9.914 6852		.250	
		109		162			52		
751	9.755 8833		9.841 2033		0.158 7967	9.914 6800		249	
752	9.755 8942	109	9.841 2195	162	0.158 7805	9.914 6747	53	248	
753	9.755 9052	110	9.841 2357	162	0.158 7643	9.914 6695	52	247	
		109		162			53		
754	9.755 9161		9.841 2519		0.158 7481	9.914 6642		246	
755	9.755 9270	109	9.841 2681	162	0.158 7319	9.914 6589	53	245	
756	9.755 9379	109	9.841 2843	162	0.158 7157	9.914 6537	52	244	
		110		161			53		
757	9.755 9489		9.841 3004		0.158 6996	9.914 6484		243	
758	9.755 9598	109	9.841 3166	162	0.158 6834	9.914 6432	52	242	
759	9.755 9707	109	9.841 3328	162	0.158 6672	9.914 6379	53	241	
		109		162			53		
.760	9.755 9816		9.841 3490		0.158 6510	9.914 6326		.240	
		110		162			52		
761	9.755 9926		9.841 3652		0.158 6348	9.914 6274		239	
762	9.756 0035	109	9.841 3813	161	0.158 6187	9.914 6221	53	238	
763	9.756 0144	109	9.841 3975	162	0.158 6025	9.914 6169	52	237	
		109		162			53		
764	9.756 0253		9.841 4137		0.158 5863	9.914 6116		236	
765	9.756 0362	109	9.841 4299	162	0.158 5701	9.914 6063	53	235	
766	9.756 0472	110	9.841 4461	162	0.158 5539	9.914 6011	52	234	
		109		162			53		
767	9.756 0581		9.841 4623		0.158 5377	9.914 5958		233	
768	9.756 0690	109	9.841 4784	161	0.158 5216	9.914 5906	52	232	
769	9.756 0799	109	9.841 4946	162	0.158 5054	9.914 5853	53	231	
		109		162			53		
.770	9.756 0908		9.841 5108		0.158 4892	9.914 5800		.230	
		110		162			52		
771	9.756 1018		9.841 5270		0.158 4730	9.914 5748		229	
772	9.756 1127	109	9.841 5432	162	0.158 4568	9.914 5695	53	228	
773	9.756 1236	109	9.841 5593	161	0.158 4407	9.914 5642	53	227	
		109		162			52		
774	9.756 1345		9.841 5755		0.158 4245	9.914 5590		226	
775	9.756 1454	109	9.841 5917	162	0.158 4083	9.914 5537	53	225	
776	9.756 1563	109	9.841 6079	162	0.158 3921	9.914 5485	52	224	
		110		162			53		
777	9.756 1673		9.841 6241		0.158 3759	9.914 5432		223	
778	9.756 1782	109	9.841 6402	161	0.158 3598	9.914 5379	53	222	
779	9.756 1891	109	9.841 6564	162	0.158 3436	9.914 5327	52	221	
		109		162			53		
.780	9.756 2000		9.841 6726		0.158 3274	9.914 5274		.220	
		109		162			53		
781	9.756 2109		9.841 6888		0.158 3112	9.914 5221		219	
782	9.756 2218	109	9.841 7049	161	0.158 2951	9.914 5169	52	218	
783	9.756 2327	109	9.841 7211	162	0.158 2789	9.914 5116	53	217	
		109		162			53		
784	9.756 2436		9.841 7373		0.158 2627	9.914 5063		216	
785	9.756 2546	110	9.841 7535	162	0.158 2465	9.914 5011	52	215	
786	9.756 2655	109	9.841 7697	162	0.158 2303	9.914 4958	53	214	
		109		161			53		
787	9.756 2764		9.841 7858		0.158 2142	9.914 4905		213	
788	9.756 2873	109	9.841 8020	162	0.158 1980	9.914 4853	52	212	
789	9.756 2982	109	9.841 8182	162	0.158 1818	9.914 4800	53	211	
		109		162			52		
.790	9.756 3091		9.841 8344		0.158 1656	9.914 4748		.210	
		109		161			53		
791	9.756 3200		9.841 8505		0.158 1495	9.914 4695		209	
792	9.756 3309	109	9.841 8667	162	0.158 1333	9.914 4642	53	208	
793	9.756 3418	109	9.841 8829	162	0.158 1171	9.914 4590	52	207	
		110		162			53		
794	9.756 3528		9.841 8991		0.158 1009	9.914 4537		206	
795	9.756 3637	109	9.841 9152	161	0.158 0848	9.914 4484	53	205	
796	9.756 3746	109	9.841 9314	162	0.158 0686	9.914 4431	53	204	
		109		162			52		
797	9.756 3855		9.841 9476		0.158 0524	9.914 4379		203	
798	9.756 3964	109	9.841 9638	162	0.158 0362	9.914 4326	53	202	
799	9.756 4073	109	9.841 9799	161	0.158 0201	9.914 4273	53	201	
		109		162			52		
.800	9.756 4182		9.841 9961		0.158 0039	9.914 4221		.200	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	110
1	11.0
2	22.0
3	33.0
4	44.0
5	55.0
6	66.0
7	77.0
8	88.0
9	99.0

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.250 — 55°.200

34°.800 — 34°.850

34°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.756 4182		9.841 9961		0.158 0039	9.914 4221		.200	
		109		162			53		
801	9.756 4291		9.842 0123		0.157 9877	9.914 4168		199	
802	9.756 4400	109	9.842 0285	162	0.157 9715	9.914 4115	53	198	
803	9.756 4509	109	9.842 0446	161	0.157 9554	9.914 4063	52	197	
		109		162			53		
804	9.756 4618		9.842 0608		0.157 9392	9.914 4010		196	
805	9.756 4727	109	9.842 0770	162	0.157 9230	9.914 3957	53	195	
806	9.756 4836	109	9.842 0932	162	0.157 9068	9.914 3905	52	194	
		109		161			53		
807	9.756 4945		9.842 1093		0.157 8907	9.914 3852		193	
808	9.756 5054	109	9.842 1255	162	0.157 8745	9.914 3799	53	192	
809	9.756 5163	109	9.842 1417	162	0.157 8583	9.914 3747	52	191	
		109		161			53		
.810	9.756 5272		9.842 1578		0.157 8422	9.914 3694		.190	
		109		162			53		
811	9.756 5381		9.842 1740		0.157 8260	9.914 3641		189	
812	9.756 5490	109	9.842 1902	162	0.157 8098	9.914 3588	53	188	
813	9.756 5599	109	9.842 2064	162	0.157 7936	9.914 3536	52	187	
		109		161			53		
814	9.756 5708		9.842 2225		0.157 7775	9.914 3483		186	
815	9.756 5817	109	9.842 2387	162	0.157 7613	9.914 3430	53	185	
816	9.756 5926	109	9.842 2549	162	0.157 7451	9.914 3378	52	184	
		109		161			53		
817	9.756 6035		9.842 2710		0.157 7290	9.914 3325		183	
818	9.756 6144	109	9.842 2872	162	0.157 7128	9.914 3272	53	182	
819	9.756 6253	109	9.842 3034	162	0.157 6966	9.914 3219	53	181	
		109		162			52		
.820	9.756 6362		9.842 3196		0.157 6804	9.914 3167		.180	
		109		161			53		
821	9.756 6471		9.842 3357		0.157 6643	9.914 3114		179	
822	9.756 6580	109	9.842 3519	162	0.157 6481	9.914 3061	53	178	
823	9.756 6689	109	9.842 3681	162	0.157 6319	9.914 3009	52	177	
		109		161			53		
824	9.756 6798		9.842 3842		0.157 6158	9.914 2956		176	
825	9.756 6907	109	9.842 4004	162	0.157 5996	9.914 2903	53	175	
826	9.756 7016	109	9.842 4166	162	0.157 5834	9.914 2850	53	174	
		109		161			52		
827	9.756 7125		9.842 4327		0.157 5673	9.914 2798		173	
828	9.756 7234	109	9.842 4489	162	0.157 5511	9.914 2745	53	172	
829	9.756 7343	109	9.842 4651	162	0.157 5349	9.914 2692	53	171	
		109		161			53		
.830	9.756 7452		9.842 4812		0.157 5188	9.914 2639		.170	
		109		162			52		
831	9.756 7561		9.842 4974		0.157 5026	9.914 2587		169	
832	9.756 7670	109	9.842 5136	162	0.157 4864	9.914 2534	53	168	
833	9.756 7779	109	9.842 5298	162	0.157 4702	9.914 2481	53	167	
		109		161			53		
834	9.756 7888		9.842 5459		0.157 4541	9.914 2428		166	
835	9.756 7997	109	9.842 5621	162	0.157 4379	9.914 2376	52	165	
836	9.756 8106	109	9.842 5783	162	0.157 4217	9.914 2323	53	164	
		108		161			53		
837	9.756 8214		9.842 5944		0.157 4056	9.914 2270		163	
838	9.756 8323	109	9.842 6106	162	0.157 3894	9.914 2217	53	162	
839	9.756 8432	109	9.842 6268	162	0.157 3732	9.914 2165	52	161	
		109		161			53		
.840	9.756 8541		9.842 6429		0.157 3571	9.914 2112		.160	
		109		162			53		
841	9.756 8650		9.842 6591		0.157 3409	9.914 2059		159	
842	9.756 8759	109	9.842 6752	161	0.157 3248	9.914 2006	53	158	
843	9.756 8868	109	9.842 6914	162	0.157 3086	9.914 1954	52	157	
		109		162			53		
844	9.756 8977		9.842 7076		0.157 2924	9.914 1901		156	
845	9.756 9086	109	9.842 7237	161	0.157 2763	9.914 1848	53	155	
846	9.756 9194	108	9.842 7399	162	0.157 2601	9.914 1795	53	154	
		109		162			52		
847	9.756 9303		9.842 7561		0.157 2439	9.914 1743		153	
848	9.756 9412	109	9.842 7722	161	0.157 2278	9.914 1690	53	152	
849	9.756 9521	109	9.842 7884	162	0.157 2116	9.914 1637	53	151	
		109		162			53		
.850	9.756 9630		9.842 8046		0.157 1954	9.914 1584		.150	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.200 — 55°.150

34°.850 — 34°.900

34°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.756 9630		9.842 8046		0.157 1954	9.914 1584		.150	
		109		161			53		
851	9.756 9739		9.842 8207		0.157 1793	9.914 1531		149	
852	9.756 9848	109	9.842 8369	162	0.157 1631	9.914 1479	52	148	
853	9.756 9956	108	9.842 8531	162	0.157 1469	9.914 1426	53	147	
		109		161			53		
854	9.757 0065		9.842 8692		0.157 1308	9.914 1373		146	
855	9.757 0174	109	9.842 8854	162	0.157 1146	9.914 1320	53	145	
856	9.757 0283	109	9.842 9015	161	0.157 0985	9.914 1268	52	144	
		109		162			53		
857	9.757 0392		9.842 9177		0.157 0823	9.914 1215		143	
858	9.757 0501	109	9.842 9339	162	0.157 0661	9.914 1162	53	142	
859	9.757 0609	108	9.842 9500	161	0.157 0500	9.914 1109	53	141	
		109		162			53		
.860	9.757 0718		9.842 9662		0.157 0338	9.914 1056		.140	
		109		162			52		
861	9.757 0827		9.842 9824		0.157 0176	9.914 1004		139	
862	9.757 0936	109	9.842 9985	161	0.157 0015	9.914 0951	53	138	
863	9.757 1045	109	9.843 0147	162	0.156 9853	9.914 0898	53	137	
		109		161			53		
864	9.757 1154		9.843 0308		0.156 9692	9.914 0845		136	
865	9.757 1262	108	9.843 0470	162	0.156 9530	9.914 0792	53	135	
866	9.757 1371	109	9.843 0632	162	0.156 9368	9.914 0740	52	134	
		109		161			53		
867	9.757 1480		9.843 0793		0.156 9207	9.914 0687		133	
868	9.757 1589	109	9.843 0955	162	0.156 9045	9.914 0634	53	132	
869	9.757 1697	108	9.843 1116	161	0.156 8884	9.914 0581	53	131	
		109		162			53		
.870	9.757 1806		9.843 1278		0.156 8722	9.914 0528		.130	
		109		162			53		
871	9.757 1915		9.843 1440		0.156 8560	9.914 0475		129	
872	9.757 2024	109	9.843 1601	161	0.156 8399	9.914 0423	52	128	
873	9.757 2133	109	9.843 1763	162	0.156 8237	9.914 0370	53	127	
		108		161			53		
874	9.757 2241		9.843 1924		0.156 8076	9.914 0317		126	
875	9.757 2350	109	9.843 2086	162	0.156 7914	9.914 0264	53	125	
876	9.757 2459	109	9.843 2247	161	0.156 7753	9.914 0211	53	124	
		109		162			53		
877	9.757 2568		9.843 2409		0.156 7591	9.914 0158		123	
878	9.757 2676	108	9.843 2571	162	0.156 7429	9.914 0106	52	122	
879	9.757 2785	109	9.843 2732	161	0.156 7268	9.914 0053	53	121	
		109		162			53		
.880	9.757 2894		9.843 2894		0.156 7106	9.914 0000		.120	
		109		161			53		
881	9.757 3003		9.843 3055		0.156 6945	9.913 9947		119	
882	9.757 3111	108	9.843 3217	162	0.156 6783	9.913 9894	53	118	
883	9.757 3220	109	9.843 3379	162	0.156 6621	9.913 9841	53	117	
		109		161			52		
884	9.757 3329		9.843 3540		0.156 6460	9.913 9789		116	
885	9.757 3437	108	9.843 3702	162	0.156 6298	9.913 9736	53	115	
886	9.757 3546	109	9.843 3863	161	0.156 6137	9.913 9683	53	114	
		109		162			53		
887	9.757 3655		9.843 4025		0.156 5975	9.913 9630		113	
888	9.757 3764	109	9.843 4186	161	0.156 5814	9.913 9577	53	112	
889	9.757 3872	108	9.843 4348	162	0.156 5652	9.913 9524	53	111	
		109		161			52		
.890	9.757 3981		9.843 4509		0.156 5491	9.913 9472		.110	
		109		162			53		
891	9.757 4090		9.843 4671		0.156 5329	9.913 9419		109	
892	9.757 4198	108	9.843 4833	162	0.156 5167	9.913 9366	53	108	
893	9.757 4307	109	9.843 4994	161	0.156 5006	9.913 9313	53	107	
		109		162			53		
894	9.757 4416		9.843 5156		0.156 4844	9.913 9260		106	
895	9.757 4524	108	9.843 5317	161	0.156 4683	9.913 9207	53	105	
896	9.757 4633	109	9.843 5479	162	0.156 4521	9.913 9154	53	104	
		109		161			53		
897	9.757 4742		9.843 5640		0.156 4360	9.913 9101		103	
898	9.757 4850	108	9.843 5802	162	0.156 4198	9.913 9049	52	102	
899	9.757 4959	109	9.843 5963	161	0.156 4037	9.913 8996	53	101	
		109		162			53		
.900	9.757 5068		9.843 6125		0.156 3875	9.913 8943		.100	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.150 — 55°.100

34°.900 — 34°.950

34°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.757 5068	108	9.843 6125	161	0.156 3875	9.913 8943	53	.100	
901	9.757 5176	109	9.843 6286	162	0.156 3714	9.913 8890	53	099	
902	9.757 5285	109	9.843 6448	161	0.156 3552	9.913 8837	53	098	
903	9.757 5394	108	9.843 6609	162	0.156 3391	9.913 8784	53	097	
904	9.757 5502	109	9.843 6771	162	0.156 3229	9.913 8731	53	096	
905	9.757 5611	109	9.843 6933	161	0.156 3067	9.913 8678	53	095	
906	9.757 5720	108	9.843 7094	162	0.156 2906	9.913 8626	52	094	
907	9.757 5828	109	9.843 7256	161	0.156 2744	9.913 8573	53	093	
908	9.757 5937	108	9.843 7417	162	0.156 2583	9.913 8520	53	092	
909	9.757 6045	109	9.843 7579	161	0.156 2421	9.913 8467	53	091	
.910	9.757 6154	109	9.843 7740	162	0.156 2260	9.913 8414	53	.090	
911	9.757 6263	108	9.843 7902	161	0.156 2098	9.913 8361	53	089	
912	9.757 6371	109	9.843 8063	162	0.156 1937	9.913 8308	53	088	
913	9.757 6480	108	9.843 8225	161	0.156 1775	9.913 8255	53	087	
914	9.757 6588	109	9.843 8386	162	0.156 1614	9.913 8202	53	086	
915	9.757 6697	109	9.843 8548	161	0.156 1452	9.913 8149	53	085	
916	9.757 6806	108	9.843 8709	162	0.156 1291	9.913 8097	52	084	
917	9.757 6914	109	9.843 8871	161	0.156 1129	9.913 8044	53	083	
918	9.757 7023	108	9.843 9032	162	0.156 0968	9.913 7991	53	082	
919	9.757 7131	109	9.843 9194	161	0.156 0806	9.913 7938	53	081	
.920	9.757 7240	109	9.843 9355	162	0.156 0645	9.913 7885	53	.080	
921	9.757 7349	108	9.843 9517	161	0.156 0483	9.913 7832	53	079	
922	9.757 7457	109	9.843 9678	162	0.156 0322	9.913 7779	53	078	
923	9.757 7566	108	9.843 9840	161	0.156 0160	9.913 7726	53	077	
924	9.757 7674	109	9.844 0001	162	0.155 9999	9.913 7673	53	076	
925	9.757 7783	108	9.844 0163	161	0.155 9837	9.913 7620	53	075	
926	9.757 7891	109	9.844 0324	162	0.155 9676	9.913 7567	53	074	
927	9.757 8000	108	9.844 0486	161	0.155 9514	9.913 7514	53	073	
928	9.757 8108	109	9.844 0647	161	0.155 9353	9.913 7461	53	072	
929	9.757 8217	109	9.844 0808	162	0.155 9192	9.913 7409	52	071	
.930	9.757 8326	108	9.844 0970	161	0.155 9030	9.913 7356	53	.070	
931	9.757 8434	109	9.844 1131	162	0.155 8869	9.913 7303	53	069	
932	9.757 8543	108	9.844 1293	161	0.155 8707	9.913 7250	53	068	
933	9.757 8651	109	9.844 1454	162	0.155 8546	9.913 7197	53	067	
934	9.757 8760	108	9.844 1616	161	0.155 8384	9.913 7144	53	066	
935	9.757 8868	109	9.844 1777	162	0.155 8223	9.913 7091	53	065	
936	9.757 8977	108	9.844 1939	161	0.155 8061	9.913 7038	53	064	
937	9.757 9085	109	9.844 2100	162	0.155 7900	9.913 6985	53	063	
938	9.757 9194	108	9.844 2262	161	0.155 7738	9.913 6932	53	062	
939	9.757 9302	109	9.844 2423	162	0.155 7577	9.913 6879	53	061	
.940	9.757 9411	108	9.844 2585	161	0.155 7415	9.913 6826	53	.060	
941	9.757 9519	109	9.844 2746	161	0.155 7254	9.913 6773	53	059	
942	9.757 9628	108	9.844 2907	162	0.155 7093	9.913 6720	53	058	
943	9.757 9736	109	9.844 3069	161	0.155 6931	9.913 6667	53	057	
944	9.757 9845	108	9.844 3230	162	0.155 6770	9.913 6614	53	056	
945	9.757 9953	109	9.844 3392	161	0.155 6608	9.913 6561	53	055	
946	9.758 0062	108	9.844 3553	162	0.155 6447	9.913 6508	53	054	
947	9.758 0170	108	9.844 3715	161	0.155 6285	9.913 6455	53	053	
948	9.758 0278	109	9.844 3876	161	0.155 6124	9.913 6402	53	052	
949	9.758 0387	108	9.844 4037	162	0.155 5963	9.913 6349	53	051	
.950	9.758 0495		9.844 4199		0.155 5801	9.913 6296		.050	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	53	52
1	5.3	5.2
2	10.6	10.4
3	15.9	15.6
4	21.2	20.8
5	26.5	26.0
6	31.8	31.2
7	37.1	36.4
8	42.4	41.6
9	47.7	46.8

55°.100 — 55°.050

34°.950 — 35°.000

34°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.758 0495		9.844 4199		0.155 5801	9.913 6296		.050	
		109		161			53		
951	9.758 0604		9.844 4360		0.155 5640	9.913 6243		049	
952	9.758 0712	108	9.844 4522	162	0.155 5478	9.913 6191	52	048	
953	9.758 0821	109	9.844 4683	161	0.155 5317	9.913 6138	53	047	
		108		162			53		
954	9.758 0929		9.844 4845		0.155 5155	9.913 6085		046	
955	9.758 1038	109	9.844 5006	161	0.155 4994	9.913 6032	53	045	
956	9.758 1146	108	9.844 5167	161	0.155 4833	9.913 5979	53	044	
		108		162			53		
957	9.758 1254		9.844 5329		0.155 4671	9.913 5926		043	
958	9.758 1363	109	9.844 5490	161	0.155 4510	9.913 5873	53	042	
959	9.758 1471	108	9.844 5652	162	0.155 4348	9.913 5820	53	041	
		109		161			53		
.960	9.758 1580		9.844 5813		0.155 4187	9.913 5767		.040	
		108		162			53		
961	9.758 1688		9.844 5975		0.155 4025	9.913 5714		039	
962	9.758 1797	109	9.844 6136	161	0.155 3864	9.913 5661	53	038	
963	9.758 1905	108	9.844 6297	161	0.155 3703	9.913 5608	53	037	
		108		162			53		
964	9.758 2013		9.844 6459		0.155 3541	9.913 5555		036	
965	9.758 2122	109	9.844 6620	161	0.155 3380	9.913 5502	53	035	
966	9.758 2230	108	9.844 6782	162	0.155 3218	9.913 5449	53	034	
		109		161			53		
967	9.758 2339		9.844 6943		0.155 3057	9.913 5396		033	
968	9.758 2447	108	9.844 7104	161	0.155 2896	9.913 5343	53	032	
969	9.758 2555	108	9.844 7266	162	0.155 2734	9.913 5290	53	031	
		109		161			53		
.970	9.758 2664		9.844 7427		0.155 2573	9.913 5237		.030	
		108		161			53		
971	9.758 2772		9.844 7588		0.155 2412	9.913 5184		029	
972	9.758 2880	108	9.844 7750	162	0.155 2250	9.913 5131	53	028	
973	9.758 2989	109	9.844 7911	161	0.155 2089	9.913 5077	54	027	
		108		162			53		
974	9.758 3097		9.844 8073		0.155 1927	9.913 5024		026	
975	9.758 3205	108	9.844 8234	161	0.155 1766	9.913 4971	53	025	
976	9.758 3314	109	9.844 8395	161	0.155 1605	9.913 4918	53	024	
		108		162			53		
977	9.758 3422		9.844 8557		0.155 1443	9.913 4865		023	
978	9.758 3531	109	9.844 8718	161	0.155 1282	9.913 4812	53	022	
979	9.758 3639	108	9.844 8880	162	0.155 1120	9.913 4759	53	021	
		108		161			53		
.980	9.758 3747		9.844 9041		0.155 0959	9.913 4706		.020	
		109		161			53		
981	9.758 3856		9.844 9202		0.155 0798	9.913 4653		019	
982	9.758 3964	108	9.844 9364	162	0.155 0636	9.913 4600	53	018	
983	9.758 4072	108	9.844 9525	161	0.155 0475	9.913 4547	53	017	
		108		161			53		
984	9.758 4180		9.844 9686		0.155 0314	9.913 4494		016	
985	9.758 4289	109	9.844 9848	162	0.155 0152	9.913 4441	53	015	
986	9.758 4397	108	9.845 0009	161	0.154 9991	9.913 4388	53	014	
		108		161			53		
987	9.758 4505		9.845 0170		0.154 9830	9.913 4335		013	
988	9.758 4614	109	9.845 0332	162	0.154 9668	9.913 4282	53	012	
989	9.758 4722	108	9.845 0493	161	0.154 9507	9.913 4229	53	011	
		108		161			53		
.990	9.758 4830		9.845 0654		0.154 9346	9.913 4176		.010	
		109		162			53		
991	9.758 4939		9.845 0816		0.154 9184	9.913 4123		009	
992	9.758 5047	108	9.845 0977	161	0.154 9023	9.913 4070	53	008	
993	9.758 5155	108	9.845 1138	161	0.154 8862	9.913 4017	53	007	
		108		162			53		
994	9.758 5263		9.845 1300		0.154 8700	9.913 3964		006	
995	9.758 5372	109	9.845 1461	161	0.154 8539	9.913 3911	53	005	
996	9.758 5480	108	9.845 1622	161	0.154 8378	9.913 3857	54	004	
		108		162			53		
997	9.758 5588		9.845 1784		0.154 8216	9.913 3804		003	
998	9.758 5697	109	9.845 1945	161	0.154 8055	9.913 3751	53	002	
999	9.758 5805	108	9.845 2106	161	0.154 7894	9.913 3698	53	001	
		108		162			53		
*.000	9.758 5913		9.845 2268		0.154 7732	9.913 3645		.000	
	cos	d	cotg	d	tang	sin	d	55°	P.P.

	162	161
1	16.2	16.1
2	32.4	32.2
3	48.6	48.3
4	64.8	64.4
5	81.0	80.5
6	97.2	96.6
7	113.4	112.7
8	129.6	128.8
9	145.8	144.9

	109	108
1	10.9	10.8
2	21.8	21.6
3	32.7	32.4
4	43.6	43.2
5	54.5	54.0
6	65.4	64.8
7	76.3	75.6
8	87.2	86.4
9	98.1	97.2

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

	52
1	5.2
2	10.4
3	15.6
4	20.8
5	26.0
6	31.2
7	36.4
8	41.6
9	46.8

55°.050 — 55°.000

35°.000 — 35°.050

35°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.758 5913		9.845 2268		0.154 7732	9.913 3645		***000**	
		108		161			53		
001	9.758 6021		9.845 2429		0.154 7571	9.913 3592		999	
002	9.758 6130	109	9.845 2590	161	0.154 7410	9.913 3539	53	998	
003	9.758 6238	108	9.845 2752	162	0.154 7248	9.913 3486	53	997	
		108		161			53		
004	9.758 6346		9.845 2913		0.154 7087	9.913 3433		996	
005	9.758 6454	108	9.845 3074	161	0.154 6926	9.913 3380	53	995	
006	9.758 6562	108	9.845 3236	162	0.154 6764	9.913 3327	53	994	
		109		161			53		
007	9.758 6671		9.845 3397		0.154 6603	9.913 3274		993	
008	9.758 6779	108	9.845 3558	161	0.154 6442	9.913 3221	53	992	
009	9.758 6887	108	9.845 3720	162	0.154 6280	9.913 3167	54	991	
		108		161			53		
.010	9.758 6995		9.845 3881		0.154 6119	9.913 3114		**.990**	
		109		161			53		
011	9.758 7104		9.845 4042		0.154 5958	9.913 3061		989	
012	9.758 7212	108	9.845 4204	162	0.154 5796	9.913 3008	53	988	
013	9.758 7320	108	9.845 4365	161	0.154 5635	9.913 2955	53	987	
		108		161			53		
014	9.758 7428		9.845 4526		0.154 5474	9.913 2902		986	
015	9.758 7536	108	9.845 4687	161	0.154 5313	9.913 2849	53	985	
016	9.758 7645	109	9.845 4849	162	0.154 5151	9.913 2796	53	984	
		108		161			53		
017	9.758 7753		9.845 5010		0.154 4990	9.913 2743		983	
018	9.758 7861	108	9.845 5171	161	0.154 4829	9.913 2690	53	982	
019	9.758 7969	108	9.845 5333	162	0.154 4667	9.913 2636	54	981	
		108		161			53		
.020	9.758 8077		9.845 5494		0.154 4506	9.913 2583		**.980**	
		108		161			53		
021	9.758 8185		9.845 5655		0.154 4345	9.913 2530		979	
022	9.758 8294	109	9.845 5817	162	0.154 4183	9.913 2477	53	978	
023	9.758 8402	108	9.845 5978	161	0.154 4022	9.913 2424	53	977	
		108		161			53		
024	9.758 8510		9.845 6139		0.154 3861	9.913 2371		976	
025	9.758 8618	108	9.845 6300	161	0.154 3700	9.913 2318	53	975	
026	9.758 8726	108	9.845 6462	162	0.154 3538	9.913 2265	53	974	
		108		161			54		
027	9.758 8834		9.845 6623		0.154 3377	9.913 2211		973	
028	9.758 8942	108	9.845 6784	161	0.154 3216	9.913 2158	53	972	
029	9.758 9051	109	9.845 6945	161	0.154 3055	9.913 2105	53	971	
		108		162			53		
.030	9.758 9159		9.845 7107		0.154 2893	9.913 2052		**.970**	
		108		161			53		
031	9.758 9267		9.845 7268		0.154 2732	9.913 1999		969	
032	9.758 9375	108	9.845 7429	161	0.154 2571	9.913 1946	53	968	
033	9.758 9483	108	9.845 7590	161	0.154 2410	9.913 1893	53	967	
		108		162			53		
034	9.758 9591		9.845 7752		0.154 2248	9.913 1840		966	
035	9.758 9699	108	9.845 7913	161	0.154 2087	9.913 1786	54	965	
036	9.758 9807	108	9.845 8074	161	0.154 1926	9.913 1733	53	964	
		109		162			53		
037	9.758 9916		9.845 8236		0.154 1764	9.913 1680		963	
038	9.759 0024	108	9.845 8397	161	0.154 1603	9.913 1627	53	962	
039	9.759 0132	108	9.845 8558	161	0.154 1442	9.913 1574	53	961	
		108		161			53		
.040	9.759 0240		9.845 8719		0.154 1281	9.913 1521		**.960**	
		108		161			54		
041	9.759 0348		9.845 8880		0.154 1120	9.913 1467		959	
042	9.759 0456	108	9.845 9042	162	0.154 0958	9.913 1414	53	958	
043	9.759 0564	108	9.845 9203	161	0.154 0797	9.913 1361	53	957	
		108		161			53		
044	9.759 0672		9.845 9364		0.154 0636	9.913 1308		956	
045	9.759 0780	108	9.845 9525	161	0.154 0475	9.913 1255	53	955	
046	9.759 0888	108	9.845 9687	162	0.154 0313	9.913 1202	53	954	
		108		161			54		
047	9.759 0996		9.845 9848		0.154 0152	9.913 1148		953	
048	9.759 1104	108	9.846 0009	161	0.153 9991	9.913 1095	53	952	
049	9.759 1213	109	9.846 0170	161	0.153 9830	9.913 1042	53	951	
		108		162			53		
.050	9.759 1321		9.846 0332		0.153 9668	9.913 0989		**.950**	
	cos	d	cotg	d	tang	sin	d	**54°**	P.P.

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	109
1	10.9
2	21.8
3	32.7
4	43.6
5	54.5
6	65.4
7	76.3
8	87.2
9	98.1

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

55°.000 — 54°.950

35°.050 — 35°.100

35°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.759 1321		9.846 0332		0.153 9668	9.913 0989		.950	
		108		161			53		
051	9.759 1429		9.846 0493		0.153 9507	9.913 0936		949	
052	9.759 1537	108	9.846 0654	161	0.153 9346	9.913 0883	53	948	
053	9.759 1645	108	9.846 0815	161	0.153 9185	9.913 0829	54	947	
		108		161			53		
054	9.759 1753		9.846 0976		0.153 9024	9.913 0776		946	
055	9.759 1861	108	9.846 1138	162	0.153 8862	9.913 0723	53	945	
056	9.759 1969	108	9.846 1299	161	0.153 8701	9.913 0670	53	944	
		108		161			53		
057	9.759 2077		9.846 1460		0.153 8540	9.913 0617		943	
058	9.759 2185	108	9.846 1621	161	0.153 8379	9.913 0564	53	942	
059	9.759 2293	108	9.846 1783	162	0.153 8217	9.913 0510	54	941	
		108		161			53		
.060	9.759 2401		9.846 1944		0.153 8056	9.913 0457		.940	
		108		161			53		
061	9.759 2509		9.846 2105		0.153 7895	9.913 0404		939	
062	9.759 2617	108	9.846 2266	161	0.153 7734	9.913 0351	53	938	
063	9.759 2725	108	9.846 2427	161	0.153 7573	9.913 0298	53	937	
		108		162			54		
064	9.759 2833		9.846 2589		0.153 7411	9.913 0244		936	
065	9.759 2941	108	9.846 2750	161	0.153 7250	9.913 0191	53	935	
066	9.759 3049	108	9.846 2911	161	0.153 7089	9.913 0138	53	934	
		108		161			53		
067	9.759 3157		9.846 3072		0.153 6928	9.913 0085		933	
068	9.759 3265	108	9.846 3233	161	0.153 6767	9.913 0032	53	932	
069	9.759 3373	108	9.846 3394	161	0.153 6606	9.912 9978	54	931	
		108		162			53		
.070	9.759 3481		9.846 3556		0.153 6444	9.912 9925		.930	
		108		161			53		
071	9.759 3589		9.846 3717		0.153 6283	9.912 9872		929	
072	9.759 3697	108	9.846 3878	161	0.153 6122	9.912 9819	53	928	
073	9.759 3805	108	9.846 4039	161	0.153 5961	9.912 9765	54	927	
		108		161			53		
074	9.759 3913		9.846 4200		0.153 5800	9.912 9712		926	
075	9.759 4021	108	9.846 4362	162	0.153 5638	9.912 9659	53	925	
076	9.759 4129	108	9.846 4523	161	0.153 5477	9.912 9606	53	924	
		107		161			53		
077	9.759 4236		9.846 4684		0.153 5316	9.912 9553		923	
078	9.759 4344	108	9.846 4845	161	0.153 5155	9.912 9499	54	922	
079	9.759 4452	108	9.846 5006	161	0.153 4994	9.912 9446	53	921	
		108		161			53		
.080	9.759 4560		9.846 5167		0.153 4833	9.912 9393		.920	
		108		162			53		
081	9.759 4668		9.846 5329		0.153 4671	9.912 9340		919	
082	9.759 4776	108	9.846 5490	161	0.153 4510	9.912 9286	54	918	
083	9.759 4884	108	9.846 5651	161	0.153 4349	9.912 9233	53	917	
		108		161			53		
084	9.759 4992		9.846 5812		0.153 4188	9.912 9180		916	
085	9.759 5100	108	9.846 5973	161	0.153 4027	9.912 9127	53	915	
086	9.759 5208	108	9.846 6134	161	0.153 3866	9.912 9073	54	914	
		108		161			53		
087	9.759 5316		9.846 6295		0.153 3705	9.912 9020		913	
088	9.759 5424	108	9.846 6457	162	0.153 3543	9.912 8967	53	912	
089	9.759 5532	108	9.846 6618	161	0.153 3382	9.912 8914	53	911	
		107		161			54		
.090	9.759 5639		9.846 6779		0.153 3221	9.912 8860		.910	
		108		161			53		
091	9.759 5747		9.846 6940		0.153 3060	9.912 8807		909	
092	9.759 5855	108	9.846 7101	161	0.153 2899	9.912 8754	53	908	
093	9.759 5963	108	9.846 7262	161	0.153 2738	9.912 8701	53	907	
		108		161			54		
094	9.759 6071		9.846 7423		0.153 2577	9.912 8647		906	
095	9.759 6179	108	9.846 7585	162	0.153 2415	9.912 8594	53	905	
096	9.759 6287	108	9.846 7746	161	0.153 2254	9.912 8541	53	904	
		108		161			53		
097	9.759 6395		9.846 7907		0.153 2093	9.912 8488		903	
098	9.759 6502	107	9.846 8068	161	0.153 1932	9.912 8434	54	902	
099	9.759 6610	108	9.846 8229	161	0.153 1771	9.912 8381	53	901	
		108		161			53		
.100	9.759 6718		9.846 8390		0.153 1610	9.912 8328		.900	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

54°.950 — 54°.900

35°.100 — 35°.150

35°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.759 6718		9.846 8390		0.153 1610	9.912 8328		.900	
		108		161			53		
101	9.759 6826		9.846 8551		0.153 1449	9.912 8275		899	
102	9.759 6934	108	9.846 8713	162	0.153 1287	9.912 8221	54	898	
103	9.759 7042	108	9.846 8874	161	0.153 1126	9.912 8168	53	897	
		107		161			53		
104	9.759 7149		9.846 9035		0.153 0965	9.912 8115		896	
105	9.759 7257	108	9.846 9196	161	0.153 0804	9.912 8061	54	895	
106	9.759 7365	108	9.846 9357	161	0.153 0643	9.912 8008	53	894	
		108		161			53		
107	9.759 7473		9.846 9518		0.153 0482	9.912 7955		893	
108	9.759 7581	108	9.846 9679	161	0.153 0321	9.912 7902	53	892	
109	9.759 7689	108	9.846 9840	161	0.153 0160	9.912 7848	54	891	
		107		161			53		
.110	9.759 7796		9.847 0001		0.152 9999	9.912 7795		.890	
		108		161			53		
111	9.759 7904		9.847 0162		0.152 9838	9.912 7742		889	
112	9.759 8012	108	9.847 0324	162	0.152 9676	9.912 7688	54	888	
113	9.759 8120	108	9.847 0485	161	0.152 9515	9.912 7635	53	887	
		108		161			53		
114	9.759 8228		9.847 0646		0.152 9354	9.912 7582		886	
115	9.759 8335	107	9.847 0807	161	0.152 9193	9.912 7529	53	885	
116	9.759 8443	108	9.847 0968	161	0.152 9032	9.912 7475	54	884	
		108		161			53		
117	9.759 8551		9.847 1129		0.152 8871	9.912 7422		883	
118	9.759 8659	108	9.847 1290	161	0.152 8710	9.912 7369	53	882	
119	9.759 8767	108	9.847 1451	161	0.152 8549	9.912 7315	54	881	
		107		161			53		
.120	9.759 8874		9.847 1612		0.152 8388	9.912 7262		.880	
		108		161			53		
121	9.759 8982		9.847 1773		0.152 8227	9.912 7209		879	
122	9.759 9090	108	9.847 1934	161	0.152 8066	9.912 7155	54	878	
123	9.759 9198	108	9.847 2096	162	0.152 7904	9.912 7102	53	877	
		107		161			53		
124	9.759 9305		9.847 2257		0.152 7743	9.912 7049		876	
125	9.759 9413	108	9.847 2418	161	0.152 7582	9.912 6995	54	875	
126	9.759 9521	108	9.847 2579	161	0.152 7421	9.912 6942	53	874	
		108		161			53		
127	9.759 9629		9.847 2740		0.152 7260	9.912 6889		873	
128	9.759 9736	107	9.847 2901	161	0.152 7099	9.912 6835	54	872	
129	9.759 9844	108	9.847 3062	161	0.152 6938	9.912 6782	53	871	
		108		161			53		
.130	9.759 9952		9.847 3223		0.152 6777	9.912 6729		.870	
		108		161			54		
131	9.760 0060		9.847 3384		0.152 6616	9.912 6675		869	
132	9.760 0167	107	9.847 3545	161	0.152 6455	9.912 6622	53	868	
133	9.760 0275	108	9.847 3706	161	0.152 6294	9.912 6569	53	867	
		108		161			54		
134	9.760 0383		9.847 3867		0.152 6133	9.912 6515		866	
135	9.760 0490	107	9.847 4028	161	0.152 5972	9.912 6462	53	865	
136	9.760 0598	108	9.847 4189	161	0.152 5811	9.912 6409	53	864	
		108		161			54		
137	9.760 0706		9.847 4350		0.152 5650	9.912 6355		863	
138	9.760 0814	108	9.847 4511	161	0.152 5489	9.912 6302	53	862	
139	9.760 0921	107	9.847 4673	162	0.152 5327	9.912 6249	53	861	
		108		161			54		
.140	9.760 1029		9.847 4834		0.152 5166	9.912 6195		.860	
		108		161			53		
141	9.760 1137		9.847 4995		0.152 5005	9.912 6142		859	
142	9.760 1244	107	9.847 5156	161	0.152 4844	9.912 6089	53	858	
143	9.760 1352	108	9.847 5317	161	0.152 4683	9.912 6035	54	857	
		108		161			53		
144	9.760 1460		9.847 5478		0.152 4522	9.912 5982		856	
145	9.760 1567	107	9.847 5639	161	0.152 4361	9.912 5929	53	855	
146	9.760 1675	108	9.847 5800	161	0.152 4200	9.912 5875	54	854	
		108		161			53		
147	9.760 1783		9.847 5961		0.152 4039	9.912 5822		853	
148	9.760 1890	107	9.847 6122	161	0.152 3878	9.912 5769	53	852	
149	9.760 1998	108	9.847 6283	161	0.152 3717	9.912 5715	54	851	
		108		161			53		
.150	9.760 2106		9.847 6444		0.152 3556	9.912 5662		.850	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	162
1	16.2
2	32.4
3	48.6
4	64.8
5	81.0
6	97.2
7	113.4
8	129.6
9	145.8

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

54°.900 — 54°.850

35°.150 — 35°.200

35°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.760 2106		9.847 6444		0.152 3556	9.912 5662		**.850**	
		107		161			54		
151	9.760 2213		9.847 6605		0.152 3395	9.912 5608		849	
152	9.760 2321	108	9.847 6766	161	0.152 3234	9.912 5555	53	848	
153	9.760 2429	108	9.847 6927	161	0.152 3073	9.912 5502	53	847	
		107		161			54		
154	9.760 2536		9.847 7088		0.152 2912	9.912 5448		846	
155	9.760 2644	108	9.847 7249	161	0.152 2751	9.912 5395	53	845	
156	9.760 2751	107	9.847 7410	161	0.152 2590	9.912 5342	53	844	
		108		161			54		
157	9.760 2859		9.847 7571		0.152 2429	9.912 5288		843	
158	9.760 2967	108	9.847 7732	161	0.152 2268	9.912 5235	53	842	
159	9.760 3074	107	9.847 7893	161	0.152 2107	9.912 5181	54	841	
		108		161			53		
.160	9.760 3182		9.847 8054		0.152 1946	9.912 5128		**.840**	
		108		161			53		
161	9.760 3290		9.847 8215		0.152 1785	9.912 5075		839	
162	9.760 3397	107	9.847 8376	161	0.152 1624	9.912 5021	54	838	
163	9.760 3505	108	9.847 8537	161	0.152 1463	9.912 4968	53	837	
		107		161			54		
164	9.760 3612		9.847 8698		0.152 1302	9.912 4914		836	
165	9.760 3720	108	9.847 8859	161	0.152 1141	9.912 4861	53	835	
166	9.760 3828	108	9.847 9020	161	0.152 0980	9.912 4808	53	834	
		107		161			54		
167	9.760 3935		9.847 9181		0.152 0819	9.912 4754		833	
168	9.760 4043	108	9.847 9342	161	0.152 0658	9.912 4701	53	832	
169	9.760 4150	107	9.847 9503	161	0.152 0497	9.912 4647	54	831	
		108		161			53		
.170	9.760 4258		9.847 9664		0.152 0336	9.912 4594		**.830**	
		107		161			53		
171	9.760 4365		9.847 9825		0.152 0175	9.912 4541		829	
172	9.760 4473	108	9.847 9986	161	0.152 0014	9.912 4487	54	828	
173	9.760 4581	108	9.848 0147	161	0.151 9853	9.912 4434	53	827	
		107		161			54		
174	9.760 4688		9.848 0308		0.151 9692	9.912 4380		826	
175	9.760 4796	108	9.848 0469	161	0.151 9531	9.912 4327	53	825	
176	9.760 4903	107	9.848 0630	161	0.151 9370	9.912 4273	54	824	
		108		161			53		
177	9.760 5011		9.848 0791		0.151 9209	9.912 4220		823	
178	9.760 5118	107	9.848 0952	161	0.151 9048	9.912 4167	53	822	
179	9.760 5226	108	9.848 1113	161	0.151 8887	9.912 4113	54	821	
		107		161			53		
.180	9.760 5333		9.848 1274		0.151 8726	9.912 4060		**.820**	
		108		161			54		
181	9.760 5441		9.848 1435		0.151 8565	9.912 4006		819	
182	9.760 5548	107	9.848 1596	161	0.151 8404	9.912 3953	53	818	
183	9.760 5656	108	9.848 1757	161	0.151 8243	9.912 3899	54	817	
		107		160			53		
184	9.760 5763		9.848 1917		0.151 8083	9.912 3846		816	
185	9.760 5871	108	9.848 2078	161	0.151 7922	9.912 3793	53	815	
186	9.760 5978	107	9.848 2239	161	0.151 7761	9.912 3739	54	814	
		108		161			53		
187	9.760 6086		9.848 2400		0.151 7600	9.912 3686		813	
188	9.760 6193	107	9.848 2561	161	0.151 7439	9.912 3632	54	812	
189	9.760 6301	108	9.848 2722	161	0.151 7278	9.912 3579	53	811	
		107		161			54		
.190	9.760 6408		9.848 2883		0.151 7117	9.912 3525		**.810**	
		108		161			53		
191	9.760 6516		9.848 3044		0.151 6956	9.912 3472		809	
192	9.760 6623	107	9.848 3205	161	0.151 6795	9.912 3418	54	808	
193	9.760 6731	108	9.848 3366	161	0.151 6634	9.912 3365	53	807	
		107		161			53		
194	9.760 6838		9.848 3527		0.151 6473	9.912 3312		806	
195	9.760 6946	108	9.848 3688	161	0.151 6312	9.912 3258	54	805	
196	9.760 7053	107	9.848 3849	161	0.151 6151	9.912 3205	53	804	
		108		161			54		
197	9.760 7161		9.848 4010		0.151 5990	9.912 3151		803	
198	9.760 7268	107	9.848 4171	161	0.151 5829	9.912 3098	53	802	
199	9.760 7376	108	9.848 4332	161	0.151 5668	9.912 3044	54	801	
		107		160			53		
.200	9.760 7483		9.848 4492		0.151 5508	9.912 2991		**.800**	
	cos	d	cotg	d	tang	sin	d	**54°**	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

54°.850 — 54°.800

35°.200 — 35°.250

35°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.760 7483		9.848 4492		0.151 5508	9.912 2991		**.800**	
		108		161			54		
201	9.760 7591		9.848 4653		0.151 5347	9.912 2937		799	
202	9.760 7698	107	9.848 4814	161	0.151 5186	9.912 2884	53	798	
203	9.760 7806	108	9.848 4975	161	0.151 5025	9.912 2830	54	797	
		107		161			53		
204	9.760 7913		9.848 5136		0.151 4864	9.912 2777		796	
205	9.760 8020	107	9.848 5297	161	0.151 4703	9.912 2723	54	795	
206	9.760 8128	108	9.848 5458	161	0.151 4542	9.912 2670	53	794	
		107		161			54		
207	9.760 8235		9.848 5619		0.151 4381	9.912 2616		793	
208	9.760 8343	108	9.848 5780	161	0.151 4220	9.912 2563	53	792	
209	9.760 8450	107	9.848 5941	161	0.151 4059	9.912 2509	54	791	
		108		161			53		
.210	9.760 8558		9.848 6102		0.151 3898	9.912 2456		**.790**	
		107		160			54		
211	9.760 8665		9.848 6262		0.151 3738	9.912 2402		789	
212	9.760 8772	107	9.848 6423	161	0.151 3577	9.912 2349	53	788	
213	9.760 8880	108	9.848 6584	161	0.151 3416	9.912 2295	54	787	
		107		161			53		
214	9.760 8987		9.848 6745		0.151 3255	9.912 2242		786	
215	9.760 9095	108	9.848 6906	161	0.151 3094	9.912 2188	54	785	
216	9.760 9202	107	9.848 7067	161	0.151 2933	9.912 2135	53	784	
		107		161			54		
217	9.760 9309		9.848 7228		0.151 2772	9.912 2081		783	
218	9.760 9417	108	9.848 7389	161	0.151 2611	9.912 2028	53	782	
219	9.760 9524	107	9.848 7550	161	0.151 2450	9.912 1974	54	781	
		107		160			53		
.220	9.760 9631		9.848 7710		0.151 2290	9.912 1921		**.780**	
		108		161			54		
221	9.760 9739		9.848 7871		0.151 2129	9.912 1867		779	
222	9.760 9846	107	9.848 8032	161	0.151 1968	9.912 1814	53	778	
223	9.760 9954	108	9.848 8193	161	0.151 1807	9.912 1760	54	777	
		107		161			53		
224	9.761 0061		9.848 8354		0.151 1646	9.912 1707		776	
225	9.761 0168	107	9.848 8515	161	0.151 1485	9.912 1653	54	775	
226	9.761 0276	108	9.848 8676	161	0.151 1324	9.912 1600	53	774	
		107		161			54		
227	9.761 0383		9.848 8837		0.151 1163	9.912 1546		773	
228	9.761 0490	107	9.848 8997	160	0.151 1003	9.912 1493	53	772	
229	9.761 0598	108	9.848 9158	161	0.151 0842	9.912 1439	54	771	
		107		161			53		
.230	9.761 0705		9.848 9319		0.151 0681	9.912 1386		**.770**	
		107		161			54		
231	9.761 0812		9.848 9480		0.151 0520	9.912 1332		769	
232	9.761 0920	108	9.848 9641	161	0.151 0359	9.912 1279	53	768	
233	9.761 1027	107	9.848 9802	161	0.151 0198	9.912 1225	54	767	
		107		161			53		
234	9.761 1134		9.848 9963		0.151 0037	9.912 1172		766	
235	9.761 1242	108	9.849 0123	160	0.150 9877	9.912 1118	54	765	
236	9.761 1349	107	9.849 0284	161	0.150 9716	9.912 1065	53	764	
		107		161			54		
237	9.761 1456		9.849 0445		0.150 9555	9.912 1011		763	
238	9.761 1563	107	9.849 0606	161	0.150 9394	9.912 0957	54	762	
239	9.761 1671	108	9.849 0767	161	0.150 9233	9.912 0904	53	761	
		107		161			54		
.240	9.761 1778		9.849 0928		0.150 9072	9.912 0850		**.760**	
		107		161			53		
241	9.761 1885		9.849 1089		0.150 8911	9.912 0797		759	
242	9.761 1993	108	9.849 1249	160	0.150 8751	9.912 0743	54	758	
243	9.761 2100	107	9.849 1410	161	0.150 8590	9.912 0690	53	757	
		107		161			54		
244	9.761 2207		9.849 1571		0.150 8429	9.912 0636		756	
245	9.761 2314	107	9.849 1732	161	0.150 8268	9.912 0583	53	755	
246	9.761 2422	108	9.849 1893	161	0.150 8107	9.912 0529	54	754	
		107		161			54		
247	9.761 2529		9.849 2054		0.150 7946	9.912 0475		753	
248	9.761 2636	107	9.849 2214	160	0.150 7786	9.912 0422	53	752	
249	9.761 2744	108	9.849 2375	161	0.150 7625	9.912 0368	54	751	
		107		161			53		
.250	9.761 2851		9.849 2536		0.150 7464	9.912 0315		**.750**	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

54°.800 — 54°.750

$35^\circ.250 - 35^\circ.300$

35°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.761 2851		9.849 2536		0.150 7464	9.912 0315		.750	
		107		161			54		
251	9.761 2958		9.849 2697		0.150 7303	9.912 0261		749	
252	9.761 3065	107	9.849 2858	161	0.150 7142	9.912 0208	53	748	
253	9.761 3173	108	9.849 3019	161	0.150 6981	9.912 0154	54	747	
		107		160			54		
254	9.761 3280		9.849 3179		0.150 6821	9.912 0100		746	
255	9.761 3387	107	9.849 3340	161	0.150 6660	9.912 0047	53	745	
256	9.761 3494	107	9.849 3501	161	0.150 6499	9.911 9993	54	744	
		107		161			53		
257	9.761 3601		9.849 3662		0.150 6338	9.911 9940		743	
258	9.761 3709	108	9.849 3823	161	0.150 6177	9.911 9886	54	742	
259	9.761 3816	107	9.849 3983	160	0.150 6017	9.911 9833	53	741	
		107		161			54		
.260	9.761 3923		9.849 4144		0.150 5856	9.911 9779		.740	
		107		161			54		
261	9.761 4030		9.849 4305		0.150 5695	9.911 9725		739	
262	9.761 4138	108	9.849 4466	161	0.150 5534	9.911 9672	53	738	
263	9.761 4245	107	9.849 4627	161	0.150 5373	9.911 9618	54	737	
		107		160			53		
264	9.761 4352		9.849 4787		0.150 5213	9.911 9565		736	
265	9.761 4459	107	9.849 4948	161	0.150 5052	9.911 9511	54	735	
266	9.761 4566	107	9.849 5109	161	0.150 4891	9.911 9457	54	734	
		108		161			53		
267	9.761 4674		9.849 5270		0.150 4730	9.911 9404		733	
268	9.761 4781	107	9.849 5431	161	0.150 4569	9.911 9350	54	732	
269	9.761 4888	107	9.849 5591	160	0.150 4409	9.911 9297	53	731	
		107		161			54		
.270	9.761 4995		9.849 5752		0.150 4248	9.911 9243		.730	
		107		161			54		
271	9.761 5102		9.849 5913		0.150 4087	9.911 9189		729	
272	9.761 5209	107	9.849 6074	161	0.150 3926	9.911 9136	53	728	
273	9.761 5317	108	9.849 6234	160	0.150 3766	9.911 9082	54	727	
		107		161			53		
274	9.761 5424		9.849 6395		0.150 3605	9.911 9029		726	
275	9.761 5531	107	9.849 6556	161	0.150 3444	9.911 8975	54	725	
276	9.761 5638	107	9.849 6717	161	0.150 3283	9.911 8921	54	724	
		107		161			53		
277	9.761 5745		9.849 6878		0.150 3122	9.911 8868		723	
278	9.761 5852	107	9.849 7038	160	0.150 2962	9.911 8814	54	722	
279	9.761 5959	107	9.849 7199	161	0.150 2801	9.911 8760	54	721	
		108		161			53		
.280	9.761 6067		9.849 7360		0.150 2640	9.911 8707		.720	
		107		161			54		
281	9.761 6174		9.849 7521		0.150 2479	9.911 8653		719	
282	9.761 6281	107	9.849 7681	160	0.150 2319	9.911 8600	53	718	
283	9.761 6388	107	9.849 7842	161	0.150 2158	9.911 8546	54	717	
		107		161			54		
284	9.761 6495		9.849 8003		0.150 1997	9.911 8492		716	
285	9.761 6602	107	9.849 8164	161	0.150 1836	9.911 8439	53	715	
286	9.761 6709	107	9.849 8324	160	0.150 1676	9.911 8385	54	714	
		107		161			54		
287	9.761 6816		9.849 8485		0.150 1515	9.911 8331		713	
288	9.761 6924	108	9.849 8646	161	0.150 1354	9.911 8278	53	712	
289	9.761 7031	107	9.849 8807	161	0.150 1193	9.911 8224	54	711	
		107		160			54		
.290	9.761 7138		9.849 8967		0.150 1033	9.911 8170		.710	
		107		161			53		
291	9.761 7245		9.849 9128		0.150 0872	9.911 8117		709	
292	9.761 7352	107	9.849 9289	161	0.150 0711	9.911 8063	54	708	
293	9.761 7459	107	9.849 9450	161	0.150 0550	9.911 8009	54	707	
		107		160			53		
294	9.761 7566		9.849 9610		0.150 0390	9.911 7956		706	
295	9.761 7673	107	9.849 9771	161	0.150 0229	9.911 7902	54	705	
296	9.761 7780	107	9.849 9932	161	0.150 0068	9.911 7848	54	704	
		107		160			53		
297	9.761 7887		9.850 0092		0.149 9908	9.911 7795		703	
298	9.761 7994	107	9.850 0253	161	0.149 9747	9.911 7741	54	702	
299	9.761 8101	107	9.850 0414	161	0.149 9586	9.911 7687	54	701	
		107		161			53		
.300	9.761 8208		9.850 0575		0.149 9425	9.911 7634		.700	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

$54^\circ.750 - 54^\circ.700$

35°.300 — 35°.350

35°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.761 8208		9.850 0575		0.149 9425	9.911 7634		.700	
		108		160			54		
301	9.761 8316		9.850 0735		0.149 9265	9.911 7580		699	
302	9.761 8423	107	9.850 0896	161	0.149 9104	9.911 7526	54	698	
303	9.761 8530	107	9.850 1057	161	0.149 8943	9.911 7473	53	697	
		107		161			54		
304	9.761 8637		9.850 1218		0.149 8782	9.911 7419		696	
305	9.761 8744	107	9.850 1378	160	0.149 8622	9.911 7365	54	695	
306	9.761 8851	107	9.850 1539	161	0.149 8461	9.911 7312	53	694	
		107		161			54		
307	9.761 8958		9.850 1700		0.149 8300	9.911 7258		693	
308	9.761 9065	107	9.850 1860	160	0.149 8140	9.911 7204	54	692	
309	9.761 9172	107	9.850 2021	161	0.149 7979	9.911 7151	53	691	
		107		161			54		
.310	9.761 9279		9.850 2182		0.149 7818	9.911 7097		.690	
		107		160			54		
311	9.761 9386		9.850 2342		0.149 7658	9.911 7043		689	
312	9.761 9493	107	9.850 2503	161	0.149 7497	9.911 6990	53	688	
313	9.761 9600	107	9.850 2664	161	0.149 7336	9.911 6936	54	687	
		107		161			54		
314	9.761 9707		9.850 2825		0.149 7175	9.911 6882		686	
315	9.761 9814	107	9.850 2985	160	0.149 7015	9.911 6829	53	685	
316	9.761 9921	107	9.850 3146	161	0.149 6854	9.911 6775	54	684	
		107		161			54		
317	9.762 0028		9.850 3307		0.149 6693	9.911 6721		683	
318	9.762 0135	107	9.850 3467	160	0.149 6533	9.911 6667	54	682	
319	9.762 0242	107	9.850 3628	161	0.149 6372	9.911 6614	53	681	
		107		161			54		
.320	9.762 0349		9.850 3789		0.149 6211	9.911 6560		.680	
		107		160			54		
321	9.762 0456		9.850 3949		0.149 6051	9.911 6506		679	
322	9.762 0563	107	9.850 4110	161	0.149 5890	9.911 6453	53	678	
323	9.762 0670	107	9.850 4271	161	0.149 5729	9.911 6399	54	677	
		107		160			54		
324	9.762 0777		9.850 4431		0.149 5569	9.911 6345		676	
325	9.762 0884	107	9.850 4592	161	0.149 5408	9.911 6291	54	675	
326	9.762 0991	107	9.850 4753	161	0.149 5247	9.911 6238	53	674	
		107		160			54		
327	9.762 1098		9.850 4913		0.149 5087	9.911 6184		673	
328	9.762 1204	106	9.850 5074	161	0.149 4926	9.911 6130	54	672	
329	9.762 1311	107	9.850 5235	161	0.149 4765	9.911 6077	53	671	
		107		160			54		
.330	9.762 1418		9.850 5395		0.149 4605	9.911 6023		.670	
		107		161			54		
331	9.762 1525		9.850 5556		0.149 4444	9.911 5969		669	
332	9.762 1632	107	9.850 5717	161	0.149 4283	9.911 5915	54	668	
333	9.762 1739	107	9.850 5877	160	0.149 4123	9.911 5862	53	667	
		107		161			54		
334	9.762 1846		9.850 6038		0.149 3962	9.911 5808		666	
335	9.762 1953	107	9.850 6199	161	0.149 3801	9.911 5754	54	665	
336	9.762 2060	107	9.850 6359	160	0.149 3641	9.911 5700	54	664	
		107		161			53		
337	9.762 2167		9.850 6520		0.149 3480	9.911 5647		663	
338	9.762 2274	107	9.850 6681	161	0.149 3319	9.911 5593	54	662	
339	9.762 2381	107	9.850 6841	160	0.149 3159	9.911 5539	54	661	
		106		161			54		
.340	9.762 2487		9.850 7002		0.149 2998	9.911 5485		.660	
		107		161			53		
341	9.762 2594		9.850 7163		0.149 2837	9.911 5432		659	
342	9.762 2701	107	9.850 7323	160	0.149 2677	9.911 5378	54	658	
343	9.762 2808	107	9.850 7484	161	0.149 2516	9.911 5324	54	657	
		107		161			54		
344	9.762 2915		9.850 7645		0.149 2355	9.911 5270		656	
345	9.762 3022	107	9.850 7805	160	0.149 2195	9.911 5217	53	655	
346	9.762 3129	107	9.850 7966	161	0.149 2034	9.911 5163	54	654	
		107		160			54		
347	9.762 3236		9.850 8126		0.149 1874	9.911 5109		653	
348	9.762 3343	107	9.850 8287	161	0.149 1713	9.911 5055	54	652	
349	9.762 3449	106	9.850 8448	161	0.149 1552	9.911 5002	53	651	
		107		160			54		
.350	9.762 3556		9.850 8608		0.149 1392	9.911 4948		.650	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	108
1	10.8
2	21.6
3	32.4
4	43.2
5	54.0
6	64.8
7	75.6
8	86.4
9	97.2

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

54°.700 — 54°.650

35°.350 — 35°.400

35°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.762 3556		9.850 8608		0.149 1392	9.911 4948		**.650**	
		107		161			54		
351	9.762 3663		9.850 8769		0.149 1231	9.911 4894		649	
352	9.762 3770	107	9.850 8930	161	0.149 1070	9.911 4840	54	648	
353	9.762 3877	107	9.850 9090	160	0.149 0910	9.911 4787	53	647	
		107		161			54		
354	9.762 3984		9.850 9251		0.149 0749	9.911 4733		646	
355	9.762 4090	106	9.850 9411	160	0.149 0589	9.911 4679	54	645	
356	9.762 4197	107	9.850 9572	161	0.149 0428	9.911 4625	54	644	
		107		161			54		
357	9.762 4304		9.850 9733		0.149 0267	9.911 4571		643	
358	9.762 4411	107	9.850 9893	160	0.149 0107	9.911 4518	53	642	
359	9.762 4518	107	9.851 0054	161	0.148 9946	9.911 4464	54	641	
		107		160			54		
.360	9.762 4625		9.851 0214		0.148 9786	9.911 4410		**.640**	
		106		161			54		
361	9.762 4731		9.851 0375		0.148 9625	9.911 4356		639	
362	9.762 4838	107	9.851 0536	161	0.148 9464	9.911 4303	53	638	
363	9.762 4945	107	9.851 0696	160	0.148 9304	9.911 4249	54	637	
		107		161			54		
364	9.762 5052		9.851 0857		0.148 9143	9.911 4195		636	
365	9.762 5159	107	9.851 1017	160	0.148 8983	9.911 4141	54	635	
366	9.762 5265	106	9.851 1178	161	0.148 8822	9.911 4087	54	634	
		107		161			53		
367	9.762 5372		9.851 1339		0.148 8661	9.911 4034		633	
368	9.762 5479	107	9.851 1499	160	0.148 8501	9.911 3980	54	632	
369	9.762 5586	107	9.851 1660	161	0.148 8340	9.911 3926	54	631	
		107		160			54		
.370	9.762 5693		9.851 1820		0.148 8180	9.911 3872		**.630**	
		106		161			54		
371	9.762 5799		9.851 1981		0.148 8019	9.911 3818		629	
372	9.762 5906	107	9.851 2142	161	0.148 7858	9.911 3765	53	628	
373	9.762 6013	107	9.851 2302	160	0.148 7698	9.911 3711	54	627	
		107		161			54		
374	9.762 6120		9.851 2463		0.148 7537	9.911 3657		626	
375	9.762 6226	106	9.851 2623	160	0.148 7377	9.911 3603	54	625	
376	9.762 6333	107	9.851 2784	161	0.148 7216	9.911 3549	54	624	
		107		160			54		
377	9.762 6440		9.851 2944		0.148 7056	9.911 3495		623	
378	9.762 6547	107	9.851 3105	161	0.148 6895	9.911 3442	53	622	
379	9.762 6653	106	9.851 3266	161	0.148 6734	9.911 3388	54	621	
		107		160			54		
.380	9.762 6760		9.851 3426		0.148 6574	9.911 3334		**.620**	
		107		161			54		
381	9.762 6867		9.851 3587		0.148 6413	9.911 3280		619	
382	9.762 6974	107	9.851 3747	160	0.148 6253	9.911 3226	54	618	
383	9.762 7080	106	9.851 3908	161	0.148 6092	9.911 3172	54	617	
		107		160			53		
384	9.762 7187		9.851 4068		0.148 5932	9.911 3119		616	
385	9.762 7294	107	9.851 4229	161	0.148 5771	9.911 3065	54	615	
386	9.762 7401	107	9.851 4390	161	0.148 5610	9.911 3011	54	614	
		106		160			54		
387	9.762 7507		9.851 4550		0.148 5450	9.911 2957		613	
388	9.762 7614	107	9.851 4711	161	0.148 5289	9.911 2903	54	612	
389	9.762 7721	107	9.851 4871	160	0.148 5129	9.911 2849	54	611	
		106		161			53		
.390	9.762 7827		9.851 5032		0.148 4968	9.911 2796		**.610**	
		107		160			54		
391	9.762 7934		9.851 5192		0.148 4808	9.911 2742		609	
392	9.762 8041	107	9.851 5353	161	0.148 4647	9.911 2688	54	608	
393	9.762 8147	106	9.851 5513	160	0.148 4487	9.911 2634	54	607	
		107		161			54		
394	9.762 8254		9.851 5674		0.148 4326	9.911 2580		606	
395	9.762 8361	107	9.851 5834	160	0.148 4166	9.911 2526	54	605	
396	9.762 8467	106	9.851 5995	161	0.148 4005	9.911 2472	54	604	
		107		161			53		
397	9.762 8574		9.851 6156		0.148 3844	9.911 2419		603	
398	9.762 8681	107	9.851 6316	160	0.148 3684	9.911 2365	54	602	
399	9.762 8787	106	9.851 6477	161	0.148 3523	9.911 2311	54	601	
		107		160			54		
.400	9.762 8894		9.851 6637		0.148 3363	9.911 2257		**.600**	
	cos	d	cotg	d	tang	sin	d	**54°**	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

54°.650 — 54°.600

35°.400 — 35°.450

35°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.762 8894		9.851 6637		0.148 3363	9.911 2257		.600	
		107		161			54		
401	9.762 9001		9.851 6798		0.148 3202	9.911 2203		599	
402	9.762 9107	106	9.851 6958	160	0.148 3042	9.911 2149	54	598	
403	9.762 9214	107	9.851 7119	161	0.148 2881	9.911 2095	54	597	
		107		160			53		
404	9.762 9321		9.851 7279		0.148 2721	9.911 2042		596	
405	9.762 9427	106	9.851 7440	161	0.148 2560	9.911 1988	54	595	
406	9.762 9534	107	9.851 7600	160	0.148 2400	9.911 1934	54	594	
		107		161			54		
407	9.762 9641		9.851 7761		0.148 2239	9.911 1880		593	
408	9.762 9747	106	9.851 7921	160	0.148 2079	9.911 1826	54	592	
409	9.762 9854	107	9.851 8082	161	0.148 1918	9.911 1772	54	591	
		107		160			54		
.410	9.762 9961		9.851 8242		0.148 1758	9.911 1718		.590	
		106		161			54		
411	9.763 0067		9.851 8403		0.148 1597	9.911 1664		589	
412	9.763 0174	107	9.851 8563	160	0.148 1437	9.911 1610	54	588	
413	9.763 0280	106	9.851 8724	161	0.148 1276	9.911 1557	53	587	
		107		160			54		
414	9.763 0387		9.851 8884		0.148 1116	9.911 1503		586	
415	9.763 0494	107	9.851 9045	161	0.148 0955	9.911 1449	54	585	
416	9.763 0600	106	9.851 9205	160	0.148 0795	9.911 1395	54	584	
		107		161			54		
417	9.763 0707		9.851 9366		0.148 0634	9.911 1341		583	
418	9.763 0813	106	9.851 9526	160	0.148 0474	9.911 1287	54	582	
419	9.763 0920	107	9.851 9687	161	0.148 0313	9.911 1233	54	581	
		107		160			54		
.420	9.763 1027		9.851 9847		0.148 0153	9.911 1179		.580	
		106		161			54		
421	9.763 1133		9.852 0008		0.147 9992	9.911 1125		579	
422	9.763 1240	107	9.852 0168	160	0.147 9832	9.911 1071	54	578	
423	9.763 1346	106	9.852 0329	161	0.147 9671	9.911 1018	53	577	
		107		160			54		
424	9.763 1453		9.852 0489		0.147 9511	9.911 0964		576	
425	9.763 1559	106	9.852 0650	161	0.147 9350	9.911 0910	54	575	
426	9.763 1666	107	9.852 0810	160	0.147 9190	9.911 0856	54	574	
		106		161			54		
427	9.763 1772		9.852 0971		0.147 9029	9.911 0802		573	
428	9.763 1879	107	9.852 1131	160	0.147 8869	9.911 0748	54	572	
429	9.763 1986	107	9.852 1292	161	0.147 8708	9.911 0694	54	571	
		106		160			54		
.430	9.763 2092		9.852 1452		0.147 8548	9.911 0640		.570	
		107		160			54		
431	9.763 2199		9.852 1612		0.147 8388	9.911 0586		569	
432	9.763 2305	106	9.852 1773	161	0.147 8227	9.911 0532	54	568	
433	9.763 2412	107	9.852 1933	160	0.147 8067	9.911 0478	54	567	
		106		161			54		
434	9.763 2518		9.852 2094		0.147 7906	9.911 0424		566	
435	9.763 2625	107	9.852 2254	160	0.147 7746	9.911 0370	54	565	
436	9.763 2731	106	9.852 2415	161	0.147 7585	9.911 0317	53	564	
		107		160			54		
437	9.763 2838		9.852 2575		0.147 7425	9.911 0263		563	
438	9.763 2944	106	9.852 2736	161	0.147 7264	9.911 0209	54	562	
439	9.763 3051	107	9.852 2896	160	0.147 7104	9.911 0155	54	561	
		106		161			54		
.440	9.763 3157		9.852 3057		0.147 6943	9.911 0101		.560	
		107		160			54		
441	9.763 3264		9.852 3217		0.147 6783	9.911 0047		559	
442	9.763 3370	106	9.852 3377	160	0.147 6623	9.910 9993	54	558	
443	9.763 3477	107	9.852 3538	161	0.147 6462	9.910 9939	54	557	
		106		160			54		
444	9.763 3583		9.852 3698		0.147 6302	9.910 9885		556	
445	9.763 3690	107	9.852 3859	161	0.147 6141	9.910 9831	54	555	
446	9.763 3796	106	9.852 4019	160	0.147 5981	9.910 9777	54	554	
		107		161			54		
447	9.763 3903		9.852 4180		0.147 5820	9.910 9723		553	
448	9.763 4009	106	9.852 4340	160	0.147 5660	9.910 9669	54	552	
449	9.763 4116	107	9.852 4501	161	0.147 5499	9.910 9615	54	551	
		106		160			54		
.450	9.763 4222		9.852 4661		0.147 5339	9.910 9561		.550	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	54	53
1	5.4	5.3
2	10.8	10.6
3	16.2	15.9
4	21.6	21.2
5	27.0	26.5
6	32.4	31.8
7	37.8	37.1
8	43.2	42.4
9	48.6	47.7

54°.600 — 54°.550

35°.450 — 35°.500

35°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.763 4222		9.852 4661		0.147 5339	9.910 9561		·550	
		107		160			54		
451	9.763 4329		9.852 4821		0.147 5179	9.910 9507		549	
452	9.763 4435	106	9.852 4982	161	0.147 5018	9.910 9453	54	548	
453	9.763 4542	107	9.852 5142	160	0.147 4858	9.910 9399	54	547	
		106		161			54		
454	9.763 4648		9.852 5303		0.147 4697	9.910 9345		546	
455	9.763 4754	106	9.852 5463	160	0.147 4537	9.910 9291	54	545	
456	9.763 4861	107	9.852 5624	161	0.147 4376	9.910 9237	54	544	
		106		160			54		
457	9.763 4967		9.852 5784		0.147 4216	9.910 9183		543	
458	9.763 5074	107	9.852 5944	160	0.147 4056	9.910 9129	54	542	
459	9.763 5180	106	9.852 6105	161	0.147 3895	9.910 9075	54	541	
		107		160			54		
·460	9.763 5287		9.852 6265		0.147 3735	9.910 9021		·540	
		106		161			54		
461	9.763 5393		9.852 6426		0.147 3574	9.910 8967		539	
462	9.763 5499	106	9.852 6586	160	0.147 3414	9.910 8913	54	538	
463	9.763 5606	107	9.852 6746	160	0.147 3254	9.910 8859	54	537	
		106		161			54		
464	9.763 5712		9.852 6907		0.147 3093	9.910 8805		536	
465	9.763 5819	107	9.852 7067	160	0.147 2933	9.910 8751	54	535	
466	9.763 5925	106	9.852 7228	161	0.147 2772	9.910 8697	54	534	
		106		160			54		
467	9.763 6031		9.852 7388		0.147 2612	9.910 8643		533	
468	9.763 6138	107	9.852 7548	160	0.147 2452	9.910 8589	54	532	
469	9.763 6244	106	9.852 7709	161	0.147 2291	9.910 8535	54	531	
		107		160			54		
·470	9.763 6351		9.852 7869		0.147 2131	9.910 8481		·530	
		106		161			54		
471	9.763 6457		9.852 8030		0.147 1970	9.910 8427		529	
472	9.763 6563	106	9.852 8190	160	0.147 1810	9.910 8373	54	528	
473	9.763 6670	107	9.852 8350	160	0.147 1650	9.910 8319	54	527	
		106		161			54		
474	9.763 6776		9.852 8511		0.147 1489	9.910 8265		526	
475	9.763 6882	106	9.852 8671	160	0.147 1329	9.910 8211	54	525	
476	9.763 6989	107	9.852 8831	160	0.147 1169	9.910 8157	54	524	
		106		161			54		
477	9.763 7095		9.852 8992		0.147 1008	9.910 8103		523	
478	9.763 7202	107	9.852 9152	160	0.147 0848	9.910 8049	54	522	
479	9.763 7308	106	9.852 9313	161	0.147 0687	9.910 7995	54	521	
		106		160			54		
·480	9.763 7414		9.852 9473		0.147 0527	9.910 7941		·520	
		107		160			54		
481	9.763 7521		9.852 9633		0.147 0367	9.910 7887		519	
482	9.763 7627	106	9.852 9794	161	0.147 0206	9.910 7833	54	518	
483	9.763 7733	106	9.852 9954	160	0.147 0046	9.910 7779	54	517	
		107		160			54		
484	9.763 7840		9.853 0114		0.146 9886	9.910 7725		516	
485	9.763 7946	106	9.853 0275	161	0.146 9725	9.910 7671	54	515	
486	9.763 8052	106	9.853 0435	160	0.146 9565	9.910 7617	54	514	
		107		161			54		
487	9.763 8159		9.853 0596		0.146 9404	9.910 7563		513	
488	9.763 8265	106	9.853 0756	160	0.146 9244	9.910 7509	54	512	
489	9.763 8371	106	9.853 0916	160	0.146 9084	9.910 7455	54	511	
		107		161			54		
·490	9.763 8478		9.853 1077		0.146 8923	9.910 7401		·510	
		106		160			54		
491	9.763 8584		9.853 1237		0.146 8763	9.910 7347		509	
492	9.763 8690	106	9.853 1397	160	0.146 8603	9.910 7293	54	508	
493	9.763 8796	106	9.853 1558	161	0.146 8442	9.910 7239	54	507	
		107		160			54		
494	9.763 8903		9.853 1718		0.146 8282	9.910 7185		506	
495	9.763 9009	106	9.853 1878	160	0.146 8122	9.910 7131	54	505	
496	9.763 9115	106	9.853 2039	161	0.146 7961	9.910 7077	54	504	
		107		160			54		
497	9.763 9222		9.853 2199		0.146 7801	9.910 7023		503	
498	9.763 9328	106	9.853 2359	160	0.146 7641	9.910 6968	55	502	
499	9.763 9434	106	9.853 2520	161	0.146 7480	9.910 6914	54	501	
		106		160			54		
·500	9.763 9540		9.853 2680		0.146 7320	9.910 6860		·500	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	107
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

54°.550 — 54°.500

35°.500 — 35°.550

35°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.763 9540		9.853 2680		0.146 7320	9.910 6860		.500	
		107		160			54		
501	9.763 9647		9.853 2840		0.146 7160	9.910 6806		499	
502	9.763 9753	106	9.853 3001	161	0.146 6999	9.910 6752	54	498	
503	9.763 9859	106	9.853 3161	160	0.146 6839	9.910 6698	54	497	
		106		160			54		
504	9.763 9965		9.853 3321		0.146 6679	9.910 6644		496	
505	9.764 0072	107	9.853 3482	161	0.146 6518	9.910 6590	54	495	
506	9.764 0178	106	9.853 3642	160	0.146 6358	9.910 6536	54	494	
		106		160			54		
507	9.764 0284		9.853 3802		0.146 6198	9.910 6482		493	
508	9.764 0390	106	9.853 3963	161	0.146 6037	9.910 6428	54	492	
509	9.764 0497	107	9.853 4123	160	0.146 5877	9.910 6374	54	491	
		106		160			54		
.510	9.764 0603		9.853 4283		0.146 5717	9.910 6320		.490	
		106		161			55		
511	9.764 0709		9.853 4444		0.146 5556	9.910 6265		489	
512	9.764 0815	106	9.853 4604	160	0.146 5396	9.910 6211	54	488	
513	9.764 0921	106	9.853 4764	160	0.146 5236	9.910 6157	54	487	
		107		161			54		
514	9.764 1028		9.853 4925		0.146 5075	9.910 6103		486	
515	9.764 1134	106	9.853 5085	160	0.146 4915	9.910 6049	54	485	
516	9.764 1240	106	9.853 5245	160	0.146 4755	9.910 5995	54	484	
		106		160			54		
517	9.764 1346		9.853 5405		0.146 4595	9.910 5941		483	
518	9.764 1453	107	9.853 5566	161	0.146 4434	9.910 5887	54	482	
519	9.764 1559	106	9.853 5726	160	0.146 4274	9.910 5833	54	481	
		106		160			54		
.520	9.764 1665		9.853 5886		0.146 4114	9.910 5779		.480	
		106		161			55		
521	9.764 1771		9.853 6047		0.146 3953	9.910 5724		479	
522	9.764 1877	106	9.853 6207	160	0.146 3793	9.910 5670	54	478	
523	9.764 1983	106	9.853 6367	160	0.146 3633	9.910 5616	54	477	
		107		160			54		
524	9.764 2090		9.853 6527		0.146 3473	9.910 5562		476	
525	9.764 2196	106	9.853 6688	161	0.146 3312	9.910 5508	54	475	
526	9.764 2302	106	9.853 6848	160	0.146 3152	9.910 5454	54	474	
		106		160			54		
527	9.764 2408		9.853 7008		0.146 2992	9.910 5400		473	
528	9.764 2514	106	9.853 7169	161	0.146 2831	9.910 5346	54	472	
529	9.764 2620	106	9.853 7329	160	0.146 2671	9.910 5292	54	471	
		107		160			55		
.530	9.764 2727		9.853 7489		0.146 2511	9.910 5237		.470	
		106		160			54		
531	9.764 2833		9.853 7649		0.146 2351	9.910 5183		469	
532	9.764 2939	106	9.853 7810	161	0.146 2190	9.910 5129	54	468	
533	9.764 3045	106	9.853 7970	160	0.146 2030	9.910 5075	54	467	
		106		160			54		
534	9.764 3151		9.853 8130		0.146 1870	9.910 5021		466	
535	9.764 3257	106	9.853 8290	160	0.146 1710	9.910 4967	54	465	
536	9.764 3363	106	9.853 8451	161	0.146 1549	9.910 4913	54	464	
		107		160			55		
537	9.764 3470		9.853 8611		0.146 1389	9.910 4858		463	
538	9.764 3576	106	9.853 8771	160	0.146 1229	9.910 4804	54	462	
539	9.764 3682	106	9.853 8932	161	0.146 1068	9.910 4750	54	461	
		106		160			54		
.540	9.764 3788		9.853 9092		0.146 0908	9.910 4696		.460	
		106		160			54		
541	9.764 3894		9.853 9252		0.146 0748	9.910 4642		459	
542	9.764 4000	106	9.853 9412	160	0.146 0588	9.910 4588	54	458	
543	9.764 4106	106	9.853 9573	161	0.146 0427	9.910 4534	54	457	
		106		160			55		
544	9.764 4212		9.853 9733		0.146 0267	9.910 4479		456	
545	9.764 4318	106	9.853 9893	160	0.146 0107	9.910 4425	54	455	
546	9.764 4424	106	9.854 0053	160	0.145 9947	9.910 4371	54	454	
		107		161			54		
547	9.764 4531		9.854 0214		0.145 9786	9.910 4317		453	
548	9.764 4637	106	9.854 0374	160	0.145 9626	9.910 4263	54	452	
549	9.764 4743	106	9.854 0534	160	0.145 9466	9.910 4209	54	451	
		106		160			54		
.550	9.764 4849		9.854 0694		0.145 9306	9.910 4155		.450	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

161

1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

160

1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

107

1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

106

1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

54°.500 — 54°.450

$35^\circ.550 - 35^\circ.600$

35°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.764 4849		9.854 0694		0.145 9306	9.910 4155		.450	
		106		160			55		
551	9.764 4955		9.854 0854		0.145 9146	9.910 4100		449	
552	9.764 5061	106	9.854 1015	161	0.145 8985	9.910 4046	54	448	
553	9.764 5167	106	9.854 1175	160	0.145 8825	9.910 3992	54	447	
		106		160			54		
554	9.764 5273		9.854 1335		0.145 8665	9.910 3938		446	
555	9.764 5379	106	9.854 1495	160	0.145 8505	9.910 3884	54	445	
556	9.764 5485	106	9.854 1656	161	0.145 8344	9.910 3829	55	444	
		106		160			54		
557	9.764 5591		9.854 1816		0.145 8184	9.910 3775		443	
558	9.764 5697	106	9.854 1976	160	0.145 8024	9.910 3721	54	442	
559	9.764 5803	106	9.854 2136	160	0.145 7864	9.910 3667	54	441	
		106		161			54		
.560	9.764 5909		9.854 2297		0.145 7703	9.910 3613		.440	
		106		160			54		
561	9.764 6015		9.854 2457		0.145 7543	9.910 3559		439	
562	9.764 6121	106	9.854 2617	160	0.145 7383	9.910 3504	55	438	
563	9.764 6227	106	9.854 2777	160	0.145 7223	9.910 3450	54	437	
		106		160			54		
564	9.764 6333		9.854 2937		0.145 7063	9.910 3396		436	
565	9.764 6439	106	9.854 3098	161	0.145 6902	9.910 3342	54	435	
566	9.764 6545	106	9.854 3258	160	0.145 6742	9.910 3288	54	434	
		106		160			55		
567	9.764 6651		9.854 3418		0.145 6582	9.910 3233		433	
568	9.764 6757	106	9.854 3578	160	0.145 6422	9.910 3179	54	432	
569	9.764 6863	106	9.854 3738	160	0.145 6262	9.910 3125	54	431	
		106		161			54		
.570	9.764 6969		9.854 3899		0.145 6101	9.910 3071		.430	
		106		160			54		
571	9.764 7075		9.854 4059		0.145 5941	9.910 3017		429	
572	9.764 7181	106	9.854 4219	160	0.145 5781	9.910 2962	55	428	
573	9.764 7287	106	9.854 4379	160	0.145 5621	9.910 2908	54	427	
		106		160			54		
574	9.764 7393		9.854 4539		0.145 5461	9.910 2854		426	
575	9.764 7499	106	9.854 4700	161	0.145 5300	9.910 2800	54	425	
576	9.764 7605	106	9.854 4860	160	0.145 5140	9.910 2745	55	424	
		106		160			54		
577	9.764 7711		9.854 5020		0.145 4980	9.910 2691		423	
578	9.764 7817	106	9.854 5180	160	0.145 4820	9.910 2637	54	422	
579	9.764 7923	106	9.854 5340	160	0.145 4660	9.910 2583	54	421	
		106		160			54		
.580	9.764 8029		9.854 5500		0.145 4500	9.910 2529		.420	
		106		161			55		
581	9.764 8135		9.854 5661		0.145 4339	9.910 2474		419	
582	9.764 8241	106	9.854 5821	160	0.145 4179	9.910 2420	54	418	
583	9.764 8347	106	9.854 5981	160	0.145 4019	9.910 2366	54	417	
		106		160			54		
584	9.764 8453		9.854 6141		0.145 3859	9.910 2312		416	
585	9.764 8559	106	9.854 6301	160	0.145 3699	9.910 2257	55	415	
586	9.764 8665	106	9.854 6462	161	0.145 3538	9.910 2203	54	414	
		106		160			54		
587	9.764 8771		9.854 6622		0.145 3378	9.910 2149		413	
588	9.764 8877	106	9.854 6782	160	0.145 3218	9.910 2095	54	412	
589	9.764 8983	106	9.854 6942	160	0.145 3058	9.910 2040	55	411	
		105		160			54		
.590	9.764 9088		9.854 7102		0.145 2898	9.910 1986		.410	
		106		160			54		
591	9.764 9194		9.854 7262		0.145 2738	9.910 1932		409	
592	9.764 9300	106	9.854 7423	161	0.145 2577	9.910 1878	54	408	
593	9.764 9406	106	9.854 7583	160	0.145 2417	9.910 1823	55	407	
		106		160			54		
594	9.764 9512		9.854 7743		0.145 2257	9.910 1769		406	
595	9.764 9618	106	9.854 7903	160	0.145 2097	9.910 1715	54	405	
596	9.764 9724	106	9.854 8063	160	0.145 1937	9.910 1661	54	404	
		106		160			55		
597	9.764 9830		9.854 8223		0.145 1777	9.910 1606		403	
598	9.764 9936	106	9.854 8383	160	0.145 1617	9.910 1552	54	402	
599	9.765 0041	105	9.854 8544	161	0.145 1456	9.910 1498	54	401	
		106		160			54		
.600	9.765 0147		9.854 8704		0.145 1296	9.910 1444		.400	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

$54^\circ.450 - 54^\circ.400$

35°.600 — 35°.650

35°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.765 0147		9.854 8704		0.145 1296	9.910 1444		**.400**	
		106		160			55		
601	9.765 0253		9.854 8864		0.145 1136	9.910 1389		399	
602	9.765 0359	106	9.854 9024	160	0.145 0976	9.910 1335	54	398	
603	9.765 0465	106	9.854 9184	160	0.145 0816	9.910 1281	54	397	
		106		160			54		
604	9.765 0571		9.854 9344		0.145 0656	9.910 1227		396	
605	9.765 0677	106	9.854 9504	160	0.145 0496	9.910 1172	55	395	
606	9.765 0783	106	9.854 9665	161	0.145 0335	9.910 1118	54	394	
		105		160			54		
607	9.765 0888		9.854 9825		0.145 0175	9.910 1064		393	
608	9.765 0994	106	9.854 9985	160	0.145 0015	9.910 1009	55	392	
609	9.765 1100	106	9.855 0145	160	0.144 9855	9.910 0955	54	391	
		106		160			54		
.610	9.765 1206		9.855 0305		0.144 9695	9.910 0901		**.390**	
		106		160			54		
611	9.765 1312		9.855 0465		0.144 9535	9.910 0847		389	
612	9.765 1418	106	9.855 0625	160	0.144 9375	9.910 0792	55	388	
613	9.765 1523	105	9.855 0785	160	0.144 9215	9.910 0738	54	387	
		106		160			54		
614	9.765 1629		9.855 0945		0.144 9055	9.910 0684		386	
615	9.765 1735	106	9.855 1106	161	0.144 8894	9.910 0629	55	385	
616	9.765 1841	106	9.855 1266	160	0.144 8734	9.910 0575	54	384	
		106		160			54		
617	9.765 1947		9.855 1426		0.144 8574	9.910 0521		383	
618	9.765 2052	105	9.855 1586	160	0.144 8414	9.910 0467	54	382	
619	9.765 2158	106	9.855 1746	160	0.144 8254	9.910 0412	55	381	
		106		160			54		
.620	9.765 2264		9.855 1906		0.144 8094	9.910 0358		**.380**	
		106		160			54		
621	9.765 2370		9.855 2066		0.144 7934	9.910 0304		379	
622	9.765 2476	106	9.855 2226	160	0.144 7774	9.910 0249	55	378	
623	9.765 2581	105	9.855 2386	160	0.144 7614	9.910 0195	54	377	
		106		161			54		
624	9.765 2687		9.855 2547		0.144 7453	9.910 0141		376	
625	9.765 2793	106	9.855 2707	160	0.144 7293	9.910 0086	55	375	
626	9.765 2899	106	9.855 2867	160	0.144 7133	9.910 0032	54	374	
		106		160			54		
627	9.765 3005		9.855 3027		0.144 6973	9.909 9978		373	
628	9.765 3110	105	9.855 3187	160	0.144 6813	9.909 9923	55	372	
629	9.765 3216	106	9.855 3347	160	0.144 6653	9.909 9869	54	371	
		106		160			54		
.630	9.765 3322		9.855 3507		0.144 6493	9.909 9815		**.370**	
		106		160			55		
631	9.765 3428		9.855 3667		0.144 6333	9.909 9760		369	
632	9.765 3533	105	9.855 3827	160	0.144 6173	9.909 9706	54	368	
633	9.765 3639	106	9.855 3987	160	0.144 6013	9.909 9652	54	367	
		106		160			55		
634	9.765 3745		9.855 4147		0.144 5853	9.909 9597		366	
635	9.765 3851	106	9.855 4307	160	0.144 5693	9.909 9543	54	365	
636	9.765 3956	105	9.855 4468	161	0.144 5532	9.909 9489	54	364	
		106		160			55		
637	9.765 4062		9.855 4628		0.144 5372	9.909 9434		363	
638	9.765 4168	106	9.855 4788	160	0.144 5212	9.909 9380	54	362	
639	9.765 4274	106	9.855 4948	160	0.144 5052	9.909 9326	54	361	
		105		160			55		
.640	9.765 4379		9.855 5108		0.144 4892	9.909 9271		**.360**	
		106		160			54		
641	9.765 4485		9.855 5268		0.144 4732	9.909 9217		359	
642	9.765 4591	106	9.855 5428	160	0.144 4572	9.909 9163	54	358	
643	9.765 4696	105	9.855 5588	160	0.144 4412	9.909 9108	55	357	
		106		160			54		
644	9.765 4802		9.855 5748		0.144 4252	9.909 9054		356	
645	9.765 4908	106	9.855 5908	160	0.144 4092	9.909 9000	54	355	
646	9.765 5013	105	9.855 6068	160	0.144 3932	9.909 8945	55	354	
		106		160			54		
647	9.765 5119		9.855 6228		0.144 3772	9.909 8891		353	
648	9.765 5225	106	9.855 6388	160	0.144 3612	9.909 8837	54	352	
649	9.765 5331	106	9.855 6548	160	0.144 3452	9.909 8782	55	351	
		105		160			54		
.650	9.765 5436		9.855 6708		0.144 3292	9.909 8728		**.350**	
	cos	d	cotg	d	tang	sin	d	**54°**	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

54°.400 — 54°.350

35°.650 — 35°.700

35°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.765 5436		9.855 6708		0.144 3292	9.909 8728		.350	
		106		160			55		
651	9.765 5542		9.855 6868		0.144 3132	9.909 8673		349	
652	9.765 5648	106	9.855 7028	160	0.144 2972	9.909 8619	54	348	
653	9.765 5753	105	9.855 7188	160	0.144 2812	9.909 8565	54	347	
		106		161			55		
654	9.765 5859		9.855 7349		0.144 2651	9.909 8510		346	
655	9.765 5965	106	9.855 7509	160	0.144 2491	9.909 8456	54	345	
656	9.765 6070	105	9.855 7669	160	0.144 2331	9.909 8402	54	344	
		106		160			55		
657	9.765 6176		9.855 7829		0.144 2171	9.909 8347		343	
658	9.765 6282	106	9.855 7989	160	0.144 2011	9.909 8293	54	342	
659	9.765 6387	105	9.855 8149	160	0.144 1851	9.909 8238	55	341	
		106		160			54		
.660	9.765 6493		9.855 8309		0.144 1691	9.909 8184		.340	
		105		160			54		
661	9.765 6598		9.855 8469		0.144 1531	9.909 8130		339	
662	9.765 6704	106	9.855 8629	160	0.144 1371	9.909 8075	55	338	
663	9.765 6810	106	9.855 8789	160	0.144 1211	9.909 8021	54	337	
		105		160			54		
664	9.765 6915		9.855 8949		0.144 1051	9.909 7967		336	
665	9.765 7021	106	9.855 9109	160	0.144 0891	9.909 7912	55	335	
666	9.765 7127	106	9.855 9269	160	0.144 0731	9.909 7858	54	334	
		105		160			55		
667	9.765 7232		9.855 9429		0.144 0571	9.909 7803		333	
668	9.765 7338	106	9.855 9589	160	0.144 0411	9.909 7749	54	332	
669	9.765 7443	105	9.855 9749	160	0.144 0251	9.909 7695	54	331	
		106		160			55		
.670	9.765 7549		9.855 9909		0.144 0091	9.909 7640		.330	
		106		160			54		
671	9.765 7655		9.856 0069		0.143 9931	9.909 7586		329	
672	9.765 7760	105	9.856 0229	160	0.143 9771	9.909 7531	55	328	
673	9.765 7866	106	9.856 0389	160	0.143 9611	9.909 7477	54	327	
		105		160			55		
674	9.765 7971		9.856 0549		0.143 9451	9.909 7422		326	
675	9.765 8077	106	9.856 0709	160	0.143 9291	9.909 7368	54	325	
676	9.765 8183	106	9.856 0869	160	0.143 9131	9.909 7314	54	324	
		105		160			55		
677	9.765 8288		9.856 1029		0.143 8971	9.909 7259		323	
678	9.765 8394	106	9.856 1189	160	0.143 8811	9.909 7205	54	322	
679	9.765 8499	105	9.856 1349	160	0.143 8651	9.909 7150	55	321	
		106		160			54		
.680	9.765 8605		9.856 1509		0.143 8491	9.909 7096		.320	
		105		160			54		
681	9.765 8710		9.856 1669		0.143 8331	9.909 7042		319	
682	9.765 8816	106	9.856 1829	160	0.143 8171	9.909 6987	55	318	
683	9.765 8922	106	9.856 1989	160	0.143 8011	9.909 6933	54	317	
		105		160			55		
684	9.765 9027		9.856 2149		0.143 7851	9.909 6878		316	
685	9.765 9133	106	9.856 2309	160	0.143 7691	9.909 6824	54	315	
686	9.765 9238	105	9.856 2469	160	0.143 7531	9.909 6769	55	314	
		106		160			54		
687	9.765 9344		9.856 2629		0.143 7371	9.909 6715		313	
688	9.765 9449	105	9.856 2789	160	0.143 7211	9.909 6660	55	312	
689	9.765 9555	106	9.856 2949	160	0.143 7051	9.909 6606	54	311	
		105		160			54		
.690	9.765 9660		9.856 3109		0.143 6891	9.909 6552		.310	
		106		160			55		
691	9.765 9766		9.856 3269		0.143 6731	9.909 6497		309	
692	9.765 9871	105	9.856 3429	160	0.143 6571	9.909 6443	54	308	
693	9.765 9977	106	9.856 3589	160	0.143 6411	9.909 6388	55	307	
		105		160			54		
694	9.766 0082		9.856 3749		0.143 6251	9.909 6334		306	
695	9.766 0188	106	9.856 3909	160	0.143 6091	9.909 6279	55	305	
696	9.766 0293	105	9.856 4068	159	0.143 5932	9.909 6225	54	304	
		106		160			55		
697	9.766 0399		9.856 4228		0.143 5772	9.909 6170		303	
698	9.766 0504	105	9.856 4388	160	0.143 5612	9.909 6116	54	302	
699	9.766 0610	106	9.856 4548	160	0.143 5452	9.909 6061	55	301	
		105		160			54		
.700	9.766 0715		9.856 4708		0.143 5292	9.909 6007		.300	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	161
1	16.1
2	32.2
3	48.3
4	64.4
5	80.5
6	96.6
7	112.7
8	128.8
9	144.9

	160	159
1	16.0	15.9
2	32.0	31.8
3	48.0	47.7
4	64.0	63.6
5	80.0	79.5
6	96.0	95.4
7	112.0	111.3
8	128.0	127.2
9	144.0	143.1

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

54°.350 — 54°.300

35°.700 — 35°.750

35°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.766 0715		9.856 4708		0.143 5292	9.909 6007		**.300**	
		106		160			54		
701	9.766 0821		9.856 4868		0.143 5132	9.909 5953		299	
702	9.766 0926	105	9.856 5028	160	0.143 4972	9.909 5898	55	298	
703	9.766 1032	106	9.856 5188	160	0.143 4812	9.909 5844	54	297	
		105		160			55		
704	9.766 1137		9.856 5348		0.143 4652	9.909 5789		296	
705	9.766 1243	106	9.856 5508	160	0.143 4492	9.909 5735	54	295	
706	9.766 1348	105	9.856 5668	160	0.143 4332	9.909 5680	55	294	
		106		160			54		
707	9.766 1454		9.856 5828		0.143 4172	9.909 5626		293	
708	9.766 1559	105	9.856 5988	160	0.143 4012	9.909 5571	55	292	
709	9.766 1665	106	9.856 6148	160	0.143 3852	9.909 5517	54	291	
		105		160			55		
.710	9.766 1770		9.856 6308		0.143 3692	9.909 5462		**.290**	
		105		160			54		
711	9.766 1875		9.856 6468		0.143 3532	9.909 5408		289	
712	9.766 1981	106	9.856 6628	160	0.143 3372	9.909 5353	55	288	
713	9.766 2086	105	9.856 6788	160	0.143 3212	9.909 5299	54	287	
		106		159			55		
714	9.766 2192		9.856 6947		0.143 3053	9.909 5244		286	
715	9.766 2297	105	9.856 7107	160	0.143 2893	9.909 5190	54	285	
716	9.766 2403	106	9.856 7267	160	0.143 2733	9.909 5135	55	284	
		105		160			54		
717	9.766 2508		9.856 7427		0.143 2573	9.909 5081		283	
718	9.766 2613	105	9.856 7587	160	0.143 2413	9.909 5026	55	282	
719	9.766 2719	106	9.856 7747	160	0.143 2253	9.909 4972	54	281	
		105		160			55		
.720	9.766 2824		9.856 7907		0.143 2093	9.909 4917		**.280**	
		106		160			54		
721	9.766 2930		9.856 8067		0.143 1933	9.909 4863		279	
722	9.766 3035	105	9.856 8227	160	0.143 1773	9.909 4808	55	278	
723	9.766 3140	105	9.856 8387	160	0.143 1613	9.909 4754	54	277	
		106		160			55		
724	9.766 3246		9.856 8547		0.143 1453	9.909 4699		276	
725	9.766 3351	105	9.856 8707	160	0.143 1293	9.909 4645	54	275	
726	9.766 3457	106	9.856 8866	159	0.143 1134	9.909 4590	55	274	
		105		160			54		
727	9.766 3562		9.856 9026		0.143 0974	9.909 4536		273	
728	9.766 3667	105	9.856 9186	160	0.143 0814	9.909 4481	55	272	
729	9.766 3773	106	9.856 9346	160	0.143 0654	9.909 4427	54	271	
		105		160			55		
.730	9.766 3878		9.856 9506		0.143 0494	9.909 4372		**.270**	
		105		160			54		
731	9.766 3983		9.856 9666		0.143 0334	9.909 4318		269	
732	9.766 4089	106	9.856 9826	160	0.143 0174	9.909 4263	55	268	
733	9.766 4194	105	9.856 9986	160	0.143 0014	9.909 4209	54	267	
		106		160			55		
734	9.766 4300		9.857 0146		0.142 9854	9.909 4154		266	
735	9.766 4405	105	9.857 0305	159	0.142 9695	9.909 4099	55	265	
736	9.766 4510	105	9.857 0465	160	0.142 9535	9.909 4045	54	264	
		106		160			55		
737	9.766 4616		9.857 0625		0.142 9375	9.909 3990		263	
738	9.766 4721	105	9.857 0785	160	0.142 9215	9.909 3936	54	262	
739	9.766 4826	105	9.857 0945	160	0.142 9055	9.909 3881	55	261	
		106		160			54		
.740	9.766 4932		9.857 1105		0.142 8895	9.909 3827		**.260**	
		105		160			55		
741	9.766 5037		9.857 1265		0.142 8735	9.909 3772		259	
742	9.766 5142	105	9.857 1425	160	0.142 8575	9.909 3718	54	258	
743	9.766 5248	106	9.857 1585	160	0.142 8415	9.909 3663	55	257	
		105		159			54		
744	9.766 5353		9.857 1744		0.142 8256	9.909 3609		256	
745	9.766 5458	105	9.857 1904	160	0.142 8096	9.909 3554	55	255	
746	9.766 5564	106	9.857 2064	160	0.142 7936	9.909 3499	55	254	
		105		160			54		
747	9.766 5669		9.857 2224		0.142 7776	9.909 3445		253	
748	9.766 5774	105	9.857 2384	160	0.142 7616	9.909 3390	55	252	
749	9.766 5879	105	9.857 2544	160	0.142 7456	9.909 3336	54	251	
		106		160			55		
.750	9.766 5985		9.857 2704		0.142 7296	9.909 3281		**.250**	
	cos	d	cotg	d	tang	sin	d	**54°**	P.P.

54°.300 — 54°.250

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

35°.750 — 35°.800

35°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.766 5985		9.857 2704		0.142 7296	9.909 3281		.250	
		105		159			54		
751	9.766 6090		9.857 2863		0.142 7137	9.909 3227		249	
752	9.766 6195	105	9.857 3023	160	0.142 6977	9.909 3172	55	248	
753	9.766 6301	106	9.857 3183	160	0.142 6817	9.909 3117	55	247	
		105		160			54		
754	9.766 6406		9.857 3343		0.142 6657	9.909 3063		246	
755	9.766 6511	105	9.857 3503	160	0.142 6497	9.909 3008	55	245	
756	9.766 6616	105	9.857 3663	160	0.142 6337	9.909 2954	54	244	
		106		160			55		
757	9.766 6722		9.857 3823		0.142 6177	9.909 2899		243	
758	9.766 6827	105	9.857 3982	159	0.142 6018	9.909 2845	54	242	
759	9.766 6932	105	9.857 4142	160	0.142 5858	9.909 2790	55	241	
		105		160			55		
.760	9.766 7037		9.857 4302		0.142 5698	9.909 2735		.240	
		106		160			54		
761	9.766 7143		9.857 4462		0.142 5538	9.909 2681		239	
762	9.766 7248	105	9.857 4622	160	0.142 5378	9.909 2626	55	238	
763	9.766 7353	105	9.857 4782	160	0.142 5218	9.909 2572	54	237	
		105		159			55		
764	9.766 7458		9.857 4941		0.142 5059	9.909 2517		236	
765	9.766 7564	106	9.857 5101	160	0.142 4899	9.909 2462	55	235	
766	9.766 7669	105	9.857 5261	160	0.142 4739	9.909 2408	54	234	
		105		160			55		
767	9.766 7774		9.857 5421		0.142 4579	9.909 2353		233	
768	9.766 7879	105	9.857 5581	160	0.142 4419	9.909 2299	54	232	
769	9.766 7985	106	9.857 5741	160	0.142 4259	9.909 2244	55	231	
		105		159			55		
.770	9.766 8090		9.857 5900		0.142 4100	9.909 2189		.230	
		105		160			54		
771	9.766 8195		9.857 6060		0.142 3940	9.909 2135		229	
772	9.766 8300	105	9.857 6220	160	0.142 3780	9.909 2080	55	228	
773	9.766 8405	105	9.857 6380	160	0.142 3620	9.909 2026	54	227	
		106		160			55		
774	9.766 8511		9.857 6540		0.142 3460	9.909 1971		226	
775	9.766 8616	105	9.857 6699	159	0.142 3301	9.909 1916	55	225	
776	9.766 8721	105	9.857 6859	160	0.142 3141	9.909 1862	54	224	
		105		160			55		
777	9.766 8826		9.857 7019		0.142 2981	9.909 1807		223	
778	9.766 8931	105	9.857 7179	160	0.142 2821	9.909 1752	55	222	
779	9.766 9037	106	9.857 7339	160	0.142 2661	9.909 1698	54	221	
		105		159			55		
.780	9.766 9142		9.857 7498		0.142 2502	9.909 1643		.220	
		105		160			54		
781	9.766 9247		9.857 7658		0.142 2342	9.909 1589		219	
782	9.766 9352	105	9.857 7818	160	0.142 2182	9.909 1534	55	218	
783	9.766 9457	105	9.857 7978	160	0.142 2022	9.909 1479	55	217	
		105		160			54		
784	9.766 9562		9.857 8138		0.142 1862	9.909 1425		216	
785	9.766 9668	106	9.857 8297	159	0.142 1703	9.909 1370	55	215	
786	9.766 9773	105	9.857 8457	160	0.142 1543	9.909 1315	55	214	
		105		160			54		
787	9.766 9878		9.857 8617		0.142 1383	9.909 1261		213	
788	9.766 9983	105	9.857 8777	160	0.142 1223	9.909 1206	55	212	
789	9.767 0088	105	9.857 8937	160	0.142 1063	9.909 1152	54	211	
		105		159			55		
.790	9.767 0193		9.857 9096		0.142 0904	9.909 1097		.210	
		105		160			55		
791	9.767 0298		9.857 9256		0.142 0744	9.909 1042		209	
792	9.767 0404	106	9.857 9416	160	0.142 0584	9.909 0988	54	208	
793	9.767 0509	105	9.857 9576	160	0.142 0424	9.909 0933	55	207	
		105		160			55		
794	9.767 0614		9.857 9736		0.142 0264	9.909 0878		206	
795	9.767 0719	105	9.857 9895	159	0.142 0105	9.909 0824	54	205	
796	9.767 0824	105	9.858 0055	160	0.141 9945	9.909 0769	55	204	
		105		160			55		
797	9.767 0929		9.858 0215		0.141 9785	9.909 0714		203	
798	9.767 1034	105	9.858 0375	160	0.141 9625	9.909 0660	54	202	
799	9.767 1139	105	9.858 0534	159	0.141 9466	9.909 0605	55	201	
		105		160			55		
.800	9.767 1244		9.858 0694		0.141 9306	9.909 0550		.200	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

54°.250 — 54°.200

35°.800 — 35°.850

35°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.767 1244		9.858 0694		0.141 9306	9.909 0550		.200	
		106		160			54		
801	9.767 1350		9.858 0854		0.141 9146	9.909 0496		199	
802	9.767 1455	105	9.858 1014	160	0.141 8986	9.909 0441	55	198	
803	9.767 1560	105	9.858 1173	159	0.141 8827	9.909 0386	55	197	
		105		160			54		
804	9.767 1665		9.858 1333		0.141 8667	9.909 0332		196	
805	9.767 1770	105	9.858 1493	160	0.141 8507	9.909 0277	55	195	
806	9.767 1875	105	9.858 1653	160	0.141 8347	9.909 0222	55	194	
		105		159			54		
807	9.767 1980		9.858 1812		0.141 8188	9.909 0168		193	
808	9.767 2085	105	9.858 1972	160	0.141 8028	9.909 0113	55	192	
809	9.767 2190	105	9.858 2132	160	0.141 7868	9.909 0058	55	191	
		105		160			54		
.810	9.767 2295		9.858 2292		0.141 7708	9.909 0004		.190	
		105		159			55		
811	9.767 2400		9.858 2451		0.141 7549	9.908 9949		189	
812	9.767 2505	105	9.858 2611	160	0.141 7389	9.908 9894	55	188	
813	9.767 2610	105	9.858 2771	160	0.141 7229	9.908 9839	55	187	
		105		160			54		
814	9.767 2715		9.858 2931		0.141 7069	9.908 9785		186	
815	9.767 2820	105	9.858 3090	159	0.141 6910	9.908 9730	55	185	
816	9.767 2926	106	9.858 3250	160	0.141 6750	9.908 9675	55	184	
		105		160			54		
817	9.767 3031		9.858 3410		0.141 6590	9.908 9621		183	
818	9.767 3136	105	9.858 3570	160	0.141 6430	9.908 9566	55	182	
819	9.767 3241	105	9.858 3729	159	0.141 6271	9.908 9511	55	181	
		105		160			54		
.820	9.767 3346		9.858 3889		0.141 6111	9.908 9457		.180	
		105		160			55		
821	9.767 3451		9.858 4049		0.141 5951	9.908 9402		179	
822	9.767 3556	105	9.858 4209	160	0.141 5791	9.908 9347	55	178	
823	9.767 3661	105	9.858 4368	159	0.141 5632	9.908 9292	55	177	
		105		160			54		
824	9.767 3766		9.858 4528		0.141 5472	9.908 9238		176	
825	9.767 3871	105	9.858 4688	160	0.141 5312	9.908 9183	55	175	
826	9.767 3976	105	9.858 4847	159	0.141 5153	9.908 9128	55	174	
		105		160			54		
827	9.767 4081		9.858 5007		0.141 4993	9.908 9074		173	
828	9.767 4186	105	9.858 5167	160	0.141 4833	9.908 9019	55	172	
829	9.767 4291	105	9.858 5327	160	0.141 4673	9.908 8964	55	171	
		105		159			55		
.830	9.767 4396		9.858 5486		0.141 4514	9.908 8909		.170	
		105		160			54		
831	9.767 4501		9.858 5646		0.141 4354	9.908 8855		169	
832	9.767 4606	105	9.858 5806	160	0.141 4194	9.908 8800	55	168	
833	9.767 4711	105	9.858 5965	159	0.141 4035	9.908 8745	55	167	
		105		160			55		
834	9.767 4816		9.858 6125		0.141 3875	9.908 8690		166	
835	9.767 4920	104	9.858 6285	160	0.141 3715	9.908 8636	54	165	
836	9.767 5025	105	9.858 6445	160	0.141 3555	9.908 8581	55	164	
		105		159			55		
837	9.767 5130		9.858 6604		0.141 3396	9.908 8526		163	
838	9.767 5235	105	9.858 6764	160	0.141 3236	9.908 8471	55	162	
839	9.767 5340	105	9.858 6924	160	0.141 3076	9.908 8417	54	161	
		105		159			55		
.840	9.767 5445		9.858 7083		0.141 2917	9.908 8362		.160	
		105		160			55		
841	9.767 5550		9.858 7243		0.141 2757	9.908 8307		159	
842	9.767 5655	105	9.858 7403	160	0.141 2597	9.908 8252	55	158	
843	9.767 5760	105	9.858 7562	159	0.141 2438	9.908 8198	54	157	
		105		160			55		
844	9.767 5865		9.858 7722		0.141 2278	9.908 8143		156	
845	9.767 5970	105	9.858 7882	160	0.141 2118	9.908 8088	55	155	
846	9.767 6075	105	9.858 8041	159	0.141 1959	9.908 8033	55	154	
		105		160			54		
847	9.767 6180		9.858 8201		0.141 1799	9.908 7979		153	
848	9.767 6285	105	9.858 8361	160	0.141 1639	9.908 7924	55	152	
849	9.767 6390	105	9.858 8520	159	0.141 1480	9.908 7869	55	151	
		104		160			55		
.850	9.767 6494		9.858 8680		0.141 1320	9.908 7814		.150	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	106
1	10.6
2	21.2
3	31.8
4	42.4
5	53.0
6	63.6
7	74.2
8	84.8
9	95.4

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

54°.200 — 54°.150

35°.850 — 35°.900

35°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.767 6494		9.858 8680		0.141 1320	9.908 7814		**.150**	
		105		160			54		
851	9.767 6599		9.858 8840		0.141 1160	9.908 7760		149	
852	9.767 6704	105	9.858 8999	159	0.141 1001	9.908 7705	55	148	
853	9.767 6809	105	9.858 9159	160	0.141 0841	9.908 7650	55	147	
		105		160			55		
854	9.767 6914		9.858 9319		0.141 0681	9.908 7595		146	
855	9.767 7019	105	9.858 9478	159	0.141 0522	9.908 7541	54	145	
856	9.767 7124	105	9.858 9638	160	0.141 0362	9.908 7486	55	144	
		105		160			55		
857	9.767 7229		9.858 9798		0.141 0202	9.908 7431		143	
858	9.767 7334	105	9.858 9957	159	0.141 0043	9.908 7376	55	142	
859	9.767 7438	104	9.859 0117	160	0.140 9883	9.908 7321	55	141	
		105		160			54		
.860	9.767 7543		9.859 0277		0.140 9723	9.908 7267		**.140**	
		105		159			55		
861	9.767 7648		9.859 0436		0.140 9564	9.908 7212		139	
862	9.767 7753	105	9.859 0596	160	0.140 9404	9.908 7157	55	138	
863	9.767 7858	105	9.859 0756	160	0.140 9244	9.908 7102	55	137	
		105		159			55		
864	9.767 7963		9.859 0915		0.140 9085	9.908 7047		136	
865	9.767 8068	105	9.859 1075	160	0.140 8925	9.908 6993	54	135	
866	9.767 8172	104	9.859 1235	160	0.140 8765	9.908 6938	55	134	
		105		159			55		
867	9.767 8277		9.859 1394		0.140 8606	9.908 6883		133	
868	9.767 8382	105	9.859 1554	160	0.140 8446	9.908 6828	55	132	
869	9.767 8487	105	9.859 1714	160	0.140 8286	9.908 6773	55	131	
		105		159			54		
.870	9.767 8592		9.859 1873		0.140 8127	9.908 6719		**.130**	
		105		160			55		
871	9.767 8697		9.859 2033		0.140 7967	9.908 6664		129	
872	9.767 8801	104	9.859 2192	159	0.140 7808	9.908 6609	55	128	
873	9.767 8906	105	9.859 2352	160	0.140 7648	9.908 6554	55	127	
		105		160			55		
874	9.767 9011		9.859 2512		0.140 7488	9.908 6499		126	
875	9.767 9116	105	9.859 2671	159	0.140 7329	9.908 6445	54	125	
876	9.767 9221	105	9.859 2831	160	0.140 7169	9.908 6390	55	124	
		104		160			55		
877	9.767 9325		9.859 2991		0.140 7009	9.908 6335		123	
878	9.767 9430	105	9.859 3150	159	0.140 6850	9.908 6280	55	122	
879	9.767 9535	105	9.859 3310	160	0.140 6690	9.908 6225	55	121	
		105		159			55		
.880	9.767 9640		9.859 3469		0.140 6531	9.908 6170		**.120**	
		105		160			54		
881	9.767 9745		9.859 3629		0.140 6371	9.908 6116		119	
882	9.767 9849	104	9.859 3789	160	0.140 6211	9.908 6061	55	118	
883	9.767 9954	105	9.859 3948	159	0.140 6052	9.908 6006	55	117	
		105		160			55		
884	9.768 0059		9.859 4108		0.140 5892	9.908 5951		116	
885	9.768 0164	105	9.859 4268	160	0.140 5732	9.908 5896	55	115	
886	9.768 0269	105	9.859 4427	159	0.140 5573	9.908 5841	55	114	
		104		160			54		
887	9.768 0373		9.859 4587		0.140 5413	9.908 5787		113	
888	9.768 0478	105	9.859 4746	159	0.140 5254	9.908 5732	55	112	
889	9.768 0583	105	9.859 4906	160	0.140 5094	9.908 5677	55	111	
		105		160			55		
.890	9.768 0688		9.859 5066		0.140 4934	9.908 5622		**.110**	
		104		159			55		
891	9.768 0792		9.859 5225		0.140 4775	9.908 5567		109	
892	9.768 0897	105	9.859 5385	160	0.140 4615	9.908 5512	55	108	
893	9.768 1002	105	9.859 5544	159	0.140 4456	9.908 5457	55	107	
		105		160			54		
894	9.768 1107		9.859 5704		0.140 4296	9.908 5403		106	
895	9.768 1211	104	9.859 5864	160	0.140 4136	9.908 5348	55	105	
896	9.768 1316	105	9.859 6023	159	0.140 3977	9.908 5293	55	104	
		105		160			55		
897	9.768 1421		9.859 6183		0.140 3817	9.908 5238		103	
898	9.768 1525	104	9.859 6342	159	0.140 3658	9.908 5183	55	102	
899	9.768 1630	105	9.859 6502	160	0.140 3498	9.908 5128	55	101	
		105		159			55		
.900	9.768 1735		9.859 6661		0.140 3339	9.908 5073		**.100**	
	cos	d	cotg	d	tang	sin	d	**54°**	P.P.

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

54°.150 — 54°.100

35°.900 — 35°.950

35°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.768 1735		9.859 6661		0.140 3339	9.908 5073		.100	
		105		160			54		
901	9.768 1840		9.859 6821		0.140 3179	9.908 5019		099	
902	9.768 1944	104	9.859 6981	160	0.140 3019	9.908 4964	55	098	
903	9.768 2049	105	9.859 7140	159	0.140 2860	9.908 4909	55	097	
		105		160			55		
904	9.768 2154		9.859 7300		0.140 2700	9.908 4854		096	
905	9.768 2258	104	9.859 7459	159	0.140 2541	9.908 4799	55	095	
906	9.768 2363	105	9.859 7619	160	0.140 2381	9.908 4744	55	094	
		105		159			55		
907	9.768 2468		9.859 7778		0.140 2222	9.908 4689		093	
908	9.768 2572	104	9.859 7938	160	0.140 2062	9.908 4634	55	092	
909	9.768 2677	105	9.859 8098	160	0.140 1902	9.908 4580	54	091	
		105		159			55		
.910	9.768 2782		9.859 8257		0.140 1743	9.908 4525		.090	
		104		160			55		
911	9.768 2886		9.859 8417		0.140 1583	9.908 4470		089	
912	9.768 2991	105	9.859 8576	159	0.140 1424	9.908 4415	55	088	
913	9.768 3096	105	9.859 8736	160	0.140 1264	9.908 4360	55	087	
		104		159			55		
914	9.768 3200		9.859 8895		0.140 1105	9.908 4305		086	
915	9.768 3305	105	9.859 9055	160	0.140 0945	9.908 4250	55	085	
916	9.768 3410	105	9.859 9214	159	0.140 0786	9.908 4195	55	084	
		104		160			55		
917	9.768 3514		9.859 9374		0.140 0626	9.908 4140		083	
918	9.768 3619	105	9.859 9534	160	0.140 0466	9.908 4085	55	082	
919	9.768 3724	105	9.859 9693	159	0.140 0307	9.908 4031	54	081	
		104		160			55		
.920	9.768 3828		9.859 9853		0.140 0147	9.908 3976		.080	
		105		159			55		
921	9.768 3933		9.860 0012		0.139 9988	9.908 3921		079	
922	9.768 4038	105	9.860 0172	160	0.139 9828	9.908 3866	55	078	
923	9.768 4142	104	9.860 0331	159	0.139 9669	9.908 3811	55	077	
		105		160			55		
924	9.768 4247		9.860 0491		0.139 9509	9.908 3756		076	
925	9.768 4351	104	9.860 0650	159	0.139 9350	9.908 3701	55	075	
926	9.768 4456	105	9.860 0810	160	0.139 9190	9.908 3646	55	074	
		105		159			55		
927	9.768 4561		9.860 0969		0.139 9031	9.908 3591		073	
928	9.768 4665	104	9.860 1129	160	0.139 8871	9.908 3536	55	072	
929	9.768 4770	105	9.860 1289	160	0.139 8711	9.908 3481	55	071	
		105		159			55		
.930	9.768 4875		9.860 1448		0.139 8552	9.908 3426		.070	
		104		160			54		
931	9.768 4979		9.860 1608		0.139 8392	9.908 3372		069	
932	9.768 5084	105	9.860 1767	159	0.139 8233	9.908 3317	55	068	
933	9.768 5188	104	9.860 1927	160	0.139 8073	9.908 3262	55	067	
		105		159			55		
934	9.768 5293		9.860 2086		0.139 7914	9.908 3207		066	
935	9.768 5397	104	9.860 2246	160	0.139 7754	9.908 3152	55	065	
936	9.768 5502	105	9.860 2405	159	0.139 7595	9.908 3097	55	064	
		105		160			55		
937	9.768 5607		9.860 2565		0.139 7435	9.908 3042		063	
938	9.768 5711	104	9.860 2724	159	0.139 7276	9.908 2987	55	062	
939	9.768 5816	105	9.860 2884	160	0.139 7116	9.908 2932	55	061	
		104		159			55		
.940	9.768 5920		9.860 3043		0.139 6957	9.908 2877		.060	
		105		160			55		
941	9.768 6025		9.860 3203		0.139 6797	9.908 2822		059	
942	9.768 6129	104	9.860 3362	159	0.139 6638	9.908 2767	55	058	
943	9.768 6234	105	9.860 3522	160	0.139 6478	9.908 2712	55	057	
		104		159			55		
944	9.768 6338		9.860 3681		0.139 6319	9.908 2657		056	
945	9.768 6443	105	9.860 3841	160	0.139 6159	9.908 2602	55	055	
946	9.768 6548	105	9.860 4000	159	0.139 6000	9.908 2547	55	054	
		104		160			55		
947	9.768 6652		9.860 4160		0.139 5840	9.908 2492		053	
948	9.768 6757	105	9.860 4319	159	0.139 5681	9.908 2437	55	052	
949	9.768 6861	104	9.860 4479	160	0.139 5521	9.908 2382	55	051	
		105		159			55		
.950	9.768 6966		9.860 4638		0.139 5362	9.908 2327		.050	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	55	54
1	5.5	5.4
2	11.0	10.8
3	16.5	16.2
4	22.0	21.6
5	27.5	27.0
6	33.0	32.4
7	38.5	37.8
8	44.0	43.2
9	49.5	48.6

54°.100 — 54°.050

35°.950 — 36°.000

35°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.768 6966		9.860 4638		0.139 5362	9.908 2327		.050	
		104		160			55		
951	9.768 7070		9.860 4798		0.139 5202	9.908 2272		049	
952	9.768 7175	105	9.860 4957	159	0.139 5043	9.908 2218	54	048	
953	9.768 7279	104	9.860 5117	160	0.139 4883	9.908 2163	55	047	
		105		159			55		
954	9.768 7384		9.860 5276		0.139 4724	9.908 2108		046	
955	9.768 7488	104	9.860 5436	160	0.139 4564	9.908 2053	55	045	
956	9.768 7593	105	9.860 5595	159	0.139 4405	9.908 1998	55	044	
		104		160			55		
957	9.768 7697		9.860 5755		0.139 4245	9.908 1943		043	
958	9.768 7802	105	9.860 5914	159	0.139 4086	9.908 1888	55	042	
959	9.768 7906	104	9.860 6074	160	0.139 3926	9.908 1833	55	041	
		105		159			55		
.960	9.768 8011		9.860 6233		0.139 3767	9.908 1778		.040	
		104		159			55		
961	9.768 8115		9.860 6392		0.139 3608	9.908 1723		039	
962	9.768 8220	105	9.860 6552	160	0.139 3448	9.908 1668	55	038	
963	9.768 8324	104	9.860 6711	159	0.139 3289	9.908 1613	55	037	
		105		160			55		
964	9.768 8429		9.860 6871		0.139 3129	9.908 1558		036	
965	9.768 8533	104	9.860 7030	159	0.139 2970	9.908 1503	55	035	
966	9.768 8637	104	9.860 7190	160	0.139 2810	9.908 1448	55	034	
		105		159			55		
967	9.768 8742		9.860 7349		0.139 2651	9.908 1393		033	
968	9.768 8846	104	9.860 7509	160	0.139 2491	9.908 1338	55	032	
969	9.768 8951	105	9.860 7668	159	0.139 2332	9.908 1283	55	031	
		104		160			55		
.970	9.768 9055		9.860 7828		0.139 2172	9.908 1228		.030	
		105		159			55		
971	9.768 9160		9.860 7987		0.139 2013	9.908 1173		029	
972	9.768 9264	104	9.860 8147	160	0.139 1853	9.908 1118	55	028	
973	9.768 9369	105	9.860 8306	159	0.139 1694	9.908 1063	55	027	
		104		159			55		
974	9.768 9473		9.860 8465		0.139 1535	9.908 1008		026	
975	9.768 9577	104	9.860 8625	160	0.139 1375	9.908 0953	55	025	
976	9.768 9682	105	9.860 8784	159	0.139 1216	9.908 0898	55	024	
		104		160			55		
977	9.768 9786		9.860 8944		0.139 1056	9.908 0843		023	
978	9.768 9891	105	9.860 9103	159	0.139 0897	9.908 0788	55	022	
979	9.768 9995	104	9.860 9263	160	0.139 0737	9.908 0732	56	021	
		105		159			55		
.980	9.769 0100		9.860 9422		0.139 0578	9.908 0677		.020	
		104		160			55		
981	9.769 0204		9.860 9582		0.139 0418	9.908 0622		019	
982	9.769 0308	104	9.860 9741	159	0.139 0259	9.908 0567	55	018	
983	9.769 0413	105	9.860 9900	159	0.139 0100	9.908 0512	55	017	
		104		160			55		
984	9.769 0517		9.861 0060		0.138 9940	9.908 0457		016	
985	9.769 0622	105	9.861 0219	159	0.138 9781	9.908 0402	55	015	
986	9.769 0726	104	9.861 0379	160	0.138 9621	9.908 0347	55	014	
		104		159			55		
987	9.769 0830		9.861 0538		0.138 9462	9.908 0292		013	
988	9.769 0935	105	9.861 0697	159	0.138 9303	9.908 0237	55	012	
989	9.769 1039	104	9.861 0857	160	0.138 9143	9.908 0182	55	011	
		104		159			55		
.990	9.769 1143		9.861 1016		0.138 8984	9.908 0127		.010	
		105		160			55		
991	9.769 1248		9.861 1176		0.138 8824	9.908 0072		009	
992	9.769 1352	104	9.861 1335	159	0.138 8665	9.908 0017	55	008	
993	9.769 1456	104	9.861 1495	160	0.138 8505	9.907 9962	55	007	
		105		159			55		
994	9.769 1561		9.861 1654		0.138 8346	9.907 9907		006	
995	9.769 1665	104	9.861 1813	159	0.138 8187	9.907 9852	55	005	
996	9.769 1770	105	9.861 1973	160	0.138 8027	9.907 9797	55	004	
		104		159			55		
997	9.769 1874		9.861 2132		0.138 7868	9.907 9742		003	
998	9.769 1978	104	9.861 2292	160	0.138 7708	9.907 9687	55	002	
999	9.769 2083	105	9.861 2451	159	0.138 7549	9.907 9632	55	001	
		104		159			56		
*.000	9.769 2187		9.861 2610		0.138 7390	9.907 9576		.000	
	cos	d	cotg	d	tang	sin	d	54°	P.P.

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	56	55
1	5.6	5.5
2	11.2	11.0
3	16.8	16.5
4	22.4	22.0
5	28.0	27.5
6	33.6	33.0
7	39.2	38.5
8	44.8	44.0
9	50.4	49.5

	54
1	5.4
2	10.8
3	16.2
4	21.6
5	27.0
6	32.4
7	37.8
8	43.2
9	48.6

54°.050 — 54°.000

36°.000 — 36°.050

36°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.769 2187		9.861 2610		0.138 7390	9.907 9576		*000	
		104		160			55		
001	9.769 2291		9.861 2770		0.138 7230	9.907 9521		999	
002	9.769 2396	105	9.861 2929	159	0.138 7071	9.907 9466	55	998	
003	9.769 2500	104	9.861 3089	160	0.138 6911	9.907 9411	55	997	
		104		159			55		
004	9.769 2604		9.861 3248		0.138 6752	9.907 9356		996	
005	9.769 2708	104	9.861 3407	159	0.138 6593	9.907 9301	55	995	
006	9.769 2813	105	9.861 3567	160	0.138 6433	9.907 9246	55	994	
		104		159			55		
007	9.769 2917		9.861 3726		0.138 6274	9.907 9191		993	
008	9.769 3021	104	9.861 3886	160	0.138 6114	9.907 9136	55	992	
009	9.769 3126	105	9.861 4045	159	0.138 5955	9.907 9081	55	991	
		104		159			55		
.010	9.769 3230		9.861 4204		0.138 5796	9.907 9026		.990	
		104		160			55		
011	9.769 3334		9.861 4364		0.138 5636	9.907 8971		989	
012	9.769 3439	105	9.861 4523	159	0.138 5477	9.907 8915	56	988	
013	9.769 3543	104	9.861 4682	159	0.138 5318	9.907 8860	55	987	
		104		160			55		
014	9.769 3647		9.861 4842		0.138 5158	9.907 8805		986	
015	9.769 3751	104	9.861 5001	159	0.138 4999	9.907 8750	55	985	
016	9.769 3856	105	9.861 5161	160	0.138 4839	9.907 8695	55	984	
		104		159			55		
017	9.769 3960		9.861 5320		0.138 4680	9.907 8640		983	
018	9.769 4064	104	9.861 5479	159	0.138 4521	9.907 8585	55	982	
019	9.769 4168	104	9.861 5639	160	0.138 4361	9.907 8530	55	981	
		105		159			55		
.020	9.769 4273		9.861 5798		0.138 4202	9.907 8475		.980	
		104		159			55		
021	9.769 4377		9.861 5957		0.138 4043	9.907 8420		979	
022	9.769 4481	104	9.861 6117	160	0.138 3883	9.907 8364	56	978	
023	9.769 4585	104	9.861 6276	159	0.138 3724	9.907 8309	55	977	
		105		159			55		
024	9.769 4690		9.861 6435		0.138 3565	9.907 8254		976	
025	9.769 4794	104	9.861 6595	160	0.138 3405	9.907 8199	55	975	
026	9.769 4898	104	9.861 6754	159	0.138 3246	9.907 8144	55	974	
		104		160			55		
027	9.769 5002		9.861 6914		0.138 3086	9.907 8089		973	
028	9.769 5107	105	9.861 7073	159	0.138 2927	9.907 8034	55	972	
029	9.769 5211	104	9.861 7232	159	0.138 2768	9.907 7979	55	971	
		104		160			56		
.030	9.769 5315		9.861 7392		0.138 2608	9.907 7923		.970	
		104		159			55		
031	9.769 5419		9.861 7551		0.138 2449	9.907 7868		969	
032	9.769 5523	104	9.861 7710	159	0.138 2290	9.907 7813	55	968	
033	9.769 5628	105	9.861 7870	160	0.138 2130	9.907 7758	55	967	
		104		159			55		
034	9.769 5732		9.861 8029		0.138 1971	9.907 7703		966	
035	9.769 5836	104	9.861 8188	159	0.138 1812	9.907 7648	55	965	
036	9.769 5940	104	9.861 8348	160	0.138 1652	9.907 7593	55	964	
		104		159			56		
037	9.769 6044		9.861 8507		0.138 1493	9.907 7537		963	
038	9.769 6149	105	9.861 8666	159	0.138 1334	9.907 7482	55	962	
039	9.769 6253	104	9.861 8826	160	0.138 1174	9.907 7427	55	961	
		104		159			55		
.040	9.769 6357		9.861 8985		0.138 1015	9.907 7372		.960	
		104		159			55		
041	9.769 6461		9.861 9144		0.138 0856	9.907 7317		959	
042	9.769 6565	104	9.861 9304	160	0.138 0696	9.907 7262	55	958	
043	9.769 6669	104	9.861 9463	159	0.138 0537	9.907 7207	55	957	
		105		159			56		
044	9.769 6774		9.861 9622		0.138 0378	9.907 7151		956	
045	9.769 6878	104	9.861 9782	160	0.138 0218	9.907 7096	55	955	
046	9.769 6982	104	9.861 9941	159	0.138 0059	9.907 7041	55	954	
		104		159			55		
047	9.769 7086		9.862 0100		0.137 9900	9.907 6986		953	
048	9.769 7190	104	9.862 0259	159	0.137 9741	9.907 6931	55	952	
049	9.769 7294	104	9.862 0419	160	0.137 9581	9.907 6876	55	951	
		104		159			56		
.050	9.769 7398		9.862 0578		0.137 9422	9.907 6820		.950	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	56
1	5.6
2	11.2
3	16.8
4	22.4
5	28.0
6	33.6
7	39.2
8	44.8
9	50.4

	55
1	5.5
2	11.0
3	16.5
4	22.0
5	27.5
6	33.0
7	38.5
8	44.0
9	49.5

54°.000 — 53°.950

36°.050 — 36°.100

36°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.769 7398		9.862 0578		0.137 9422	9.907 6820		.950	
		105		159			55		
051	9.769 7503		9.862 0737		0.137 9263	9.907 6765		949	
052	9.769 7607	104	9.862 0897	160	0.137 9103	9.907 6710	55	948	
053	9.769 7711	104	9.862 1056	159	0.137 8944	9.907 6655	55	947	
		104		159			55		
054	9.769 7815		9.862 1215		0.137 8785	9.907 6600		946	
055	9.769 7919	104	9.862 1375	160	0.137 8625	9.907 6544	56	945	
056	9.769 8023	104	9.862 1534	159	0.137 8466	9.907 6489	55	944	
		104		159			55		
057	9.769 8127		9.862 1693		0.137 8307	9.907 6434		943	
058	9.769 8231	104	9.862 1853	160	0.137 8147	9.907 6379	55	942	
059	9.769 8336	105	9.862 2012	159	0.137 7988	9.907 6324	55	941	
		104		159			55		
.060	9.769 8440		9.862 2171		0.137 7829	9.907 6269		.940	
		104		159			56		
061	9.769 8544		9.862 2330		0.137 7670	9.907 6213		939	
062	9.769 8648	104	9.862 2490	160	0.137 7510	9.907 6158	55	938	
063	9.769 8752	104	9.862 2649	159	0.137 7351	9.907 6103	55	937	
		104		159			55		
064	9.769 8856		9.862 2808		0.137 7192	9.907 6048		936	
065	9.769 8960	104	9.862 2968	160	0.137 7032	9.907 5993	55	935	
066	9.769 9064	104	9.862 3127	159	0.137 6873	9.907 5937	56	934	
		104		159			55		
067	9.769 9168		9.862 3286		0.137 6714	9.907 5882		933	
068	9.769 9272	104	9.862 3445	159	0.137 6555	9.907 5827	55	932	
069	9.769 9376	104	9.862 3605	160	0.137 6395	9.907 5772	55	931	
		104		159			55		
.070	9.769 9480		9.862 3764		0.137 6236	9.907 5717		.930	
		104		159			56		
071	9.769 9584		9.862 3923		0.137 6077	9.907 5661		929	
072	9.769 9689	105	9.862 4082	159	0.137 5918	9.907 5606	55	928	
073	9.769 9793	104	9.862 4242	160	0.137 5758	9.907 5551	55	927	
		104		159			55		
074	9.769 9897		9.862 4401		0.137 5599	9.907 5496		926	
075	9.770 0001	104	9.862 4560	159	0.137 5440	9.907 5440	56	925	
076	9.770 0105	104	9.862 4720	160	0.137 5280	9.907 5385	55	924	
		104		159			55		
077	9.770 0209		9.862 4879		0.137 5121	9.907 5330		923	
078	9.770 0313	104	9.862 5038	159	0.137 4962	9.907 5275	55	922	
079	9.770 0417	104	9.862 5197	159	0.137 4803	9.907 5220	55	921	
		104		160			56		
.080	9.770 0521		9.862 5357		0.137 4643	9.907 5164		.920	
		104		159			55		
081	9.770 0625		9.862 5516		0.137 4484	9.907 5109		919	
082	9.770 0729	104	9.862 5675	159	0.137 4325	9.907 5054	55	918	
083	9.770 0833	104	9.862 5834	159	0.137 4166	9.907 4999	55	917	
		104		160			56		
084	9.770 0937		9.862 5994		0.137 4006	9.907 4943		916	
085	9.770 1041	104	9.862 6153	159	0.137 3847	9.907 4888	55	915	
086	9.770 1145	104	9.862 6312	159	0.137 3688	9.907 4833	55	914	
		104		159			55		
087	9.770 1249		9.862 6471		0.137 3529	9.907 4778		913	
088	9.770 1353	104	9.862 6631	160	0.137 3369	9.907 4722	56	912	
089	9.770 1457	104	9.862 6790	159	0.137 3210	9.907 4667	55	911	
		104		159			55		
.090	9.770 1561		9.862 6949		0.137 3051	9.907 4612		.910	
		104		159			55		
091	9.770 1665		9.862 7108		0.137 2892	9.907 4557		909	
092	9.770 1769	104	9.862 7267	159	0.137 2733	9.907 4501	56	908	
093	9.770 1873	104	9.862 7427	160	0.137 2573	9.907 4446	55	907	
		104		159			55		
094	9.770 1977		9.862 7586		0.137 2414	9.907 4391		906	
095	9.770 2081	104	9.862 7745	159	0.137 2255	9.907 4336	55	905	
096	9.770 2185	104	9.862 7904	159	0.137 2096	9.907 4280	56	904	
		104		160			55		
097	9.770 2289		9.862 8064		0.137 1936	9.907 4225		903	
098	9.770 2393	104	9.862 8223	159	0.137 1777	9.907 4170	55	902	
099	9.770 2497	104	9.862 8382	159	0.137 1618	9.907 4115	55	901	
		104		159			56		
.100	9.770 2601		9.862 8541		0.137 1459	9.907 4059		.900	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

53°.950 — 53°.900

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	105
1	10.5
2	21.0
3	31.5
4	42.0
5	52.5
6	63.0
7	73.5
8	84.0
9	94.5

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	56	55
1	5.6	5.5
2	11.2	11.0
3	16.8	16.5
4	22.4	22.0
5	28.0	27.5
6	33.6	33.0
7	39.2	38.5
8	44.8	44.0
9	50.4	49.5

$36^\circ.100 - 36^\circ.150$

36°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.770 2601		9.862 8541		0.137 1459	9.907 4059		.900	
		103		160			55		
101	9.770 2704		9.862 8701		0.137 1299	9.907 4004		899	
102	9.770 2808	104	9.862 8860	159	0.137 1140	9.907 3949	55	898	
103	9.770 2912	104	9.862 9019	159	0.137 0981	9.907 3893	56	897	
		104		159			55		
104	9.770 3016		9.862 9178		0.137 0822	9.907 3838		896	
105	9.770 3120	104	9.862 9337	159	0.137 0663	9.907 3783	55	895	
106	9.770 3224	104	9.862 9497	160	0.137 0503	9.907 3728	55	894	
		104		159			56		
107	9.770 3328		9.862 9656		0.137 0344	9.907 3672		893	
108	9.770 3432	104	9.862 9815	159	0.137 0185	9.907 3617	55	892	
109	9.770 3536	104	9.862 9974	159	0.137 0026	9.907 3562	55	891	
		104		159			56		
.110	9.770 3640		9.863 0133		0.136 9867	9.907 3506		.890	
		104		160			55		
111	9.770 3744		9.863 0293		0.136 9707	9.907 3451		889	
112	9.770 3848	104	9.863 0452	159	0.136 9548	9.907 3396	55	888	
113	9.770 3952	104	9.863 0611	159	0.136 9389	9.907 3341	55	887	
		103		159			56		
114	9.770 4055		9.863 0770		0.136 9230	9.907 3285		886	
115	9.770 4159	104	9.863 0929	159	0.136 9071	9.907 3230	55	885	
116	9.770 4263	104	9.863 1089	160	0.136 8911	9.907 3175	55	884	
		104		159			56		
117	9.770 4367		9.863 1248		0.136 8752	9.907 3119		883	
118	9.770 4471	104	9.863 1407	159	0.136 8593	9.907 3064	55	882	
119	9.770 4575	104	9.863 1566	159	0.136 8434	9.907 3009	55	881	
		104		159			56		
.120	9.770 4679		9.863 1725		0.136 8275	9.907 2953		.880	
		104		160			55		
121	9.770 4783		9.863 1885		0.136 8115	9.907 2898		879	
122	9.770 4886	103	9.863 2044	159	0.136 7956	9.907 2843	55	878	
123	9.770 4990	104	9.863 2203	159	0.136 7797	9.907 2787	56	877	
		104		159			55		
124	9.770 5094		9.863 2362		0.136 7638	9.907 2732		876	
125	9.770 5198	104	9.863 2521	159	0.136 7479	9.907 2677	55	875	
126	9.770 5302	104	9.863 2680	159	0.136 7320	9.907 2621	56	874	
		104		160			55		
127	9.770 5406		9.863 2840		0.136 7160	9.907 2566		873	
128	9.770 5510	104	9.863 2999	159	0.136 7001	9.907 2511	55	872	
129	9.770 5613	103	9.863 3158	159	0.136 6842	9.907 2455	56	871	
		104		159			55		
.130	9.770 5717		9.863 3317		0.136 6683	9.907 2400		.870	
		104		159			55		
131	9.770 5821		9.863 3476		0.136 6524	9.907 2345		869	
132	9.770 5925	104	9.863 3635	159	0.136 6365	9.907 2289	56	868	
133	9.770 6029	104	9.863 3795	160	0.136 6205	9.907 2234	55	867	
		103		159			55		
134	9.770 6132		9.863 3954		0.136 6046	9.907 2179		866	
135	9.770 6236	104	9.863 4113	159	0.136 5887	9.907 2123	56	865	
136	9.770 6340	104	9.863 4272	159	0.136 5728	9.907 2068	55	864	
		104		159			55		
137	9.770 6444		9.863 4431		0.136 5569	9.907 2013		863	
138	9.770 6548	104	9.863 4590	159	0.136 5410	9.907 1957	56	862	
139	9.770 6652	104	9.863 4749	159	0.136 5251	9.907 1902	55	861	
		103		160			55		
.140	9.770 6755		9.863 4909		0.136 5091	9.907 1847		.860	
		104		159			56		
141	9.770 6859		9.863 5068		0.136 4932	9.907 1791		859	
142	9.770 6963	104	9.863 5227	159	0.136 4773	9.907 1736	55	858	
143	9.770 7067	104	9.863 5386	159	0.136 4614	9.907 1681	55	857	
		103		159			56		
144	9.770 7170		9.863 5545		0.136 4455	9.907 1625		856	
145	9.770 7274	104	9.863 5704	159	0.136 4296	9.907 1570	55	855	
146	9.770 7378	104	9.863 5864	160	0.136 4136	9.907 1515	55	854	
		104		159			56		
147	9.770 7482		9.863 6023		0.136 3977	9.907 1459		853	
148	9.770 7586	104	9.863 6182	159	0.136 3818	9.907 1404	55	852	
149	9.770 7689	103	9.863 6341	159	0.136 3659	9.907 1348	56	851	
		104		159			55		
.150	9.770 7793		9.863 6500		0.136 3500	9.907 1293		.850	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	103
1	10.3
2	20.6
3	30.9
4	41.2
5	51.5
6	61.8
7	72.1
8	82.4
9	92.7

	56	55
1	5.6	5.5
2	11.2	11.0
3	16.8	16.5
4	22.4	22.0
5	28.0	27.5
6	33.6	33.0
7	39.2	38.5
8	44.8	44.0
9	50.4	49.5

$53^\circ.900 - 53^\circ.850$

36°.150 — 36°.200

36°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.770 7793		9.863 6500		0.136 3500	9.907 1293		.850	
		104		159			55		
151	9.770 7897		9.863 6659		0.136 3341	9.907 1238		849	
152	9.770 8001	104	9.863 6818	159	0.136 3182	9.907 1182	56	848	160
153	9.770 8104	103	9.863 6977	159	0.136 3023	9.907 1127	55	847	1 16.0
		104		160			55		2 32.0
154	9.770 8208		9.863 7137		0.136 2863	9.907 1072		846	3 48.0
155	9.770 8312	104	9.863 7296	159	0.136 2704	9.907 1016	56	845	4 64.0
156	9.770 8416	104	9.863 7455	159	0.136 2545	9.907 0961	55	844	5 80.0
		103		159			56		6 96.0
157	9.770 8519		9.863 7614		0.136 2386	9.907 0905		843	7 112.0
158	9.770 8623	104	9.863 7773	159	0.136 2227	9.907 0850	55	842	8 128.0
159	9.770 8727	104	9.863 7932	159	0.136 2068	9.907 0795	55	841	9 144.0
		103		159			56		
.160	9.770 8830		9.863 8091		0.136 1909	9.907 0739		.840	
		104		159			55		
161	9.770 8934		9.863 8250		0.136 1750	9.907 0684		839	
162	9.770 9038	104	9.863 8409	159	0.136 1591	9.907 0628	56	838	159
163	9.770 9142	104	9.863 8569	160	0.136 1431	9.907 0573	55	837	1 15.9
		103		159			55		2 31.8
164	9.770 9245		9.863 8728		0.136 1272	9.907 0518		836	3 47.7
165	9.770 9349	104	9.863 8887	159	0.136 1113	9.907 0462	56	835	4 63.6
166	9.770 9453	104	9.863 9046	159	0.136 0954	9.907 0407	55	834	5 79.5
		103		159			56		6 95.4
167	9.770 9556		9.863 9205		0.136 0795	9.907 0351		833	7 111.3
168	9.770 9660	104	9.863 9364	159	0.136 0636	9.907 0296	55	832	8 127.2
169	9.770 9764	104	9.863 9523	159	0.136 0477	9.907 0241	55	831	9 143.1
		103		159			56		
.170	9.770 9867		9.863 9682		0.136 0318	9.907 0185		.830	
		104		159			55		
171	9.770 9971		9.863 9841		0.136 0159	9.907 0130		829	
172	9.771 0075	104	9.864 0000	159	0.136 0000	9.907 0074	56	828	104
173	9.771 0178	103	9.864 0160	160	0.135 9840	9.907 0019	55	827	1 10.4
		104		159			56		2 20.8
174	9.771 0282		9.864 0319		0.135 9681	9.906 9963		826	3 31.2
175	9.771 0386	104	9.864 0478	159	0.135 9522	9.906 9908	55	825	4 41.6
176	9.771 0489	103	9.864 0637	159	0.135 9363	9.906 9853	55	824	5 52.0
		104		159			56		6 62.4
177	9.771 0593		9.864 0796		0.135 9204	9.906 9797		823	7 72.8
178	9.771 0697	104	9.864 0955	159	0.135 9045	9.906 9742	55	822	8 83.2
179	9.771 0800	103	9.864 1114	159	0.135 8886	9.906 9686	56	821	9 93.6
		104		159			55		
.180	9.771 0904		9.864 1273		0.135 8727	9.906 9631		.820	
		104		159			56		
181	9.771 1008		9.864 1432		0.135 8568	9.906 9575		819	
182	9.771 1111	103	9.864 1591	159	0.135 8409	9.906 9520	55	818	103
183	9.771 1215	104	9.864 1750	159	0.135 8250	9.906 9465	55	817	1 10.3
		104		159			56		2 20.6
184	9.771 1319		9.864 1909		0.135 8091	9.906 9409		816	3 30.9
185	9.771 1422	103	9.864 2069	160	0.135 7931	9.906 9354	55	815	4 41.2
186	9.771 1526	104	9.864 2228	159	0.135 7772	9.906 9298	56	814	5 51.5
		103		159			55		6 61.8
187	9.771 1629		9.864 2387		0.135 7613	9.906 9243		813	7 72.1
188	9.771 1733	104	9.864 2546	159	0.135 7454	9.906 9187	56	812	8 82.4
189	9.771 1837	104	9.864 2705	159	0.135 7295	9.906 9132	55	811	9 92.7
		103		159			56		
.190	9.771 1940		9.864 2864		0.135 7136	9.906 9076		.810	
		104		159			55		
191	9.771 2044		9.864 3023		0.135 6977	9.906 9021		809	56 55
192	9.771 2147	103	9.864 3182	159	0.135 6818	9.906 8966	55	808	1 5.6 5.5
193	9.771 2251	104	9.864 3341	159	0.135 6659	9.906 8910	56	807	2 11.2 11.0
		104		159			55		3 16.8 16.5
194	9.771 2355		9.864 3500		0.135 6500	9.906 8855		806	4 22.4 22.0
195	9.771 2458	103	9.864 3659	159	0.135 6341	9.906 8799	56	805	5 28.0 27.5
196	9.771 2562	104	9.864 3818	159	0.135 6182	9.906 8744	55	804	6 33.6 33.0
		103		159			56		7 39.2 38.5
197	9.771 2665		9.864 3977		0.135 6023	9.906 8688		803	8 44.8 44.0
198	9.771 2769	104	9.864 4136	159	0.135 5864	9.906 8633	55	802	9 50.4 49.5
199	9.771 2873	104	9.864 4295	159	0.135 5705	9.906 8577	56	801	
		103		159			55		
.200	9.771 2976		9.864 4454		0.135 5546	9.906 8522		.800	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

53°.850 — 53°.800

36°.200 — 36°.250

36°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.771 2976		9.864 4454		0.135 5546	9.906 8522		**.800**	
		104		159			56		
201	9.771 3080		9.864 4613		0.135 5387	9.906 8466		799	
202	9.771 3183	103	9.864 4772	159	0.135 5228	9.906 8411	55	798	
203	9.771 3287	104	9.864 4931	159	0.135 5069	9.906 8355	56	797	
		103		159			55		
204	9.771 3390		9.864 5090		0.135 4910	9.906 8300		796	
205	9.771 3494	104	9.864 5250	160	0.135 4750	9.906 8244	56	795	
206	9.771 3597	103	9.864 5409	159	0.135 4591	9.906 8189	55	794	
		104		159			56		
207	9.771 3701		9.864 5568		0.135 4432	9.906 8133		793	
208	9.771 3805	104	9.864 5727	159	0.135 4273	9.906 8078	55	792	
209	9.771 3908	103	9.864 5886	159	0.135 4114	9.906 8022	56	791	
		104		159			55		
.210	9.771 4012		9.864 6045		0.135 3955	9.906 7967		**.790**	
		103		159			56		
211	9.771 4115		9.864 6204		0.135 3796	9.906 7911		789	
212	9.771 4219	104	9.864 6363	159	0.135 3637	9.906 7856	55	788	
213	9.771 4322	103	9.864 6522	159	0.135 3478	9.906 7800	56	787	
		104		159			55		
214	9.771 4426		9.864 6681		0.135 3319	9.906 7745		786	
215	9.771 4529	103	9.864 6840	159	0.135 3160	9.906 7689	56	785	
216	9.771 4633	104	9.864 6999	159	0.135 3001	9.906 7634	55	784	
		103		159			56		
217	9.771 4736		9.864 7158		0.135 2842	9.906 7578		783	
218	9.771 4840	104	9.864 7317	159	0.135 2683	9.906 7523	55	782	
219	9.771 4943	103	9.864 7476	159	0.135 2524	9.906 7467	56	781	
		104		159			55		
.220	9.771 5047		9.864 7635		0.135 2365	9.906 7412		**.780**	
		103		159			56		
221	9.771 5150		9.864 7794		0.135 2206	9.906 7356		779	
222	9.771 5254	104	9.864 7953	159	0.135 2047	9.906 7301	55	778	
223	9.771 5357	103	9.864 8112	159	0.135 1888	9.906 7245	56	777	
		104		159			55		
224	9.771 5461		9.864 8271		0.135 1729	9.906 7190		776	
225	9.771 5564	103	9.864 8430	159	0.135 1570	9.906 7134	56	775	
226	9.771 5668	104	9.864 8589	159	0.135 1411	9.906 7079	55	774	
		103		159			56		
227	9.771 5771		9.864 8748		0.135 1252	9.906 7023		773	
228	9.771 5874	103	9.864 8907	159	0.135 1093	9.906 6968	55	772	
229	9.771 5978	104	9.864 9066	159	0.135 0934	9.906 6912	56	771	
		103		159			55		
.230	9.771 6081		9.864 9225		0.135 0775	9.906 6857		**.770**	
		104		159			56		
231	9.771 6185		9.864 9384		0.135 0616	9.906 6801		769	
232	9.771 6288	103	9.864 9543	159	0.135 0457	9.906 6745	56	768	
233	9.771 6392	104	9.864 9702	159	0.135 0298	9.906 6690	55	767	
		103		159			56		
234	9.771 6495		9.864 9861		0.135 0139	9.906 6634		766	
235	9.771 6599	104	9.865 0020	159	0.134 9980	9.906 6579	55	765	
236	9.771 6702	103	9.865 0179	159	0.134 9821	9.906 6523	56	764	
		103		159			55		
237	9.771 6805		9.865 0338		0.134 9662	9.906 6468		763	
238	9.771 6909	104	9.865 0497	159	0.134 9503	9.906 6412	56	762	
239	9.771 7012	103	9.865 0656	159	0.134 9344	9.906 6357	55	761	
		104		159			56		
.240	9.771 7116		9.865 0815		0.134 9185	9.906 6301		**.760**	
		103		159			55		
241	9.771 7219		9.865 0974		0.134 9026	9.906 6246		759	
242	9.771 7323	104	9.865 1133	159	0.134 8867	9.906 6190	56	758	
243	9.771 7426	103	9.865 1292	159	0.134 8708	9.906 6134	56	757	
		103		158			55		
244	9.771 7529		9.865 1450		0.134 8550	9.906 6079		756	
245	9.771 7633	104	9.865 1609	159	0.134 8391	9.906 6023	56	755	
246	9.771 7736	103	9.865 1768	159	0.134 8232	9.906 5968	55	754	
		104		159			56		
247	9.771 7840		9.865 1927		0.134 8073	9.906 5912		753	
248	9.771 7943	103	9.865 2086	159	0.134 7914	9.906 5857	55	752	
249	9.771 8046	103	9.865 2245	159	0.134 7755	9.906 5801	56	751	
		104		159			56		
.250	9.771 8150		9.865 2404		0.134 7596	9.906 5745		**.750**	
	cos	d	cotg	d	tang	sin	d	**53°**	P.P.

	160
1	16.0
2	32.0
3	48.0
4	64.0
5	80.0
6	96.0
7	112.0
8	128.0
9	144.0

	159	158
1	15.9	15.8
2	31.8	31.6
3	47.7	47.4
4	63.6	63.2
5	79.5	79.0
6	95.4	94.8
7	111.3	110.6
8	127.2	126.4
9	143.1	142.2

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	103
1	10.3
2	20.6
3	30.9
4	41.2
5	51.5
6	61.8
7	72.1
8	82.4
9	92.7

	56	55
1	5.6	5.5
2	11.2	11.0
3	16.8	16.5
4	22.4	22.0
5	28.0	27.5
6	33.6	33.0
7	39.2	38.5
8	44.8	44.0
9	50.4	49.5

53°.800 — 53°.750

36°.250 — 36°.300

36°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.771 8150		9.865 2404		0.134 7596	9.906 5745		**.750**	
		103		159			55		
251	9.771 8253		9.865 2563		0.134 7437	9.906 5690		749	
		103		159			56		
252	9.771 8356		9.865 2722		0.134 7278	9.906 5634		748	
		104		159			55		
253	9.771 8460		9.865 2881		0.134 7119	9.906 5579		747	
		103		159			56		
254	9.771 8563		9.865 3040		0.134 6960	9.906 5523		746	
		103		159			56		
255	9.771 8666		9.865 3199		0.134 6801	9.906 5467		745	
		104		159			55		
256	9.771 8770		9.865 3358		0.134 6642	9.906 5412		744	
		103		159			56		
257	9.771 8873		9.865 3517		0.134 6483	9.906 5356		743	
		104		159			55		
258	9.771 8977		9.865 3676		0.134 6324	9.906 5301		742	
		103		159			56		
259	9.771 9080		9.865 3835		0.134 6165	9.906 5245		741	
		103		159			55		
.260	9.771 9183		9.865 3994		0.134 6006	9.906 5190		**.740**	
		104		159			56		
261	9.771 9287		9.865 4153		0.134 5847	9.906 5134		739	
		103		159			56		
262	9.771 9390		9.865 4312		0.134 5688	9.906 5078		738	
		103		159			55		
263	9.771 9493		9.865 4471		0.134 5529	9.906 5023		737	
		104		158			56		
264	9.771 9597		9.865 4629		0.134 5371	9.906 4967		736	
		103		159			55		
265	9.771 9700		9.865 4788		0.134 5212	9.906 4912		735	
		103		159			56		
266	9.771 9803		9.865 4947		0.134 5053	9.906 4856		734	
		104		159			56		
267	9.771 9907		9.865 5106		0.134 4894	9.906 4800		733	
		103		159			55		
268	9.772 0010		9.865 5265		0.134 4735	9.906 4745		732	
		103		159			56		
269	9.772 0113		9.865 5424		0.134 4576	9.906 4689		731	
		103		159			56		
.270	9.772 0216		9.865 5583		0.134 4417	9.906 4633		**.730**	
		104		159			55		
271	9.772 0320		9.865 5742		0.134 4258	9.906 4578		729	
		103		159			56		
272	9.772 0423		9.865 5901		0.134 4099	9.906 4522		728	
		103		159			55		
273	9.772 0526		9.865 6060		0.134 3940	9.906 4467		727	
		104		159			56		
274	9.772 0630		9.865 6219		0.134 3781	9.906 4411		726	
		103		159			56		
275	9.772 0733		9.865 6378		0.134 3622	9.906 4355		725	
		103		158			55		
276	9.772 0836		9.865 6536		0.134 3464	9.906 4300		724	
		103		159			56		
277	9.772 0939		9.865 6695		0.134 3305	9.906 4244		723	
		104		159			56		
278	9.772 1043		9.865 6854		0.134 3146	9.906 4188		722	
		103		159			55		
279	9.772 1146		9.865 7013		0.134 2987	9.906 4133		721	
		103		159			56		
.280	9.772 1249		9.865 7172		0.134 2828	9.906 4077		**.720**	
		104		159			55		
281	9.772 1353		9.865 7331		0.134 2669	9.906 4022		719	
		103		159			56		
282	9.772 1456		9.865 7490		0.134 2510	9.906 3966		718	
		103		159			56		
283	9.772 1559		9.865 7649		0.134 2351	9.906 3910		717	
		103		159			55		
284	9.772 1662		9.865 7808		0.134 2192	9.906 3855		716	
		104		159			56		
285	9.772 1766		9.865 7967		0.134 2033	9.906 3799		715	
		103		158			56		
286	9.772 1869		9.865 8125		0.134 1875	9.906 3743		714	
		103		159			55		
287	9.772 1972		9.865 8284		0.134 1716	9.906 3688		713	
		103		159			56		
288	9.772 2075		9.865 8443		0.134 1557	9.906 3632		712	
		103		159			56		
289	9.772 2178		9.865 8602		0.134 1398	9.906 3576		711	
		104		159			55		
.290	9.772 2282		9.865 8761		0.134 1239	9.906 3521		**.710**	
		103		159			56		
291	9.772 2385		9.865 8920		0.134 1080	9.906 3465		709	
		103		159			56		
292	9.772 2488		9.865 9079		0.134 0921	9.906 3409		708	
		103		159			55		
293	9.772 2591		9.865 9238		0.134 0762	9.906 3354		707	
		104		159			56		
294	9.772 2695		9.865 9397		0.134 0603	9.906 3298		706	
		103		158			56		
295	9.772 2798		9.865 9555		0.134 0445	9.906 3242		705	
		103		159			55		
296	9.772 2901		9.865 9714		0.134 0286	9.906 3187		704	
		103		159			56		
297	9.772 3004		9.865 9873		0.134 0127	9.906 3131		703	
		103		159			56		
298	9.772 3107		9.866 0032		0.133 9968	9.906 3075		702	
		104		159			55		
299	9.772 3211		9.866 0191		0.133 9809	9.906 3020		701	
		103		159			56		
.300	9.772 3314		9.866 0350		0.133 9650	9.906 2964		**.700**	
	cos	d	cotg	d	tang	sin	d	**53°**	P.P.

P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	103
1	10.3
2	20.6
3	30.9
4	41.2
5	51.5
6	61.8
7	72.1
8	82.4
9	92.7

	56	55
1	5.6	5.5
2	11.2	11.0
3	16.8	16.5
4	22.4	22.0
5	28.0	27.5
6	33.6	33.0
7	39.2	38.5
8	44.8	44.0
9	50.4	49.5

53°.750 — 53°.700

$36^\circ.300 - 36^\circ.350$

36°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.772 3314		9.866 0350		0.133 9650	9.906 2964		**.700**	
		103		159			56		
301	9.772 3417		9.866 0509		0.133 9491	9.906 2908		699	
302	9.772 3520	103	9.866 0668	159	0.133 9332	9.906 2853	55	698	
303	9.772 3623	103	9.866 0826	158	0.133 9174	9.906 2797	56	697	
		103		159			56		
304	9.772 3726		9.866 0985		0.133 9015	9.906 2741		696	
305	9.772 3830	104	9.866 1144	159	0.133 8856	9.906 2686	55	695	
306	9.772 3933	103	9.866 1303	159	0.133 8697	9.906 2630	56	694	
		103		159			56		
307	9.772 4036		9.866 1462		0.133 8538	9.906 2574		693	
308	9.772 4139	103	9.866 1621	159	0.133 8379	9.906 2518	56	692	
309	9.772 4242	103	9.866 1780	159	0.133 8220	9.906 2463	55	691	
		103		158			56		
.310	9.772 4345		9.866 1938		0.133 8062	9.906 2407		**.690**	
		104		159			56		
311	9.772 4449		9.866 2097		0.133 7903	9.906 2351		689	
312	9.772 4552	103	9.866 2256	159	0.133 7744	9.906 2296	55	688	
313	9.772 4655	103	9.866 2415	159	0.133 7585	9.906 2240	56	687	
		103		159			56		
314	9.772 4758		9.866 2574		0.133 7426	9.906 2184		686	
315	9.772 4861	103	9.866 2733	159	0.133 7267	9.906 2129	55	685	
316	9.772 4964	103	9.866 2891	158	0.133 7109	9.906 2073	56	684	
		103		159			56		
317	9.772 5067		9.866 3050		0.133 6950	9.906 2017		683	
318	9.772 5171	104	9.866 3209	159	0.133 6791	9.906 1961	56	682	
319	9.772 5274	103	9.866 3368	159	0.133 6632	9.906 1906	55	681	
		103		159			56		
.320	9.772 5377		9.866 3527		0.133 6473	9.906 1850		**.680**	
		103		159			56		
321	9.772 5480		9.866 3686		0.133 6314	9.906 1794		679	
322	9.772 5583	103	9.866 3844	158	0.133 6156	9.906 1739	55	678	
323	9.772 5686	103	9.866 4003	159	0.133 5997	9.906 1683	56	677	
		103		159			56		
324	9.772 5789		9.866 4162		0.133 5838	9.906 1627		676	
325	9.772 5892	103	9.866 4321	159	0.133 5679	9.906 1571	56	675	
326	9.772 5995	103	9.866 4480	159	0.133 5520	9.906 1516	55	674	
		103		159			56		
327	9.772 6098		9.866 4639		0.133 5361	9.906 1460		673	
328	9.772 6202	104	9.866 4797	158	0.133 5203	9.906 1404	56	672	
329	9.772 6305	103	9.866 4956	159	0.133 5044	9.906 1348	56	671	
		103		159			55		
.330	9.772 6408		9.866 5115		0.133 4885	9.906 1293		**.670**	
		103		159			56		
331	9.772 6511		9.866 5274		0.133 4726	9.906 1237		669	
332	9.772 6614	103	9.866 5433	159	0.133 4567	9.906 1181	56	668	
333	9.772 6717	103	9.866 5591	158	0.133 4409	9.906 1125	56	667	
		103		159			55		
334	9.772 6820		9.866 5750		0.133 4250	9.906 1070		666	
335	9.772 6923	103	9.866 5909	159	0.133 4091	9.906 1014	56	665	
336	9.772 7026	103	9.866 6068	159	0.133 3932	9.906 0958	56	664	
		103		159			56		
337	9.772 7129		9.866 6227		0.133 3773	9.906 0902		663	
338	9.772 7232	103	9.866 6385	158	0.133 3615	9.906 0847	55	662	
339	9.772 7335	103	9.866 6544	159	0.133 3456	9.906 0791	56	661	
		103		159			56		
.340	9.772 7438		9.866 6703		0.133 3297	9.906 0735		**.660**	
		103		159			56		
341	9.772 7541		9.866 6862		0.133 3138	9.906 0679		659	
342	9.772 7644	103	9.866 7021	159	0.133 2979	9.906 0624	55	658	
343	9.772 7747	103	9.866 7179	158	0.133 2821	9.906 0568	56	657	
		103		159			56		
344	9.772 7850		9.866 7338		0.133 2662	9.906 0512		656	
345	9.772 7953	103	9.866 7497	159	0.133 2503	9.906 0456	56	655	
346	9.772 8056	103	9.866 7656	159	0.133 2344	9.906 0401	55	654	
		103		159			56		
347	9.772 8159		9.866 7815		0.133 2185	9.906 0345		653	
348	9.772 8262	103	9.866 7973	158	0.133 2027	9.906 0289	56	652	
349	9.772 8365	103	9.866 8132	159	0.133 1868	9.906 0233	56	651	
		103		159			56		
.350	9.772 8468		9.866 8291		0.133 1709	9.906 0177		**.650**	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	104
1	10.4
2	20.8
3	31.2
4	41.6
5	52.0
6	62.4
7	72.8
8	83.2
9	93.6

	103
1	10.3
2	20.6
3	30.9
4	41.2
5	51.5
6	61.8
7	72.1
8	82.4
9	92.7

	56	55
1	5.6	5.5
2	11.2	11.0
3	16.8	16.5
4	22.4	22.0
5	28.0	27.5
6	33.6	33.0
7	39.2	38.5
8	44.8	44.0
9	50.4	49.5

$53^\circ.700 - 53^\circ.650$

$36^\circ.350 - 36^\circ.400$

36°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.772 8468		9.866 8291		0.133 1709	9.906 0177		.650	
		103		159			55		
351	9.772 8571		9.866 8450		0.133 1550	9.906 0122		649	
352	9.772 8674	103	9.866 8609	159	0.133 1391	9.906 0066	56	648	
353	9.772 8777	103	9.866 8767	158	0.133 1233	9.906 0010	56	647	
		103		159			56		
354	9.772 8880		9.866 8926		0.133 1074	9.905 9954		646	
355	9.772 8983	103	9.866 9085	159	0.133 0915	9.905 9899	55	645	
356	9.772 9086	103	9.866 9244	159	0.133 0756	9.905 9843	56	644	
		103		158			56		
357	9.772 9189		9.866 9402		0.133 0598	9.905 9787		643	
358	9.772 9292	103	9.866 9561	159	0.133 0439	9.905 9731	56	642	
359	9.772 9395	103	9.866 9720	159	0.133 0280	9.905 9675	56	641	
		103		159			55		
.360	9.772 9498		9.866 9879		0.133 0121	9.905 9620		.640	
		103		158			56		
361	9.772 9601		9.867 0037		0.132 9963	9.905 9564		639	
362	9.772 9704	103	9.867 0196	159	0.132 9804	9.905 9508	56	638	
363	9.772 9807	103	9.867 0355	159	0.132 9645	9.905 9452	56	637	
		103		159			56		
364	9.772 9910		9.867 0514		0.132 9486	9.905 9396		636	
365	9.773 0013	103	9.867 0672	158	0.132 9328	9.905 9340	56	635	
366	9.773 0116	103	9.867 0831	159	0.132 9169	9.905 9285	55	634	
		103		159			56		
367	9.773 0219		9.867 0990		0.132 9010	9.905 9229		633	
368	9.773 0322	103	9.867 1149	159	0.132 8851	9.905 9173	56	632	
369	9.773 0425	103	9.867 1307	158	0.132 8693	9.905 9117	56	631	
		103		159			56		
.370	9.773 0528		9.867 1466		0.132 8534	9.905 9061		.630	
		103		159			55		
371	9.773 0631		9.867 1625		0.132 8375	9.905 9006		629	
372	9.773 0733	102	9.867 1784	159	0.132 8216	9.905 8950	56	628	
373	9.773 0836	103	9.867 1942	158	0.132 8058	9.905 8894	56	627	
		103		159			56		
374	9.773 0939		9.867 2101		0.132 7899	9.905 8838		626	
375	9.773 1042	103	9.867 2260	159	0.132 7740	9.905 8782	56	625	
376	9.773 1145	103	9.867 2419	159	0.132 7581	9.905 8726	56	624	
		103		158			55		
377	9.773 1248		9.867 2577		0.132 7423	9.905 8671		623	
378	9.773 1351	103	9.867 2736	159	0.132 7264	9.905 8615	56	622	
379	9.773 1454	103	9.867 2895	159	0.132 7105	9.905 8559	56	621	
		103		159			56		
.380	9.773 1557		9.867 3054		0.132 6946	9.905 8503		.620	
		103		158			56		
381	9.773 1660		9.867 3212		0.132 6788	9.905 8447		619	
382	9.773 1762	102	9.867 3371	159	0.132 6629	9.905 8391	56	618	
383	9.773 1865	103	9.867 3530	159	0.132 6470	9.905 8336	56	617	
		103		159			55		
384	9.773 1968		9.867 3689		0.132 6311	9.905 8280		616	
385	9.773 2071	103	9.867 3847	158	0.132 6153	9.905 8224	56	615	
386	9.773 2174	103	9.867 4006	159	0.132 5994	9.905 8168	56	614	
		103		159			56		
387	9.773 2277		9.867 4165		0.132 5835	9.905 8112		613	
388	9.773 2380	103	9.867 4323	158	0.132 5677	9.905 8056	56	612	
389	9.773 2482	102	9.867 4482	159	0.132 5518	9.905 8000	56	611	
		103		159			55		
.390	9.773 2585		9.867 4641		0.132 5359	9.905 7945		.610	
		103		159			56		
391	9.773 2688		9.867 4800		0.132 5200	9.905 7889		609	
392	9.773 2791	103	9.867 4958	158	0.132 5042	9.905 7833	56	608	
393	9.773 2894	103	9.867 5117	159	0.132 4883	9.905 7777	56	607	
		103		159			56		
394	9.773 2997		9.867 5276		0.132 4724	9.905 7721		606	
395	9.773 3100	103	9.867 5434	158	0.132 4566	9.905 7665	56	605	
396	9.773 3202	102	9.867 5593	159	0.132 4407	9.905 7609	56	604	
		103		159			56		
397	9.773 3305		9.867 5752		0.132 4248	9.905 7553		603	
398	9.773 3408	103	9.867 5910	158	0.132 4090	9.905 7498	55	602	
399	9.773 3511	103	9.867 6069	159	0.132 3931	9.905 7442	56	601	
		103		159			56		
.400	9.773 3614		9.867 6228		0.132 3772	9.905 7386		.600	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	103
1	10.3
2	20.6
3	30.9
4	41.2
5	51.5
6	61.8
7	72.1
8	82.4
9	92.7

	102
1	10.2
2	20.4
3	30.6
4	40.8
5	51.0
6	61.2
7	71.4
8	81.6
9	91.8

	56	55
1	5.6	5.5
2	11.2	11.0
3	16.8	16.5
4	22.4	22.0
5	28.0	27.5
6	33.6	33.0
7	39.2	38.5
8	44.8	44.0
9	50.4	49.5

$53^\circ.650 - 53^\circ.600$

36°.400 — 36°.450

36°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.773 3614		9.867 6228		0.132 3772	9.905 7386		.600	
		102		159			56		
401	9.773 3716		9.867 6387		0.132 3613	9.905 7330		599	
402	9.773 3819	103	9.867 6545	158	0.132 3455	9.905 7274	56	598	
403	9.773 3922	103	9.867 6704	159	0.132 3296	9.905 7218	56	597	
		103		159			56		
404	9.773 4025		9.867 6863		0.132 3137	9.905 7162		596	
405	9.773 4128	103	9.867 7021	158	0.132 2979	9.905 7106	56	595	
406	9.773 4230	102	9.867 7180	159	0.132 2820	9.905 7050	56	594	
		103		159			55		
407	9.773 4333		9.867 7339		0.132 2661	9.905 6995		593	
408	9.773 4436	103	9.867 7497	158	0.132 2503	9.905 6939	56	592	
409	9.773 4539	103	9.867 7656	159	0.132 2344	9.905 6883	56	591	
		103		159			56		
.410	9.773 4642		9.867 7815		0.132 2185	9.905 6827		.590	
		102		158			56		
411	9.773 4744		9.867 7973		0.132 2027	9.905 6771		589	
412	9.773 4847	103	9.867 8132	159	0.132 1868	9.905 6715	56	588	
413	9.773 4950	103	9.867 8291	159	0.132 1709	9.905 6659	56	587	
		103		158			56		
414	9.773 5053		9.867 8449		0.132 1551	9.905 6603		586	
415	9.773 5155	102	9.867 8608	159	0.132 1392	9.905 6547	56	585	
416	9.773 5258	103	9.867 8767	159	0.132 1233	9.905 6491	56	584	
		103		158			56		
417	9.773 5361		9.867 8925		0.132 1075	9.905 6435		583	
418	9.773 5464	103	9.867 9084	159	0.132 0916	9.905 6380	55	582	
419	9.773 5566	102	9.867 9243	159	0.132 0757	9.905 6324	56	581	
		103		158			56		
.420	9.773 5669		9.867 9401		0.132 0599	9.905 6268		.580	
		103		159			56		
421	9.773 5772		9.867 9560		0.132 0440	9.905 6212		579	
422	9.773 5875	103	9.867 9719	159	0.132 0281	9.905 6156	56	578	
423	9.773 5977	102	9.867 9877	158	0.132 0123	9.905 6100	56	577	
		103		159			56		
424	9.773 6080		9.868 0036		0.131 9964	9.905 6044		576	
425	9.773 6183	103	9.868 0195	159	0.131 9805	9.905 5988	56	575	
426	9.773 6285	102	9.868 0353	158	0.131 9647	9.905 5932	56	574	
		103		159			56		
427	9.773 6388		9.868 0512		0.131 9488	9.905 5876		573	
428	9.773 6491	103	9.868 0671	159	0.131 9329	9.905 5820	56	572	
429	9.773 6594	103	9.868 0829	158	0.131 9171	9.905 5764	56	571	
		102		159			56		
.430	9.773 6696		9.868 0988		0.131 9012	9.905 5708		.570	
		103		159			56		
431	9.773 6799		9.868 1147		0.131 8853	9.905 5652		569	
432	9.773 6902	103	9.868 1305	158	0.131 8695	9.905 5596	56	568	
433	9.773 7004	102	9.868 1464	159	0.131 8536	9.905 5541	55	567	
		103		158			56		
434	9.773 7107		9.868 1622		0.131 8378	9.905 5485		566	
435	9.773 7210	103	9.868 1781	159	0.131 8219	9.905 5429	56	565	
436	9.773 7312	102	9.868 1940	159	0.131 8060	9.905 5373	56	564	
		103		158			56		
437	9.773 7415		9.868 2098		0.131 7902	9.905 5317		563	
438	9.773 7518	103	9.868 2257	159	0.131 7743	9.905 5261	56	562	
439	9.773 7620	102	9.868 2416	159	0.131 7584	9.905 5205	56	561	
		103		158			56		
.440	9.773 7723		9.868 2574		0.131 7426	9.905 5149		.560	
		103		159			56		
441	9.773 7826		9.868 2733		0.131 7267	9.905 5093		559	
442	9.773 7928	102	9.868 2891	158	0.131 7109	9.905 5037	56	558	
443	9.773 8031	103	9.868 3050	159	0.131 6950	9.905 4981	56	557	
		103		159			56		
444	9.773 8134		9.868 3209		0.131 6791	9.905 4925		556	
445	9.773 8236	102	9.868 3367	158	0.131 6633	9.905 4869	56	555	
446	9.773 8339	103	9.868 3526	159	0.131 6474	9.905 4813	56	554	
		103		159			56		
447	9.773 8442		9.868 3685		0.131 6315	9.905 4757		553	
448	9.773 8544	102	9.868 3843	158	0.131 6157	9.905 4701	56	552	
449	9.773 8647	103	9.868 4002	159	0.131 5998	9.905 4645	56	551	
		102		158			56		
.450	9.773 8749		9.868 4160		0.131 5840	9.905 4589		.550	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	103
1	10.3
2	20.6
3	30.9
4	41.2
5	51.5
6	61.8
7	72.1
8	82.4
9	92.7

	102
1	10.2
2	20.4
3	30.6
4	40.8
5	51.0
6	61.2
7	71.4
8	81.6
9	91.8

	56	55
1	5.6	5.5
2	11.2	11.0
3	16.8	16.5
4	22.4	22.0
5	28.0	27.5
6	33.6	33.0
7	39.2	38.5
8	44.8	44.0
9	50.4	49.5

53°.600 — 53°.550

36°.450 — 36°.500

36°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9·773 8749		9.868 4160		0.131 5840	9.905 4589		·550	
		103		159			56		
451	9·773 8852		9.868 4319		0.131 5681	9.905 4533		549	
452	9·773 8955	103	9.868 4478	159	0.131 5522	9.905 4477	56	548	
453	9·773 9057	102	9.868 4636	158	0.131 5364	9.905 4421	56	547	
		103		159			56		
454	9·773 9160		9.868 4795		0.131 5205	9.905 4365		546	
455	9·773 9263	103	9.868 4953	158	0.131 5047	9.905 4309	56	545	
456	9·773 9365	102	9.868 5112	159	0.131 4888	9.905 4253	56	544	
		103		159			56		
457	9·773 9468		9.868 5271		0.131 4729	9.905 4197		543	
458	9·773 9570	102	9.868 5429	158	0.131 4571	9.905 4141	56	542	
459	9·773 9673	103	9.868 5588	159	0.131 4412	9.905 4085	56	541	
		103		158			56		
·460	9·773 9776		9.868 5746		0.131 4254	9.905 4029		·540	
		102		159			56		
461	9·773 9878		9.868 5905		0.131 4095	9.905 3973		539	
462	9·773 9981	103	9.868 6064	159	0.131 3936	9.905 3917	56	538	
463	9·774 0083	102	9.868 6222	158	0.131 3778	9.905 3861	56	537	
		103		159			56		
464	9·774 0186		9.868 6381		0.131 3619	9.905 3805		536	
465	9·774 0288	102	9.868 6539	158	0.131 3461	9.905 3749	56	535	
466	9·774 0391	103	9.868 6698	159	0.131 3302	9.905 3693	56	534	
		103		159			56		
467	9·774 0494		9.868 6857		0.131 3143	9.905 3637		533	
468	9·774 0596	102	9.868 7015	158	0.131 2985	9.905 3581	56	532	
469	9·774 0699	103	9.868 7174	159	0.131 2826	9.905 3525	56	531	
		102		158			56		
·470	9·774 0801		9.868 7332		0.131 2668	9.905 3469		·530	
		103		159			56		
471	9·774 0904		9.868 7491		0.131 2509	9.905 3413		529	
472	9·774 1006	102	9.868 7649	158	0.131 2351	9.905 3357	56	528	
473	9·774 1109	103	9.868 7808	159	0.131 2192	9.905 3301	56	527	
		102		159			56		
474	9·774 1211		9.868 7967		0.131 2033	9.905 3245		526	
475	9·774 1314	103	9.868 8125	158	0.131 1875	9.905 3189	56	525	
476	9·774 1416	102	9.868 8284	159	0.131 1716	9.905 3133	56	524	
		103		158			56		
477	9·774 1519		9.868 8442		0.131 1558	9.905 3077		523	
478	9·774 1621	102	9.868 8601	159	0.131 1399	9.905 3021	56	522	
479	9·774 1724	103	9.868 8759	158	0.131 1241	9.905 2965	56	521	
		103		159			56		
·480	9·774 1827		9.868 8918		0.131 1082	9.905 2909		·520	
		102		158			56		
481	9·774 1929		9.868 9076		0.131 0924	9.905 2853	57	519	
482	9·774 2032	103	9.868 9235	159	0.131 0765	9.905 2796	56	518	
483	9·774 2134	102	9.868 9394	159	0.131 0606	9.905 2740	56	517	
		103		158			56		
484	9·774 2237		9.868 9552		0.131 0448	9.905 2684		516	
485	9·774 2339	102	9.868 9711	159	0.131 0289	9.905 2628	56	515	
486	9·774 2442	103	9.868 9869	158	0.131 0131	9.905 2572	56	514	
		102		159			56		
487	9·774 2544		9.869 0028		0.130 9972	9.905 2516		513	
488	9·774 2646	102	9.869 0186	158	0.130 9814	9.905 2460	56	512	
489	9·774 2749	103	9.869 0345	159	0.130 9655	9.905 2404	56	511	
		102		158			56		
·490	9·774 2851		9.869 0503		0.130 9497	9.905 2348		·510	
		103		159			56		
491	9·774 2954		9.869 0662		0.130 9338	9.905 2292		509	
492	9·774 3056	102	9.869 0820	158	0.130 9180	9.905 2236	56	508	
493	9·774 3159	103	9.869 0979	159	0.130 9021	9.905 2180	56	507	
		102		159			56		
494	9·774 3261		9.869 1138		0.130 8862	9.905 2124		506	
495	9·774 3364	103	9.869 1296	158	0.130 8704	9.905 2068	56	505	
496	9·774 3466	102	9.869 1455	159	0.130 8545	9.905 2012	56	504	
		103		158			57		
497	9·774 3569		9.869 1613		0.130 8387	9.905 1955		503	
498	9·774 3671	102	9.869 1772	159	0.130 8228	9.905 1899	56	502	
499	9·774 3774	103	9.869 1930	158	0.130 8070	9.905 1843	56	501	
		102		159			56		
·500	9·774 3876		9.869 2089		0.130 7911	9.905 1787		·500	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	103
1	10.3
2	20.6
3	30.9
4	41.2
5	51.5
6	61.8
7	72.1
8	82.4
9	92.7

	102
1	10.2
2	20.4
3	30.6
4	40.8
5	51.0
6	61.2
7	71.4
8	81.6
9	91.8

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

53°.550 — 53°.500

$36^\circ.500 - 36^\circ.550$

36°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.774 3876	102	9.869 2089	158	0.130 7911	9.905 1787	56	**.500**	
501	9.774 3978	103	9.869 2247	159	0.130 7753	9.905 1731	56	499	159
502	9.774 4081	102	9.869 2406	158	0.130 7594	9.905 1675	56	498	1 15.9
503	9.774 4183	103	9.869 2564	159	0.130 7436	9.905 1619	56	497	2 31.8
504	9.774 4286	102	9.869 2723	158	0.130 7277	9.905 1563	56	496	3 47.7
505	9.774 4388	103	9.869 2881	159	0.130 7119	9.905 1507	56	495	4 63.6
506	9.774 4491	102	9.869 3040	158	0.130 6960	9.905 1451	56	494	5 79.5
507	9.774 4593	102	9.869 3198	159	0.130 6802	9.905 1395	57	493	6 95.4
508	9.774 4695	103	9.869 3357	158	0.130 6643	9.905 1338	56	492	7 111.3
509	9.774 4798	102	9.869 3515	159	0.130 6485	9.905 1282	56	491	8 127.2
.510	9.774 4900	103	9.869 3674	158	0.130 6326	9.905 1226	56	**.490**	9 143.1
511	9.774 5003	102	9.869 3832	159	0.130 6168	9.905 1170	56	489	
512	9.774 5105	102	9.869 3991	158	0.130 6009	9.905 1114	56	488	158
513	9.774 5207	103	9.869 4149	159	0.130 5851	9.905 1058	56	487	1 15.8
514	9.774 5310	102	9.869 4308	158	0.130 5692	9.905 1002	56	486	2 31.6
515	9.774 5412	102	9.869 4466	159	0.130 5534	9.905 0946	56	485	3 47.4
516	9.774 5514	103	9.869 4625	158	0.130 5375	9.905 0890	57	484	4 63.2
517	9.774 5617	102	9.869 4783	159	0.130 5217	9.905 0833	56	483	5 79.0
518	9.774 5719	103	9.869 4942	158	0.130 5058	9.905 0777	56	482	6 94.8
519	9.774 5822	102	9.869 5100	159	0.130 4900	9.905 0721	56	481	7 110.6
.520	9.774 5924	102	9.869 5259	158	0.130 4741	9.905 0665	56	**.480**	8 126.4
521	9.774 6026	103	9.869 5417	159	0.130 4583	9.905 0609	56	479	9 142.2
522	9.774 6129	102	9.869 5576	158	0.130 4424	9.905 0553	56	478	
523	9.774 6231	102	9.869 5734	159	0.130 4266	9.905 0497	56	477	103
524	9.774 6333	103	9.869 5893	158	0.130 4107	9.905 0441	57	476	1 10.3
525	9.774 6436	102	9.869 6051	159	0.130 3949	9.905 0384	56	475	2 20.6
526	9.774 6538	102	9.869 6210	158	0.130 3790	9.905 0328	56	474	3 30.9
527	9.774 6640	103	9.869 6368	159	0.130 3632	9.905 0272	56	473	4 41.2
528	9.774 6743	102	9.869 6527	158	0.130 3473	9.905 0216	56	472	5 51.5
529	9.774 6845	102	9.869 6685	159	0.130 3315	9.905 0160	56	471	6 61.8
.530	9.774 6947	103	9.869 6844	158	0.130 3156	9.905 0104	56	**.470**	7 72.1
531	9.774 7050	102	9.869 7002	159	0.130 2998	9.905 0048	57	469	8 82.4
532	9.774 7152	102	9.869 7161	158	0.130 2839	9.904 9991	56	468	9 92.7
533	9.774 7254	103	9.869 7319	159	0.130 2681	9.904 9935	56	467	
534	9.774 7357	102	9.869 7478	158	0.130 2522	9.904 9879	56	466	102
535	9.774 7459	102	9.869 7636	159	0.130 2364	9.904 9823	56	465	1 10.2
536	9.774 7561	103	9.869 7795	158	0.130 2205	9.904 9767	56	464	2 20.4
537	9.774 7664	102	9.869 7953	158	0.130 2047	9.904 9711	57	463	3 30.6
538	9.774 7766	102	9.869 8111	159	0.130 1889	9.904 9654	56	462	4 40.8
539	9.774 7868	102	9.869 8270	158	0.130 1730	9.904 9598	56	461	5 51.0
.540	9.774 7970	103	9.869 8428	159	0.130 1572	9.904 9542	56	**.460**	6 61.2
541	9.774 8073	102	9.869 8587	158	0.130 1413	9.904 9486	56	459	7 71.4
542	9.774 8175	102	9.869 8745	159	0.130 1255	9.904 9430	56	458	8 81.6
543	9.774 8277	103	9.869 8904	158	0.130 1096	9.904 9374	57	457	9 91.8
544	9.774 8380	102	9.869 9062	159	0.130 0938	9.904 9317	56	456	
545	9.774 8482	102	9.869 9221	158	0.130 0779	9.904 9261	56	455	57 56
546	9.774 8584	102	9.869 9379	159	0.130 0621	9.904 9205	56	454	1 5.7 5.6
547	9.774 8686	103	9.869 9538	158	0.130 0462	9.904 9149	56	453	2 11.4 11.2
548	9.774 8789	102	9.869 9696	158	0.130 0304	9.904 9093	57	452	3 17.1 16.8
549	9.774 8891	102	9.869 9854	159	0.130 0146	9.904 9036	56	451	4 22.8 22.4
.550	9.774 8993		9.870 0013		0.129 9987	9.904 8980		**.450**	5 28.5 28.0
	cos	d	cotg	d	tang	sin	d	53°	6 34.2 33.6
									7 39.9 39.2
									8 45.6 44.8
									9 51.3 50.4
									P.P.

$53^\circ.500 - 53^\circ.450$

36°.550 — 36°.600

36°	sin	d	tang	d	cotg	cos	d		P.P.
·550	9.774 8993		9.870 0013		0.129 9987	9.904 8980		·450	
		102		158			56		
551	9.774 9095		9.870 0171		0.129 9829	9.904 8924		449	
552	9.774 9198	103	9.870 0330	159	0.129 9670	9.904 8868	56	448	
553	9.774 9300	102	9.870 0488	158	0.129 9512	9.904 8812	56	447	
		102		159			57		
554	9.774 9402		9.870 0647		0.129 9353	9.904 8755		446	
555	9.774 9504	102	9.870 0805	158	0.129 9195	9.904 8699	56	445	
556	9.774 9607	103	9.870 0963	158	0.129 9037	9.904 8643	56	444	
		102		159			56		
557	9.774 9709		9.870 1122		0.129 8878	9.904 8587		443	
558	9.774 9811	102	9.870 1280	158	0.129 8720	9.904 8531	56	442	
559	9.774 9913	102	9.870 1439	159	0.129 8561	9.904 8474	57	441	
		102		158			56		
·560	9.775 0015		9.870 1597		0.129 8403	9.904 8418		·440	
		103		159			56		
561	9.775 0118		9.870 1756		0.129 8244	9.904 8362		439	
562	9.775 0220	102	9.870 1914	158	0.129 8086	9.904 8306	56	438	
563	9.775 0322	102	9.870 2072	158	0.129 7928	9.904 8250	56	437	
		102		159			57		
564	9.775 0424		9.870 2231		0.129 7769	9.904 8193		436	
565	9.775 0526	102	9.870 2389	158	0.129 7611	9.904 8137	56	435	
566	9.775 0629	103	9.870 2548	159	0.129 7452	9.904 8081	56	434	
		102		158			56		
567	9.775 0731		9.870 2706		0.129 7294	9.904 8025		433	
568	9.775 0833	102	9.870 2864	158	0.129 7136	9.904 7969	56	432	
569	9.775 0935	102	9.870 3023	159	0.129 6977	9.904 7912	57	431	
		102		158			56		
·570	9.775 1037		9.870 3181		0.129 6819	9.904 7856		·430	
		103		159			56		
571	9.775 1140		9.870 3340		0.129 6660	9.904 7800		429	
572	9.775 1242	102	9.870 3498	158	0.129 6502	9.904 7744	56	428	
573	9.775 1344	102	9.870 3657	159	0.129 6343	9.904 7687	57	427	
		102		158			56		
574	9.775 1446		9.870 3815		0.129 6185	9.904 7631		426	
575	9.775 1548	102	9.870 3973	158	0.129 6027	9.904 7575	56	425	
576	9.775 1650	102	9.870 4132	159	0.129 5868	9.904 7519	56	424	
		102		158			57		
577	9.775 1752		9.870 4290		0.129 5710	9.904 7462		423	
578	9.775 1855	103	9.870 4449	159	0.129 5551	9.904 7406	56	422	
579	9.775 1957	102	9.870 4607	158	0.129 5393	9.904 7350	56	421	
		102		158			56		
·580	9.775 2059		9.870 4765		0.129 5235	9.904 7294		·420	
		102		159			57		
581	9.775 2161		9.870 4924		0.129 5076	9.904 7237		419	
582	9.775 2263	102	9.870 5082	158	0.129 4918	9.904 7181	56	418	
583	9.775 2365	102	9.870 5240	158	0.129 4760	9.904 7125	56	417	
		102		159			56		
584	9.775 2467		9.870 5399		0.129 4601	9.904 7069		416	
585	9.775 2570	103	9.870 5557	158	0.129 4443	9.904 7012	57	415	
586	9.775 2672	102	9.870 5716	159	0.129 4284	9.904 6956	56	414	
		102		158			56		
587	9.775 2774		9.870 5874		0.129 4126	9.904 6900		413	
588	9.775 2876	102	9.870 6032	158	0.129 3968	9.904 6844	56	412	
589	9.775 2978	102	9.870 6191	159	0.129 3809	9.904 6787	57	411	
		102		158			56		
·590	9.775 3080		9.870 6349		0.129 3651	9.904 6731		·410	
		102		158			56		
591	9.775 3182		9.870 6507		0.129 3493	9.904 6675		409	
592	9.775 3284	102	9.870 6666	159	0.129 3334	9.904 6618	57	408	
593	9.775 3386	102	9.870 6824	158	0.129 3176	9.904 6562	56	407	
		102		159			56		
594	9.775 3488		9.870 6983		0.129 3017	9.904 6506		406	
595	9.775 3591	103	9.870 7141	158	0.129 2859	9.904 6450	56	405	
596	9.775 3693	102	9.870 7299	158	0.129 2701	9.904 6393	57	404	
		102		159			56		
597	9.775 3795		9.870 7458		0.129 2542	9.904 6337		403	
598	9.775 3897	102	9.870 7616	158	0.129 2384	9.904 6281	56	402	
599	9.775 3999	102	9.870 7774	158	0.129 2226	9.904 6224	57	401	
		102		159			56		
.600	9.775 4101		9.870 7933		0.129 2067	9.904 6168		·400	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	103
1	10.3
2	20.6
3	30.9
4	41.2
5	51.5
6	61.8
7	72.1
8	82.4
9	92.7

	102
1	10.2
2	20.4
3	30.6
4	40.8
5	51.0
6	61.2
7	71.4
8	81.6
9	91.8

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

53°.450 — 53°.400

36°.600 — 36°.650

36°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.775 4101		9.870 7933		0.129 2067	9.904 6168		**.400**	
		102		158			56		
601	9.775 4203		9.870 8091		0.129 1909	9.904 6112		399	
602	9.775 4305	102	9.870 8249	158	0.129 1751	9.904 6056	56	398	
603	9.775 4407	102	9.870 8408	159	0.129 1592	9.904 5999	57	397	
		102		158			56		
604	9.775 4509		9.870 8566		0.129 1434	9.904 5943		396	
605	9.775 4611	102	9.870 8724	158	0.129 1276	9.904 5887	56	395	
606	9.775 4713	102	9.870 8883	159	0.129 1117	9.904 5830	57	394	
		102		158			56		
607	9.775 4815		9.870 9041		0.129 0959	9.904 5774		393	
608	9.775 4917	102	9.870 9200	159	0.129 0800	9.904 5718	56	392	
609	9.775 5019	102	9.870 9358	158	0.129 0642	9.904 5661	57	391	
		102		158			56		
.610	9.775 5121		9.870 9516		0.129 0484	9.904 5605		**.390**	
		102		159			56		
611	9.775 5223		9.870 9675		0.129 0325	9.904 5549		389	
612	9.775 5325	102	9.870 9833	158	0.129 0167	9.904 5493	56	388	
613	9.775 5427	102	9.870 9991	158	0.129 0009	9.904 5436	57	387	
		102		159			56		
614	9.775 5529		9.871 0150		0.128 9850	9.904 5380		386	
615	9.775 5631	102	9.871 0308	158	0.128 9692	9.904 5324	56	385	
616	9.775 5733	102	9.871 0466	158	0.128 9534	9.904 5267	57	384	
		102		159			56		
617	9.775 5835		9.871 0625		0.128 9375	9.904 5211		383	
618	9.775 5937	102	9.871 0783	158	0.128 9217	9.904 5155	56	382	
619	9.775 6039	102	9.871 0941	158	0.128 9059	9.904 5098	57	381	
		102		159			56		
.620	9.775 6141		9.871 1100		0.128 8900	9.904 5042		**.380**	
		102		158			56		
621	9.775 6243		9.871 1258		0.128 8742	9.904 4986		379	
622	9.775 6345	102	9.871 1416	158	0.128 8584	9.904 4929	57	378	
623	9.775 6447	102	9.871 1574	158	0.128 8426	9.904 4873	56	377	
		102		159			56		
624	9.775 6549		9.871 1733		0.128 8267	9.904 4817		376	
625	9.775 6651	102	9.871 1891	158	0.128 8109	9.904 4760	57	375	
626	9.775 6753	102	9.871 2049	158	0.128 7951	9.904 4704	56	374	
		102		159			56		
627	9.775 6855		9.871 2208		0.128 7792	9.904 4648		373	
628	9.775 6957	102	9.871 2366	158	0.128 7634	9.904 4591	57	372	
629	9.775 7059	102	9.871 2524	158	0.128 7476	9.904 4535	56	371	
		102		159			57		
.630	9.775 7161		9.871 2683		0.128 7317	9.904 4478		**.370**	
		102		158			56		
631	9.775 7263		9.871 2841		0.128 7159	9.904 4422		369	
632	9.775 7365	102	9.871 2999	158	0.128 7001	9.904 4366	56	368	
633	9.775 7467	102	9.871 3158	159	0.128 6842	9.904 4309	57	367	
		102		158			56		
634	9.775 7569		9.871 3316		0.128 6684	9.904 4253		366	
635	9.775 7671	102	9.871 3474	158	0.128 6526	9.904 4197	56	365	
636	9.775 7773	102	9.871 3632	158	0.128 6368	9.904 4140	57	364	
		102		159			56		
637	9.775 7875		9.871 3791		0.128 6209	9.904 4084		363	
638	9.775 7977	102	9.871 3949	158	0.128 6051	9.904 4028	56	362	
639	9.775 8079	102	9.871 4107	158	0.128 5893	9.904 3971	57	361	
		101		159			56		
.640	9.775 8180		9.871 4266		0.128 5734	9.904 3915		**.360**	
		102		158			57		
641	9.775 8282		9.871 4424		0.128 5576	9.904 3858		359	
642	9.775 8384	102	9.871 4582	158	0.128 5418	9.904 3802	56	358	
643	9.775 8486	102	9.871 4741	159	0.128 5259	9.904 3746	56	357	
		102		158			57		
644	9.775 8588		9.871 4899		0.128 5101	9.904 3689		356	
645	9.775 8690	102	9.871 5057	158	0.128 4943	9.904 3633	56	355	
646	9.775 8792	102	9.871 5215	158	0.128 4785	9.904 3577	56	354	
		102		159			57		
647	9.775 8894		9.871 5374		0.128 4626	9.904 3520		353	
648	9.775 8996	102	9.871 5532	158	0.128 4468	9.904 3464	56	352	
649	9.775 9098	102	9.871 5690	158	0.128 4310	9.904 3407	57	351	
		101		158			56		
.650	9.775 9199		9.871 5848		0.128 4152	9.904 3351		**.350**	
	cos	d	cotg	d	tang	sin	d	**53°**	P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	102
1	10.2
2	20.4
3	30.6
4	40.8
5	51.0
6	61.2
7	71.4
8	81.6
9	91.8

	101
1	10.1
2	20.2
3	30.3
4	40.4
5	50.5
6	60.6
7	70.7
8	80.8
9	90.9

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

53°.400 — 53°.350

36°.650 — 36°.700

36°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.775 9199		9.871 5848		0.128 4152	9.904 3351		.350	
		102		159			56		
651	9.775 9301		9.871 6007		0.128 3993	9.904 3295		349	
652	9.775 9403	102	9.871 6165	158	0.128 3835	9.904 3238	57	348	
653	9.775 9505	102	9.871 6323	158	0.128 3677	9.904 3182	56	347	
		102		159			57		
654	9.775 9607		9.871 6482		0.128 3518	9.904 3125		346	
655	9.775 9709	102	9.871 6640	158	0.128 3360	9.904 3069	56	345	
656	9.775 9811	102	9.871 6798	158	0.128 3202	9.904 3013	56	344	
		101		158			57		
657	9.775 9912		9.871 6956		0.128 3044	9.904 2956		343	
658	9.776 0014	102	9.871 7115	159	0.128 2885	9.904 2900	56	342	
659	9.776 0116	102	9.871 7273	158	0.128 2727	9.904 2843	57	341	
		102		158			56		
.660	9.776 0218		9.871 7431		0.128 2569	9.904 2787		.340	
		102		158			57		
661	9.776 0320		9.871 7589		0.128 2411	9.904 2730		339	
662	9.776 0422	102	9.871 7748	159	0.128 2252	9.904 2674	56	338	
663	9.776 0524	102	9.871 7906	158	0.128 2094	9.904 2618	56	337	
		101		158			57		
664	9.776 0625		9.871 8064		0.128 1936	9.904 2561		336	
665	9.776 0727	102	9.871 8222	158	0.128 1778	9.904 2505	56	335	
666	9.776 0829	102	9.871 8381	159	0.128 1619	9.904 2448	57	334	
		102		158			56		
667	9.776 0931		9.871 8539		0.128 1461	9.904 2392		333	
668	9.776 1033	102	9.871 8697	158	0.128 1303	9.904 2335	57	332	
669	9.776 1134	101	9.871 8855	158	0.128 1145	9.904 2279	56	331	
		102		159			56		
.670	9.776 1236		9.871 9014		0.128 0986	9.904 2223		.330	
		102		158			57		
671	9.776 1338		9.871 9172		0.128 0828	9.904 2166		329	
672	9.776 1440	102	9.871 9330	158	0.128 0670	9.904 2110	56	328	
673	9.776 1542	102	9.871 9488	158	0.128 0512	9.904 2053	57	327	
		101		159			56		
674	9.776 1643		9.871 9647		0.128 0353	9.904 1997		326	
675	9.776 1745	102	9.871 9805	158	0.128 0195	9.904 1940	57	325	
676	9.776 1847	102	9.871 9963	158	0.128 0037	9.904 1884	56	324	
		102		158			56		
677	9.776 1949		9.872 0121		0.127 9879	9.904 1828		323	
678	9.776 2051	102	9.872 0279	158	0.127 9721	9.904 1771	57	322	
679	9.776 2152	101	9.872 0438	159	0.127 9562	9.904 1715	56	321	
		102		158			57		
.680	9.776 2254		9.872 0596		0.127 9404	9.904 1658		.320	
		102		158			56		
681	9.776 2356		9.872 0754		0.127 9246	9.904 1602		319	
682	9.776 2458	102	9.872 0912	158	0.127 9088	9.904 1545	57	318	
683	9.776 2559	101	9.872 1071	159	0.127 8929	9.904 1489	56	317	
		102		158			57		
684	9.776 2661		9.872 1229		0.127 8771	9.904 1432		316	
685	9.776 2763	102	9.872 1387	158	0.127 8613	9.904 1376	56	315	
686	9.776 2865	102	9.872 1545	158	0.127 8455	9.904 1319	57	314	
		101		158			56		
687	9.776 2966		9.872 1703		0.127 8297	9.904 1263		313	
688	9.776 3068	102	9.872 1862	159	0.127 8138	9.904 1206	57	312	
689	9.776 3170	102	9.872 2020	158	0.127 7980	9.904 1150	56	311	
		102		158			57		
.690	9.776 3272		9.872 2178		0.127 7822	9.904 1093		.310	
		101		158			56		
691	9.776 3373		9.872 2336		0.127 7664	9.904 1037		309	
692	9.776 3475	102	9.872 2494	158	0.127 7506	9.904 0981	56	308	
693	9.776 3577	102	9.872 2653	159	0.127 7347	9.904 0924	57	307	
		101		158			56		
694	9.776 3678		9.872 2811		0.127 7189	9.904 0868		306	
695	9.776 3780	102	9.872 2969	158	0.127 7031	9.904 0811	57	305	
696	9.776 3882	102	9.872 3127	158	0.127 6873	9.904 0755	56	304	
		102		158			57		
697	9.776 3984		9.872 3285		0.127 6715	9.904 0698		303	
698	9.776 4085	101	9.872 3444	159	0.127 6556	9.904 0642	56	302	
699	9.776 4187	102	9.872 3602	158	0.127 6398	9.904 0585	57	301	
		102		158			56		
.700	9.776 4289		9.872 3760		0.127 6240	9.904 0529		.300	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	102
1	10.2
2	20.4
3	30.6
4	40.8
5	51.0
6	61.2
7	71.4
8	81.6
9	91.8

	101
1	10.1
2	20.2
3	30.3
4	40.4
5	50.5
6	60.6
7	70.7
8	80.8
9	90.9

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

53°.350 — 53°.300

36°.700 — 36°.750

36°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.776 4289		9.872 3760		0.127 6240	9.904 0529		.300	
		101		158			57		
701	9.776 4390		9.872 3918		0.127 6082	9.904 0472		299	
702	9.776 4492	102	9.872 4076	158	0.127 5924	9.904 0416	56	298	
703	9.776 4594	102	9.872 4235	159	0.127 5765	9.904 0359	57	297	
		101		158			56		
704	9.776 4695		9.872 4393		0.127 5607	9.904 0303		296	
705	9.776 4797	102	9.872 4551	158	0.127 5449	9.904 0246	57	295	
706	9.776 4899	102	9.872 4709	158	0.127 5291	9.904 0190	56	294	
		101		158			57		
707	9.776 5000		9.872 4867		0.127 5133	9.904 0133		293	
708	9.776 5102	102	9.872 5026	159	0.127 4974	9.904 0077	56	292	
709	9.776 5204	102	9.872 5184	158	0.127 4816	9.904 0020	57	291	
		101		158			56		
.710	9.776 5305		9.872 5342		0.127 4658	9.903 9964		.290	
		102		158			57		
711	9.776 5407		9.872 5500		0.127 4500	9.903 9907		289	
712	9.776 5509	102	9.872 5658	158	0.127 4342	9.903 9850	57	288	
713	9.776 5610	101	9.872 5816	158	0.127 4184	9.903 9794	56	287	
		102		159			57		
714	9.776 5712		9.872 5975		0.127 4025	9.903 9737		286	
715	9.776 5814	102	9.872 6133	158	0.127 3867	9.903 9681	56	285	
716	9.776 5915	101	9.872 6291	158	0.127 3709	9.903 9624	57	284	
		102		158			56		
717	9.776 6017		9.872 6449		0.127 3551	9.903 9568		283	
718	9.776 6118	101	9.872 6607	158	0.127 3393	9.903 9511	57	282	
719	9.776 6220	102	9.872 6765	158	0.127 3235	9.903 9455	56	281	
		102		159			57		
.720	9.776 6322		9.872 6924		0.127 3076	9.903 9398		.280	
		101		158			56		
721	9.776 6423		9.872 7082		0.127 2918	9.903 9342		279	
722	9.776 6525	102	9.872 7240	158	0.127 2760	9.903 9285	57	278	
723	9.776 6627	102	9.872 7398	158	0.127 2602	9.903 9229	56	277	
		101		158			57		
724	9.776 6728		9.872 7556		0.127 2444	9.903 9172		276	
725	9.776 6830	102	9.872 7714	158	0.127 2286	9.903 9115	57	275	
726	9.776 6931	101	9.872 7872	158	0.127 2128	9.903 9059	56	274	
		102		159			57		
727	9.776 7033		9.872 8031		0.127 1969	9.903 9002		273	
728	9.776 7135	102	9.872 8189	158	0.127 1811	9.903 8946	56	272	
729	9.776 7236	101	9.872 8347	158	0.127 1653	9.903 8889	57	271	
		102		158			56		
.730	9.776 7338		9.872 8505		0.127 1495	9.903 8833		.270	
		101		158			57		
731	9.776 7439		9.872 8663		0.127 1337	9.903 8776		269	
732	9.776 7541	102	9.872 8821	158	0.127 1179	9.903 8720	56	268	
733	9.776 7642	101	9.872 8979	158	0.127 1021	9.903 8663	57	267	
		102		159			57		
734	9.776 7744		9.872 9138		0.127 0862	9.903 8606		266	
735	9.776 7846	102	9.872 9296	158	0.127 0704	9.903 8550	56	265	
736	9.776 7947	101	9.872 9454	158	0.127 0546	9.903 8493	57	264	
		102		158			56		
737	9.776 8049		9.872 9612		0.127 0388	9.903 8437		263	
738	9.776 8150	101	9.872 9770	158	0.127 0230	9.903 8380	57	262	
739	9.776 8252	102	9.872 9928	158	0.127 0072	9.903 8324	56	261	
		101		158			57		
.740	9.776 8353		9.873 0086		0.126 9914	9.903 8267		.260	
		102		158			57		
741	9.776 8455		9.873 0244		0.126 9756	9.903 8210		259	
742	9.776 8556	101	9.873 0403	159	0.126 9597	9.903 8154	56	258	
743	9.776 8658	102	9.873 0561	158	0.126 9439	9.903 8097	57	257	
		101		158			56		
744	9.776 8759		9.873 0719		0.126 9281	9.903 8041		256	
745	9.776 8861	102	9.873 0877	158	0.126 9123	9.903 7984	57	255	
746	9.776 8963	102	9.873 1035	158	0.126 8965	9.903 7927	57	254	
		101		158			56		
747	9.776 9064		9.873 1193		0.126 8807	9.903 7871		253	
748	9.776 9166	102	9.873 1351	158	0.126 8649	9.903 7814	57	252	
749	9.776 9267	101	9.873 1509	158	0.126 8491	9.903 7758	56	251	
		102		159			57		
.750	9.776 9369		9.873 1668		0.126 8332	9.903 7701		.250	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	159
1	15.9
2	31.8
3	47.7
4	63.6
5	79.5
6	95.4
7	111.3
8	127.2
9	143.1

	158
1	15.8
2	31.6
3	47.4
4	63.2
5	79.0
6	94.8
7	110.6
8	126.4
9	142.2

	102
1	10.2
2	20.4
3	30.6
4	40.8
5	51.0
6	61.2
7	71.4
8	81.6
9	91.8

	101
1	10.1
2	20.2
3	30.3
4	40.4
5	50.5
6	60.6
7	70.7
8	80.8
9	90.9

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

53°.300 — 53°.250

36°.750 — 36°.800

36°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.776 9369		9.873 1668		0.126 8332	9.903 7701		.250	
		101		158			57		
751	9.776 9470		9.873 1826		0.126 8174	9.903 7644		249	
752	9.776 9572	102	9.873 1984	158	0.126 8016	9.903 7588	56	248	
753	9.776 9673	101	9.873 2142	158	0.126 7858	9.903 7531	57	247	
		102		158			56		
754	9.776 9775		9.873 2300		0.126 7700	9.903 7475		246	
755	9.776 9876	101	9.873 2458	158	0.126 7542	9.903 7418	57	245	
756	9.776 9978	102	9.873 2616	158	0.126 7384	9.903 7361	57	244	
		101		158			56		
757	9.777 0079		9.873 2774		0.126 7226	9.903 7305		243	
758	9.777 0181	102	9.873 2932	158	0.126 7068	9.903 7248	57	242	
759	9.777 0282	101	9.873 3090	158	0.126 6910	9.903 7192	56	241	
		101		159			57		
.760	9.777 0383		9.873 3249		0.126 6751	9.903 7135		.240	
		102		158			57		
761	9.777 0485		9.873 3407		0.126 6593	9.903 7078		239	
762	9.777 0586	101	9.873 3565	158	0.126 6435	9.903 7022	56	238	
763	9.777 0688	102	9.873 3723	158	0.126 6277	9.903 6965	57	237	
		101		158			57		
764	9.777 0789		9.873 3881		0.126 6119	9.903 6908		236	
765	9.777 0891	102	9.873 4039	158	0.126 5961	9.903 6852	56	235	
766	9.777 0992	101	9.873 4197	158	0.126 5803	9.903 6795	57	234	
		102		158			56		
767	9.777 1094		9.873 4355		0.126 5645	9.903 6739		233	
768	9.777 1195	101	9.873 4513	158	0.126 5487	9.903 6682	57	232	
769	9.777 1297	102	9.873 4671	158	0.126 5329	9.903 6625	57	231	
		101		158			56		
.770	9.777 1398		9.873 4829		0.126 5171	9.903 6569		.230	
		101		158			57		
771	9.777 1499		9.873 4987		0.126 5013	9.903 6512		229	
772	9.777 1601	102	9.873 5145	158	0.126 4855	9.903 6455	57	228	
773	9.777 1702	101	9.873 5304	159	0.126 4696	9.903 6399	56	227	
		102		158			57		
774	9.777 1804		9.873 5462		0.126 4538	9.903 6342		226	
775	9.777 1905	101	9.873 5620	158	0.126 4380	9.903 6285	57	225	
776	9.777 2007	102	9.873 5778	158	0.126 4222	9.903 6229	56	224	
		101		158			57		
777	9.777 2108		9.873 5936		0.126 4064	9.903 6172		223	
778	9.777 2209	101	9.873 6094	158	0.126 3906	9.903 6115	57	222	
779	9.777 2311	102	9.873 6252	158	0.126 3748	9.903 6059	56	221	
		101		158			57		
.780	9.777 2412		9.873 6410		0.126 3590	9.903 6002		.220	
		102		158			57		
781	9.777 2514		9.873 6568		0.126 3432	9.903 5945		219	
782	9.777 2615	101	9.873 6726	158	0.126 3274	9.903 5889	56	218	
783	9.777 2716	101	9.873 6884	158	0.126 3116	9.903 5832	57	217	
		102		158			57		
784	9.777 2818		9.873 7042		0.126 2958	9.903 5775		216	
785	9.777 2919	101	9.873 7200	158	0.126 2800	9.903 5719	56	215	
786	9.777 3020	101	9.873 7358	158	0.126 2642	9.903 5662	57	214	
		102		158			57		
787	9.777 3122		9.873 7516		0.126 2484	9.903 5605		213	
788	9.777 3223	101	9.873 7674	158	0.126 2326	9.903 5549	56	212	
789	9.777 3325	102	9.873 7832	158	0.126 2168	9.903 5492	57	211	
		101		159			57		
.790	9.777 3426		9.873 7991		0.126 2009	9.903 5435		.210	
		101		158			56		
791	9.777 3527		9.873 8149		0.126 1851	9.903 5379		209	
792	9.777 3629	102	9.873 8307	158	0.126 1693	9.903 5322	57	208	
793	9.777 3730	101	9.873 8465	158	0.126 1535	9.903 5265	57	207	
		101		158			56		
794	9.777 3831		9.873 8623		0.126 1377	9.903 5209		206	
795	9.777 3933	102	9.873 8781	158	0.126 1219	9.903 5152	57	205	
796	9.777 4034	101	9.873 8939	158	0.126 1061	9.903 5095	57	204	
		101		158			56		
797	9.777 4135		9.873 9097		0.126 0903	9.903 5039		203	
798	9.777 4237	102	9.873 9255	158	0.126 0745	9.903 4982	57	202	
799	9.777 4338	101	9.873 9413	158	0.126 0587	9.903 4925	57	201	
		101		158			57		
.800	9.777 4439		9.873 9571		0.126 0429	9.903 4868		.200	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	159	158
1	15.9	15.8
2	31.8	31.6
3	47.7	47.4
4	63.6	63.2
5	79.5	79.0
6	95.4	94.8
7	111.3	110.6
8	127.2	126.4
9	143.1	142.2

	102	101
1	10.2	10.1
2	20.4	20.2
3	30.6	30.3
4	40.8	40.4
5	51.0	50.5
6	61.2	60.6
7	71.4	70.7
8	81.6	80.8
9	91.8	90.9

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

53°.250 — 53°.200

36°.800 — 36°.850

36°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.777 4439		9.873 9571		0.126 0429	9.903 4868		**.200**	
		102		158			56		
801	9.777 4541		9.873 9729		0.126 0271	9.903 4812		199	
802	9.777 4642	101	9.873 9887	158	0.126 0113	9.903 4755	57	198	
803	9.777 4743	101	9.874 0045	158	0.125 9955	9.903 4698	57	197	
		102		158			56		
804	9.777 4845		9.874 0203		0.125 9797	9.903 4642		196	
805	9.777 4946	101	9.874 0361	158	0.125 9639	9.903 4585	57	195	
806	9.777 5047	101	9.874 0519	158	0.125 9481	9.903 4528	57	194	
		101		158			57		
807	9.777 5148		9.874 0677		0.125 9323	9.903 4471		193	
808	9.777 5250	102	9.874 0835	158	0.125 9165	9.903 4415	56	192	
809	9.777 5351	101	9.874 0993	158	0.125 9007	9.903 4358	57	191	
		101		158			57		
.810	9.777 5452		9.874 1151		0.125 8849	9.903 4301		**.190**	
		102		158			56		
811	9.777 5554		9.874 1309		0.125 8691	9.903 4245		189	
812	9.777 5655	101	9.874 1467	158	0.125 8533	9.903 4188	57	188	
813	9.777 5756	101	9.874 1625	158	0.125 8375	9.903 4131	57	187	
		101		158			57		
814	9.777 5857		9.874 1783		0.125 8217	9.903 4074		186	
815	9.777 5959	102	9.874 1941	158	0.125 8059	9.903 4018	56	185	
816	9.777 6060	101	9.874 2099	158	0.125 7901	9.903 3961	57	184	
		101		158			57		
817	9.777 6161		9.874 2257		0.125 7743	9.903 3904		183	
818	9.777 6263	102	9.874 2415	158	0.125 7585	9.903 3847	57	182	
819	9.777 6364	101	9.874 2573	158	0.125 7427	9.903 3791	56	181	
		101		158			57		
.820	9.777 6465		9.874 2731		0.125 7269	9.903 3734		**.180**	
		101		158			57		
821	9.777 6566		9.874 2889		0.125 7111	9.903 3677		179	
822	9.777 6668	102	9.874 3047	158	0.125 6953	9.903 3620	57	178	
823	9.777 6769	101	9.874 3205	158	0.125 6795	9.903 3564	56	177	
		101		158			57		
824	9.777 6870		9.874 3363		0.125 6637	9.903 3507		176	
825	9.777 6971	101	9.874 3521	158	0.125 6479	9.903 3450	57	175	
826	9.777 7072	101	9.874 3679	158	0.125 6321	9.903 3393	57	174	
		102		158			56		
827	9.777 7174		9.874 3837		0.125 6163	9.903 3337		173	
828	9.777 7275	101	9.874 3995	158	0.125 6005	9.903 3280	57	172	
829	9.777 7376	101	9.874 4153	158	0.125 5847	9.903 3223	57	171	
		101		158			57		
.830	9.777 7477		9.874 4311		0.125 5689	9.903 3166		**.170**	
		102		158			56		
831	9.777 7579		9.874 4469		0.125 5531	9.903 3110		169	
832	9.777 7680	101	9.874 4627	158	0.125 5373	9.903 3053	57	168	
833	9.777 7781	101	9.874 4785	158	0.125 5215	9.903 2996	57	167	
		101		158			57		
834	9.777 7882		9.874 4943		0.125 5057	9.903 2939		166	
835	9.777 7983	101	9.874 5101	158	0.125 4899	9.903 2883	56	165	
836	9.777 8085	102	9.874 5259	158	0.125 4741	9.903 2826	57	164	
		101		158			57		
837	9.777 8186		9.874 5417		0.125 4583	9.903 2769		163	
838	9.777 8287	101	9.874 5575	158	0.125 4425	9.903 2712	57	162	
839	9.777 8388	101	9.874 5733	158	0.125 4267	9.903 2655	57	161	
		101		158			56		
.840	9.777 8489		9.874 5891		0.125 4109	9.903 2599		**.160**	
		101		158			57		
841	9.777 8590		9.874 6049		0.125 3951	9.903 2542		159	
842	9.777 8692	102	9.874 6207	158	0.125 3793	9.903 2485	57	158	
843	9.777 8793	101	9.874 6365	158	0.125 3635	9.903 2428	57	157	
		101		157			57		
844	9.777 8894		9.874 6522		0.125 3478	9.903 2371		156	
845	9.777 8995	101	9.874 6680	158	0.125 3320	9.903 2315	56	155	
846	9.777 9096	101	9.874 6838	158	0.125 3162	9.903 2258	57	154	
		101		158			57		
847	9.777 9197		9.874 6996		0.125 3004	9.903 2201		153	
848	9.777 9299	102	9.874 7154	158	0.125 2846	9.903 2144	57	152	
849	9.777 9400	101	9.874 7312	158	0.125 2688	9.903 2087	57	151	
		101		158			56		
.850	9.777 9501		9.874 7470		0.125 2530	9.903 2031		**.150**	
	cos	d	cotg	d	tang	sin	d	**53°**	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	102	101
1	10.2	10.1
2	20.4	20.2
3	30.6	30.3
4	40.8	40.4
5	51.0	50.5
6	61.2	60.6
7	71.4	70.7
8	81.6	80.8
9	91.8	90.9

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

53°.200 — 53°.150

$36^\circ.850 - 36^\circ.900$

36°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.777 9501		9.874 7470		0.125 2530	9.903 2031		.150	
		101		158			57		
851	9.777 9602		9.874 7628		0.125 2372	9.903 1974		149	
852	9.777 9703	101	9.874 7786	158	0.125 2214	9.903 1917	57	148	
853	9.777 9804	101	9.874 7944	158	0.125 2056	9.903 1860	57	147	
		101		158			57		
854	9.777 9905		9.874 8102		0.125 1898	9.903 1803		146	
855	9.778 0006	101	9.874 8260	158	0.125 1740	9.903 1747	56	145	
856	9.778 0108	102	9.874 8418	158	0.125 1582	9.903 1690	57	144	
		101		158			57		
857	9.778 0209		9.874 8576		0.125 1424	9.903 1633		143	
858	9.778 0310	101	9.874 8734	158	0.125 1266	9.903 1576	57	142	
859	9.778 0411	101	9.874 8892	158	0.125 1108	9.903 1519	57	141	
		101		158			57		
.860	9.778 0512		9.874 9050		0.125 0950	9.903 1462		.140	
		101		158			56		
861	9.778 0613		9.874 9208		0.125 0792	9.903 1406		139	
862	9.778 0714	101	9.874 9365	157	0.125 0635	9.903 1349	57	138	
863	9.778 0815	101	9.874 9523	158	0.125 0477	9.903 1292	57	137	
		101		158			57		
864	9.778 0916		9.874 9681		0.125 0319	9.903 1235		136	
865	9.778 1017	101	9.874 9839	158	0.125 0161	9.903 1178	57	135	
866	9.778 1119	102	9.874 9997	158	0.125 0003	9.903 1121	57	134	
		101		158			56		
867	9.778 1220		9.875 0155		0.124 9845	9.903 1065		133	
868	9.778 1321	101	9.875 0313	158	0.124 9687	9.903 1008	57	132	
869	9.778 1422	101	9.875 0471	158	0.124 9529	9.903 0951	57	131	
		101		158			57		
.870	9.778 1523		9.875 0629		0.124 9371	9.903 0894		.130	
		101		158			57		
871	9.778 1624		9.875 0787		0.124 9213	9.903 0837		129	
872	9.778 1725	101	9.875 0945	158	0.124 9055	9.903 0780	57	128	
873	9.778 1826	101	9.875 1103	158	0.124 8897	9.903 0723	57	127	
		101		157			56		
874	9.778 1927		9.875 1260		0.124 8740	9.903 0667		126	
875	9.778 2028	101	9.875 1418	158	0.124 8582	9.903 0610	57	125	
876	9.778 2129	101	9.875 1576	158	0.124 8424	9.903 0553	57	124	
		101		158			57		
877	9.778 2230		9.875 1734		0.124 8266	9.903 0496		123	
878	9.778 2331	101	9.875 1892	158	0.124 8108	9.903 0439	57	122	
879	9.778 2432	101	9.875 2050	158	0.124 7950	9.903 0382	57	121	
		101		158			57		
.880	9.778 2533		9.875 2208		0.124 7792	9.903 0325		.120	
		101		158			56		
881	9.778 2634		9.875 2366		0.124 7634	9.903 0269		119	
882	9.778 2735	101	9.875 2524	158	0.124 7476	9.903 0212	57	118	
883	9.778 2836	101	9.875 2682	158	0.124 7318	9.903 0155	57	117	
		101		157			57		
884	9.778 2937		9.875 2839		0.124 7161	9.903 0098		116	
885	9.778 3038	101	9.875 2997	158	0.124 7003	9.903 0041	57	115	
886	9.778 3139	101	9.875 3155	158	0.124 6845	9.902 9984	57	114	
		101		158			57		
887	9.778 3240		9.875 3313		0.124 6687	9.902 9927		113	
888	9.778 3341	101	9.875 3471	158	0.124 6529	9.902 9870	57	112	
889	9.778 3442	101	9.875 3629	158	0.124 6371	9.902 9814	56	111	
		101		158			57		
.890	9.778 3543		9.875 3787		0.124 6213	9.902 9757		.110	
		101		158			57		
891	9.778 3644		9.875 3945		0.124 6055	9.902 9700		109	
892	9.778 3745	101	9.875 4103	158	0.124 5897	9.902 9643	57	108	
893	9.778 3846	101	9.875 4260	157	0.124 5740	9.902 9586	57	107	
		101		158			57		
894	9.778 3947		9.875 4418		0.124 5582	9.902 9529		106	
895	9.778 4048	101	9.875 4576	158	0.124 5424	9.902 9472	57	105	
896	9.778 4149	101	9.875 4734	158	0.124 5266	9.902 9415	57	104	
		101		158			57		
897	9.778 4250		9.875 4892		0.124 5108	9.902 9358		103	
898	9.778 4351	101	9.875 5050	158	0.124 4950	9.902 9301	57	102	
899	9.778 4452	101	9.875 5208	158	0.124 4792	9.902 9245	56	101	
		101		157			57		
.900	9.778 4553		9.875 5365		0.124 4635	9.902 9188		.100	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	102	101
1	10.2	10.1
2	20.4	20.2
3	30.6	30.3
4	40.8	40.4
5	51.0	50.5
6	61.2	60.6
7	71.4	70.7
8	81.6	80.8
9	91.8	90.9

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

$53^\circ.150 - 53^\circ.100$

36°.900 — 36°.950

36°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.778 4553		9.875 5365		0.124 4635	9.902 9188		.100	
		101		158			57		
901	9.778 4654		9.875 5523		0.124 4477	9.902 9131		099	
902	9.778 4755	101	9.875 5681	158	0.124 4319	9.902 9074	57	098	
903	9.778 4856	101	9.875 5839	158	0.124 4161	9.902 9017	57	097	
		101		158			57		
904	9.778 4957		9.875 5997		0.124 4003	9.902 8960		096	
905	9.778 5058	101	9.875 6155	158	0.124 3845	9.902 8903	57	095	
906	9.778 5159	101	9.875 6313	158	0.124 3687	9.902 8846	57	094	
		101		158			57		
907	9.778 5260		9.875 6471		0.124 3529	9.902 8789		093	
908	9.778 5361	101	9.875 6628	157	0.124 3372	9.902 8732	57	092	
909	9.778 5462	101	9.875 6786	158	0.124 3214	9.902 8675	57	091	
		100		158			57		
.910	9.778 5562		9.875 6944		0.124 3056	9.902 8618		.090	
		101		158			57		
911	9.778 5663		9.875 7102		0.124 2898	9.902 8561		089	
912	9.778 5764	101	9.875 7260	158	0.124 2740	9.902 8505	56	088	
913	9.778 5865	101	9.875 7418	158	0.124 2582	9.902 8448	57	087	
		101		157			57		
914	9.778 5966		9.875 7575		0.124 2425	9.902 8391		086	
915	9.778 6067	101	9.875 7733	158	0.124 2267	9.902 8334	57	085	
916	9.778 6168	101	9.875 7891	158	0.124 2109	9.902 8277	57	084	
		101		158			57		
917	9.778 6269		9.875 8049		0.124 1951	9.902 8220		083	
918	9.778 6370	101	9.875 8207	158	0.124 1793	9.902 8163	57	082	
919	9.778 6471	101	9.875 8365	158	0.124 1635	9.902 8106	57	081	
		100		157			57		
.920	9.778 6571		9.875 8522		0.124 1478	9.902 8049		.080	
		101		158			57		
921	9.778 6672		9.875 8680		0.124 1320	9.902 7992		079	
922	9.778 6773	101	9.875 8838	158	0.124 1162	9.902 7935	57	078	
923	9.778 6874	101	9.875 8996	158	0.124 1004	9.902 7878	57	077	
		101		158			57		
924	9.778 6975		9.875 9154		0.124 0846	9.902 7821		076	
925	9.778 7076	101	9.875 9312	158	0.124 0688	9.902 7764	57	075	
926	9.778 7177	101	9.875 9469	157	0.124 0531	9.902 7707	57	074	
		101		158			57		
927	9.778 7278		9.875 9627		0.124 0373	9.902 7650		073	
928	9.778 7378	100	9.875 9785	158	0.124 0215	9.902 7593	57	072	
929	9.778 7479	101	9.875 9943	158	0.124 0057	9.902 7536	57	071	
		101		158			57		
.930	9.778 7580		9.876 0101		0.123 9899	9.902 7479		.070	
		101		158			57		
931	9.778 7681		9.876 0259		0.123 9741	9.902 7422		069	
932	9.778 7782	101	9.876 0416	157	0.123 9584	9.902 7365	57	068	
933	9.778 7883	101	9.876 0574	158	0.123 9426	9.902 7308	57	067	
		100		158			57		
934	9.778 7983		9.876 0732		0.123 9268	9.902 7251		066	
935	9.778 8084	101	9.876 0890	158	0.123 9110	9.902 7194	57	065	
936	9.778 8185	101	9.876 1048	158	0.123 8952	9.902 7137	57	064	
		101		157			56		
937	9.778 8286		9.876 1205		0.123 8795	9.902 7081		063	
938	9.778 8387	101	9.876 1363	158	0.123 8637	9.902 7024	57	062	
939	9.778 8488	101	9.876 1521	158	0.123 8479	9.902 6967	57	061	
		100		158			57		
.940	9.778 8588		9.876 1679		0.123 8321	9.902 6910		.060	
		101		158			57		
941	9.778 8689		9.876 1837		0.123 8163	9.902 6853		059	
942	9.778 8790	101	9.876 1994	157	0.123 8006	9.902 6796	57	058	
943	9.778 8891	101	9.876 2152	158	0.123 7848	9.902 6739	57	057	
		101		158			57		
944	9.778 8992		9.876 2310		0.123 7690	9.902 6682		056	
945	9.778 9092	100	9.876 2468	158	0.123 7532	9.902 6625	57	055	
946	9.778 9193	101	9.876 2626	158	0.123 7374	9.902 6568	57	054	
		101		157			57		
947	9.778 9294		9.876 2783		0.123 7217	9.902 6511		053	
948	9.778 9395	101	9.876 2941	158	0.123 7059	9.902 6454	57	052	
949	9.778 9495	100	9.876 3099	158	0.123 6901	9.902 6397	57	051	
		101		158			58		
.950	9.778 9596		9.876 3257		0.123 6743	9.902 6339		.050	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	101	100
1	10.1	10.0
2	20.2	20.0
3	30.3	30.0
4	40.4	40.0
5	50.5	50.0
6	60.6	60.0
7	70.7	70.0
8	80.8	80.0
9	90.9	90.0

	58
1	5.8
2	11.6
3	17.4
4	23.2
5	29.0
6	34.8
7	40.6
8	46.4
9	52.2

	57	56
1	5.7	5.6
2	11.4	11.2
3	17.1	16.8
4	22.8	22.4
5	28.5	28.0
6	34.2	33.6
7	39.9	39.2
8	45.6	44.8
9	51.3	50.4

53°.100 — 53°.050

36°.950 — 37°.000

36°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.778 9596		9.876 3257		0.123 6743	9.902 6339		.050	
		101		158			57		
951	9.778 9697		9.876 3415		0.123 6585	9.902 6282		049	
952	9.778 9798	101	9.876 3572	157	0.123 6428	9.902 6225	57	048	
953	9.778 9899	101	9.876 3730	158	0.123 6270	9.902 6168	57	047	
		100		158			57		
954	9.778 9999		9.876 3888		0.123 6112	9.902 6111		046	
955	9.779 0100	101	9.876 4046	158	0.123 5954	9.902 6054	57	045	
956	9.779 0201	101	9.876 4203	157	0.123 5797	9.902 5997	57	044	
		101		158			57		
957	9.779 0302		9.876 4361		0.123 5639	9.902 5940		043	
958	9.779 0402	100	9.876 4519	158	0.123 5481	9.902 5883	57	042	
959	9.779 0503	101	9.876 4677	158	0.123 5323	9.902 5826	57	041	
		101		158			57		
.960	9.779 0604		9.876 4835		0.123 5165	9.902 5769		.040	
		101		157			57		
961	9.779 0705		9.876 4992		0.123 5008	9.902 5712		039	
962	9.779 0805	100	9.876 5150	158	0.123 4850	9.902 5655	57	038	
963	9.779 0906	101	9.876 5308	158	0.123 4692	9.902 5598	57	037	
		101		158			57		
964	9.779 1007		9.876 5466		0.123 4534	9.902 5541		036	
965	9.779 1107	100	9.876 5623	157	0.123 4377	9.902 5484	57	035	
966	9.779 1208	101	9.876 5781	158	0.123 4219	9.902 5427	57	034	
		101		158			57		
967	9.779 1309		9.876 5939		0.123 4061	9.902 5370		033	
968	9.779 1410	101	9.876 6097	158	0.123 3903	9.902 5313	57	032	
969	9.779 1510	100	9.876 6254	157	0.123 3746	9.902 5256	57	031	
		101		158			57		
.970	9.779 1611		9.876 6412		0.123 3588	9.902 5199		.030	
		101		158			57		
971	9.779 1712		9.876 6570		0.123 3430	9.902 5142		029	
972	9.779 1812	100	9.876 6728	158	0.123 3272	9.902 5085	57	028	
973	9.779 1913	101	9.876 6885	157	0.123 3115	9.902 5028	57	027	
		101		158			57		
974	9.779 2014		9.876 7043		0.123 2957	9.902 4971		026	
975	9.779 2114	100	9.876 7201	158	0.123 2799	9.902 4913	58	025	
976	9.779 2215	101	9.876 7359	158	0.123 2641	9.902 4856	57	024	
		101		157			57		
977	9.779 2316		9.876 7516		0.123 2484	9.902 4799		023	
978	9.779 2416	100	9.876 7674	158	0.123 2326	9.902 4742	57	022	
979	9.779 2517	101	9.876 7832	158	0.123 2168	9.902 4685	57	021	
		101		158			57		
.980	9.779 2618		9.876 7990		0.123 2010	9.902 4628		.020	
		100		157			57		
981	9.779 2718		9.876 8147		0.123 1853	9.902 4571		019	
982	9.779 2819	101	9.876 8305	158	0.123 1695	9.902 4514	57	018	
983	9.779 2920	101	9.876 8463	158	0.123 1537	9.902 4457	57	017	
		100		158			57		
984	9.779 3020		9.876 8621		0.123 1379	9.902 4400		016	
985	9.779 3121	101	9.876 8778	157	0.123 1222	9.902 4343	57	015	
986	9.779 3222	101	9.876 8936	158	0.123 1064	9.902 4286	57	014	
		100		158			57		
987	9.779 3322		9.876 9094		0.123 0906	9.902 4229		013	
988	9.779 3423	101	9.876 9251	157	0.123 0749	9.902 4171	58	012	
989	9.779 3524	101	9.876 9409	158	0.123 0591	9.902 4114	57	011	
		100		158			57		
.990	9.779 3624		9.876 9567		0.123 0433	9.902 4057		.010	
		101		158			57		
991	9.779 3725		9.876 9725		0.123 0275	9.902 4000		009	
992	9.779 3825	100	9.876 9882	157	0.123 0118	9.902 3943	57	008	
993	9.779 3926	101	9.877 0040	158	0.122 9960	9.902 3886	57	007	
		101		158			57		
994	9.779 4027		9.877 0198		0.122 9802	9.902 3829		006	
995	9.779 4127	100	9.877 0356	158	0.122 9644	9.902 3772	57	005	
996	9.779 4228	101	9.877 0513	157	0.122 9487	9.902 3715	57	004	
		100		158			57		
997	9.779 4328		9.877 0671		0.122 9329	9.902 3658		003	
998	9.779 4429	101	9.877 0829	158	0.122 9171	9.902 3600	58	002	
999	9.779 4530	101	9.877 0986	157	0.122 9014	9.902 3543	57	001	
		100		158			57		
*000	9.779 4630		9.877 1144		0.122 8856	9.902 3486		.000	
	cos	d	cotg	d	tang	sin	d	53°	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	101	100
1	10.1	10.0
2	20.2	20.0
3	30.3	30.0
4	40.4	40.0
5	50.5	50.0
6	60.6	60.0
7	70.7	70.0
8	80.8	80.0
9	90.9	90.0

	58	57
1	5.8	5.7
2	11.6	11.4
3	17.4	17.1
4	23.2	22.8
5	29.0	28.5
6	34.8	34.2
7	40.6	39.9
8	46.4	45.6
9	52.2	51.3

53°.050 — 53°.000

37°.000 — 37°.050

37°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.779 4630		9.877 1144		0.122 8856	9.902 3486		*000	
		101		158			57		
001	9.779 4731		9.877 1302		0.122 8698	9.902 3429		999	
002	9.779 4831	100	9.877 1459	157	0.122 8541	9.902 3372	57	998	
003	9.779 4932	101	9.877 1617	158	0.122 8383	9.902 3315	57	997	
		101		158			57		
004	9.779 5033		9.877 1775		0.122 8225	9.902 3258		996	
005	9.779 5133	100	9.877 1933	158	0.122 8067	9.902 3201	57	995	
006	9.779 5234	101	9.877 2090	157	0.122 7910	9.902 3143	58	994	
		100		158			57		
007	9.779 5334		9.877 2248		0.122 7752	9.902 3086		993	
008	9.779 5435	101	9.877 2406	158	0.122 7594	9.902 3029	57	992	
009	9.779 5535	100	9.877 2563	157	0.122 7437	9.902 2972	57	991	
		101		158			57		
.010	9.779 5636		9.877 2721		0.122 7279	9.902 2915		.990	
		100		158			57		
011	9.779 5736		9.877 2879		0.122 7121	9.902 2858		989	
012	9.779 5837	101	9.877 3036	157	0.122 6964	9.902 2801	57	988	
013	9.779 5938	101	9.877 3194	158	0.122 6806	9.902 2743	58	987	
		100		158			57		
014	9.779 6038		9.877 3352		0.122 6648	9.902 2686		986	
015	9.779 6139	101	9.877 3510	158	0.122 6490	9.902 2629	57	985	
016	9.779 6239	100	9.877 3667	157	0.122 6333	9.902 2572	57	984	
		101		158			57		
017	9.779 6340		9.877 3825		0.122 6175	9.902 2515		983	
018	9.779 6440	100	9.877 3983	158	0.122 6017	9.902 2458	57	982	
019	9.779 6541	101	9.877 4140	157	0.122 5860	9.902 2401	57	981	
		100		158			58		
.020	9.779 6641		9.877 4298		0.122 5702	9.902 2343		.980	
		101		158			57		
021	9.779 6742		9.877 4456		0.122 5544	9.902 2286		979	
022	9.779 6842	100	9.877 4613	157	0.122 5387	9.902 2229	57	978	
023	9.779 6943	101	9.877 4771	158	0.122 5229	9.902 2172	57	977	
		100		158			57		
024	9.779 7043		9.877 4929		0.122 5071	9.902 2115		976	
025	9.779 7144	101	9.877 5086	157	0.122 4914	9.902 2058	57	975	
026	9.779 7244	100	9.877 5244	158	0.122 4756	9.902 2000	58	974	
		101		158			57		
027	9.779 7345		9.877 5402		0.122 4598	9.902 1943		973	
028	9.779 7445	100	9.877 5559	157	0.122 4441	9.902 1886	57	972	
029	9.779 7546	101	9.877 5717	158	0.122 4283	9.902 1829	57	971	
		100		158			57		
.030	9.779 7646		9.877 5875		0.122 4125	9.902 1772		.970	
		101		157			58		
031	9.779 7747		9.877 6032		0.122 3968	9.902 1714		969	
032	9.779 7847	100	9.877 6190	158	0.122 3810	9.902 1657	57	968	
033	9.779 7948	101	9.877 6348	158	0.122 3652	9.902 1600	57	967	
		100		157			57		
034	9.779 8048		9.877 6505		0.122 3495	9.902 1543		966	
035	9.779 8149	101	9.877 6663	158	0.122 3337	9.902 1486	57	965	
036	9.779 8249	100	9.877 6821	158	0.122 3179	9.902 1429	57	964	
		101		157			58		
037	9.779 8350		9.877 6978		0.122 3022	9.902 1371		963	
038	9.779 8450	100	9.877 7136	158	0.122 2864	9.902 1314	57	962	
039	9.779 8550	100	9.877 7293	157	0.122 2707	9.902 1257	57	961	
		101		158			57		
.040	9.779 8651		9.877 7451		0.122 2549	9.902 1200		.960	
		100		158			57		
041	9.779 8751		9.877 7609		0.122 2391	9.902 1143		959	
042	9.779 8852	101	9.877 7766	157	0.122 2234	9.902 1085	58	958	
043	9.779 8952	100	9.877 7924	158	0.122 2076	9.902 1028	57	957	
		101		158			57		
044	9.779 9053		9.877 8082		0.122 1918	9.902 0971		956	
045	9.779 9153	100	9.877 8239	157	0.122 1761	9.902 0914	57	955	
046	9.779 9253	100	9.877 8397	158	0.122 1603	9.902 0857	57	954	
		101		158			58		
047	9.779 9354		9.877 8555		0.122 1445	9.902 0799		953	
048	9.779 9454	100	9.877 8712	157	0.122 1288	9.902 0742	57	952	
049	9.779 9555	101	9.877 8870	158	0.122 1130	9.902 0685	57	951	
		100		157			57		
.050	9.779 9655		9.877 9027		0.122 0973	9.902 0628		.950	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	101	100
1	10.1	10.0
2	20.2	20.0
3	30.3	30.0
4	40.4	40.0
5	50.5	50.0
6	60.6	60.0
7	70.7	70.0
8	80.8	80.0
9	90.9	90.0

	58	57
1	5.8	5.7
2	11.6	11.4
3	17.4	17.1
4	23.2	22.8
5	29.0	28.5
6	34.8	34.2
7	40.6	39.9
8	46.4	45.6
9	52.2	51.3

53°.000 — 52°.950

37°.050 — 37°.100

37°	sin	d	tang	d	cotg	cos	d		P.P.		
.050	9.779 9655		9.877 9027		0.122 0973	9.902 0628		.950			
		101		158			58				
051	9.779 9756		9.877 9185		0.122 0815	9.902 0570		949			
052	9.779 9856	100	9.877 9343	158	0.122 0657	9.902 0513	57	948			
053	9.779 9956	100	9.877 9500	157	0.122 0500	9.902 0456	57	947			
		101		158			57				
054	9.780 0057		9.877 9658		0.122 0342	9.902 0399		946			
055	9.780 0157	100	9.877 9816	158	0.122 0184	9.902 0342	57	945			
056	9.780 0257	100	9.877 9973	157	0.122 0027	9.902 0284	58	944			
		101		158			57				
057	9.780 0358		9.878 0131		0.121 9869	9.902 0227		943			
058	9.780 0458	100	9.878 0288	157	0.121 9712	9.902 0170	57	942			
059	9.780 0559	101	9.878 0446	158	0.121 9554	9.902 0113	57	941			
		100		158			58				
.060	9.780 0659		9.878 0604		0.121 9396	9.902 0055		.940			
		100		157			57				
061	9.780 0759		9.878 0761		0.121 9239	9.901 9998		939			
062	9.780 0860	101	9.878 0919	158	0.121 9081	9.901 9941	57	938			
063	9.780 0960	100	9.878 1076	157	0.121 8924	9.901 9884	57	937			
		100		158			58				
064	9.780 1060		9.878 1234		0.121 8766	9.901 9826		936			
065	9.780 1161	101	9.878 1392	158	0.121 8608	9.901 9769	57	935			
066	9.780 1261	100	9.878 1549	157	0.121 8451	9.901 9712	57	934			
		100		158			57				
067	9.780 1361		9.878 1707		0.121 8293	9.901 9655		933			
068	9.780 1462	101	9.878 1864	157	0.121 8136	9.901 9597	58	932			
069	9.780 1562	100	9.878 2022	158	0.121 7978	9.901 9540	57	931			
		100		158			57				
.070	9.780 1662		9.878 2180		0.121 7820	9.901 9483		.930			
		101		157			57				
071	9.780 1763		9.878 2337		0.121 7663	9.901 9426		929		101	100
072	9.780 1863	100	9.878 2495	158	0.121 7505	9.901 9368	58	928			
073	9.780 1963	100	9.878 2652	157	0.121 7348	9.901 9311	57	927	1	10.1	10.0
		101		158			57		2	20.2	20.0
074	9.780 2064		9.878 2810		0.121 7190	9.901 9254		926	3	30.3	30.0
075	9.780 2164	100	9.878 2968	158	0.121 7032	9.901 9196	58	925	4	40.4	40.0
076	9.780 2264	100	9.878 3125	157	0.121 6875	9.901 9139	57	924	5	50.5	50.0
		101		158			57		6	60.6	60.0
077	9.780 2365		9.878 3283		0.121 6717	9.901 9082		923	7	70.7	70.0
078	9.780 2465	100	9.878 3440	157	0.121 6560	9.901 9025	57	922	8	80.8	80.0
079	9.780 2565	100	9.878 3598	158	0.121 6402	9.901 8967	58	921	9	90.9	90.0
		101		158			57				
.080	9.780 2666		9.878 3756		0.121 6244	9.901 8910		.920			
		100		157			57				
081	9.780 2766		9.878 3913		0.121 6087	9.901 8853		919			
082	9.780 2866	100	9.878 4071	158	0.121 5929	9.901 8795	58	918			
083	9.780 2967	101	9.878 4228	157	0.121 5772	9.901 8738	57	917			
		100		158			57				
084	9.780 3067		9.878 4386		0.121 5614	9.901 8681		916			
085	9.780 3167	100	9.878 4543	157	0.121 5457	9.901 8624	57	915			
086	9.780 3267	100	9.878 4701	158	0.121 5299	9.901 8566	58	914		58	57
		101		158			57				
087	9.780 3368		9.878 4859		0.121 5141	9.901 8509		913	1	5.8	5.7
088	9.780 3468	100	9.878 5016	157	0.121 4984	9.901 8452	57	912	2	11.6	11.4
089	9.780 3568	100	9.878 5174	158	0.121 4826	9.901 8394	58	911	3	17.4	17.1
		100		157			57		4	23.2	22.8
.090	9.780 3668		9.878 5331		0.121 4669	9.901 8337		.910	5	29.0	28.5
		101		158			57		6	34.8	34.2
091	9.780 3769		9.878 5489		0.121 4511	9.901 8280		909	7	40.6	39.9
092	9.780 3869	100	9.878 5646	157	0.121 4354	9.901 8222	58	908	8	46.4	45.6
093	9.780 3969	100	9.878 5804	158	0.121 4196	9.901 8165	57	907	9	52.2	51.3
		100		158			57				
094	9.780 4069		9.878 5962		0.121 4038	9.901 8108		906			
095	9.780 4170	101	9.878 6119	157	0.121 3881	9.901 8051	57	905			
096	9.780 4270	100	9.878 6277	158	0.121 3723	9.901 7993	58	904			
		100		157			57				
097	9.780 4370		9.878 6434		0.121 3566	9.901 7936		903			
098	9.780 4470	100	9.878 6592	158	0.121 3408	9.901 7879	57	902			
099	9.780 4571	101	9.878 6749	157	0.121 3251	9.901 7821	58	901			
		100		158			57				
.100	9.780 4671		9.878 6907		0.121 3093	9.901 7764		.900			
	cos	d	cotg	d	tang	sin	d	52°	P.P.		

52°.950 — 52°.900

37°.100 — 37°.150

37°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.780 4671		9.878 6907		0.121 3093	9.901 7764		.900	
		100		157			57		
101	9.780 4771		9.878 7064		0.121 2936	9.901 7707		899	
102	9.780 4871	100	9.878 7222	158	0.121 2778	9.901 7649	58	898	
103	9.780 4971	100	9.878 7380	158	0.121 2620	9.901 7592	57	897	
		101		157			57		
104	9.780 5072		9.878 7537		0.121 2463	9.901 7535		896	
105	9.780 5172	100	9.878 7695	158	0.121 2305	9.901 7477	58	895	
106	9.780 5272	100	9.878 7852	157	0.121 2148	9.901 7420	57	894	
		100		158			57		
107	9.780 5372		9.878 8010		0.121 1990	9.901 7363		893	
108	9.780 5473	101	9.878 8167	157	0.121 1833	9.901 7305	58	892	
109	9.780 5573	100	9.878 8325	158	0.121 1675	9.901 7248	57	891	
		100		157			57		
.110	9.780 5673		9.878 8482		0.121 1518	9.901 7191		.890	
		100		158			58		
111	9.780 5773		9.878 8640		0.121 1360	9.901 7133		889	
112	9.780 5873	100	9.878 8797	157	0.121 1203	9.901 7076	57	888	
113	9.780 5973	100	9.878 8955	158	0.121 1045	9.901 7019	57	887	
		101		157			58		
114	9.780 6074		9.878 9112		0.121 0888	9.901 6961		886	
115	9.780 6174	100	9.878 9270	158	0.121 0730	9.901 6904	57	885	
116	9.780 6274	100	9.878 9427	157	0.121 0573	9.901 6846	58	884	
		100		158			57		
117	9.780 6374		9.878 9585		0.121 0415	9.901 6789		883	
118	9.780 6474	100	9.878 9743	158	0.121 0257	9.901 6732	57	882	
119	9.780 6574	100	9.878 9900	157	0.121 0100	9.901 6674	58	881	
		101		158			57		
.120	9.780 6675		9.879 0058		0.120 9942	9.901 6617		.880	
		100		157			57		
121	9.780 6775		9.879 0215		0.120 9785	9.901 6560		879	
122	9.780 6875	100	9.879 0373	158	0.120 9627	9.901 6502	58	878	
123	9.780 6975	100	9.879 0530	157	0.120 9470	9.901 6445	57	877	
		100		158			57		
124	9.780 7075		9.879 0688		0.120 9312	9.901 6388		876	
125	9.780 7175	100	9.879 0845	157	0.120 9155	9.901 6330	58	875	
126	9.780 7275	100	9.879 1003	158	0.120 8997	9.901 6273	57	874	
		101		157			58		
127	9.780 7376		9.879 1160		0.120 8840	9.901 6215		873	
128	9.780 7476	100	9.879 1318	158	0.120 8682	9.901 6158	57	872	
129	9.780 7576	100	9.879 1475	157	0.120 8525	9.901 6101	57	871	
		100		158			58		
.130	9.780 7676		9.879 1633		0.120 8367	9.901 6043		.870	
		100		157			57		
131	9.780 7776		9.879 1790		0.120 8210	9.901 5986		869	
132	9.780 7876	100	9.879 1948	158	0.120 8052	9.901 5928	58	868	
133	9.780 7976	100	9.879 2105	157	0.120 7895	9.901 5871	57	867	
		100		158			57		
134	9.780 8076		9.879 2263		0.120 7737	9.901 5814		866	
135	9.780 8176	100	9.879 2420	157	0.120 7580	9.901 5756	58	865	
136	9.780 8277	101	9.879 2578	158	0.120 7422	9.901 5699	57	864	
		100		157			58		
137	9.780 8377		9.879 2735		0.120 7265	9.901 5641		863	
138	9.780 8477	100	9.879 2893	158	0.120 7107	9.901 5584	57	862	
139	9.780 8577	100	9.879 3050	157	0.120 6950	9.901 5527	57	861	
		100		158			58		
.140	9.780 8677		9.879 3208		0.120 6792	9.901 5469		.860	
		100		157			57		
141	9.780 8777		9.879 3365		0.120 6635	9.901 5412		859	
142	9.780 8877	100	9.879 3523	158	0.120 6477	9.901 5354	58	858	
143	9.780 8977	100	9.879 3680	157	0.120 6320	9.901 5297	57	857	
		100		158			57		
144	9.780 9077		9.879 3838		0.120 6162	9.901 5240		856	
145	9.780 9177	100	9.879 3995	157	0.120 6005	9.901 5182	58	855	
146	9.780 9277	100	9.879 4153	158	0.120 5847	9.901 5125	57	854	
		100		157			58		
147	9.780 9377		9.879 4310		0.120 5690	9.901 5067		853	
148	9.780 9477	100	9.879 4468	158	0.120 5532	9.901 5010	57	852	
149	9.780 9577	100	9.879 4625	157	0.120 5375	9.901 4952	58	851	
		100		157			57		
.150	9.780 9677		9.879 4782		0.120 5218	9.901 4895		.850	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	101	100
1	10.1	10.0
2	20.2	20.0
3	30.3	30.0
4	40.4	40.0
5	50.5	50.0
6	60.6	60.0
7	70.7	70.0
8	80.8	80.0
9	90.9	90.0

	58	57
1	5.8	5.7
2	11.6	11.4
3	17.4	17.1
4	23.2	22.8
5	29.0	28.5
6	34.8	34.2
7	40.6	39.9
8	46.4	45.6
9	52.2	51.3

52°.900 — 52°.850

37°.150 — 37°.200

37°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.780 9677		9.879 4782		0.120 5218	9.901 4895		**.850**	
		101		158			57		
151	9.780 9778		9.879 4940		0.120 5060	9.901 4838		849	
152	9.780 9878	100	9.879 5097	157	0.120 4903	9.901 4780	58	848	
153	9.780 9978	100	9.879 5255	158	0.120 4745	9.901 4723	57	847	
		100		157			58		
154	9.781 0078		9.879 5412		0.120 4588	9.901 4665		846	
155	9.781 0178	100	9.879 5570	158	0.120 4430	9.901 4608	57	845	
156	9.781 0278	100	9.879 5727	157	0.120 4273	9.901 4550	58	844	
		100		158			57		
157	9.781 0378		9.879 5885		0.120 4115	9.901 4493		843	
158	9.781 0478	100	9.879 6042	157	0.120 3958	9.901 4436	57	842	
159	9.781 0578	100	9.879 6200	158	0.120 3800	9.901 4378	58	841	
		100		157			57		
.160	9.781 0678		9.879 6357		0.120 3643	9.901 4321		**.840**	
		100		158			58		
161	9.781 0778		9.879 6515		0.120 3485	9.901 4263		839	
162	9.781 0878	100	9.879 6672	157	0.120 3328	9.901 4206	57	838	
163	9.781 0978	100	9.879 6829	157	0.120 3171	9.901 4148	58	837	
		100		158			57		
164	9.781 1078		9.879 6987		0.120 3013	9.901 4091		836	
165	9.781 1178	100	9.879 7144	157	0.120 2856	9.901 4033	58	835	
166	9.781 1278	100	9.879 7302	158	0.120 2698	9.901 3976	57	834	
		100		157			58		
167	9.781 1378		9.879 7459		0.120 2541	9.901 3918		833	
168	9.781 1478	100	9.879 7617	158	0.120 2383	9.901 3861	57	832	
169	9.781 1578	100	9.879 7774	157	0.120 2226	9.901 3803	58	831	
		100		158			57		
.170	9.781 1678		9.879 7932		0.120 2068	9.901 3746		**.830**	
		100		157			57		
171	9.781 1778		9.879 8089		0.120 1911	9.901 3689		829	
172	9.781 1878	100	9.879 8246	157	0.120 1754	9.901 3631	58	828	
173	9.781 1978	100	9.879 8404	158	0.120 1596	9.901 3574	57	827	
		99		157			58		
174	9.781 2077		9.879 8561		0.120 1439	9.901 3516		826	
175	9.781 2177	100	9.879 8719	158	0.120 1281	9.901 3459	57	825	
176	9.781 2277	100	9.879 8876	157	0.120 1124	9.901 3401	58	824	
		100		158			57		
177	9.781 2377		9.879 9034		0.120 0966	9.901 3344		823	
178	9.781 2477	100	9.879 9191	157	0.120 0809	9.901 3286	58	822	
179	9.781 2577	100	9.879 9349	158	0.120 0651	9.901 3229	57	821	
		100		157			58		
.180	9.781 2677		9.879 9506		0.120 0494	9.901 3171		**.820**	
		100		157			57		
181	9.781 2777		9.879 9663		0.120 0337	9.901 3114		819	
182	9.781 2877	100	9.879 9821	158	0.120 0179	9.901 3056	58	818	
183	9.781 2977	100	9.879 9978	157	0.120 0022	9.901 2999	57	817	
		100		158			58		
184	9.781 3077		9.880 0136		0.119 9864	9.901 2941		816	
185	9.781 3177	100	9.880 0293	157	0.119 9707	9.901 2884	57	815	
186	9.781 3277	100	9.880 0450	157	0.119 9550	9.901 2826	58	814	
		100		158			57		
187	9.781 3377		9.880 0608		0.119 9392	9.901 2769		813	
188	9.781 3476	99	9.880 0765	157	0.119 9235	9.901 2711	58	812	
189	9.781 3576	100	9.880 0923	158	0.119 9077	9.901 2654	57	811	
		100		157			58		
.190	9.781 3676		9.880 1080		0.119 8920	9.901 2596		**.810**	
		100		158			57		
191	9.781 3776		9.880 1238		0.119 8762	9.901 2539		809	
192	9.781 3876	100	9.880 1395	157	0.119 8605	9.901 2481	58	808	
193	9.781 3976	100	9.880 1552	157	0.119 8448	9.901 2424	57	807	
		100		158			58		
194	9.781 4076		9.880 1710		0.119 8290	9.901 2366		806	
195	9.781 4176	100	9.880 1867	157	0.119 8133	9.901 2309	57	805	
196	9.781 4276	100	9.880 2025	158	0.119 7975	9.901 2251	58	804	
		99		157			57		
197	9.781 4375		9.880 2182		0.119 7818	9.901 2194		803	
198	9.781 4475	100	9.880 2339	157	0.119 7661	9.901 2136	58	802	
199	9.781 4575	100	9.880 2497	158	0.119 7503	9.901 2078	58	801	
		100		157			57		
.200	9.781 4675		9.880 2654		0.119 7346	9.901 2021		**.800**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	101	100
1	10.1	10.0
2	20.2	20.0
3	30.3	30.0
4	40.4	40.0
5	50.5	50.0
6	60.6	60.0
7	70.7	70.0
8	80.8	80.0
9	90.9	90.0

	99
1	9.9
2	19.8
3	29.7
4	39.6
5	49.5
6	59.4
7	69.3
8	79.2
9	89.1

	58	57
1	5.8	5.7
2	11.6	11.4
3	17.4	17.1
4	23.2	22.8
5	29.0	28.5
6	34.8	34.2
7	40.6	39.9
8	46.4	45.6
9	52.2	51.3

52°.850 — 52°.800

37°.200 — 37°.250

37°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.781 4675		9.880 2654		0.119 7346	9.901 2021		**.800**	
		100		158			58		
201	9.781 4775		9.880 2812		0.119 7188	9.901 1963		799	
202	9.781 4875	100	9.880 2969	157	0.119 7031	9.901 1906	57	798	
203	9.781 4975	100	9.880 3126	157	0.119 6874	9.901 1848	58	797	
		99		158			57		
204	9.781 5074		9.880 3284		0.119 6716	9.901 1791		796	
205	9.781 5174	100	9.880 3441	157	0.119 6559	9.901 1733	58	795	
206	9.781 5274	100	9.880 3598	157	0.119 6402	9.901 1676	57	794	
		100		158			58		
207	9.781 5374		9.880 3756		0.119 6244	9.901 1618		793	
208	9.781 5474	100	9.880 3913	157	0.119 6087	9.901 1561	57	792	
209	9.781 5574	100	9.880 4071	158	0.119 5929	9.901 1503	58	791	
		100		157			58		
.210	9.781 5674		9.880 4228		0.119 5772	9.901 1445		**.790**	
		99		157			57		
211	9.781 5773		9.880 4385		0.119 5615	9.901 1388		789	
212	9.781 5873	100	9.880 4543	158	0.119 5457	9.901 1330	58	788	
213	9.781 5973	100	9.880 4700	157	0.119 5300	9.901 1273	57	787	
		100		158			58		
214	9.781 6073		9.880 4858		0.119 5142	9.901 1215		786	
215	9.781 6173	100	9.880 5015	157	0.119 4985	9.901 1158	57	785	
216	9.781 6272	99	9.880 5172	157	0.119 4828	9.901 1100	58	784	
		100		158			57		
217	9.781 6372		9.880 5330		0.119 4670	9.901 1043		783	
218	9.781 6472	100	9.880 5487	157	0.119 4513	9.901 0985	58	782	
219	9.781 6572	100	9.880 5644	157	0.119 4356	9.901 0927	58	781	
		100		158			57		
.220	9.781 6672		9.880 5802		0.119 4198	9.901 0870		**.780**	
		99		157			58		
221	9.781 6771		9.880 5959		0.119 4041	9.901 0812		779	
222	9.781 6871	100	9.880 6116	157	0.119 3884	9.901 0755	57	778	
223	9.781 6971	100	9.880 6274	158	0.119 3726	9.901 0697	58	777	
		100		157			57		
224	9.781 7071		9.880 6431		0.119 3569	9.901 0640		776	
225	9.781 7170	99	9.880 6589	158	0.119 3411	9.901 0582	58	775	
226	9.781 7270	100	9.880 6746	157	0.119 3254	9.901 0524	58	774	
		100		157			57		
227	9.781 7370		9.880 6903		0.119 3097	9.901 0467		773	
228	9.781 7470	100	9.880 7061	158	0.119 2939	9.901 0409	58	772	
229	9.781 7570	100	9.880 7218	157	0.119 2782	9.901 0352	57	771	
		99		157			58		
.230	9.781 7669		9.880 7375		0.119 2625	9.901 0294		**.770**	
		100		158			58		
231	9.781 7769		9.880 7533		0.119 2467	9.901 0236		769	
232	9.781 7869	100	9.880 7690	157	0.119 2310	9.901 0179	57	768	
233	9.781 7969	100	9.880 7847	157	0.119 2153	9.901 0121	58	767	
		99		158			57		
234	9.781 8068		9.880 8005		0.119 1995	9.901 0064		766	
235	9.781 8168	100	9.880 8162	157	0.119 1838	9.901 0006	58	765	
236	9.781 8268	100	9.880 8319	157	0.119 1681	9.900 9948	58	764	
		99		158			57		
237	9.781 8367		9.880 8477		0.119 1523	9.900 9891		763	
238	9.781 8467	100	9.880 8634	157	0.119 1366	9.900 9833	58	762	
239	9.781 8567	100	9.880 8791	157	0.119 1209	9.900 9776	57	761	
		100		158			58		
.240	9.781 8667		9.880 8949		0.119 1051	9.900 9718		**.760**	
		99		157			58		
241	9.781 8766		9.880 9106		0.119 0894	9.900 9660		759	
242	9.781 8866	100	9.880 9263	157	0.119 0737	9.900 9603	57	758	
243	9.781 8966	100	9.880 9421	158	0.119 0579	9.900 9545	58	757	
		99		157			58		
244	9.781 9065		9.880 9578		0.119 0422	9.900 9487		756	
245	9.781 9165	100	9.880 9735	157	0.119 0265	9.900 9430	57	755	
246	9.781 9265	100	9.880 9893	158	0.119 0107	9.900 9372	58	754	
		100		157			57		
247	9.781 9365		9.881 0050		0.118 9950	9.900 9315		753	
248	9.781 9464	99	9.881 0207	157	0.118 9793	9.900 9257	58	752	
249	9.781 9564	100	9.881 0365	158	0.118 9635	9.900 9199	58	751	
		100		157			57		
.250	9.781 9664		9.881 0522		0.118 9478	9.900 9142		**.750**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	100	99
1	10.0	9.9
2	20.0	19.8
3	30.0	29.7
4	40.0	39.6
5	50.0	49.5
6	60.0	59.4
7	70.0	69.3
8	80.0	79.2
9	90.0	89.1

	58	57
1	5.8	5.7
2	11.6	11.4
3	17.4	17.1
4	23.2	22.8
5	29.0	28.5
6	34.8	34.2
7	40.6	39.9
8	46.4	45.6
9	52.2	51.3

52°.800 — 52°.750

37°.250 — 37°.300

37°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.781 9664		9.881 0522		0.118 9478	9.900 9142		**.750**	
		99		157			58		
251	9.781 9763		9.881 0679		0.118 9321	9.900 9084		749	
252	9.781 9863	100	9.881 0837	158	0.118 9163	9.900 9026	58	748	
253	9.781 9963	100	9.881 0994	157	0.118 9006	9.900 8969	57	747	
		99		157			58		
254	9.782 0062		9.881 1151		0.118 8849	9.900 8911		746	
255	9.782 0162	100	9.881 1309	158	0.118 8691	9.900 8853	58	745	
256	9.782 0262	100	9.881 1466	157	0.118 8534	9.900 8796	57	744	
		99		157			58		
257	9.782 0361		9.881 1623		0.118 8377	9.900 8738		743	
258	9.782 0461	100	9.881 1781	158	0.118 8219	9.900 8680	58	742	
259	9.782 0561	100	9.881 1938	157	0.118 8062	9.900 8623	57	741	
		99		157			58		
.260	9.782 0660		9.881 2095		0.118 7905	9.900 8565		**.740**	
		100		157			58		
261	9.782 0760		9.881 2252		0.118 7748	9.900 8507		739	
262	9.782 0860	100	9.881 2410	158	0.118 7590	9.900 8450	57	738	
263	9.782 0959	99	9.881 2567	157	0.118 7433	9.900 8392	58	737	
		100		157			58		
264	9.782 1059		9.881 2724		0.118 7276	9.900 8334		736	
265	9.782 1158	99	9.881 2882	158	0.118 7118	9.900 8277	57	735	
266	9.782 1258	100	9.881 3039	157	0.118 6961	9.900 8219	58	734	
		100		157			58		
267	9.782 1358		9.881 3196		0.118 6804	9.900 8161		733	
268	9.782 1457	99	9.881 3353	157	0.118 6647	9.900 8104	57	732	
269	9.782 1557	100	9.881 3511	158	0.118 6489	9.900 8046	58	731	
		99		157			58		
.270	9.782 1656		9.881 3668		0.118 6332	9.900 7988		**.730**	
		100		157			57		
271	9.782 1756		9.881 3825		0.118 6175	9.900 7931		729	
272	9.782 1856	100	9.881 3983	158	0.118 6017	9.900 7873	58	728	
273	9.782 1955	99	9.881 4140	157	0.118 5860	9.900 7815	58	727	
		100		157			57		
274	9.782 2055		9.881 4297		0.118 5703	9.900 7758		726	
275	9.782 2154	99	9.881 4455	158	0.118 5545	9.900 7700	58	725	
276	9.782 2254	100	9.881 4612	157	0.118 5388	9.900 7642	58	724	
		100		157			57		
277	9.782 2354		9.881 4769		0.118 5231	9.900 7585		723	
278	9.782 2453	99	9.881 4926	157	0.118 5074	9.900 7527	58	722	
279	9.782 2553	100	9.881 5084	158	0.118 4916	9.900 7469	58	721	
		99		157			57		
.280	9.782 2652		9.881 5241		0.118 4759	9.900 7412		**.720**	
		100		157			58		
281	9.782 2752		9.881 5398		0.118 4602	9.900 7354		719	
282	9.782 2852	100	9.881 5555	157	0.118 4445	9.900 7296	58	718	
283	9.782 2951	99	9.881 5713	158	0.118 4287	9.900 7238	58	717	
		100		157			57		
284	9.782 3051		9.881 5870		0.118 4130	9.900 7181		716	
285	9.782 3150	99	9.881 6027	157	0.118 3973	9.900 7123	58	715	
286	9.782 3250	100	9.881 6184	157	0.118 3816	9.900 7065	58	714	
		99		158			57		
287	9.782 3349		9.881 6342		0.118 3658	9.900 7008		713	
288	9.782 3449	100	9.881 6499	157	0.118 3501	9.900 6950	58	712	
289	9.782 3548	99	9.881 6656	157	0.118 3344	9.900 6892	58	711	
		100		158			58		
.290	9.782 3648		9.881 6814		0.118 3186	9.900 6834		**.710**	
		99		157			57		
291	9.782 3747		9.881 6971		0.118 3029	9.900 6777		709	
292	9.782 3847	100	9.881 7128	157	0.118 2872	9.900 6719	58	708	
293	9.782 3947	100	9.881 7285	157	0.118 2715	9.900 6661	58	707	
		99		158			58		
294	9.782 4046		9.881 7443		0.118 2557	9.900 6603		706	
295	9.782 4146	100	9.881 7600	157	0.118 2400	9.900 6546	57	705	
296	9.782 4245	99	9.881 7757	157	0.118 2243	9.900 6488	58	704	
		100		157			58		
297	9.782 4345		9.881 7914		0.118 2086	9.900 6430		703	
298	9.782 4444	99	9.881 8072	158	0.118 1928	9.900 6373	57	702	
299	9.782 4544	100	9.881 8229	157	0.118 1771	9.900 6315	58	701	
		99		157			58		
.300	9.782 4643		9.881 8386		0.118 1614	9.900 6257		**.700**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	100	99
1	10.0	9.9
2	20.0	19.8
3	30.0	29.7
4	40.0	39.6
5	50.0	49.5
6	60.0	59.4
7	70.0	69.3
8	80.0	79.2
9	90.0	89.1

	58	57
1	5.8	5.7
2	11.6	11.4
3	17.4	17.1
4	23.2	22.8
5	29.0	28.5
6	34.8	34.2
7	40.6	39.9
8	46.4	45.6
9	52.2	51.3

52°.750 — 52°.700

37°.300 — 37°.350

37°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.782 4643		9.881 8386		0.118 1614	9.900 6257		.700	
		100		157			58		
301	9.782 4743		9.881 8543		0.118 1457	9.900 6199		699	
302	9.782 4842	99	9.881 8701	158	0.118 1299	9.900 6142	57	698	
303	9.782 4942	100	9.881 8858	157	0.118 1142	9.900 6084	58	697	
		99		157			58		
304	9.782 5041		9.881 9015		0.118 0985	9.900 6026		696	
305	9.782 5141	100	9.881 9172	157	0.118 0828	9.900 5968	58	695	
306	9.782 5240	99	9.881 9329	157	0.118 0671	9.900 5911	57	694	
		100		158			58		
307	9.782 5340		9.881 9487		0.118 0513	9.900 5853		693	
308	9.782 5439	99	9.881 9644	157	0.118 0356	9.900 5795	58	692	
309	9.782 5538	99	9.881 9801	157	0.118 0199	9.900 5737	58	691	
		100		157			57		
.310	9.782 5638		9.881 9958		0.118 0042	9.900 5680		.690	
		99		158			58		
311	9.782 5737		9.882 0116		0.117 9884	9.900 5622		689	
312	9.782 5837	100	9.882 0273	157	0.117 9727	9.900 5564	58	688	
313	9.782 5936	99	9.882 0430	157	0.117 9570	9.900 5506	58	687	
		100		157			58		
314	9.782 6036		9.882 0587		0.117 9413	9.900 5448		686	
315	9.782 6135	99	9.882 0745	158	0.117 9255	9.900 5391	57	685	
316	9.782 6235	100	9.882 0902	157	0.117 9098	9.900 5333	58	684	
		99		157			58		
317	9.782 6334		9.882 1059		0.117 8941	9.900 5275		683	
318	9.782 6434	100	9.882 1216	157	0.117 8784	9.900 5217	58	682	
319	9.782 6533	99	9.882 1373	157	0.117 8627	9.900 5160	57	681	
		99		158			58		
.320	9.782 6632		9.882 1531		0.117 8469	9.900 5102		.680	
		100		157			58		
321	9.782 6732		9.882 1688		0.117 8312	9.900 5044		679	
322	9.782 6831	99	9.882 1845	157	0.117 8155	9.900 4986	58	678	
323	9.782 6931	100	9.882 2002	157	0.117 7998	9.900 4928	58	677	
		99		157			57		
324	9.782 7030		9.882 2159		0.117 7841	9.900 4871		676	
325	9.782 7129	99	9.882 2317	158	0.117 7683	9.900 4813	58	675	
326	9.782 7229	100	9.882 2474	157	0.117 7526	9.900 4755	58	674	
		99		157			58		
327	9.782 7328		9.882 2631		0.117 7369	9.900 4697		673	
328	9.782 7428	100	9.882 2788	157	0.117 7212	9.900 4639	58	672	
329	9.782 7527	99	9.882 2945	157	0.117 7055	9.900 4582	57	671	
		99		158			58		
.330	9.782 7626		9.882 3103		0.117 6897	9.900 4524		.670	
		100		157			58		
331	9.782 7726		9.882 3260		0.117 6740	9.900 4466		669	
332	9.782 7825	99	9.882 3417	157	0.117 6583	9.900 4408	58	668	
333	9.782 7925	100	9.882 3574	157	0.117 6426	9.900 4350	58	667	
		99		157			57		
334	9.782 8024		9.882 3731		0.117 6269	9.900 4293		666	
335	9.782 8123	99	9.882 3889	158	0.117 6111	9.900 4235	58	665	
336	9.782 8223	100	9.882 4046	157	0.117 5954	9.900 4177	58	664	
		99		157			58		
337	9.782 8322		9.882 4203		0.117 5797	9.900 4119		663	
338	9.782 8422	100	9.882 4360	157	0.117 5640	9.900 4061	58	662	
339	9.782 8521	99	9.882 4517	157	0.117 5483	9.900 4003	58	661	
		99		158			57		
.340	9.782 8620		9.882 4675		0.117 5325	9.900 3946		.660	
		100		157			58		
341	9.782 8720		9.882 4832		0.117 5168	9.900 3888		659	
342	9.782 8819	99	9.882 4989	157	0.117 5011	9.900 3830	58	658	
343	9.782 8918	99	9.882 5146	157	0.117 4854	9.900 3772	58	657	
		100		157			58		
344	9.782 9018		9.882 5303		0.117 4697	9.900 3714		656	
345	9.782 9117	99	9.882 5460	157	0.117 4540	9.900 3657	57	655	
346	9.782 9216	99	9.882 5618	158	0.117 4382	9.900 3599	58	654	
		100		157			58		
347	9.782 9316		9.882 5775		0.117 4225	9.900 3541		653	
348	9.782 9415	99	9.882 5932	157	0.117 4068	9.900 3483	58	652	
349	9.782 9514	99	9.882 6089	157	0.117 3911	9.900 3425	58	651	
		100		157			58		
.350	9.782 9614		9.882 6246		0.117 3754	9.900 3367		.650	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	100	99
1	10.0	9.9
2	20.0	19.8
3	30.0	29.7
4	40.0	39.6
5	50.0	49.5
6	60.0	59.4
7	70.0	69.3
8	80.0	79.2
9	90.0	89.1

	58	57
1	5.8	5.7
2	11.6	11.4
3	17.4	17.1
4	23.2	22.8
5	29.0	28.5
6	34.8	34.2
7	40.6	39.9
8	46.4	45.6
9	52.2	51.3

52°.700 — 52°.650

37°.350 — 37°.400

37°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.782 9614		9.882 6246		0.117 3754	9.900 3367		**.650**	
		99		157			58		
351	9.782 9713		9.882 6403		0.117 3597	9.900 3309		649	
352	9.782 9812	99	9.882 6561	158	0.117 3439	9.900 3252	57	648	
353	9.782 9912	100	9.882 6718	157	0.117 3282	9.900 3194	58	647	
		99		157			58		
354	9.783 0011		9.882 6875		0.117 3125	9.900 3136		646	
355	9.783 0110	99	9.882 7032	157	0.117 2968	9.900 3078	58	645	
356	9.783 0209	99	9.882 7189	157	0.117 2811	9.900 3020	58	644	
		100		157			58		
357	9.783 0309		9.882 7346		0.117 2654	9.900 2962		643	
358	9.783 0408	99	9.882 7504	158	0.117 2496	9.900 2904	58	642	
359	9.783 0507	99	9.882 7661	157	0.117 2339	9.900 2847	57	641	
		100		157			58		
.360	9.783 0607		9.882 7818		0.117 2182	9.900 2789		**.640**	
		99		157			58		
361	9.783 0706		9.882 7975		0.117 2025	9.900 2731		639	
362	9.783 0805	99	9.882 8132	157	0.117 1868	9.900 2673	58	638	
363	9.783 0904	99	9.882 8289	157	0.117 1711	9.900 2615	58	637	
		100		158			58		
364	9.783 1004		9.882 8447		0.117 1553	9.900 2557		636	
365	9.783 1103	99	9.882 8604	157	0.117 1396	9.900 2499	58	635	
366	9.783 1202	99	9.882 8761	157	0.117 1239	9.900 2441	58	634	
		100		157			57		
367	9.783 1302		9.882 8918		0.117 1082	9.900 2384		633	
368	9.783 1401	99	9.882 9075	157	0.117 0925	9.900 2326	58	632	
369	9.783 1500	99	9.882 9232	157	0.117 0768	9.900 2268	58	631	
		99		157			58		
.370	9.783 1599		9.882 9389		0.117 0611	9.900 2210		**.630**	
		100		158			58		
371	9.783 1699		9.882 9547		0.117 0453	9.900 2152		629	
372	9.783 1798	99	9.882 9704	157	0.117 0296	9.900 2094	58	628	
373	9.783 1897	99	9.882 9861	157	0.117 0139	9.900 2036	58	627	
		99		157			58		
374	9.783 1996		9.883 0018		0.116 9982	9.900 1978		626	
375	9.783 2095	99	9.883 0175	157	0.116 9825	9.900 1920	58	625	
376	9.783 2195	100	9.883 0332	157	0.116 9668	9.900 1863	57	624	
		99		157			58		
377	9.783 2294		9.883 0489		0.116 9511	9.900 1805		623	
378	9.783 2393	99	9.883 0646	157	0.116 9354	9.900 1747	58	622	
379	9.783 2492	99	9.883 0804	158	0.116 9196	9.900 1689	58	621	
		100		157			58		
.380	9.783 2592		9.883 0961		0.116 9039	9.900 1631		**.620**	
		99		157			58		
381	9.783 2691		9.883 1118		0.116 8882	9.900 1573		619	
382	9.783 2790	99	9.883 1275	157	0.116 8725	9.900 1515	58	618	
383	9.783 2889	99	9.883 1432	157	0.116 8568	9.900 1457	58	617	
		99		157			58		
384	9.783 2988		9.883 1589		0.116 8411	9.900 1399		616	
385	9.783 3088	100	9.883 1746	157	0.116 8254	9.900 1341	58	615	
386	9.783 3187	99	9.883 1903	157	0.116 8097	9.900 1283	58	614	
		99		158			58		
387	9.783 3286		9.883 2061		0.116 7939	9.900 1225		613	
388	9.783 3385	99	9.883 2218	157	0.116 7782	9.900 1168	57	612	
389	9.783 3484	99	9.883 2375	157	0.116 7625	9.900 1110	58	611	
		100		157			58		
.390	9.783 3584		9.883 2532		0.116 7468	9.900 1052		**.610**	
		99		157			58		
391	9.783 3683		9.883 2689		0.116 7311	9.900 0994		609	
392	9.783 3782	99	9.883 2846	157	0.116 7154	9.900 0936	58	608	
393	9.783 3881	99	9.883 3003	157	0.116 6997	9.900 0878	58	607	
		99		157			58		
394	9.783 3980		9.883 3160		0.116 6840	9.900 0820		606	
395	9.783 4079	99	9.883 3317	157	0.116 6683	9.900 0762	58	605	
396	9.783 4179	100	9.883 3474	157	0.116 6526	9.900 0704	58	604	
		99		158			58		
397	9.783 4278		9.883 3632		0.116 6368	9.900 0646		603	
398	9.783 4377	99	9.883 3789	157	0.116 6211	9.900 0588	58	602	
399	9.783 4476	99	9.883 3946	157	0.116 6054	9.900 0530	58	601	
		99		157			58		
.400	9.783 4575		9.883 4103		0.116 5897	9.900 0472		**.600**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	100	99
1	10.0	9.9
2	20.0	19.8
3	30.0	29.7
4	40.0	39.6
5	50.0	49.5
6	60.0	59.4
7	70.0	69.3
8	80.0	79.2
9	90.0	89.1

	58	57
1	5.8	5.7
2	11.6	11.4
3	17.4	17.1
4	23.2	22.8
5	29.0	28.5
6	34.8	34.2
7	40.6	39.9
8	46.4	45.6
9	52.2	51.3

52°.650 — 52°.600

37°.400 — 37°.450

37°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.783 4575		9.883 4103		0.116 5897	9.900 0472		.600	
		99		157			58		
401	9.783 4674		9.883 4260		0.116 5740	9.900 0414		599	
402	9.783 4773	99	9.883 4417	157	0.116 5583	9.900 0356	58	598	
403	9.783 4873	100	9.883 4574	157	0.116 5426	9.900 0298	58	597	
		99		157			58		
404	9.783 4972		9.883 4731		0.116 5269	9.900 0240		596	
405	9.783 5071	99	9.883 4888	157	0.116 5112	9.900 0182	58	595	
406	9.783 5170	99	9.883 5045	157	0.116 4955	9.900 0125	57	594	
		99		157			58		
407	9.783 5269		9.883 5202		0.116 4798	9.900 0067		593	
408	9.783 5368	99	9.883 5360	158	0.116 4640	9.900 0009	58	592	
409	9.783 5467	99	9.883 5517	157	0.116 4483	9.899 9951	58	591	
		99		157			58		
.410	9.783 5566		9.883 5674		0.116 4326	9.899 9893		.590	
		99		157			58		
411	9.783 5665		9.883 5831		0.116 4169	9.899 9835		589	
412	9.783 5765	100	9.883 5988	157	0.116 4012	9.899 9777	58	588	
413	9.783 5864	99	9.883 6145	157	0.116 3855	9.899 9719	58	587	
		99		157			58		
414	9.783 5963		9.883 6302		0.116 3698	9.899 9661		586	
415	9.783 6062	99	9.883 6459	157	0.116 3541	9.899 9603	58	585	
416	9.783 6161	99	9.883 6616	157	0.116 3384	9.899 9545	58	584	
		99		157			58		
417	9.783 6260		9.883 6773		0.116 3227	9.899 9487		583	
418	9.783 6359	99	9.883 6930	157	0.116 3070	9.899 9429	58	582	
419	9.783 6458	99	9.883 7087	157	0.116 2913	9.899 9371	58	581	
		99		157			58		
.420	9.783 6557		9.883 7244		0.116 2756	9.899 9313		.580	
		99		157			58		
421	9.783 6656		9.883 7401		0.116 2599	9.899 9255		579	
422	9.783 6755	99	9.883 7559	158	0.116 2441	9.899 9197	58	578	
423	9.783 6854	99	9.883 7716	157	0.116 2284	9.899 9139	58	577	
		99		157			58		
424	9.783 6953		9.883 7873		0.116 2127	9.899 9081		576	
425	9.783 7053	100	9.883 8030	157	0.116 1970	9.899 9023	58	575	
426	9.783 7152	99	9.883 8187	157	0.116 1813	9.899 8965	58	574	
		99		157			58		
427	9.783 7251		9.883 8344		0.116 1656	9.899 8907		573	
428	9.783 7350	99	9.883 8501	157	0.116 1499	9.899 8849	58	572	
429	9.783 7449	99	9.883 8658	157	0.116 1342	9.899 8791	58	571	
		99		157			58		
.430	9.783 7548		9.883 8815		0.116 1185	9.899 8733		.570	
		99		157			58		
431	9.783 7647		9.883 8972		0.116 1028	9.899 8675		569	
432	9.783 7746	99	9.883 9129	157	0.116 0871	9.899 8617	58	568	
433	9.783 7845	99	9.883 9286	157	0.116 0714	9.899 8559	58	567	
		99		157			58		
434	9.783 7944		9.883 9443		0.116 0557	9.899 8501		566	
435	9.783 8043	99	9.883 9600	157	0.116 0400	9.899 8443	58	565	
436	9.783 8142	99	9.883 9757	157	0.116 0243	9.899 8385	58	564	
		99		157			58		
437	9.783 8241		9.883 9914		0.116 0086	9.899 8327		563	
438	9.783 8340	99	9.884 0071	157	0.115 9929	9.899 8269	58	562	
439	9.783 8439	99	9.884 0228	157	0.115 9772	9.899 8211	58	561	
		99		157			58		
.440	9.783 8538		9.884 0385		0.115 9615	9.899 8153		.560	
		99		157			59		
441	9.783 8637		9.884 0542		0.115 9458	9.899 8094		559	
442	9.783 8736	99	9.884 0699	157	0.115 9301	9.899 8036	58	558	
443	9.783 8835	99	9.884 0856	157	0.115 9144	9.899 7978	58	557	
		99		157			58		
444	9.783 8934		9.884 1013		0.115 8987	9.899 7920		556	
445	9.783 9033	99	9.884 1171	158	0.115 8829	9.899 7862	58	555	
446	9.783 9132	99	9.884 1328	157	0.115 8672	9.899 7804	58	554	
		99		157			58		
447	9.783 9231		9.884 1485		0.115 8515	9.899 7746		553	
448	9.783 9330	99	9.884 1642	157	0.115 8358	9.899 7688	58	552	
449	9.783 9429	99	9.884 1799	157	0.115 8201	9.899 7630	58	551	
		99		157			58		
.450	9.783 9528		9.884 1956		0.115 8044	9.899 7572		.550	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	158	157
1	15.8	15.7
2	31.6	31.4
3	47.4	47.1
4	63.2	62.8
5	79.0	78.5
6	94.8	94.2
7	110.6	109.9
8	126.4	125.6
9	142.2	141.3

	100	99
1	10.0	9.9
2	20.0	19.8
3	30.0	29.7
4	40.0	39.6
5	50.0	49.5
6	60.0	59.4
7	70.0	69.3
8	80.0	79.2
9	90.0	89.1

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

	57
1	5.7
2	11.4
3	17.1
4	22.8
5	28.5
6	34.2
7	39.9
8	45.6
9	51.3

52°.600 — 52°.550

37°.450 — 37°.500

37°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.783 9528		9.884 1956		0.115 8044	9.899 7572		**.550**	
		99		157			58		
451	9.783 9627		9.884 2113		0.115 7887	9.899 7514		549	
452	9.783 9726	99	9.884 2270	157	0.115 7730	9.899 7456	58	548	
453	9.783 9825	99	9.884 2427	157	0.115 7573	9.899 7398	58	547	
		98		157			58		
454	9.783 9923		9.884 2584		0.115 7416	9.899 7340		546	
455	9.784 0022	99	9.884 2741	157	0.115 7259	9.899 7282	58	545	
456	9.784 0121	99	9.884 2898	157	0.115 7102	9.899 7224	58	544	
		99		157			58		
457	9.784 0220		9.884 3055		0.115 6945	9.899 7166		543	
458	9.784 0319	99	9.884 3212	157	0.115 6788	9.899 7108	58	542	
459	9.784 0418	99	9.884 3369	157	0.115 6631	9.899 7049	59	541	
		99		157			58		
.460	9.784 0517		9.884 3526		0.115 6474	9.899 6991		**.540**	
		99		157			58		
461	9.784 0616		9.884 3683		0.115 6317	9.899 6933		539	
462	9.784 0715	99	9.884 3840	157	0.115 6160	9.899 6875	58	538	
463	9.784 0814	99	9.884 3997	157	0.115 6003	9.899 6817	58	537	
		99		157			58		
464	9.784 0913		9.884 4154		0.115 5846	9.899 6759		536	
465	9.784 1012	99	9.884 4311	157	0.115 5689	9.899 6701	58	535	
466	9.784 1111	99	9.884 4468	157	0.115 5532	9.899 6643	58	534	
		99		157			58		
467	9.784 1210		9.884 4625		0.115 5375	9.899 6585		533	
468	9.784 1308	98	9.884 4782	157	0.115 5218	9.899 6527	58	532	
469	9.784 1407	99	9.884 4939	157	0.115 5061	9.899 6469	58	531	
		99		157			59		
.470	9.784 1506		9.884 5096		0.115 4904	9.899 6410		**.530**	
		99		157			58		
471	9.784 1605		9.884 5253		0.115 4747	9.899 6352		529	
472	9.784 1704	99	9.884 5410	157	0.115 4590	9.899 6294	58	528	
473	9.784 1803	99	9.884 5567	157	0.115 4433	9.899 6236	58	527	
		99		157			58		
474	9.784 1902		9.884 5724		0.115 4276	9.899 6178		526	
475	9.784 2001	99	9.884 5881	157	0.115 4119	9.899 6120	58	525	
476	9.784 2099	98	9.884 6038	157	0.115 3962	9.899 6062	58	524	
		99		157			58		
477	9.784 2198		9.884 6195		0.115 3805	9.899 6004		523	
478	9.784 2297	99	9.884 6352	157	0.115 3648	9.899 5946	58	522	
479	9.784 2396	99	9.884 6509	157	0.115 3491	9.899 5887	59	521	
		99		157			58		
.480	9.784 2495		9.884 6666		0.115 3334	9.899 5829		**.520**	
		99		157			58		
481	9.784 2594		9.884 6823		0.115 3177	9.899 5771		519	
482	9.784 2693	99	9.884 6979	156	0.115 3021	9.899 5713	58	518	
483	9.784 2791	98	9.884 7136	157	0.115 2864	9.899 5655	58	517	
		99		157			58		
484	9.784 2890		9.884 7293		0.115 2707	9.899 5597		516	
485	9.784 2989	99	9.884 7450	157	0.115 2550	9.899 5539	58	515	
486	9.784 3088	99	9.884 7607	157	0.115 2393	9.899 5481	58	514	
		99		157			59		
487	9.784 3187		9.884 7764		0.115 2236	9.899 5422		513	
488	9.784 3286	99	9.884 7921	157	0.115 2079	9.899 5364	58	512	
489	9.784 3384	98	9.884 8078	157	0.115 1922	9.899 5306	58	511	
		99		157			58		
.490	9.784 3483		9.884 8235		0.115 1765	9.899 5248		**.510**	
		99		157			58		
491	9.784 3582		9.884 8392		0.115 1608	9.899 5190		509	
492	9.784 3681	99	9.884 8549	157	0.115 1451	9.899 5132	58	508	
493	9.784 3780	99	9.884 8706	157	0.115 1294	9.899 5074	58	507	
		99		157			59		
494	9.784 3879		9.884 8863		0.115 1137	9.899 5015		506	
495	9.784 3977	98	9.884 9020	157	0.115 0980	9.899 4957	58	505	
496	9.784 4076	99	9.884 9177	157	0.115 0823	9.899 4899	58	504	
		99		157			58		
497	9.784 4175		9.884 9334		0.115 0666	9.899 4841		503	
498	9.784 4274	99	9.884 9491	157	0.115 0509	9.899 4783	58	502	
499	9.784 4372	98	9.884 9648	157	0.115 0352	9.899 4725	58	501	
		99		157			58		
.500	9.784 4471		9.884 9805		0.115 0195	9.899 4667		**.500**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	99	98
1	9.9	9.8
2	19.8	19.6
3	29.7	29.4
4	39.6	39.2
5	49.5	49.0
6	59.4	58.8
7	69.3	68.6
8	79.2	78.4
9	89.1	88.2

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

52°.550 — 52°.500

37°.500 — 37°.550

37°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.784 4471		9.884 9805		0.115 0195	9.899 4667		.500	
		99		157			59		
501	9.784 4570		9.884 9962		0.115 0038	9.899 4608		499	
502	9.784 4669	99	9.885 0119	157	0.114 9881	9.899 4550	58	498	
503	9.784 4768	99	9.885 0276	157	0.114 9724	9.899 4492	58	497	
		98		157			58		
504	9.784 4866		9.885 0433		0.114 9567	9.899 4434		496	
505	9.784 4965	99	9.885 0589	156	0.114 9411	9.899 4376	58	495	
506	9.784 5064	99	9.885 0746	157	0.114 9254	9.899 4318	58	494	
		99		157			59		
507	9.784 5163		9.885 0903		0.114 9097	9.899 4259		493	
508	9.784 5261	98	9.885 1060	157	0.114 8940	9.899 4201	58	492	
509	9.784 5360	99	9.885 1217	157	0.114 8783	9.899 4143	58	491	
		99		157			58		
.510	9.784 5459		9.885 1374		0.114 8626	9.899 4085		.490	
		99		157			58		
511	9.784 5558		9.885 1531		0.114 8469	9.899 4027		489	
512	9.784 5656	98	9.885 1688	157	0.114 8312	9.899 3968	59	488	
513	9.784 5755	99	9.885 1845	157	0.114 8155	9.899 3910	58	487	
		99		157			58		
514	9.784 5854		9.885 2002		0.114 7998	9.899 3852		486	
515	9.784 5953	99	9.885 2159	157	0.114 7841	9.899 3794	58	485	
516	9.784 6051	98	9.885 2316	157	0.114 7684	9.899 3736	58	484	
		99		157			59		
517	9.784 6150		9.885 2473		0.114 7527	9.899 3677		483	
518	9.784 6249	99	9.885 2630	157	0.114 7370	9.899 3619	58	482	
519	9.784 6348	99	9.885 2786	156	0.114 7214	9.899 3561	58	481	
		98		157			58		
.520	9.784 6446		9.885 2943		0.114 7057	9.899 3503		.480	
		99		157			58		
521	9.784 6545		9.885 3100		0.114 6900	9.899 3445		479	
522	9.784 6644	99	9.885 3257	157	0.114 6743	9.899 3386	59	478	
523	9.784 6742	98	9.885 3414	157	0.114 6586	9.899 3328	58	477	
		99		157			58		
524	9.784 6841		9.885 3571		0.114 6429	9.899 3270		476	
525	9.784 6940	99	9.885 3728	157	0.114 6272	9.899 3212	58	475	
526	9.784 7038	98	9.885 3885	157	0.114 6115	9.899 3154	58	474	
		99		157			59		
527	9.784 7137		9.885 4042		0.114 5958	9.899 3095		473	
528	9.784 7236	99	9.885 4199	157	0.114 5801	9.899 3037	58	472	
529	9.784 7334	98	9.885 4356	157	0.114 5644	9.899 2979	58	471	
		99		156			58		
.530	9.784 7433		9.885 4512		0.114 5488	9.899 2921		.470	
		99		157			58		
531	9.784 7532		9.885 4669		0.114 5331	9.899 2863		469	
532	9.784 7631	99	9.885 4826	157	0.114 5174	9.899 2804	59	468	
533	9.784 7729	98	9.885 4983	157	0.114 5017	9.899 2746	58	467	
		99		157			58		
534	9.784 7828		9.885 5140		0.114 4860	9.899 2688		466	
535	9.784 7926	98	9.885 5297	157	0.114 4703	9.899 2630	58	465	
536	9.784 8025	99	9.885 5454	157	0.114 4546	9.899 2571	59	464	
		99		157			58		
537	9.784 8124		9.885 5611		0.114 4389	9.899 2513		463	
538	9.784 8222	98	9.885 5768	157	0.114 4232	9.899 2455	58	462	
539	9.784 8321	99	9.885 5924	156	0.114 4076	9.899 2397	58	461	
		99		157			59		
.540	9.784 8420		9.885 6081		0.114 3919	9.899 2338		.460	
		98		157			58		
541	9.784 8518		9.885 6238		0.114 3762	9.899 2280		459	
542	9.784 8617	99	9.885 6395	157	0.114 3605	9.899 2222	58	458	
543	9.784 8716	99	9.885 6552	157	0.114 3448	9.899 2164	58	457	
		98		157			59		
544	9.784 8814		9.885 6709		0.114 3291	9.899 2105		456	
545	9.784 8913	99	9.885 6866	157	0.114 3134	9.899 2047	58	455	
546	9.784 9012	99	9.885 7023	157	0.114 2977	9.899 1989	58	454	
		98		157			58		
547	9.784 9110		9.885 7180		0.114 2820	9.899 1931		453	
548	9.784 9209	99	9.885 7336	156	0.114 2664	9.899 1872	59	452	
549	9.784 9307	98	9.885 7493	157	0.114 2507	9.899 1814	58	451	
		99		157			58		
.550	9.784 9406		9.885 7650		0.114 2350	9.899 1756		.450	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	99	98
1	9.9	9.8
2	19.8	19.6
3	29.7	29.4
4	39.6	39.2
5	49.5	49.0
6	59.4	58.8
7	69.3	68.6
8	79.2	78.4
9	89.1	88.2

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

52°.500 — 52°.450

37°.550 — 37°.600

37°	sin	d	tang	d	cotg	cos	d		P.P.
·550	9.784 9406		9.885 7650		0.114 2350	9.899 1756		**·450**	
		99		157			58		
551	9.784 9505		9.885 7807		0.114 2193	9.899 1698		449	
552	9.784 9603	98	9.885 7964	157	0.114 2036	9.899 1639	59	448	
553	9.784 9702	99	9.885 8121	157	0.114 1879	9.899 1581	58	447	
		98		157			58		
554	9.784 9800		9.885 8278		0.114 1722	9.899 1523		446	
555	9.784 9899	99	9.885 8435	157	0.114 1565	9.899 1464	59	445	
556	9.784 9998	99	9.885 8591	156	0.114 1409	9.899 1406	58	444	
		98		157			58		
557	9.785 0096		9.885 8748		0.114 1252	9.899 1348		443	
558	9.785 0195	99	9.885 8905	157	0.114 1095	9.899 1290	58	442	
559	9.785 0293	98	9.885 9062	157	0.114 0938	9.899 1231	59	441	
		99		157			58		
·560	9.785 0392		9.885 9219		0.114 0781	9.899 1173		**·440**	
		98		157			58		
561	9.785 0490		9.885 9376		0.114 0624	9.899 1115		439	
562	9.785 0589	99	9.885 9533	157	0.114 0467	9.899 1056	59	438	
563	9.785 0688	99	9.885 9689	156	0.114 0311	9.899 0998	58	437	
		98		157			58		
564	9.785 0786		9.885 9846		0.114 0154	9.899 0940		436	
565	9.785 0885	99	9.886 0003	157	0.113 9997	9.899 0882	58	435	
566	9.785 0983	98	9.886 0160	157	0.113 9840	9.899 0823	59	434	
		99		157			58		
567	9.785 1082		9.886 0317		0.113 9683	9.899 0765		433	
568	9.785 1180	98	9.886 0474	157	0.113 9526	9.899 0707	58	432	
569	9.785 1279	99	9.886 0630	156	0.113 9370	9.899 0648	59	431	
		98		157			58		
·570	9.785 1377		9.886 0787		0.113 9213	9.899 0590		**·430**	
		99		157			58		
571	9.785 1476		9.886 0944		0.113 9056	9.899 0532		429	
572	9.785 1574	98	9.886 1101	157	0.113 8899	9.899 0473	59	428	
573	9.785 1673	99	9.886 1258	157	0.113 8742	9.899 0415	58	427	
		98		157			58		
574	9.785 1771		9.886 1415		0.113 8585	9.899 0357		426	
575	9.785 1870	99	9.886 1572	157	0.113 8428	9.899 0298	59	425	
576	9.785 1968	98	9.886 1728	156	0.113 8272	9.899 0240	58	424	
		99		157			58		
577	9.785 2067		9.886 1885		0.113 8115	9.899 0182		423	
578	9.785 2165	98	9.886 2042	157	0.113 7958	9.899 0123	59	422	
579	9.785 2264	99	9.886 2199	157	0.113 7801	9.899 0065	58	421	
		98		157			58		
·580	9.785 2362		9.886 2356		0.113 7644	9.899 0007		**·420**	
		99		156			59		
581	9.785 2461		9.886 2512		0.113 7488	9.898 9948		419	
582	9.785 2559	98	9.886 2669	157	0.113 7331	9.898 9890	58	418	
583	9.785 2658	99	9.886 2826	157	0.113 7174	9.898 9832	58	417	
		98		157			59		
584	9.785 2756		9.886 2983		0.113 7017	9.898 9773		416	
585	9.785 2855	99	9.886 3140	157	0.113 6860	9.898 9715	58	415	
586	9.785 2953	98	9.886 3297	157	0.113 6703	9.898 9657	58	414	
		99		156			59		
587	9.785 3052		9.886 3453		0.113 6547	9.898 9598		413	
588	9.785 3150	98	9.886 3610	157	0.113 6390	9.898 9540	58	412	
589	9.785 3249	99	9.886 3767	157	0.113 6233	9.898 9482	58	411	
		98		157			59		
·590	9.785 3347		9.886 3924		0.113 6076	9.898 9423		**·410**	
		99		157			58		
591	9.785 3446		9.886 4081		0.113 5919	9.898 9365		409	
592	9.785 3544	98	9.886 4238	157	0.113 5762	9.898 9307	58	408	
593	9.785 3643	99	9.886 4394	156	0.113 5606	9.898 9248	59	407	
		98		157			58		
594	9.785 3741		9.886 4551		0.113 5449	9.898 9190		406	
595	9.785 3840	99	9.886 4708	157	0.113 5292	9.898 9132	58	405	
596	9.785 3938	98	9.886 4865	157	0.113 5135	9.898 9073	59	404	
		98		157			58		
597	9.785 4036		9.886 5022		0.113 4978	9.898 9015		403	
598	9.785 4135	99	9.886 5178	156	0.113 4822	9.898 8957	58	402	
599	9.785 4233	98	9.886 5335	157	0.113 4665	9.898 8898	59	401	
		99		157			58		
.600	9.785 4332		9.886 5492		0.113 4508	9.898 8840		**·400**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	99	98
1	9.9	9.8
2	19.8	19.6
3	29.7	29.4
4	39.6	39.2
5	49.5	49.0
6	59.4	58.8
7	69.3	68.6
8	79.2	78.4
9	89.1	88.2

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

52°.450 — 52°.400

37°.600 — 37°.650

37°	sin	d	tang	d	cotg	cos	d		P.P.		
.600	9.785 4332		9.886 5492		0.113 4508	9.898 8840		**.400**			
		98		157			59				
601	9.785 4430		9.886 5649		0.113 4351	9.898 8781		399			
602	9.785 4529	99	9.886 5806	157	0.113 4194	9.898 8723	58	398			
603	9.785 4627	98	9.886 5962	156	0.113 4038	9.898 8665	58	397			
		98		157			59				
604	9.785 4725		9.886 6119		0.113 3881	9.898 8606		396			
605	9.785 4824	99	9.886 6276	157	0.113 3724	9.898 8548	58	395			
606	9.785 4922	98	9.886 6433	157	0.113 3567	9.898 8490	58	394			
		99		157			59				
607	9.785 5021		9.886 6590		0.113 3410	9.898 8431		393			
608	9.785 5119	98	9.886 6746	156	0.113 3254	9.898 8373	58	392			
609	9.785 5217	98	9.886 6903	157	0.113 3097	9.898 8314	59	391			
		99		157			58				
.610	9.785 5316		9.886 7060		0.113 2940	9.898 8256		**.390**			
		98		157			58				
611	9.785 5414		9.886 7217		0.113 2783	9.898 8198		389			
612	9.785 5513	99	9.886 7373	156	0.113 2627	9.898 8139	59	388			
613	9.785 5611	98	9.886 7530	157	0.113 2470	9.898 8081	58	387			
		98		157			59				
614	9.785 5709		9.886 7687		0.113 2313	9.898 8022		386			
615	9.785 5808	99	9.886 7844	157	0.113 2156	9.898 7964	58	385			
616	9.785 5906	98	9.886 8001	157	0.113 1999	9.898 7906	58	384			
		98		156			59				
617	9.785 6004		9.886 8157		0.113 1843	9.898 7847		383			
618	9.785 6103	99	9.886 8314	157	0.113 1686	9.898 7789	58	382			
619	9.785 6201	98	9.886 8471	157	0.113 1529	9.898 7730	59	381			
		99		157			58				
.620	9.785 6300		9.886 8628		0.113 1372	9.898 7672		**.380**			
		98		156			59				
621	9.785 6398		9.886 8784		0.113 1216	9.898 7613		379		99	98
622	9.785 6496	98	9.886 8941	157	0.113 1059	9.898 7555	58	378			
623	9.785 6595	99	9.886 9098	157	0.113 0902	9.898 7497	58	377	1	9.9	9.8
		98		157			59		2	19.8	19.6
624	9.785 6693		9.886 9255		0.113 0745	9.898 7438		376	3	29.7	29.4
625	9.785 6791	98	9.886 9411	156	0.113 0589	9.898 7380	58	375	4	39.6	39.2
626	9.785 6890	99	9.886 9568	157	0.113 0432	9.898 7321	59	374	5	49.5	49.0
		98		157			58		6	59.4	58.8
627	9.785 6988		9.886 9725		0.113 0275	9.898 7263		373	7	69.3	68.6
628	9.785 7086	98	9.886 9882	157	0.113 0118	9.898 7205	58	372	8	79.2	78.4
629	9.785 7185	99	9.887 0039	157	0.112 9961	9.898 7146	59	371	9	89.1	88.2
		98		156			58				
.630	9.785 7283		9.887 0195		0.112 9805	9.898 7088		**.370**			
		98		157			59				
631	9.785 7381		9.887 0352		0.112 9648	9.898 7029		369			
632	9.785 7480	99	9.887 0509	157	0.112 9491	9.898 6971	58	368			
633	9.785 7578	98	9.887 0666	157	0.112 9334	9.898 6912	59	367			
		98		156			58				
634	9.785 7676		9.887 0822		0.112 9178	9.898 6854		366			
635	9.785 7774	98	9.887 0979	157	0.112 9021	9.898 6795	59	365			
636	9.785 7873	99	9.887 1136	157	0.112 8864	9.898 6737	58	364		59	58
		98		157			58				
637	9.785 7971		9.887 1293		0.112 8707	9.898 6679		363	1	5.9	5.8
638	9.785 8069	98	9.887 1449	156	0.112 8551	9.898 6620	59	362	2	11.8	11.6
639	9.785 8168	99	9.887 1606	157	0.112 8394	9.898 6562	58	361	3	17.7	17.4
		98		157			59		4	23.6	23.2
.640	9.785 8266		9.887 1763		0.112 8237	9.898 6503		**.360**	5	29.5	29.0
		98		157			58		6	35.4	34.8
641	9.785 8364		9.887 1920		0.112 8080	9.898 6445		359	7	41.3	40.6
642	9.785 8463	99	9.887 2076	156	0.112 7924	9.898 6386	59	358	8	47.2	46.4
643	9.785 8561	98	9.887 2233	157	0.112 7767	9.898 6328	58	357	9	53.1	52.2
		98		157			59				
644	9.785 8659		9.887 2390		0.112 7610	9.898 6269		356			
645	9.785 8757	98	9.887 2546	156	0.112 7454	9.898 6211	58	355			
646	9.785 8856	99	9.887 2703	157	0.112 7297	9.898 6152	59	354			
		98		157			58				
647	9.785 8954		9.887 2860		0.112 7140	9.898 6094		353			
648	9.785 9052	98	9.887 3017	157	0.112 6983	9.898 6035	59	352			
649	9.785 9150	98	9.887 3173	156	0.112 6827	9.898 5977	58	351			
		99		157			58				
.650	9.785 9249		9.887 3330		0.112 6670	9.898 5919		**.350**			
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.		

52°.400 — 52°.350

37°.650 — 37°.700

37°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.785 9249		9.887 3330		0.112 6670	9.898 5919		**.350**	
		98		157			59		
651	9.785 9347		9.887 3487		0.112 6513	9.898 5860		349	
652	9.785 9445	98	9.887 3644	157	0.112 6356	9.898 5802	58	348	
653	9.785 9543	98	9.887 3800	156	0.112 6200	9.898 5743	59	347	
		99		157			58		
654	9.785 9642		9.887 3957		0.112 6043	9.898 5685		346	
655	9.785 9740	98	9.887 4114	157	0.112 5886	9.898 5626	59	345	
656	9.785 9838	98	9.887 4270	156	0.112 5730	9.898 5568	58	344	
		98		157			59		
657	9.785 9936		9.887 4427		0.112 5573	9.898 5509		343	
658	9.786 0035	99	9.887 4584	157	0.112 5416	9.898 5451	58	342	
659	9.786 0133	98	9.887 4741	157	0.112 5259	9.898 5392	59	341	
		98		156			58		
.660	9.786 0231		9.887 4897		0.112 5103	9.898 5334		**.340**	
		98		157			59		
661	9.786 0329		9.887 5054		0.112 4946	9.898 5275		339	
662	9.786 0427	98	9.887 5211	157	0.112 4789	9.898 5217	58	338	
663	9.786 0526	99	9.887 5367	156	0.112 4633	9.898 5158	59	337	
		98		157			58		
664	9.786 0624		9.887 5524		0.112 4476	9.898 5100		336	
665	9.786 0722	98	9.887 5681	157	0.112 4319	9.898 5041	59	335	
666	9.786 0820	98	9.887 5838	157	0.112 4162	9.898 4983	58	334	
		98		156			59		
667	9.786 0918		9.887 5994		0.112 4006	9.898 4924		333	
668	9.786 1017	99	9.887 6151	157	0.112 3849	9.898 4866	58	332	
669	9.786 1115	98	9.887 6308	157	0.112 3692	9.898 4807	59	331	
		98		156			58		
.670	9.786 1213		9.887 6464		0.112 3536	9.898 4749		**.330**	
		98		157			59		
671	9.786 1311		9.887 6621		0.112 3379	9.898 4690		329	
672	9.786 1409	98	9.887 6778	157	0.112 3222	9.898 4631	59	328	
673	9.786 1507	98	9.887 6934	156	0.112 3066	9.898 4573	58	327	
		99		157			59		
674	9.786 1606		9.887 7091		0.112 2909	9.898 4514		326	
675	9.786 1704	98	9.887 7248	157	0.112 2752	9.898 4456	58	325	
676	9.786 1802	98	9.887 7405	157	0.112 2595	9.898 4397	59	324	
		98		156			58		
677	9.786 1900		9.887 7561		0.112 2439	9.898 4339		323	
678	9.786 1998	98	9.887 7718	157	0.112 2282	9.898 4280	59	322	
679	9.786 2096	98	9.887 7875	157	0.112 2125	9.898 4222	58	321	
		99		156			59		
.680	9.786 2195		9.887 8031		0.112 1969	9.898 4163		**.320**	
		98		157			58		
681	9.786 2293		9.887 8188		0.112 1812	9.898 4105		319	
682	9.786 2391	98	9.887 8345	157	0.112 1655	9.898 4046	59	318	
683	9.786 2489	98	9.887 8501	156	0.112 1499	9.898 3988	58	317	
		98		157			59		
684	9.786 2587		9.887 8658		0.112 1342	9.898 3929		316	
685	9.786 2685	98	9.887 8815	157	0.112 1185	9.898 3870	59	315	
686	9.786 2783	98	9.887 8971	156	0.112 1029	9.898 3812	58	314	
		98		157			59		
687	9.786 2881		9.887 9128		0.112 0872	9.898 3753		313	
688	9.786 2980	99	9.887 9285	157	0.112 0715	9.898 3695	58	312	
689	9.786 3078	98	9.887 9441	156	0.112 0559	9.898 3636	59	311	
		98		157			58		
.690	9.786 3176		9.887 9598		0.112 0402	9.898 3578		**.310**	
		98		157			59		
691	9.786 3274		9.887 9755		0.112 0245	9.898 3519		309	
692	9.786 3372	98	9.887 9911	156	0.112 0089	9.898 3461	58	308	
693	9.786 3470	98	9.888 0068	157	0.111 9932	9.898 3402	59	307	
		98		157			59		
694	9.786 3568		9.888 0225		0.111 9775	9.898 3343		306	
695	9.786 3666	98	9.888 0381	156	0.111 9619	9.898 3285	58	305	
696	9.786 3764	98	9.888 0538	157	0.111 9462	9.898 3226	59	304	
		98		157			58		
697	9.786 3862		9.888 0695		0.111 9305	9.898 3168		303	
698	9.786 3961	99	9.888 0851	156	0.111 9149	9.898 3109	59	302	
699	9.786 4059	98	9.888 1008	157	0.111 8992	9.898 3051	58	301	
		98		157			59		
.700	9.786 4157		9.888 1165		0.111 8835	9.898 2992		**.300**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	99	98
1	9.9	9.8
2	19.8	19.6
3	29.7	29.4
4	39.6	39.2
5	49.5	49.0
6	59.4	58.8
7	69.3	68.6
8	79.2	78.4
9	89.1	88.2

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

52°.350 — 52°.300

37°.700 — 37°.750

37°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.786 4157		9.888 1165		0.111 8835	9.898 2992		**.300**	
		98		156			59		
701	9.786 4255		9.888 1321		0.111 8679	9.898 2933		299	
702	9.786 4353	98	9.888 1478	157	0.111 8522	9.898 2875	58	298	
703	9.786 4451	98	9.888 1635	157	0.111 8365	9.898 2816	59	297	
		98		156			58		
704	9.786 4549		9.888 1791		0.111 8209	9.898 2758		296	
705	9.786 4647	98	9.888 1948	157	0.111 8052	9.898 2699	59	295	
706	9.786 4745	98	9.888 2105	157	0.111 7895	9.898 2640	59	294	
		98		156			58		
707	9.786 4843		9.888 2261		0.111 7739	9.898 2582		293	
708	9.786 4941	98	9.888 2418	157	0.111 7582	9.898 2523	59	292	
709	9.786 5039	98	9.888 2575	157	0.111 7425	9.898 2465	58	291	
		98		156			59		
.710	9.786 5137		9.888 2731		0.111 7269	9.898 2406		**.290**	
		98		157			59		
711	9.786 5235		9.888 2888		0.111 7112	9.898 2347		289	
712	9.786 5333	98	9.888 3044	156	0.111 6956	9.898 2289	58	288	
713	9.786 5431	98	9.888 3201	157	0.111 6799	9.898 2230	59	287	
		98		157			58		
714	9.786 5529		9.888 3358		0.111 6642	9.898 2172		286	
715	9.786 5627	98	9.888 3514	156	0.111 6486	9.898 2113	59	285	
716	9.786 5725	98	9.888 3671	157	0.111 6329	9.898 2054	59	284	
		98		157			58		
717	9.786 5823		9.888 3828		0.111 6172	9.898 1996		283	
718	9.786 5921	98	9.888 3984	156	0.111 6016	9.898 1937	59	282	
719	9.786 6019	98	9.888 4141	157	0.111 5859	9.898 1878	59	281	
		98		157			58		
.720	9.786 6117		9.888 4298		0.111 5702	9.898 1820		**.280**	
		98		156			59		
721	9.786 6215		9.888 4454		0.111 5546	9.898 1761		279	
722	9.786 6313	98	9.888 4611	157	0.111 5389	9.898 1703	58	278	
723	9.786 6411	98	9.888 4767	156	0.111 5233	9.898 1644	59	277	
		98		157			59		
724	9.786 6509		9.888 4924		0.111 5076	9.898 1585		276	
725	9.786 6607	98	9.888 5081	157	0.111 4919	9.898 1527	58	275	
726	9.786 6705	98	9.888 5237	156	0.111 4763	9.898 1468	59	274	
		98		157			59		
727	9.786 6803		9.888 5394		0.111 4606	9.898 1409		273	
728	9.786 6901	98	9.888 5551	157	0.111 4449	9.898 1351	58	272	
729	9.786 6999	98	9.888 5707	156	0.111 4293	9.898 1292	59	271	
		98		157			59		
.730	9.786 7097		9.888 5864		0.111 4136	9.898 1233		**.270**	
		98		156			58		
731	9.786 7195		9.888 6020		0.111 3980	9.898 1175		269	
732	9.786 7293	98	9.888 6177	157	0.111 3823	9.898 1116	59	268	
733	9.786 7391	98	9.888 6334	157	0.111 3666	9.898 1058	58	267	
		98		156			59		
734	9.786 7489		9.888 6490		0.111 3510	9.898 0999		266	
735	9.786 7587	98	9.888 6647	157	0.111 3353	9.898 0940	59	265	
736	9.786 7685	98	9.888 6803	156	0.111 3197	9.898 0882	58	264	
		98		157			59		
737	9.786 7783		9.888 6960		0.111 3040	9.898 0823		263	
738	9.786 7881	98	9.888 7117	157	0.111 2883	9.898 0764	59	262	
739	9.786 7979	98	9.888 7273	156	0.111 2727	9.898 0706	58	261	
		98		157			59		
.740	9.786 8077		9.888 7430		0.111 2570	9.898 0647		**.260**	
		98		156			59		
741	9.786 8175		9.888 7586		0.111 2414	9.898 0588		259	
742	9.786 8273	98	9.888 7743	157	0.111 2257	9.898 0530	58	258	
743	9.786 8370	97	9.888 7900	157	0.111 2100	9.898 0471	59	257	
		98		156			59		
744	9.786 8468		9.888 8056		0.111 1944	9.898 0412		256	
745	9.786 8566	98	9.888 8213	157	0.111 1787	9.898 0354	58	255	
746	9.786 8664	98	9.888 8369	156	0.111 1631	9.898 0295	59	254	
		98		157			59		
747	9.786 8762		9.888 8526		0.111 1474	9.898 0236		253	
748	9.786 8860	98	9.888 8683	157	0.111 1317	9.898 0177	59	252	
749	9.786 8958	98	9.888 8839	156	0.111 1161	9.898 0119	58	251	
		98		157			59		
.750	9.786 9056		9.888 8996		0.111 1004	9.898 0060		**.250**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	98	97
1	9.8	9.7
2	19.6	19.4
3	29.4	29.1
4	39.2	38.8
5	49.0	48.5
6	58.8	58.2
7	68.6	67.9
8	78.4	77.6
9	88.2	87.3

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

52°.300 — 52°.250

37°.750 — 37°.800

37°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.786 9056		9.888 8996		0.111 1004	9.898 0060		.250	
		98		156			59		
751	9.786 9154		9.888 9152		0.111 0848	9.898 0001		249	
752	9.786 9252	98	9.888 9309	157	0.111 0691	9.897 9943	58	248	
753	9.786 9350	98	9.888 9465	156	0.111 0535	9.897 9884	59	247	
		97		157			59		
754	9.786 9447		9.888 9622		0.111 0378	9.897 9825		246	
755	9.786 9545	98	9.888 9779	157	0.111 0221	9.897 9767	58	245	
756	9.786 9643	98	9.888 9935	156	0.111 0065	9.897 9708	59	244	
		98		157			59		
757	9.786 9741		9.889 0092		0.110 9908	9.897 9649		243	
758	9.786 9839	98	9.889 0248	156	0.110 9752	9.897 9591	58	242	
759	9.786 9937	98	9.889 0405	157	0.110 9595	9.897 9532	59	241	
		98		156			59		
.760	9.787 0035		9.889 0561		0.110 9439	9.897 9473		.240	
		97		157			59		
761	9.787 0132		9.889 0718		0.110 9282	9.897 9414		239	
762	9.787 0230	98	9.889 0875	157	0.110 9125	9.897 9356	58	238	
763	9.787 0328	98	9.889 1031	156	0.110 8969	9.897 9297	59	237	
		98		157			59		
764	9.787 0426		9.889 1188		0.110 8812	9.897 9238		236	
765	9.787 0524	98	9.889 1344	156	0.110 8656	9.897 9180	58	235	
766	9.787 0622	98	9.889 1501	157	0.110 8499	9.897 9121	59	234	
		98		156			59		
767	9.787 0720		9.889 1657		0.110 8343	9.897 9062		233	
768	9.787 0817	97	9.889 1814	157	0.110 8186	9.897 9003	59	232	
769	9.787 0915	98	9.889 1971	157	0.110 8029	9.897 8945	58	231	
		98		156			59		
.770	9.787 1013		9.889 2127		0.110 7873	9.897 8886		.230	
		98		157			59		
771	9.787 1111		9.889 2284		0.110 7716	9.897 8827		229	
772	9.787 1209	98	9.889 2440	156	0.110 7560	9.897 8768	59	228	
773	9.787 1306	97	9.889 2597	157	0.110 7403	9.897 8710	58	227	
		98		156			59		
774	9.787 1404		9.889 2753		0.110 7247	9.897 8651		226	
775	9.787 1502	98	9.889 2910	157	0.110 7090	9.897 8592	59	225	
776	9.787 1600	98	9.889 3066	156	0.110 6934	9.897 8533	59	224	
		98		157			58		
777	9.787 1698		9.889 3223		0.110 6777	9.897 8475		223	
778	9.787 1796	98	9.889 3380	157	0.110 6620	9.897 8416	59	222	
779	9.787 1893	97	9.889 3536	156	0.110 6464	9.897 8357	59	221	
		98		157			59		
.780	9.787 1991		9.889 3693		0.110 6307	9.897 8298		.220	
		98		156			58		
781	9.787 2089		9.889 3849		0.110 6151	9.897 8240		219	
782	9.787 2187	98	9.889 4006	157	0.110 5994	9.897 8181	59	218	
783	9.787 2284	97	9.889 4162	156	0.110 5838	9.897 8122	59	217	
		98		157			59		
784	9.787 2382		9.889 4319		0.110 5681	9.897 8063		216	
785	9.787 2480	98	9.889 4475	156	0.110 5525	9.897 8005	58	215	
786	9.787 2578	98	9.889 4632	157	0.110 5368	9.897 7946	59	214	
		98		156			59		
787	9.787 2676		9.889 4788		0.110 5212	9.897 7887		213	
788	9.787 2773	97	9.889 4945	157	0.110 5055	9.897 7828	59	212	
789	9.787 2871	98	9.889 5101	156	0.110 4899	9.897 7770	58	211	
		98		157			59		
.790	9.787 2969		9.889 5258		0.110 4742	9.897 7711		.210	
		98		157			59		
791	9.787 3067		9.889 5415		0.110 4585	9.897 7652		209	
792	9.787 3164	97	9.889 5571	156	0.110 4429	9.897 7593	59	208	
793	9.787 3262	98	9.889 5728	157	0.110 4272	9.897 7535	58	207	
		98		156			59		
794	9.787 3360		9.889 5884		0.110 4116	9.897 7476		206	
795	9.787 3458	98	9.889 6041	157	0.110 3959	9.897 7417	59	205	
796	9.787 3555	97	9.889 6197	156	0.110 3803	9.897 7358	59	204	
		98		157			59		
797	9.787 3653		9.889 6354		0.110 3646	9.897 7299		203	
798	9.787 3751	98	9.889 6510	156	0.110 3490	9.897 7241	58	202	
799	9.787 3848	97	9.889 6667	157	0.110 3333	9.897 7182	59	201	
		98		156			59		
.800	9.787 3946		9.889 6823		0.110 3177	9.897 7123		.200	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	98	97
1	9.8	9.7
2	19.6	19.4
3	29.4	29.1
4	39.2	38.8
5	49.0	48.5
6	58.8	58.2
7	68.6	67.9
8	78.4	77.6
9	88.2	87.3

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

52°.250 — 52°.200

37°.800 — 37°.850

37°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.787 3946		9.889 6823		0.110 3177	9.897 7123		**.200**	
		98		157			59		
801	9.787 4044		9.889 6980		0.110 3020	9.897 7064		199	
802	9.787 4142	98	9.889 7136	156	0.110 2864	9.897 7005	59	198	
803	9.787 4239	97	9.889 7293	157	0.110 2707	9.897 6947	58	197	
		98		156			59		
804	9.787 4337		9.889 7449		0.110 2551	9.897 6888		196	
805	9.787 4435	98	9.889 7606	157	0.110 2394	9.897 6829	59	195	
806	9.787 4532	97	9.889 7762	156	0.110 2238	9.897 6770	59	194	
		98		157			59		
807	9.787 4630		9.889 7919		0.110 2081	9.897 6711		193	
808	9.787 4728	98	9.889 8075	156	0.110 1925	9.897 6653	58	192	
809	9.787 4826	98	9.889 8232	157	0.110 1768	9.897 6594	59	191	
		97		156			59		
.810	9.787 4923		9.889 8388		0.110 1612	9.897 6535		**.190**	
		98		157			59		
811	9.787 5021		9.889 8545		0.110 1455	9.897 6476		189	
812	9.787 5119	98	9.889 8701	156	0.110 1299	9.897 6417	59	188	
813	9.787 5216	97	9.889 8858	157	0.110 1142	9.897 6358	59	187	
		98		156			58		
814	9.787 5314		9.889 9014		0.110 0986	9.897 6300		186	
815	9.787 5412	98	9.889 9171	157	0.110 0829	9.897 6241	59	185	
816	9.787 5509	97	9.889 9327	156	0.110 0673	9.897 6182	59	184	
		98		157			59		
817	9.787 5607		9.889 9484		0.110 0516	9.897 6123		183	
818	9.787 5705	98	9.889 9640	156	0.110 0360	9.897 6064	59	182	
819	9.787 5802	97	9.889 9797	157	0.110 0203	9.897 6005	59	181	
		98		156			58		
.820	9.787 5900		9.889 9953		0.110 0047	9.897 5947		**.180**	
		98		157			59		
821	9.787 5998		9.890 0110		0.109 9890	9.897 5888		179	
822	9.787 6095	97	9.890 0266	156	0.109 9734	9.897 5829	59	178	
823	9.787 6193	98	9.890 0423	157	0.109 9577	9.897 5770	59	177	
		97		156			59		
824	9.787 6290		9.890 0579		0.109 9421	9.897 5711		176	
825	9.787 6388	98	9.890 0736	157	0.109 9264	9.897 5652	59	175	
826	9.787 6486	98	9.890 0892	156	0.109 9108	9.897 5594	58	174	
		97		157			59		
827	9.787 6583		9.890 1049		0.109 8951	9.897 5535		173	
828	9.787 6681	98	9.890 1205	156	0.109 8795	9.897 5476	59	172	
829	9.787 6779	98	9.890 1362	157	0.109 8638	9.897 5417	59	171	
		97		156			59		
.830	9.787 6876		9.890 1518		0.109 8482	9.897 5358		**.170**	
		98		156			59		
831	9.787 6974		9.890 1674		0.109 8326	9.897 5299		169	
832	9.787 7071	97	9.890 1831	157	0.109 8169	9.897 5240	59	168	
833	9.787 7169	98	9.890 1987	156	0.109 8013	9.897 5182	58	167	
		98		157			59		
834	9.787 7267		9.890 2144		0.109 7856	9.897 5123		166	
835	9.787 7364	97	9.890 2300	156	0.109 7700	9.897 5064	59	165	
836	9.787 7462	98	9.890 2457	157	0.109 7543	9.897 5005	59	164	
		97		156			59		
837	9.787 7559		9.890 2613		0.109 7387	9.897 4946		163	
838	9.787 7657	98	9.890 2770	157	0.109 7230	9.897 4887	59	162	
839	9.787 7755	98	9.890 2926	156	0.109 7074	9.897 4828	59	161	
		97		157			59		
.840	9.787 7852		9.890 3083		0.109 6917	9.897 4769		**.160**	
		98		156			58		
841	9.787 7950		9.890 3239		0.109 6761	9.897 4711		159	
842	9.787 8047	97	9.890 3396	157	0.109 6604	9.897 4652	59	158	
843	9.787 8145	98	9.890 3552	156	0.109 6448	9.897 4593	59	157	
		97		156			59		
844	9.787 8242		9.890 3708		0.109 6292	9.897 4534		156	
845	9.787 8340	98	9.890 3865	157	0.109 6135	9.897 4475	59	155	
846	9.787 8438	98	9.890 4021	156	0.109 5979	9.897 4416	59	154	
		97		157			59		
847	9.787 8535		9.890 4178		0.109 5822	9.897 4357		153	
848	9.787 8633	98	9.890 4334	156	0.109 5666	9.897 4298	59	152	
849	9.787 8730	97	9.890 4491	157	0.109 5509	9.897 4239	59	151	
		98		156			58		
.850	9.787 8828		9.890 4647		0.109 5353	9.897 4181		**.150**	
	cos	d	cotg	d	tang	sin	d	**52°**	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	98	97
1	9.8	9.7
2	19.6	19.4
3	29.4	29.1
4	39.2	38.8
5	49.0	48.5
6	58.8	58.2
7	68.6	67.9
8	78.4	77.6
9	88.2	87.3

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

52°.200 — 52°.150

37°.850 — 37°.900

37°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.787 8828		9.890 4647		0.109 5353	9.897 4181		.150	
		97		157			59		
851	9.787 8925		9.890 4804		0.109 5196	9.897 4122		149	
852	9.787 9023	98	9.890 4960	156	0.109 5040	9.897 4063	59	148	
853	9.787 9120	97	9.890 5117	157	0.109 4883	9.897 4004	59	147	
		98		156			59		
854	9.787 9218		9.890 5273		0.109 4727	9.897 3945		146	
855	9.787 9315	97	9.890 5429	156	0.109 4571	9.897 3886	59	145	
856	9.787 9413	98	9.890 5586	157	0.109 4414	9.897 3827	59	144	
		97		156			59		
857	9.787 9510		9.890 5742		0.109 4258	9.897 3768		143	
858	9.787 9608	98	9.890 5899	157	0.109 4101	9.897 3709	59	142	
859	9.787 9705	97	9.890 6055	156	0.109 3945	9.897 3650	59	141	
		98		157			59		
.860	9.787 9803		9.890 6212		0.109 3788	9.897 3591		.140	
		98		156			58		
861	9.787 9901		9.890 6368		0.109 3632	9.897 3533		139	
862	9.787 9998	97	9.890 6524	156	0.109 3476	9.897 3474	59	138	
863	9.788 0096	98	9.890 6681	157	0.109 3319	9.897 3415	59	137	
		97		156			59		
864	9.788 0193		9.890 6837		0.109 3163	9.897 3356		136	
865	9.788 0291	98	9.890 6994	157	0.109 3006	9.897 3297	59	135	
866	9.788 0388	97	9.890 7150	156	0.109 2850	9.897 3238	59	134	
		97		157			59		
867	9.788 0485		9.890 7307		0.109 2693	9.897 3179		133	
868	9.788 0583	98	9.890 7463	156	0.109 2537	9.897 3120	59	132	
869	9.788 0680	97	9.890 7619	156	0.109 2381	9.897 3061	59	131	
		98		157			59		
.870	9.788 0778		9.890 7776		0.109 2224	9.897 3002		.130	
		97		156			59		
871	9.788 0875		9.890 7932		0.109 2068	9.897 2943		129	
872	9.788 0973	98	9.890 8089	157	0.109 1911	9.897 2884	59	128	
873	9.788 1070	97	9.890 8245	156	0.109 1755	9.897 2825	59	127	
		98		156			59		
874	9.788 1168		9.890 8401		0.109 1599	9.897 2766		126	
875	9.788 1265	97	9.890 8558	157	0.109 1442	9.897 2707	59	125	
876	9.788 1363	98	9.890 8714	156	0.109 1286	9.897 2648	59	124	
		97		157			59		
877	9.788 1460		9.890 8871		0.109 1129	9.897 2589		123	
878	9.788 1558	98	9.890 9027	156	0.109 0973	9.897 2530	59	122	
879	9.788 1655	97	9.890 9183	156	0.109 0817	9.897 2472	58	121	
		97		157			59		
.880	9.788 1752		9.890 9340		0.109 0660	9.897 2413		.120	
		98		156			59		
881	9.788 1850		9.890 9496		0.109 0504	9.897 2354		119	
882	9.788 1947	97	9.890 9653	157	0.109 0347	9.897 2295	59	118	
883	9.788 2045	98	9.890 9809	156	0.109 0191	9.897 2236	59	117	
		97		156			59		
884	9.788 2142		9.890 9965		0.109 0035	9.897 2177		116	
885	9.788 2240	98	9.891 0122	157	0.108 9878	9.897 2118	59	115	
886	9.788 2337	97	9.891 0278	156	0.108 9722	9.897 2059	59	114	
		97		157			59		
887	9.788 2434		9.891 0435		0.108 9565	9.897 2000		113	
888	9.788 2532	98	9.891 0591	156	0.108 9409	9.897 1941	59	112	
889	9.788 2629	97	9.891 0747	156	0.108 9253	9.897 1882	59	111	
		98		157			59		
.890	9.788 2727		9.891 0904		0.108 9096	9.897 1823		.110	
		97		156			59		
891	9.788 2824		9.891 1060		0.108 8940	9.897 1764		109	
892	9.788 2921	97	9.891 1217	157	0.108 8783	9.897 1705	59	108	
893	9.788 3019	98	9.891 1373	156	0.108 8627	9.897 1646	59	107	
		97		156			59		
894	9.788 3116		9.891 1529		0.108 8471	9.897 1587		106	
895	9.788 3214	98	9.891 1686	157	0.108 8314	9.897 1528	59	105	
896	9.788 3311	97	9.891 1842	156	0.108 8158	9.897 1469	59	104	
		97		157			59		
897	9.788 3408		9.891 1999		0.108 8001	9.897 1410		103	
898	9.788 3506	98	9.891 2155	156	0.108 7845	9.897 1351	59	102	
899	9.788 3603	97	9.891 2311	156	0.108 7689	9.897 1292	59	101	
		98		157			59		
.900	9.788 3701		9.891 2468		0.108 7532	9.897 1233		.100	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	98	97
1	9.8	9.7
2	19.6	19.4
3	29.4	29.1
4	39.2	38.8
5	49.0	48.5
6	58.8	58.2
7	68.6	67.9
8	78.4	77.6
9	88.2	87.3

	59	58
1	5.9	5.8
2	11.8	11.6
3	17.7	17.4
4	23.6	23.2
5	29.5	29.0
6	35.4	34.8
7	41.3	40.6
8	47.2	46.4
9	53.1	52.2

52°.150 — 52°.100

37°.900 — 37°.950

37°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.788 3701		9.891 2468		0.108 7532	9.897 1233		.100	
		97		156			59		
901	9.788 3798		9.891 2624		0.108 7376	9.897 1174		099	
902	9.788 3895	97	9.891 2780	156	0.108 7220	9.897 1115	59	098	
903	9.788 3993	98	9.891 2937	157	0.108 7063	9.897 1056	59	097	
		97		156			59		
904	9.788 4090		9.891 3093		0.108 6907	9.897 0997		096	
905	9.788 4187	97	9.891 3250	157	0.108 6750	9.897 0938	59	095	
906	9.788 4285	98	9.891 3406	156	0.108 6594	9.897 0879	59	094	
		97		156			59		
907	9.788 4382		9.891 3562		0.108 6438	9.897 0820		093	
908	9.788 4479	97	9.891 3719	157	0.108 6281	9.897 0761	59	092	
909	9.788 4577	98	9.891 3875	156	0.108 6125	9.897 0702	59	091	
		97		156			59		
.910	9.788 4674		9.891 4031		0.108 5969	9.897 0643		.090	
		97		157			59		
911	9.788 4771		9.891 4188		0.108 5812	9.897 0584		089	
912	9.788 4869	98	9.891 4344	156	0.108 5656	9.897 0525	59	088	
913	9.788 4966	97	9.891 4500	156	0.108 5500	9.897 0466	59	087	
		97		157			59		
914	9.788 5063		9.891 4657		0.108 5343	9.897 0407		086	
915	9.788 5161	98	9.891 4813	156	0.108 5187	9.897 0347	60	085	
916	9.788 5258	97	9.891 4970	157	0.108 5030	9.897 0288	59	084	
		97		156			59		
917	9.788 5355		9.891 5126		0.108 4874	9.897 0229		083	
918	9.788 5453	98	9.891 5282	156	0.108 4718	9.897 0170	59	082	
919	9.788 5550	97	9.891 5439	157	0.108 4561	9.897 0111	59	081	
		97		156			59		
.920	9.788 5647		9.891 5595		0.108 4405	9.897 0052		.080	
		97		156			59		
921	9.788 5744		9.891 5751		0.108 4249	9.896 9993		079	
922	9.788 5842	98	9.891 5908	157	0.108 4092	9.896 9934	59	078	
923	9.788 5939	97	9.891 6064	156	0.108 3936	9.896 9875	59	077	
		97		156			59		
924	9.788 6036		9.891 6220		0.108 3780	9.896 9816		076	
925	9.788 6134	98	9.891 6377	157	0.108 3623	9.896 9757	59	075	
926	9.788 6231	97	9.891 6533	156	0.108 3467	9.896 9698	59	074	
		97		156			59		
927	9.788 6328		9.891 6689		0.108 3311	9.896 9639		073	
928	9.788 6425	97	9.891 6846	157	0.108 3154	9.896 9580	59	072	
929	9.788 6523	98	9.891 7002	156	0.108 2998	9.896 9521	59	071	
		97		156			59		
.930	9.788 6620		9.891 7158		0.108 2842	9.896 9462		.070	
		97		157			59		
931	9.788 6717		9.891 7315		0.108 2685	9.896 9403		069	
932	9.788 6814	97	9.891 7471	156	0.108 2529	9.896 9344	59	068	
933	9.788 6912	98	9.891 7627	156	0.108 2373	9.896 9284	60	067	
		97		157			59		
934	9.788 7009		9.891 7784		0.108 2216	9.896 9225		066	
935	9.788 7106	97	9.891 7940	156	0.108 2060	9.896 9166	59	065	
936	9.788 7203	97	9.891 8096	156	0.108 1904	9.896 9107	59	064	
		98		157			59		
937	9.788 7301		9.891 8253		0.108 1747	9.896 9048		063	
938	9.788 7398	97	9.891 8409	156	0.108 1591	9.896 8989	59	062	
939	9.788 7495	97	9.891 8565	156	0.108 1435	9.896 8930	59	061	
		97		157			59		
.940	9.788 7592		9.891 8722		0.108 1278	9.896 8871		.060	
		98		156			59		
941	9.788 7690		9.891 8878		0.108 1122	9.896 8812		059	
942	9.788 7787	97	9.891 9034	156	0.108 0966	9.896 8753	59	058	
943	9.788 7884	97	9.891 9191	157	0.108 0809	9.896 8694	59	057	
		97		156			60		
944	9.788 7981		9.891 9347		0.108 0653	9.896 8634		056	
945	9.788 8079	98	9.891 9503	156	0.108 0497	9.896 8575	59	055	
946	9.788 8176	97	9.891 9659	156	0.108 0341	9.896 8516	59	054	
		97		157			59		
947	9.788 8273		9.891 9816		0.108 0184	9.896 8457		053	
948	9.788 8370	97	9.891 9972	156	0.108 0028	9.896 8398	59	052	
949	9.788 8467	97	9.892 0128	156	0.107 9872	9.896 8339	59	051	
		98		157			59		
.950	9.788 8565		9.892 0285		0.107 9715	9.896 8280		.050	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	98	97
1	9.8	9.7
2	19.6	19.4
3	29.4	29.1
4	39.2	38.8
5	49.0	48.5
6	58.8	58.2
7	68.6	67.9
8	78.4	77.6
9	88.2	87.3

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

52°.100 — 52°.050

37°.950 — 38°.000

37°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.788 8565		9.892 0285		0.107 9715	9.896 8280		.050	
		97		156			59		
951	9.788 8662		9.892 0441		0.107 9559	9.896 8221		049	
952	9.788 8759	97	9.892 0597	156	0.107 9403	9.896 8162	59	048	
953	9.788 8856	97	9.892 0754	157	0.107 9246	9.896 8102	60	047	
		97		156			59		
954	9.788 8953		9.892 0910		0.107 9090	9.896 8043		046	
955	9.788 9050	97	9.892 1066	156	0.107 8934	9.896 7984	59	045	
956	9.788 9148	98	9.892 1223	157	0.107 8777	9.896 7925	59	044	
		97		156			59		
957	9.788 9245		9.892 1379		0.107 8621	9.896 7866		043	
958	9.788 9342	97	9.892 1535	156	0.107 8465	9.896 7807	59	042	
959	9.788 9439	97	9.892 1691	156	0.107 8309	9.896 7748	59	041	
		97		157			59		
.960	9.788 9536		9.892 1848		0.107 8152	9.896 7689		.040	
		97		156			60		
961	9.788 9633		9.892 2004		0.107 7996	9.896 7629		039	
962	9.788 9731	98	9.892 2160	156	0.107 7840	9.896 7570	59	038	
963	9.788 9828	97	9.892 2317	157	0.107 7683	9.896 7511	59	037	
		97		156			59		
964	9.788 9925		9.892 2473		0.107 7527	9.896 7452		036	
965	9.789 0022	97	9.892 2629	156	0.107 7371	9.896 7393	59	035	
966	9.789 0119	97	9.892 2785	156	0.107 7215	9.896 7334	59	034	
		97		157			59		
967	9.789 0216		9.892 2942		0.107 7058	9.896 7275		033	
968	9.789 0313	97	9.892 3098	156	0.107 6902	9.896 7215	60	032	
969	9.789 0411	98	9.892 3254	156	0.107 6746	9.896 7156	59	031	
		97		157			59		
.970	9.789 0508		9.892 3411		0.107 6589	9.896 7097		.030	
		97		156			59		
971	9.789 0605		9.892 3567		0.107 6433	9.896 7038		029	
972	9.789 0702	97	9.892 3723	156	0.107 6277	9.896 6979	59	028	
973	9.789 0799	97	9.892 3879	156	0.107 6121	9.896 6920	59	027	
		97		157			60		
974	9.789 0896		9.892 4036		0.107 5964	9.896 6860		026	
975	9.789 0993	97	9.892 4192	156	0.107 5808	9.896 6801	59	025	
976	9.789 1090	97	9.892 4348	156	0.107 5652	9.896 6742	59	024	
		97		157			59		
977	9.789 1187		9.892 4505		0.107 5495	9.896 6683		023	
978	9.789 1285	98	9.892 4661	156	0.107 5339	9.896 6624	59	022	
979	9.789 1382	97	9.892 4817	156	0.107 5183	9.896 6565	59	021	
		97		156			60		
.980	9.789 1479		9.892 4973		0.107 5027	9.896 6505		.020	
		97		157			59		
981	9.789 1576		9.892 5130		0.107 4870	9.896 6446		019	
982	9.789 1673	97	9.892 5286	156	0.107 4714	9.896 6387	59	018	
983	9.789 1770	97	9.892 5442	156	0.107 4558	9.896 6328	59	017	
		97		156			59		
984	9.789 1867		9.892 5598		0.107 4402	9.896 6269		016	
985	9.789 1964	97	9.892 5755	157	0.107 4245	9.896 6210	59	015	
986	9.789 2061	97	9.892 5911	156	0.107 4089	9.896 6150	60	014	
		97		156			59		
987	9.789 2158		9.892 6067		0.107 3933	9.896 6091		013	
988	9.789 2255	97	9.892 6223	156	0.107 3777	9.896 6032	59	012	
989	9.789 2352	97	9.892 6380	157	0.107 3620	9.896 5973	59	011	
		97		156			59		
.990	9.789 2449		9.892 6536		0.107 3464	9.896 5914		.010	
		97		156			60		
991	9.789 2546		9.892 6692		0.107 3308	9.896 5854		009	
992	9.789 2644	98	9.892 6848	156	0.107 3152	9.896 5795	59	008	
993	9.789 2741	97	9.892 7005	157	0.107 2995	9.896 5736	59	007	
		97		156			59		
994	9.789 2838		9.892 7161		0.107 2839	9.896 5677		006	
995	9.789 2935	97	9.892 7317	156	0.107 2683	9.896 5618	59	005	
996	9.789 3032	97	9.892 7473	156	0.107 2527	9.896 5558	60	004	
		97		157			59		
997	9.789 3129		9.892 7630		0.107 2370	9.896 5499		003	
998	9.789 3226	97	9.892 7786	156	0.107 2214	9.896 5440	59	002	
999	9.789 3323	97	9.892 7942	156	0.107 2058	9.896 5381	59	001	
		97		156			60		
*.000	9.789 3420		9.892 8098		0.107 1902	9.896 5321		.000	
	cos	d	cotg	d	tang	sin	d	52°	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	98	97
1	9.8	9.7
2	19.6	19.4
3	29.4	29.1
4	39.2	38.8
5	49.0	48.5
6	58.8	58.2
7	68.6	67.9
8	78.4	77.6
9	88.2	87.3

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

52°.050 — 52°.000

38°.000 — 38°.050

38°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.789 3420		9.892 8098		0.107 1902	9.896 5321		*000	
		97		157			59		
001	9.789 3517		9.892 8255		0.107 1745	9.896 5262		999	
002	9.789 3614	97	9.892 8411	156	0.107 1589	9.896 5203	59	998	
003	9.789 3711	97	9.892 8567	156	0.107 1433	9.896 5144	59	997	
		97		156			59		
004	9.789 3808		9.892 8723		0.107 1277	9.896 5085		996	
005	9.789 3905	97	9.892 8880	157	0.107 1120	9.896 5025	60	995	
006	9.789 4002	97	9.892 9036	156	0.107 0964	9.896 4966	59	994	
		97		156			59		
007	9.789 4099		9.892 9192		0.107 0808	9.896 4907		993	
008	9.789 4196	97	9.892 9348	156	0.107 0652	9.896 4848	59	992	
009	9.789 4293	97	9.892 9504	156	0.107 0496	9.896 4788	60	991	
		97		157			59		
.010	9.789 4390		9.892 9661		0.107 0339	9.896 4729		.990	
		97		156			59		
011	9.789 4487		9.892 9817		0.107 0183	9.896 4670		989	
012	9.789 4584	97	9.892 9973	156	0.107 0027	9.896 4611	59	988	
013	9.789 4681	97	9.893 0129	156	0.106 9871	9.896 4551	60	987	
		97		157			59		
014	9.789 4778		9.893 0286		0.106 9714	9.896 4492		986	
015	9.789 4875	97	9.893 0442	156	0.106 9558	9.896 4433	59	985	
016	9.789 4972	97	9.893 0598	156	0.106 9402	9.896 4374	59	984	
		97		156			60		
017	9.789 5069		9.893 0754		0.106 9246	9.896 4314		983	
018	9.789 5166	97	9.893 0910	156	0.106 9090	9.896 4255	59	982	
019	9.789 5262	96	9.893 1067	157	0.106 8933	9.896 4196	59	981	
		97		156			59		
.020	9.789 5359		9.893 1223		0.106 8777	9.896 4137		.980	
		97		156			60		
021	9.789 5456		9.893 1379		0.106 8621	9.896 4077		979	
022	9.789 5553	97	9.893 1535	156	0.106 8465	9.896 4018	59	978	
023	9.789 5650	97	9.893 1691	156	0.106 8309	9.896 3959	59	977	
		97		157			59		
024	9.789 5747		9.893 1848		0.106 8152	9.896 3900		976	
025	9.789 5844	97	9.893 2004	156	0.106 7996	9.896 3840	60	975	
026	9.789 5941	97	9.893 2160	156	0.106 7840	9.896 3781	59	974	
		97		156			59		
027	9.789 6038		9.893 2316		0.106 7684	9.896 3722		973	
028	9.789 6135	97	9.893 2472	156	0.106 7528	9.896 3662	60	972	
029	9.789 6232	97	9.893 2629	157	0.106 7371	9.896 3603	59	971	
		97		156			59		
.030	9.789 6329		9.893 2785		0.106 7215	9.896 3544		.970	
		97		156			59		
031	9.789 6426		9.893 2941		0.106 7059	9.896 3485		969	
032	9.789 6523	97	9.893 3097	156	0.106 6903	9.896 3425	60	968	
033	9.789 6619	96	9.893 3253	156	0.106 6747	9.896 3366	59	967	
		97		157			59		
034	9.789 6716		9.893 3410		0.106 6590	9.896 3307		966	
035	9.789 6813	97	9.893 3566	156	0.106 6434	9.896 3247	60	965	
036	9.789 6910	97	9.893 3722	156	0.106 6278	9.896 3188	59	964	
		97		156			59		
037	9.789 7007		9.893 3878		0.106 6122	9.896 3129		963	
038	9.789 7104	97	9.893 4034	156	0.106 5966	9.896 3070	59	962	
039	9.789 7201	97	9.893 4191	157	0.106 5809	9.896 3010	60	961	
		97		156			59		
.040	9.789 7298		9.893 4347		0.106 5653	9.896 2951		.960	
		97		156			59		
041	9.789 7395		9.893 4503		0.106 5497	9.896 2892		959	
042	9.789 7491	96	9.893 4659	156	0.106 5341	9.896 2832	60	958	
043	9.789 7588	97	9.893 4815	156	0.106 5185	9.896 2773	59	957	
		97		157			59		
044	9.789 7685		9.893 4972		0.106 5028	9.896 2714		956	
045	9.789 7782	97	9.893 5128	156	0.106 4872	9.896 2654	60	955	
046	9.789 7879	97	9.893 5284	156	0.106 4716	9.896 2595	59	954	
		97		156			59		
047	9.789 7976		9.893 5440		0.106 4560	9.896 2536		953	
048	9.789 8073	97	9.893 5596	156	0.106 4404	9.896 2476	60	952	
049	9.789 8169	96	9.893 5752	156	0.106 4248	9.896 2417	59	951	
		97		157			59		
.050	9.789 8266		9.893 5909		0.106 4091	9.896 2358		.950	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	97	96
1	9.7	9.6
2	19.4	19.2
3	29.1	28.8
4	38.8	38.4
5	48.5	48.0
6	58.2	57.6
7	67.9	67.2
8	77.6	76.8
9	87.3	86.4

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

52°.000 — 51°.950

38°.050 — 38°.100

38°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.789 8266		9.893 5909		0.106 4091	9.896 2358		**.950**	
		97		156			60		
051	9.789 8363		9.893 6065		0.106 3935	9.896 2298		949	
052	9.789 8460	97	9.893 6221	156	0.106 3779	9.896 2239	59	948	
053	9.789 8557	97	9.893 6377	156	0.106 3623	9.896 2180	59	947	
		97		156			60		
054	9.789 8654		9.893 6533		0.106 3467	9.896 2120		946	
055	9.789 8750	96	9.893 6689	156	0.106 3311	9.896 2061	59	945	
056	9.789 8847	97	9.893 6846	157	0.106 3154	9.896 2002	59	944	
		97		156			60		
057	9.789 8944		9.893 7002		0.106 2998	9.896 1942		943	
058	9.789 9041	97	9.893 7158	156	0.106 2842	9.896 1883	59	942	
059	9.789 9138	97	9.893 7314	156	0.106 2686	9.896 1824	59	941	
		97		156			60		
.060	9.789 9235		9.893 7470		0.106 2530	9.896 1764		**.940**	
		96		156			59		
061	9.789 9331		9.893 7626		0.106 2374	9.896 1705		939	
062	9.789 9428	97	9.893 7783	157	0.106 2217	9.896 1646	59	938	
063	9.789 9525	97	9.893 7939	156	0.106 2061	9.896 1586	60	937	
		97		156			59		
064	9.789 9622		9.893 8095		0.106 1905	9.896 1527		936	
065	9.789 9719	97	9.893 8251	156	0.106 1749	9.896 1468	59	935	
066	9.789 9815	96	9.893 8407	156	0.106 1593	9.896 1408	60	934	
		97		156			59		
067	9.789 9912		9.893 8563		0.106 1437	9.896 1349		933	
068	9.790 0009	97	9.893 8719	156	0.106 1281	9.896 1290	59	932	
069	9.790 0106	97	9.893 8876	157	0.106 1124	9.896 1230	60	931	
		96		156			59		
.070	9.790 0202		9.893 9032		0.106 0968	9.896 1171		**.930**	
		97		156			60		
071	9.790 0299		9.893 9188		0.106 0812	9.896 1111		929	
072	9.790 0396	97	9.893 9344	156	0.106 0656	9.896 1052	59	928	
073	9.790 0493	97	9.893 9500	156	0.106 0500	9.896 0993	59	927	
		97		156			60		
074	9.790 0590		9.893 9656		0.106 0344	9.896 0933		926	
075	9.790 0686	96	9.893 9812	156	0.106 0188	9.896 0874	59	925	
076	9.790 0783	97	9.893 9969	157	0.106 0031	9.896 0815	59	924	
		97		156			60		
077	9.790 0880		9.894 0125		0.105 9875	9.896 0755		923	
078	9.790 0977	97	9.894 0281	156	0.105 9719	9.896 0696	59	922	
079	9.790 1073	96	9.894 0437	156	0.105 9563	9.896 0636	60	921	
		97		156			59		
.080	9.790 1170		9.894 0593		0.105 9407	9.896 0577		**.920**	
		97		156			59		
081	9.790 1267		9.894 0749		0.105 9251	9.896 0518		919	
082	9.790 1364	97	9.894 0905	156	0.105 9095	9.896 0458	60	918	
083	9.790 1460	96	9.894 1061	156	0.105 8939	9.896 0399	59	917	
		97		157			60		
084	9.790 1557		9.894 1218		0.105 8782	9.896 0339		916	
085	9.790 1654	97	9.894 1374	156	0.105 8626	9.896 0280	59	915	
086	9.790 1750	96	9.894 1530	156	0.105 8470	9.896 0221	59	914	
		97		156			60		
087	9.790 1847		9.894 1686		0.105 8314	9.896 0161		913	
088	9.790 1944	97	9.894 1842	156	0.105 8158	9.896 0102	59	912	
089	9.790 2041	97	9.894 1998	156	0.105 8002	9.896 0042	60	911	
		96		156			59		
.090	9.790 2137		9.894 2154		0.105 7846	9.895 9983		**.910**	
		97		156			59		
091	9.790 2234		9.894 2310		0.105 7690	9.895 9924		909	
092	9.790 2331	97	9.894 2467	157	0.105 7533	9.895 9864	60	908	
093	9.790 2427	96	9.894 2623	156	0.105 7377	9.895 9805	59	907	
		97		156			60		
094	9.790 2524		9.894 2779		0.105 7221	9.895 9745		906	
095	9.790 2621	97	9.894 2935	156	0.105 7065	9.895 9686	59	905	
096	9.790 2717	96	9.894 3091	156	0.105 6909	9.895 9626	60	904	
		97		156			59		
097	9.790 2814		9.894 3247		0.105 6753	9.895 9567		903	
098	9.790 2911	97	9.894 3403	156	0.105 6597	9.895 9508	59	902	
099	9.790 3007	96	9.894 3559	156	0.105 6441	9.895 9448	60	901	
		97		156			59		
.100	9.790 3104		9.894 3715		0.105 6285	9.895 9389		**.900**	
	cos	d	cotg	d	tang	sin	d	**51°**	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	97	96
1	9.7	9.6
2	19.4	19.2
3	29.1	28.8
4	38.8	38.4
5	48.5	48.0
6	58.2	57.6
7	67.9	67.2
8	77.6	76.8
9	87.3	86.4

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

51°.950 — 51°.900

38°.100 — 38°.150

38°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.790 3104		9.894 3715		0.105 6285	9.895 9389		.900	
		97		157			60		
101	9.790 3201		9.894 3872		0.105 6128	9.895 9329		899	
102	9.790 3297	96	9.894 4028	156	0.105 5972	9.895 9270	59	898	
103	9.790 3394	97	9.894 4184	156	0.105 5816	9.895 9210	60	897	
		97		156			59		
104	9.790 3491		9.894 4340		0.105 5660	9.895 9151		896	
105	9.790 3587	96	9.894 4496	156	0.105 5504	9.895 9092	59	895	
106	9.790 3684	97	9.894 4652	156	0.105 5348	9.895 9032	60	894	
		97		156			59		
107	9.790 3781		9.894 4808		0.105 5192	9.895 8973		893	
108	9.790 3877	96	9.894 4964	156	0.105 5036	9.895 8913	60	892	
109	9.790 3974	97	9.894 5120	156	0.105 4880	9.895 8854	59	891	
		97		156			60		
.110	9.790 4071		9.894 5276		0.105 4724	9.895 8794		.890	
		96		156			59		
111	9.790 4167		9.894 5432		0.105 4568	9.895 8735		889	
112	9.790 4264	97	9.894 5589	157	0.105 4411	9.895 8675	60	888	
113	9.790 4361	97	9.894 5745	156	0.105 4255	9.895 8616	59	887	
		96		156			60		
114	9.790 4457		9.894 5901		0.105 4099	9.895 8556		886	
115	9.790 4554	97	9.894 6057	156	0.105 3943	9.895 8497	59	885	
116	9.790 4650	96	9.894 6213	156	0.105 3787	9.895 8438	59	884	
		97		156			60		
117	9.790 4747		9.894 6369		0.105 3631	9.895 8378		883	
118	9.790 4844	97	9.894 6525	156	0.105 3475	9.895 8319	59	882	
119	9.790 4940	96	9.894 6681	156	0.105 3319	9.895 8259	60	881	
		97		156			59		
.120	9.790 5037		9.894 6837		0.105 3163	9.895 8200		.880	
		96		156			60		
121	9.790 5133		9.894 6993		0.105 3007	9.895 8140		879	
122	9.790 5230	97	9.894 7149	156	0.105 2851	9.895 8081	59	878	
123	9.790 5327	97	9.894 7305	156	0.105 2695	9.895 8021	60	877	
		96		157			59		
124	9.790 5423		9.894 7462		0.105 2538	9.895 7962		876	
125	9.790 5520	97	9.894 7618	156	0.105 2382	9.895 7902	60	875	
126	9.790 5616	96	9.894 7774	156	0.105 2226	9.895 7843	59	874	
		97		156			60		
127	9.790 5713		9.894 7930		0.105 2070	9.895 7783		873	
128	9.790 5810	97	9.894 8086	156	0.105 1914	9.895 7724	59	872	
129	9.790 5906	96	9.894 8242	156	0.105 1758	9.895 7664	60	871	
		97		156			59		
.130	9.790 6003		9.894 8398		0.105 1602	9.895 7605		.870	
		96		156			60		
131	9.790 6099		9.894 8554		0.105 1446	9.895 7545		869	
132	9.790 6196	97	9.894 8710	156	0.105 1290	9.895 7486	59	868	
133	9.790 6292	96	9.894 8866	156	0.105 1134	9.895 7426	60	867	
		97		156			59		
134	9.790 6389		9.894 9022		0.105 0978	9.895 7367		866	
135	9.790 6485	96	9.894 9178	156	0.105 0822	9.895 7307	60	865	
136	9.790 6582	97	9.894 9334	156	0.105 0666	9.895 7248	59	864	
		97		156			60		
137	9.790 6679		9.894 9490		0.105 0510	9.895 7188		863	
138	9.790 6775	96	9.894 9646	156	0.105 0354	9.895 7129	59	862	
139	9.790 6872	97	9.894 9802	156	0.105 0198	9.895 7069	60	861	
		96		156			59		
.140	9.790 6968		9.894 9958		0.105 0042	9.895 7010		.860	
		97		157			60		
141	9.790 7065		9.895 0115		0.104 9885	9.895 6950		859	
142	9.790 7161	96	9.895 0271	156	0.104 9729	9.895 6891	59	858	
143	9.790 7258	97	9.895 0427	156	0.104 9573	9.895 6831	60	857	
		96		156			59		
144	9.790 7354		9.895 0583		0.104 9417	9.895 6772		856	
145	9.790 7451	97	9.895 0739	156	0.104 9261	9.895 6712	60	855	
146	9.790 7547	96	9.895 0895	156	0.104 9105	9.895 6653	59	854	
		97		156			60		
147	9.790 7644		9.895 1051		0.104 8949	9.895 6593		853	
148	9.790 7740	96	9.895 1207	156	0.104 8793	9.895 6533	60	852	
149	9.790 7837	97	9.895 1363	156	0.104 8637	9.895 6474	59	851	
		96		156			60		
.150	9.790 7933		9.895 1519		0.104 8481	9.895 6414		.850	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	157	156
1	15.7	15.6
2	31.4	31.2
3	47.1	46.8
4	62.8	62.4
5	78.5	78.0
6	94.2	93.6
7	109.9	109.2
8	125.6	124.8
9	141.3	140.4

	97	96
1	9.7	9.6
2	19.4	19.2
3	29.1	28.8
4	38.8	38.4
5	48.5	48.0
6	58.2	57.6
7	67.9	67.2
8	77.6	76.8
9	87.3	86.4

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

51°.900 — 51°.850

38°.150 — 38°.200

38°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.790 7933		9.895 1519		0.104 8481	9.895 6414		.850	
		97		156			59		
151	9.790 8030		9.895 1675		0.104 8325	9.895 6355		849	
152	9.790 8126	96	9.895 1831	156	0.104 8169	9.895 6295	60	848	
153	9.790 8223	97	9.895 1987	156	0.104 8013	9.895 6236	59	847	
		96		156			60		
154	9.790 8319		9.895 2143		0.104 7857	9.895 6176		846	
155	9.790 8416	97	9.895 2299	156	0.104 7701	9.895 6117	59	845	
156	9.790 8512	96	9.895 2455	156	0.104 7545	9.895 6057	60	844	
		97		156			59		
157	9.790 8609		9.895 2611		0.104 7389	9.895 5998		843	
158	9.790 8705	96	9.895 2767	156	0.104 7233	9.895 5938	60	842	
159	9.790 8802	97	9.895 2923	156	0.104 7077	9.895 5878	60	841	
		96		156			59		
.160	9.790 8898		9.895 3079		0.104 6921	9.895 5819		.840	
		97		156			60		
161	9.790 8995		9.895 3235		0.104 6765	9.895 5759		839	
162	9.790 9091	96	9.895 3391	156	0.104 6609	9.895 5700	59	838	
163	9.790 9187	96	9.895 3547	156	0.104 6453	9.895 5640	60	837	
		97		156			59		
164	9.790 9284		9.895 3703		0.104 6297	9.895 5581		836	
165	9.790 9380	96	9.895 3859	156	0.104 6141	9.895 5521	60	835	
166	9.790 9477	97	9.895 4015	156	0.104 5985	9.895 5461	60	834	
		96		156			59		
167	9.790 9573		9.895 4171		0.104 5829	9.895 5402		833	
168	9.790 9670	97	9.895 4327	156	0.104 5673	9.895 5342	60	832	
169	9.790 9766	96	9.895 4483	156	0.104 5517	9.895 5283	59	831	
		97		156			60		
.170	9.790 9863		9.895 4639		0.104 5361	9.895 5223		.830	
		96		156			59		
171	9.790 9959		9.895 4795		0.104 5205	9.895 5164		829	
172	9.791 0055	96	9.895 4951	156	0.104 5049	9.895 5104	60	828	
173	9.791 0152	97	9.895 5107	156	0.104 4893	9.895 5044	60	827	
		96		156			59		
174	9.791 0248		9.895 5263		0.104 4737	9.895 4985		826	
175	9.791 0345	97	9.895 5419	156	0.104 4581	9.895 4925	60	825	
176	9.791 0441	96	9.895 5575	156	0.104 4425	9.895 4866	59	824	
		96		156			60		
177	9.791 0537		9.895 5731		0.104 4269	9.895 4806		823	
178	9.791 0634	97	9.895 5887	156	0.104 4113	9.895 4746	60	822	
179	9.791 0730	96	9.895 6043	156	0.104 3957	9.895 4687	59	821	
		97		156			60		
.180	9.791 0827		9.895 6199		0.104 3801	9.895 4627		.820	
		96		156			59		
181	9.791 0923		9.895 6355		0.104 3645	9.895 4568		819	
182	9.791 1019	96	9.895 6511	156	0.104 3489	9.895 4508	60	818	
183	9.791 1116	97	9.895 6667	156	0.104 3333	9.895 4448	60	817	
		96		156			59		
184	9.791 1212		9.895 6823		0.104 3177	9.895 4389		816	
185	9.791 1309	97	9.895 6979	156	0.104 3021	9.895 4329	60	815	
186	9.791 1405	96	9.895 7135	156	0.104 2865	9.895 4270	59	814	
		96		156			60		
187	9.791 1501		9.895 7291		0.104 2709	9.895 4210		813	
188	9.791 1598	97	9.895 7447	156	0.104 2553	9.895 4150	60	812	
189	9.791 1694	96	9.895 7603	156	0.104 2397	9.895 4091	59	811	
		96		156			60		
.190	9.791 1790		9.895 7759		0.104 2241	9.895 4031		.810	
		97		156			60		
191	9.791 1887		9.895 7915		0.104 2085	9.895 3971		809	
192	9.791 1983	96	9.895 8071	156	0.104 1929	9.895 3912	59	808	
193	9.791 2079	96	9.895 8227	156	0.104 1773	9.895 3852	60	807	
		97		156			59		
194	9.791 2176		9.895 8383		0.104 1617	9.895 3793		806	
195	9.791 2272	96	9.895 8539	156	0.104 1461	9.895 3733	60	805	
196	9.791 2368	96	9.895 8695	156	0.104 1305	9.895 3673	60	804	
		97		156			59		
197	9.791 2465		9.895 8851		0.104 1149	9.895 3614		803	
198	9.791 2561	96	9.895 9007	156	0.104 0993	9.895 3554	60	802	
199	9.791 2657	96	9.895 9163	156	0.104 0837	9.895 3494	60	801	
		97		156			59		
.200	9.791 2754		9.895 9319		0.104 0681	9.895 3435		.800	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156
1	15.6
2	31.2
3	46.8
4	62.4
5	78.0
6	93.6
7	109.2
8	124.8
9	140.4

	97	96
1	9.7	9.6
2	19.4	19.2
3	29.1	28.8
4	38.8	38.4
5	48.5	48.0
6	58.2	57.6
7	67.9	67.2
8	77.6	76.8
9	87.3	86.4

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

51°.850 — 51°.800

38°.200 — 38°.250

38°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.791 2754		9.895 9319		0.104 0681	9.895 3435		.800	
		96		156			60		
201	9.791 2850		9.895 9475		0.104 0525	9.895 3375		799	
202	9.791 2946	96	9.895 9631	156	0.104 0369	9.895 3315	60	798	
203	9.791 3043	97	9.895 9787	156	0.104 0213	9.895 3256	59	797	
		96		156			60		
204	9.791 3139		9.895 9943		0.104 0057	9.895 3196		796	
205	9.791 3235	96	9.896 0099	156	0.103 9901	9.895 3136	60	795	
206	9.791 3332	97	9.896 0255	156	0.103 9745	9.895 3077	59	794	
		96		156			60		
207	9.791 3428		9.896 0411		0.103 9589	9.895 3017		793	
208	9.791 3524	96	9.896 0567	156	0.103 9433	9.895 2957	60	792	
209	9.791 3621	97	9.896 0723	156	0.103 9277	9.895 2898	59	791	
		96		156			60		
.210	9.791 3717		9.896 0879		0.103 9121	9.895 2838		.790	
		96		156			60		
211	9.791 3813		9.896 1035		0.103 8965	9.895 2778		789	
212	9.791 3909	96	9.896 1191	156	0.103 8809	9.895 2719	59	788	
213	9.791 4006	97	9.896 1347	156	0.103 8653	9.895 2659	60	787	
		96		156			60		
214	9.791 4102		9.896 1503		0.103 8497	9.895 2599		786	
215	9.791 4198	96	9.896 1659	156	0.103 8341	9.895 2540	59	785	
216	9.791 4294	96	9.896 1814	155	0.103 8186	9.895 2480	60	784	
		97		156			60		
217	9.791 4391		9.896 1970		0.103 8030	9.895 2420		783	
218	9.791 4487	96	9.896 2126	156	0.103 7874	9.895 2361	59	782	
219	9.791 4583	96	9.896 2282	156	0.103 7718	9.895 2301	60	781	
		97		156			60		
.220	9.791 4680		9.896 2438		0.103 7562	9.895 2241		.780	
		96		156			59		
221	9.791 4776		9.896 2594		0.103 7406	9.895 2182		779	
222	9.791 4872	96	9.896 2750	156	0.103 7250	9.895 2122	60	778	
223	9.791 4968	96	9.896 2906	156	0.103 7094	9.895 2062	60	777	
		97		156			59		
224	9.791 5065		9.896 3062		0.103 6938	9.895 2003		776	
225	9.791 5161	96	9.896 3218	156	0.103 6782	9.895 1943	60	775	
226	9.791 5257	96	9.896 3374	156	0.103 6626	9.895 1883	60	774	
		96		156			60		
227	9.791 5353		9.896 3530		0.103 6470	9.895 1823		773	
228	9.791 5449	96	9.896 3686	156	0.103 6314	9.895 1764	59	772	
229	9.791 5546	97	9.896 3842	156	0.103 6158	9.895 1704	60	771	
		96		156			60		
.230	9.791 5642		9.896 3998		0.103 6002	9.895 1644		.770	
		96		156			59		
231	9.791 5738		9.896 4154		0.103 5846	9.895 1585		769	
232	9.791 5834	96	9.896 4309	155	0.103 5691	9.895 1525	60	768	
233	9.791 5931	97	9.896 4465	156	0.103 5535	9.895 1465	60	767	
		96		156			60		
234	9.791 6027		9.896 4621		0.103 5379	9.895 1405		766	
235	9.791 6123	96	9.896 4777	156	0.103 5223	9.895 1346	59	765	
236	9.791 6219	96	9.896 4933	156	0.103 5067	9.895 1286	60	764	
		96		156			60		
237	9.791 6315		9.896 5089		0.103 4911	9.895 1226		763	
238	9.791 6412	97	9.896 5245	156	0.103 4755	9.895 1167	59	762	
239	9.791 6508	96	9.896 5401	156	0.103 4599	9.895 1107	60	761	
		96		156			60		
.240	9.791 6604		9.896 5557		0.103 4443	9.895 1047		.760	
		96		156			60		
241	9.791 6700		9.896 5713		0.103 4287	9.895 0987		759	
242	9.791 6796	96	9.896 5869	156	0.103 4131	9.895 0928	59	758	
243	9.791 6892	96	9.896 6025	156	0.103 3975	9.895 0868	60	757	
		97		156			60		
244	9.791 6989		9.896 6181		0.103 3819	9.895 0808		756	
245	9.791 7085	96	9.896 6336	155	0.103 3664	9.895 0748	60	755	
246	9.791 7181	96	9.896 6492	156	0.103 3508	9.895 0689	59	754	
		96		156			60		
247	9.791 7277		9.896 6648		0.103 3352	9.895 0629		753	
248	9.791 7373	96	9.896 6804	156	0.103 3196	9.895 0569	60	752	
249	9.791 7469	96	9.896 6960	156	0.103 3040	9.895 0509	60	751	
		97		156			59		
.250	9.791 7566		9.896 7116		0.103 2884	9.895 0450		.750	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	97	96
1	9.7	9.6
2	19.4	19.2
3	29.1	28.8
4	38.8	38.4
5	48.5	48.0
6	58.2	57.6
7	67.9	67.2
8	77.6	76.8
9	87.3	86.4

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

51°.800 — 51°.750

38°.250 — 38°.300

38°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.791 7566		9.896 7116		0.103 2884	9.895 0450		.750	
		96		156			60		
251	9.791 7662		9.896 7272		0.103 2728	9.895 0390		749	
252	9.791 7758	96	9.896 7428	156	0.103 2572	9.895 0330	60	748	
253	9.791 7854	96	9.896 7584	156	0.103 2416	9.895 0270	60	747	
		96		156			59		
254	9.791 7950		9.896 7740		0.103 2260	9.895 0211		746	
255	9.791 8046	96	9.896 7895	155	0.103 2105	9.895 0151	60	745	
256	9.791 8142	96	9.896 8051	156	0.103 1949	9.895 0091	60	744	
		97		156			60		
257	9.791 8239		9.896 8207		0.103 1793	9.895 0031		743	
258	9.791 8335	96	9.896 8363	156	0.103 1637	9.894 9971	60	742	
259	9.791 8431	96	9.896 8519	156	0.103 1481	9.894 9912	59	741	
		96		156			60		
.260	9.791 8527		9.896 8675		0.103 1325	9.894 9852		.740	
		96		156			60		
261	9.791 8623		9.896 8831		0.103 1169	9.894 9792		739	
262	9.791 8719	96	9.896 8987	156	0.103 1013	9.894 9732	60	738	
263	9.791 8815	96	9.896 9143	156	0.103 0857	9.894 9673	59	737	
		96		156			60		
264	9.791 8911		9.896 9299		0.103 0701	9.894 9613		736	
265	9.791 9007	96	9.896 9454	155	0.103 0546	9.894 9553	60	735	
266	9.791 9104	97	9.896 9610	156	0.103 0390	9.894 9493	60	734	
		96		156			60		
267	9.791 9200		9.896 9766		0.103 0234	9.894 9433		733	
268	9.791 9296	96	9.896 9922	156	0.103 0078	9.894 9374	59	732	
269	9.791 9392	96	9.897 0078	156	0.102 9922	9.894 9314	60	731	
		96		156			60		
.270	9.791 9488		9.897 0234		0.102 9766	9.894 9254		.730	
		96		156			60		
271	9.791 9584		9.897 0390		0.102 9610	9.894 9194		729	
272	9.791 9680	96	9.897 0546	156	0.102 9454	9.894 9134	60	728	
273	9.791 9776	96	9.897 0701	155	0.102 9299	9.894 9075	59	727	
		96		156			60		
274	9.791 9872		9.897 0857		0.102 9143	9.894 9015		726	
275	9.791 9968	96	9.897 1013	156	0.102 8987	9.894 8955	60	725	
276	9.792 0064	96	9.897 1169	156	0.102 8831	9.894 8895	60	724	
		96		156			60		
277	9.792 0160		9.897 1325		0.102 8675	9.894 8835		723	
278	9.792 0256	96	9.897 1481	156	0.102 8519	9.894 8776	59	722	
279	9.792 0352	96	9.897 1637	156	0.102 8363	9.894 8716	60	721	
		97		156			60		
.280	9.792 0449		9.897 1793		0.102 8207	9.894 8656		.720	
		96		155			60		
281	9.792 0545		9.897 1948		0.102 8052	9.894 8596		719	
282	9.792 0641	96	9.897 2104	156	0.102 7896	9.894 8536	60	718	
283	9.792 0737	96	9.897 2260	156	0.102 7740	9.894 8477	59	717	
		96		156			60		
284	9.792 0833		9.897 2416		0.102 7584	9.894 8417		716	
285	9.792 0929	96	9.897 2572	156	0.102 7428	9.894 8357	60	715	
286	9.792 1025	96	9.897 2728	156	0.102 7272	9.894 8297	60	714	
		96		156			60		
287	9.792 1121		9.897 2884		0.102 7116	9.894 8237		713	
288	9.792 1217	96	9.897 3039	155	0.102 6961	9.894 8177	60	712	
289	9.792 1313	96	9.897 3195	156	0.102 6805	9.894 8118	59	711	
		96		156			60		
.290	9.792 1409		9.897 3351		0.102 6649	9.894 8058		.710	
		96		156			60		
291	9.792 1505		9.897 3507		0.102 6493	9.894 7998		709	
292	9.792 1601	96	9.897 3663	156	0.102 6337	9.894 7938	60	708	
293	9.792 1697	96	9.897 3819	156	0.102 6181	9.894 7878	60	707	
		96		156			60		
294	9.792 1793		9.897 3975		0.102 6025	9.894 7818		706	
295	9.792 1889	96	9.897 4130	155	0.102 5870	9.894 7758	60	705	
296	9.792 1985	96	9.897 4286	156	0.102 5714	9.894 7699	59	704	
		96		156			60		
297	9.792 2081		9.897 4442		0.102 5558	9.894 7639		703	
298	9.792 2177	96	9.897 4598	156	0.102 5402	9.894 7579	60	702	
299	9.792 2273	96	9.897 4754	156	0.102 5246	9.894 7519	60	701	
		96		156			60		
.300	9.792 2369		9.897 4910		0.102 5090	9.894 7459		.700	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	97	96
1	9.7	9.6
2	19.4	19.2
3	29.1	28.8
4	38.8	38.4
5	48.5	48.0
6	58.2	57.6
7	67.9	67.2
8	77.6	76.8
9	87.3	86.4

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

51°.750 — 51°.700

38°.300 — 38°.350

38°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.792 2369		9.897 4910		0.102 5090	9.894 7459		**.700**	
		96		155			60		
301	9.792 2465		9.897 5065		0.102 4935	9.894 7399		699	
302	9.792 2561	96	9.897 5221	156	0.102 4779	9.894 7339	60	698	
303	9.792 2657	96	9.897 5377	156	0.102 4623	9.894 7280	59	697	
		96		156			60		
304	9.792 2753		9.897 5533		0.102 4467	9.894 7220		696	
305	9.792 2849	96	9.897 5689	156	0.102 4311	9.894 7160	60	695	
306	9.792 2945	96	9.897 5845	156	0.102 4155	9.894 7100	60	694	
		96		155			60		
307	9.792 3041		9.897 6000		0.102 4000	9.894 7040		693	
308	9.792 3137	96	9.897 6156	156	0.102 3844	9.894 6980	60	692	
309	9.792 3232	95	9.897 6312	156	0.102 3688	9.894 6920	60	691	
		96		156			60		
.310	9.792 3328		9.897 6468		0.102 3532	9.894 6860		**.690**	
		96		156			59		
311	9.792 3424		9.897 6624		0.102 3376	9.894 6801		689	
312	9.792 3520	96	9.897 6780	156	0.102 3220	9.894 6741	60	688	
313	9.792 3616	96	9.897 6935	155	0.102 3065	9.894 6681	60	687	
		96		156			60		
314	9.792 3712		9.897 7091		0.102 2909	9.894 6621		686	
315	9.792 3808	96	9.897 7247	156	0.102 2753	9.894 6561	60	685	
316	9.792 3904	96	9.897 7403	156	0.102 2597	9.894 6501	60	684	
		96		156			60		
317	9.792 4000		9.897 7559		0.102 2441	9.894 6441		683	
318	9.792 4096	96	9.897 7715	156	0.102 2285	9.894 6381	60	682	
319	9.792 4192	96	9.897 7870	155	0.102 2130	9.894 6321	60	681	
		96		156			59		
.320	9.792 4288		9.897 8026		0.102 1974	9.894 6262		**.680**	
		96		156			60		
321	9.792 4384		9.897 8182		0.102 1818	9.894 6202		679	
322	9.792 4479	95	9.897 8338	156	0.102 1662	9.894 6142	60	678	
323	9.792 4575	96	9.897 8494	156	0.102 1506	9.894 6082	60	677	
		96		155			60		
324	9.792 4671		9.897 8649		0.102 1351	9.894 6022		676	
325	9.792 4767	96	9.897 8805	156	0.102 1195	9.894 5962	60	675	
326	9.792 4863	96	9.897 8961	156	0.102 1039	9.894 5902	60	674	
		96		156			60		
327	9.792 4959		9.897 9117		0.102 0883	9.894 5842		673	
328	9.792 5055	96	9.897 9273	156	0.102 0727	9.894 5782	60	672	
329	9.792 5151	96	9.897 9428	155	0.102 0572	9.894 5722	60	671	
		96		156			60		
.330	9.792 5247		9.897 9584		0.102 0416	9.894 5662		**.670**	
		95		156			60		
331	9.792 5342		9.897 9740		0.102 0260	9.894 5602		669	
332	9.792 5438	96	9.897 9896	156	0.102 0104	9.894 5542	60	668	
333	9.792 5534	96	9.898 0052	156	0.101 9948	9.894 5483	59	667	
		96		155			60		
334	9.792 5630		9.898 0207		0.101 9793	9.894 5423		666	
335	9.792 5726	96	9.898 0363	156	0.101 9637	9.894 5363	60	665	
336	9.792 5822	96	9.898 0519	156	0.101 9481	9.894 5303	60	664	
		96		156			60		
337	9.792 5918		9.898 0675		0.101 9325	9.894 5243		663	
338	9.792 6013	95	9.898 0831	156	0.101 9169	9.894 5183	60	662	
339	9.792 6109	96	9.898 0986	155	0.101 9014	9.894 5123	60	661	
		96		156			60		
.340	9.792 6205		9.898 1142		0.101 8858	9.894 5063		**.660**	
		96		156			60		
341	9.792 6301		9.898 1298		0.101 8702	9.894 5003		659	
342	9.792 6397	96	9.898 1454	156	0.101 8546	9.894 4943	60	658	
343	9.792 6493	96	9.898 1610	156	0.101 8390	9.894 4883	60	657	
		95		155			60		
344	9.792 6588		9.898 1765		0.101 8235	9.894 4823		656	
345	9.792 6684	96	9.898 1921	156	0.101 8079	9.894 4763	60	655	
346	9.792 6780	96	9.898 2077	156	0.101 7923	9.894 4703	60	654	
		96		156			60		
347	9.792 6876		9.898 2233		0.101 7767	9.894 4643		653	
348	9.792 6972	96	9.898 2388	155	0.101 7612	9.894 4583	60	652	
349	9.792 7068	96	9.898 2544	156	0.101 7456	9.894 4523	60	651	
		95		156			60		
.350	9.792 7163		9.898 2700		0.101 7300	9.894 4463		**.650**	
	cos	d	cotg	d	tang	sin	d	**51°**	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	96	95
1	9.6	9.5
2	19.2	19.0
3	28.8	28.5
4	38.4	38.0
5	48.0	47.5
6	57.6	57.0
7	67.2	66.5
8	76.8	76.0
9	86.4	85.5

	60	59
1	6.0	5.9
2	12.0	11.8
3	18.0	17.7
4	24.0	23.6
5	30.0	29.5
6	36.0	35.4
7	42.0	41.3
8	48.0	47.2
9	54.0	53.1

51°.700 — 51°.650

38°.350 — 38°.400

38°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.792 7163		9.898 2700		0.101 7300	9.894 4463		.650	
		96		156			60		
351	9.792 7259		9.898 2856		0.101 7144	9.894 4403		649	
352	9.792 7355	96	9.898 3012	156	0.101 6988	9.894 4343	60	648	
353	9.792 7451	96	9.898 3167	155	0.101 6833	9.894 4283	60	647	
		96		156			60		
354	9.792 7547		9.898 3323		0.101 6677	9.894 4223		646	
355	9.792 7642	95	9.898 3479	156	0.101 6521	9.894 4164	59	645	
356	9.792 7738	96	9.898 3635	156	0.101 6365	9.894 4104	60	644	
		96		155			60		
357	9.792 7834		9.898 3790		0.101 6210	9.894 4044		643	
358	9.792 7930	96	9.898 3946	156	0.101 6054	9.894 3984	60	642	
359	9.792 8025	95	9.898 4102	156	0.101 5898	9.894 3924	60	641	
		96		156			60		
.360	9.792 8121		9.898 4258		0.101 5742	9.894 3864		.640	
		96		155			60		
361	9.792 8217		9.898 4413		0.101 5587	9.894 3804		639	
362	9.792 8313	96	9.898 4569	156	0.101 5431	9.894 3744	60	638	
363	9.792 8409	96	9.898 4725	156	0.101 5275	9.894 3684	60	637	
		95		156			60		
364	9.792 8504		9.898 4881		0.101 5119	9.894 3624		636	
365	9.792 8600	96	9.898 5036	155	0.101 4964	9.894 3564	60	635	
366	9.792 8696	96	9.898 5192	156	0.101 4808	9.894 3504	60	634	
		96		156			60		
367	9.792 8792		9.898 5348		0.101 4652	9.894 3444		633	
368	9.792 8887	95	9.898 5504	156	0.101 4496	9.894 3384	60	632	
369	9.792 8983	96	9.898 5659	155	0.101 4341	9.894 3324	60	631	
		96		156			60		
.370	9.792 9079		9.898 5815		0.101 4185	9.894 3264		.630	
		96		156			60		
371	9.792 9175		9.898 5971		0.101 4029	9.894 3204		629	
372	9.792 9270	95	9.898 6127	156	0.101 3873	9.894 3144	60	628	
373	9.792 9366	96	9.898 6282	155	0.101 3718	9.894 3084	60	627	
		96		156			61		
374	9.792 9462		9.898 6438		0.101 3562	9.894 3023		626	
375	9.792 9557	95	9.898 6594	156	0.101 3406	9.894 2963	60	625	
376	9.792 9653	96	9.898 6750	156	0.101 3250	9.894 2903	60	624	
		96		155			60		
377	9.792 9749		9.898 6905		0.101 3095	9.894 2843		623	
378	9.792 9845	96	9.898 7061	156	0.101 2939	9.894 2783	60	622	
379	9.792 9940	95	9.898 7217	156	0.101 2783	9.894 2723	60	621	
		96		156			60		
.380	9.793 0036		9.898 7373		0.101 2627	9.894 2663		.620	
		96		155			60		
381	9.793 0132		9.898 7528		0.101 2472	9.894 2603		619	
382	9.793 0227	95	9.898 7684	156	0.101 2316	9.894 2543	60	618	
383	9.793 0323	96	9.898 7840	156	0.101 2160	9.894 2483	60	617	
		96		156			60		
384	9.793 0419		9.898 7996		0.101 2004	9.894 2423		616	
385	9.793 0514	95	9.898 8151	155	0.101 1849	9.894 2363	60	615	
386	9.793 0610	96	9.898 8307	156	0.101 1693	9.894 2303	60	614	
		96		156			60		
387	9.793 0706		9.898 8463		0.101 1537	9.894 2243		613	
388	9.793 0802	96	9.898 8619	156	0.101 1381	9.894 2183	60	612	
389	9.793 0897	95	9.898 8774	155	0.101 1226	9.894 2123	60	611	
		96		156			60		
.390	9.793 0993		9.898 8930		0.101 1070	9.894 2063		.610	
		96		156			60		
391	9.793 1089		9.898 9086		0.101 0914	9.894 2003		609	
392	9.793 1184	95	9.898 9241	155	0.101 0759	9.894 1943	60	608	
393	9.793 1280	96	9.898 9397	156	0.101 0603	9.894 1883	60	607	
		96		156			60		
394	9.793 1376		9.898 9553		0.101 0447	9.894 1823		606	
395	9.793 1471	95	9.898 9709	156	0.101 0291	9.894 1763	60	605	
396	9.793 1567	96	9.898 9864	155	0.101 0136	9.894 1703	60	604	
		95		156			61		
397	9.793 1662		9.899 0020		0.100 9980	9.894 1642		603	
398	9.793 1758	96	9.899 0176	156	0.100 9824	9.894 1582	60	602	
399	9.793 1854	96	9.899 0331	155	0.100 9669	9.894 1522	60	601	
		95		156			60		
.400	9.793 1949		9.899 0487		0.100 9513	9.894 1462		.600	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	96	95
1	9.6	9.5
2	19.2	19.0
3	28.8	28.5
4	38.4	38.0
5	48.0	47.5
6	57.6	57.0
7	67.2	66.5
8	76.8	76.0
9	86.4	85.5

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

	59
1	5.9
2	11.8
3	17.7
4	23.6
5	29.5
6	35.4
7	41.3
8	47.2
9	53.1

51°.650 — 51°.600

$38^\circ.400 - 38^\circ.450$

38°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.793 1949		9.899 0487		0.100 9513	9.894 1462		.600	
		96		156			60		
401	9.793 2045		9.899 0643		0.100 9357	9.894 1402		599	
402	9.793 2141	96	9.899 0799	156	0.100 9201	9.894 1342	60	598	
403	9.793 2236	95	9.899 0954	155	0.100 9046	9.894 1282	60	597	
		96		156			60		
404	9.793 2332		9.899 1110		0.100 8890	9.894 1222		596	
405	9.793 2428	96	9.899 1266	156	0.100 8734	9.894 1162	60	595	
406	9.793 2523	95	9.899 1421	155	0.100 8579	9.894 1102	60	594	
		96		156			60		
407	9.793 2619		9.899 1577		0.100 8423	9.894 1042		593	
408	9.793 2714	95	9.899 1733	156	0.100 8267	9.894 0982	60	592	
409	9.793 2810	96	9.899 1889	156	0.100 8111	9.894 0921	61	591	
		96		155			60		
.410	9.793 2906		9.899 2044		0.100 7956	9.894 0861		.590	
		95		156			60		
411	9.793 3001		9.899 2200		0.100 7800	9.894 0801		589	
412	9.793 3097	96	9.899 2356	156	0.100 7644	9.894 0741	60	588	
413	9.793 3192	95	9.899 2511	155	0.100 7489	9.894 0681	60	587	
		96		156			60		
414	9.793 3288		9.899 2667		0.100 7333	9.894 0621		586	
415	9.793 3384	96	9.899 2823	156	0.100 7177	9.894 0561	60	585	
416	9.793 3479	95	9.899 2978	155	0.100 7022	9.894 0501	60	584	
		96		156			60		
417	9.793 3575		9.899 3134		0.100 6866	9.894 0441		583	
418	9.793 3670	95	9.899 3290	156	0.100 6710	9.894 0380	61	582	
419	9.793 3766	96	9.899 3445	155	0.100 6555	9.894 0320	60	581	
		95		156			60		
.420	9.793 3861		9.899 3601		0.100 6399	9.894 0260		.580	
		96		156			60		
421	9.793 3957		9.899 3757		0.100 6243	9.894 0200		579	
422	9.793 4052	95	9.899 3913	156	0.100 6087	9.894 0140	60	578	
423	9.793 4148	96	9.899 4068	155	0.100 5932	9.894 0080	60	577	
		96		156			60		
424	9.793 4244		9.899 4224		0.100 5776	9.894 0020		576	
425	9.793 4339	95	9.899 4380	156	0.100 5620	9.893 9960	60	575	
426	9.793 4435	96	9.899 4535	155	0.100 5465	9.893 9899	61	574	
		95		156			60		
427	9.793 4530		9.899 4691		0.100 5309	9.893 9839		573	
428	9.793 4626	96	9.899 4847	156	0.100 5153	9.893 9779	60	572	
429	9.793 4721	95	9.899 5002	155	0.100 4998	9.893 9719	60	571	
		96		156			60		
.430	9.793 4817		9.899 5158		0.100 4842	9.893 9659		.570	
		95		156			60		
431	9.793 4912		9.899 5314		0.100 4686	9.893 9599		569	
432	9.793 5008	96	9.899 5469	155	0.100 4531	9.893 9539	60	568	
433	9.793 5103	95	9.899 5625	156	0.100 4375	9.893 9478	61	567	
		96		156			60		
434	9.793 5199		9.899 5781		0.100 4219	9.893 9418		566	
435	9.793 5294	95	9.899 5936	155	0.100 4064	9.893 9358	60	565	
436	9.793 5390	96	9.899 6092	156	0.100 3908	9.893 9298	60	564	
		95		156			60		
437	9.793 5485		9.899 6248		0.100 3752	9.893 9238		563	
438	9.793 5581	96	9.899 6403	155	0.100 3597	9.893 9178	60	562	
439	9.793 5677	96	9.899 6559	156	0.100 3441	9.893 9118	60	561	
		95		156			61		
.440	9.793 5772		9.899 6715		0.100 3285	9.893 9057		.560	
		95		155			60		
441	9.793 5867		9.899 6870		0.100 3130	9.893 8997		559	
442	9.793 5963	96	9.899 7026	156	0.100 2974	9.893 8937	60	558	
443	9.793 6058	95	9.899 7182	156	0.100 2818	9.893 8877	60	557	
		96		155			60		
444	9.793 6154		9.899 7337		0.100 2663	9.893 8817		556	
445	9.793 6249	95	9.899 7493	156	0.100 2507	9.893 8757	60	555	
446	9.793 6345	96	9.899 7649	156	0.100 2351	9.893 8696	61	554	
		95		155			60		
447	9.793 6440		9.899 7804		0.100 2196	9.893 8636		553	
448	9.793 6536	96	9.899 7960	156	0.100 2040	9.893 8576	60	552	
449	9.793 6631	95	9.899 8115	155	0.100 1885	9.893 8516	60	551	
		96		156			60		
.450	9.793 6727		9.899 8271		0.100 1729	9.893 8456		.550	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	96	95
1	9.6	9.5
2	19.2	19.0
3	28.8	28.5
4	38.4	38.0
5	48.0	47.5
6	57.6	57.0
7	67.2	66.5
8	76.8	76.0
9	86.4	85.5

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

$51^\circ.600 - 51^\circ.550$

38°.450 — 38°.500

38°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.793 6727		9.899 8271		0.100 1729	9.893 8456		.550	
		95		156			61		
451	9.793 6822		9.899 8427		0.100 1573	9.893 8395		549	
452	9.793 6918	96	9.899 8582	155	0.100 1418	9.893 8335	60	548	
453	9.793 7013	95	9.899 8738	156	0.100 1262	9.893 8275	60	547	
		96		156			60		
454	9.793 7109		9.899 8894		0.100 1106	9.893 8215		546	
455	9.793 7204	95	9.899 9049	155	0.100 0951	9.893 8155	60	545	
456	9.793 7300	96	9.899 9205	156	0.100 0795	9.893 8095	60	544	
		95		156			61		
457	9.793 7395		9.899 9361		0.100 0639	9.893 8034		543	
458	9.793 7490	95	9.899 9516	155	0.100 0484	9.893 7974	60	542	
459	9.793 7586	96	9.899 9672	156	0.100 0328	9.893 7914	60	541	
		95		156			60		
.460	9.793 7681		9.899 9828		0.100 0172	9.893 7854		.540	
		96		155			61		
461	9.793 7777		9.899 9983		0.100 0017	9.893 7793		539	
462	9.793 7872	95	9.900 0139	156	0.099 9861	9.893 7733	60	538	
463	9.793 7968	96	9.900 0294	155	0.099 9706	9.893 7673	60	537	
		95		156			60		
464	9.793 8063		9.900 0450		0.099 9550	9.893 7613		536	
465	9.793 8158	95	9.900 0606	156	0.099 9394	9.893 7553	60	535	
466	9.793 8254	96	9.900 0761	155	0.099 9239	9.893 7492	61	534	
		95		156			60		
467	9.793 8349		9.900 0917		0.099 9083	9.893 7432		533	
468	9.793 8445	96	9.900 1073	156	0.099 8927	9.893 7372	60	532	
469	9.793 8540	95	9.900 1228	155	0.099 8772	9.893 7312	60	531	
		95		156			60		
.470	9.793 8635		9.900 1384		0.099 8616	9.893 7252		.530	
		96		155			61		
471	9.793 8731		9.900 1539		0.099 8461	9.893 7191		529	
472	9.793 8826	95	9.900 1695	156	0.099 8305	9.893 7131	60	528	
473	9.793 8922	96	9.900 1851	156	0.099 8149	9.893 7071	60	527	
		95		155			60		
474	9.793 9017		9.900 2006		0.099 7994	9.893 7011		526	
475	9.793 9112	95	9.900 2162	156	0.099 7838	9.893 6950	61	525	
476	9.793 9208	96	9.900 2318	156	0.099 7682	9.893 6890	60	524	
		95		155			60		
477	9.793 9303		9.900 2473		0.099 7527	9.893 6830		523	
478	9.793 9398	95	9.900 2629	156	0.099 7371	9.893 6770	60	522	
479	9.793 9494	96	9.900 2784	155	0.099 7216	9.893 6709	61	521	
		95		156			60		
.480	9.793 9589		9.900 2940		0.099 7060	9.893 6649		.520	
		96		156			60		
481	9.793 9685		9.900 3096		0.099 6904	9.893 6589		519	
482	9.793 9780	95	9.900 3251	155	0.099 6749	9.893 6529	60	518	
483	9.793 9875	95	9.900 3407	156	0.099 6593	9.893 6468	61	517	
		96		155			60		
484	9.793 9971		9.900 3562		0.099 6438	9.893 6408		516	
485	9.794 0066	95	9.900 3718	156	0.099 6282	9.893 6348	60	515	
486	9.794 0161	95	9.900 3874	156	0.099 6126	9.893 6288	60	514	
		96		155			61		
487	9.794 0257		9.900 4029		0.099 5971	9.893 6227		513	
488	9.794 0352	95	9.900 4185	156	0.099 5815	9.893 6167	60	512	
489	9.794 0447	95	9.900 4340	155	0.099 5660	9.893 6107	60	511	
		96		156			60		
.490	9.794 0543		9.900 4496		0.099 5504	9.893 6047		.510	
		95		156			61		
491	9.794 0638		9.900 4652		0.099 5348	9.893 5986		509	
492	9.794 0733	95	9.900 4807	155	0.099 5193	9.893 5926	60	508	
493	9.794 0829	96	9.900 4963	156	0.099 5037	9.893 5866	60	507	
		95		155			61		
494	9.794 0924		9.900 5118		0.099 4882	9.893 5805		506	
495	9.794 1019	95	9.900 5274	156	0.099 4726	9.893 5745	60	505	
496	9.794 1114	95	9.900 5430	156	0.099 4570	9.893 5685	60	504	
		96		155			60		
497	9.794 1210		9.900 5585		0.099 4415	9.893 5625		503	
498	9.794 1305	95	9.900 5741	156	0.099 4259	9.893 5564	61	502	
499	9.794 1400	95	9.900 5896	155	0.099 4104	9.893 5504	60	501	
		96		156			60		
.500	9.794 1496		9.900 6052		0.099 3948	9.893 5444		.500	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	96	95
1	9.6	9.5
2	19.2	19.0
3	28.8	28.5
4	38.4	38.0
5	48.0	47.5
6	57.6	57.0
7	67.2	66.5
8	76.8	76.0
9	86.4	85.5

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

51°.550 — 51°.500

38°.500 — 38°.550

38°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.794 1496		9.900 6052		0.099 3948	9.893 5444		.500	
		95		156			61		
501	9.794 1591		9.900 6208		0.099 3792	9.893 5383		499	
502	9.794 1686	95	9.900 6363	155	0.099 3637	9.893 5323	60	498	
503	9.794 1782	96	9.900 6519	156	0.099 3481	9.893 5263	60	497	
		95		155			60		
504	9.794 1877		9.900 6674		0.099 3326	9.893 5203		496	
505	9.794 1972	95	9.900 6830	156	0.099 3170	9.893 5142	61	495	
506	9.794 2067	95	9.900 6985	155	0.099 3015	9.893 5082	60	494	
		96		156			60		
507	9.794 2163		9.900 7141		0.099 2859	9.893 5022		493	
508	9.794 2258	95	9.900 7297	156	0.099 2703	9.893 4961	61	492	
509	9.794 2353	95	9.900 7452	155	0.099 2548	9.893 4901	60	491	
		95		156			60		
.510	9.794 2448		9.900 7608		0.099 2392	9.893 4841		.490	
		96		155			61		
511	9.794 2544		9.900 7763		0.099 2237	9.893 4780		489	
512	9.794 2639	95	9.900 7919	156	0.099 2081	9.893 4720	60	488	
513	9.794 2734	95	9.900 8074	155	0.099 1926	9.893 4660	60	487	
		95		156			61		
514	9.794 2829		9.900 8230		0.099 1770	9.893 4599		486	
515	9.794 2925	96	9.900 8386	156	0.099 1614	9.893 4539	60	485	
516	9.794 3020	95	9.900 8541	155	0.099 1459	9.893 4479	60	484	
		95		156			61		
517	9.794 3115		9.900 8697		0.099 1303	9.893 4418		483	
518	9.794 3210	95	9.900 8852	155	0.099 1148	9.893 4358	60	482	
519	9.794 3306	96	9.900 9008	156	0.099 0992	9.893 4298	60	481	
		95		155			61		
.520	9.794 3401		9.900 9163		0.099 0837	9.893 4237		.480	
		95		156			60		
521	9.794 3496		9.900 9319		0.099 0681	9.893 4177		479	
522	9.794 3591	95	9.900 9475	156	0.099 0525	9.893 4117	60	478	
523	9.794 3686	95	9.900 9630	155	0.099 0370	9.893 4056	61	477	
		96		156			60		
524	9.794 3782		9.900 9786		0.099 0214	9.893 3996		476	
525	9.794 3877	95	9.900 9941	155	0.099 0059	9.893 3936	60	475	
526	9.794 3972	95	9.901 0097	156	0.098 9903	9.893 3875	61	474	
		95		155			60		
527	9.794 4067		9.901 0252		0.098 9748	9.893 3815		473	
528	9.794 4163	96	9.901 0408	156	0.098 9592	9.893 3755	60	472	
529	9.794 4258	95	9.901 0563	155	0.098 9437	9.893 3694	61	471	
		95		156			60		
.530	9.794 4353		9.901 0719		0.098 9281	9.893 3634		.470	
		95		156			60		
531	9.794 4448		9.901 0875		0.098 9125	9.893 3574		469	
532	9.794 4543	95	9.901 1030	155	0.098 8970	9.893 3513	61	468	
533	9.794 4638	95	9.901 1186	156	0.098 8814	9.893 3453	60	467	
		96		155			61		
534	9.794 4734		9.901 1341		0.098 8659	9.893 3392		466	
535	9.794 4829	95	9.901 1497	156	0.098 8503	9.893 3332	60	465	
536	9.794 4924	95	9.901 1652	155	0.098 8348	9.893 3272	60	464	
		95		156			61		
537	9.794 5019		9.901 1808		0.098 8192	9.893 3211		463	
538	9.794 5114	95	9.901 1963	155	0.098 8037	9.893 3151	60	462	
539	9.794 5209	95	9.901 2119	156	0.098 7881	9.893 3091	60	461	
		96		155			61		
.540	9.794 5305		9.901 2274		0.098 7726	9.893 3030		.460	
		95		156			60		
541	9.794 5400		9.901 2430		0.098 7570	9.893 2970		459	
542	9.794 5495	95	9.901 2585	155	0.098 7415	9.893 2909	61	458	
543	9.794 5590	95	9.901 2741	156	0.098 7259	9.893 2849	60	457	
		95		155			60		
544	9.794 5685		9.901 2896		0.098 7104	9.893 2789		456	
545	9.794 5780	95	9.901 3052	156	0.098 6948	9.893 2728	61	455	
546	9.794 5875	95	9.901 3208	156	0.098 6792	9.893 2668	60	454	
		96		155			60		
547	9.794 5971		9.901 3363		0.098 6637	9.893 2608		453	
548	9.794 6066	95	9.901 3519	156	0.098 6481	9.893 2547	61	452	
549	9.794 6161	95	9.901 3674	155	0.098 6326	9.893 2487	60	451	
		95		156			61		
.550	9.794 6256		9.901 3830		0.098 6170	9.893 2426		.450	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	96	95
1	9.6	9.5
2	19.2	19.0
3	28.8	28.5
4	38.4	38.0
5	48.0	47.5
6	57.6	57.0
7	67.2	66.5
8	76.8	76.0
9	86.4	85.5

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

51°.500 — 51°.450

38°.550 — 38°.600

38°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.794 6256		9.901 3830		0.098 6170	9.893 2426		.450	
		95		155			60		
551	9.794 6351		9.901 3985		0.098 6015	9.893 2366		449	
		95		156			60		
552	9.794 6446		9.901 4141		0.098 5859	9.893 2306		448	
		95		155			61		
553	9.794 6541		9.901 4296		0.098 5704	9.893 2245		447	
		95		156			60		
554	9.794 6636		9.901 4452		0.098 5548	9.893 2185		446	
		96		155			61		
555	9.794 6732		9.901 4607		0.098 5393	9.893 2124		445	
		95		156			60		
556	9.794 6827		9.901 4763		0.098 5237	9.893 2064		444	
		95		155			61		
557	9.794 6922		9.901 4918		0.098 5082	9.893 2003		443	
		95		156			60		
558	9.794 7017		9.901 5074		0.098 4926	9.893 1943		442	
		95		155			60		
559	9.794 7112		9.901 5229		0.098 4771	9.893 1883		441	
		95		156			61		
.560	9.794 7207		9.901 5385		0.098 4615	9.893 1822		.440	
		95		155			60		
561	9.794 7302		9.901 5540		0.098 4460	9.893 1762		439	
		95		156			61		
562	9.794 7397		9.901 5696		0.098 4304	9.893 1701		438	
		95		155			60		
563	9.794 7492		9.901 5851		0.098 4149	9.893 1641		437	
		95		156			60		
564	9.794 7587		9.901 6007		0.098 3993	9.893 1581		436	
		95		155			61		
565	9.794 7682		9.901 6162		0.098 3838	9.893 1520		435	
		96		156			60		
566	9.794 7778		9.901 6318		0.098 3682	9.893 1460		434	
		95		155			61		
567	9.794 7873		9.901 6473		0.098 3527	9.893 1399		433	
		95		156			60		
568	9.794 7968		9.901 6629		0.098 3371	9.893 1339		432	
		95		155			61		
569	9.794 8063		9.901 6784		0.098 3216	9.893 1278		431	
		95		156			60		
.570	9.794 8158		9.901 6940		0.098 3060	9.893 1218		.430	
		95		155			61		
571	9.794 8253		9.901 7095		0.098 2905	9.893 1157		429	
		95		156			60		
572	9.794 8348		9.901 7251		0.098 2749	9.893 1097		428	
		95		155			60		
573	9.794 8443		9.901 7406		0.098 2594	9.893 1037		427	
		95		156			61		
574	9.794 8538		9.901 7562		0.098 2438	9.893 0976		426	
		95		155			60		
575	9.794 8633		9.901 7717		0.098 2283	9.893 0916		425	
		95		156			61		
576	9.794 8728		9.901 7873		0.098 2127	9.893 0855		424	
		95		155			60		
577	9.794 8823		9.901 8028		0.098 1972	9.893 0795		423	
		95		156			61		
578	9.794 8918		9.901 8184		0.098 1816	9.893 0734		422	
		95		155			60		
579	9.794 9013		9.901 8339		0.098 1661	9.893 0674		421	
		95		156			61		
.580	9.794 9108		9.901 8495		0.098 1505	9.893 0613		.420	
		95		155			60		
581	9.794 9203		9.901 8650		0.098 1350	9.893 0553		419	
		95		156			61		
582	9.794 9298		9.901 8806		0.098 1194	9.893 0492		418	
		95		155			60		
583	9.794 9393		9.901 8961		0.098 1039	9.893 0432		417	
		95		156			61		
584	9.794 9488		9.901 9117		0.098 0883	9.893 0371		416	
		95		155			60		
585	9.794 9583		9.901 9272		0.098 0728	9.893 0311		415	
		95		156			60		
586	9.794 9678		9.901 9428		0.098 0572	9.893 0251		414	
		95		155			61		
587	9.794 9773		9.901 9583		0.098 0417	9.893 0190		413	
		95		156			60		
588	9.794 9868		9.901 9739		0.098 0261	9.893 0130		412	
		95		155			61		
589	9.794 9963		9.901 9894		0.098 0106	9.893 0069		411	
		95		156			60		
.590	9.795 0058		9.902 0050		0.097 9950	9.893 0009		.410	
		95		155			61		
591	9.795 0153		9.902 0205		0.097 9795	9.892 9948		409	
		95		156			60		
592	9.795 0248		9.902 0361		0.097 9639	9.892 9888		408	
		95		155			61		
593	9.795 0343		9.902 0516		0.097 9484	9.892 9827		407	
		95		155			60		
594	9.795 0438		9.902 0671		0.097 9329	9.892 9767		406	
		95		156			61		
595	9.795 0533		9.902 0827		0.097 9173	9.892 9706		405	
		95		155			60		
596	9.795 0628		9.902 0982		0.097 9018	9.892 9646		404	
		95		156			61		
597	9.795 0723		9.902 1138		0.097 8862	9.892 9585		403	
		95		155			60		
598	9.795 0818		9.902 1293		0.097 8707	9.892 9525		402	
		95		156			61		
599	9.795 0913		9.902 1449		0.097 8551	9.892 9464		401	
		95		155			60		
.600	9.795 1008		9.902 1604		0.097 8396	9.892 9404		.400	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	96	95
1	9.6	9.5
2	19.2	19.0
3	28.8	28.5
4	38.4	38.0
5	48.0	47.5
6	57.6	57.0
7	67.2	66.5
8	76.8	76.0
9	86.4	85.5

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

51°.450 — 51°.400

38°.600 — 38°.650

38°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.795 1008		9.902 1604		0.097 8396	9.892 9404		.400	
		95		156			61		
601	9.795 1103		9.902 1760		0.097 8240	9.892 9343		399	
602	9.795 1198	95	9.902 1915	155	0.097 8085	9.892 9283	60	398	
603	9.795 1293	95	9.902 2071	156	0.097 7929	9.892 9222	61	397	
		95		155			60		
604	9.795 1388		9.902 2226		0.097 7774	9.892 9162		396	
605	9.795 1483	95	9.902 2382	156	0.097 7618	9.892 9101	61	395	
606	9.795 1577	94	9.902 2537	155	0.097 7463	9.892 9040	61	394	
		95		155			60		
607	9.795 1672		9.902 2692		0.097 7308	9.892 8980		393	
608	9.795 1767	95	9.902 2848	156	0.097 7152	9.892 8919	61	392	
609	9.795 1862	95	9.902 3003	155	0.097 6997	9.892 8859	60	391	
		95		156			61		
.610	9.795 1957		9.902 3159		0.097 6841	9.892 8798		.390	
		95		155			60		
611	9.795 2052		9.902 3314		0.097 6686	9.892 8738		389	
612	9.795 2147	95	9.902 3470	156	0.097 6530	9.892 8677	61	388	
613	9.795 2242	95	9.902 3625	155	0.097 6375	9.892 8617	60	387	
		95		156			61		
614	9.795 2337		9.902 3781		0.097 6219	9.892 8556		386	
615	9.795 2432	95	9.902 3936	155	0.097 6064	9.892 8496	60	385	
616	9.795 2527	95	9.902 4091	155	0.097 5909	9.892 8435	61	384	
		95		156			60		
617	9.795 2622		9.902 4247		0.097 5753	9.892 8375		383	
618	9.795 2716	94	9.902 4402	155	0.097 5598	9.892 8314	61	382	
619	9.795 2811	95	9.902 4558	156	0.097 5442	9.892 8254	60	381	
		95		155			61		
.620	9.795 2906		9.902 4713		0.097 5287	9.892 8193		.380	
		95		156			61		
621	9.795 3001		9.902 4869		0.097 5131	9.892 8132		379	
622	9.795 3096	95	9.902 5024	155	0.097 4976	9.892 8072	60	378	
623	9.795 3191	95	9.902 5180	156	0.097 4820	9.892 8011	61	377	
		95		155			60		
624	9.795 3286		9.902 5335		0.097 4665	9.892 7951		376	
625	9.795 3381	95	9.902 5490	155	0.097 4510	9.892 7890	61	375	
626	9.795 3475	94	9.902 5646	156	0.097 4354	9.892 7830	60	374	
		95		155			61		
627	9.795 3570		9.902 5801		0.097 4199	9.892 7769		373	
628	9.795 3665	95	9.902 5957	156	0.097 4043	9.892 7708	61	372	
629	9.795 3760	95	9.902 6112	155	0.097 3888	9.892 7648	60	371	
		95		156			61		
.630	9.795 3855		9.902 6268		0.097 3732	9.892 7587		.370	
		95		155			60		
631	9.795 3950		9.902 6423		0.097 3577	9.892 7527		369	
632	9.795 4045	95	9.902 6578	155	0.097 3422	9.892 7466	61	368	
633	9.795 4139	94	9.902 6734	156	0.097 3266	9.892 7406	60	367	
		95		155			61		
634	9.795 4234		9.902 6889		0.097 3111	9.892 7345		366	
635	9.795 4329	95	9.902 7045	156	0.097 2955	9.892 7284	61	365	
636	9.795 4424	95	9.902 7200	155	0.097 2800	9.892 7224	60	364	
		95		155			61		
637	9.795 4519		9.902 7355		0.097 2645	9.892 7163		363	
638	9.795 4614	95	9.902 7511	156	0.097 2489	9.892 7103	60	362	
639	9.795 4708	94	9.902 7666	155	0.097 2334	9.892 7042	61	361	
		95		156			61		
.640	9.795 4803		9.902 7822		0.097 2178	9.892 6981		.360	
		95		155			60		
641	9.795 4898		9.902 7977		0.097 2023	9.892 6921		359	
642	9.795 4993	95	9.902 8132	155	0.097 1868	9.892 6860	61	358	
643	9.795 5088	95	9.902 8288	156	0.097 1712	9.892 6800	60	357	
		94		155			61		
644	9.795 5182		9.902 8443		0.097 1557	9.892 6739		356	
645	9.795 5277	95	9.902 8599	156	0.097 1401	9.892 6678	61	355	
646	9.795 5372	95	9.902 8754	155	0.097 1246	9.892 6618	60	354	
		95		156			61		
647	9.795 5467		9.902 8910		0.097 1090	9.892 6557		353	
648	9.795 5562	95	9.902 9065	155	0.097 0935	9.892 6497	60	352	
649	9.795 5656	94	9.902 9220	155	0.097 0780	9.892 6436	61	351	
		95		156			61		
.650	9.795 5751		9.902 9376		0.097 0624	9.892 6375		.350	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	95	94
1	9.5	9.4
2	19.0	18.8
3	28.5	28.2
4	38.0	37.6
5	47.5	47.0
6	57.0	56.4
7	66.5	65.8
8	76.0	75.2
9	85.5	84.6

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

51°.400 — 51°.350

38°.650 — 38°.700

38°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.795 5751		9.902 9376		0.097 0624	9.892 6375		**.350**	
		95		155			60		
651	9.795 5846		9.902 9531		0.097 0469	9.892 6315		349	
652	9.795 5941	95	9.902 9687	156	0.097 0313	9.892 6254	61	348	
653	9.795 6035	94	9.902 9842	155	0.097 0158	9.892 6194	60	347	
		95		155			61		
654	9.795 6130		9.902 9997		0.097 0003	9.892 6133		346	
655	9.795 6225	95	9.903 0153	156	0.096 9847	9.892 6072	61	345	
656	9.795 6320	95	9.903 0308	155	0.096 9692	9.892 6012	60	344	
		95		155			61		
657	9.795 6415		9.903 0463		0.096 9537	9.892 5951		343	
658	9.795 6509	94	9.903 0619	156	0.096 9381	9.892 5890	61	342	
659	9.795 6604	95	9.903 0774	155	0.096 9226	9.892 5830	60	341	
		95		156			61		
.660	9.795 6699		9.903 0930		0.096 9070	9.892 5769		**.340**	
		95		155			61		
661	9.795 6794		9.903 1085		0.096 8915	9.892 5708		339	
662	9.795 6888	94	9.903 1240	155	0.096 8760	9.892 5648	60	338	
663	9.795 6983	95	9.903 1396	156	0.096 8604	9.892 5587	61	337	
		95		155			60		
664	9.795 7078		9.903 1551		0.096 8449	9.892 5527		336	
665	9.795 7172	94	9.903 1707	156	0.096 8293	9.892 5466	61	335	
666	9.795 7267	95	9.903 1862	155	0.096 8138	9.892 5405	61	334	
		95		155			60		
667	9.795 7362		9.903 2017		0.096 7983	9.892 5345		333	
668	9.795 7457	95	9.903 2173	156	0.096 7827	9.892 5284	61	332	
669	9.795 7551	94	9.903 2328	155	0.096 7672	9.892 5223	61	331	
		95		155			60		
.670	9.795 7646		9.903 2483		0.096 7517	9.892 5163		**.330**	
		95		156			61		
671	9.795 7741		9.903 2639		0.096 7361	9.892 5102		329	
672	9.795 7836	95	9.903 2794	155	0.096 7206	9.892 5041	61	328	
673	9.795 7930	94	9.903 2950	156	0.096 7050	9.892 4981	60	327	
		95		155			61		
674	9.795 8025		9.903 3105		0.096 6895	9.892 4920		326	
675	9.795 8120	95	9.903 3260	155	0.096 6740	9.892 4859	61	325	
676	9.795 8214	94	9.903 3416	156	0.096 6584	9.892 4799	60	324	
		95		155			61		
677	9.795 8309		9.903 3571		0.096 6429	9.892 4738		323	
678	9.795 8404	95	9.903 3726	155	0.096 6274	9.892 4677	61	322	
679	9.795 8498	94	9.903 3882	156	0.096 6118	9.892 4617	60	321	
		95		155			61		
.680	9.795 8593		9.903 4037		0.096 5963	9.892 4556		**.320**	
		95		156			61		
681	9.795 8688		9.903 4193		0.096 5807	9.892 4495		319	
682	9.795 8782	94	9.903 4348	155	0.096 5652	9.892 4435	60	318	
683	9.795 8877	95	9.903 4503	155	0.096 5497	9.892 4374	61	317	
		95		156			61		
684	9.795 8972		9.903 4659		0.096 5341	9.892 4313		316	
685	9.795 9066	94	9.903 4814	155	0.096 5186	9.892 4252	61	315	
686	9.795 9161	95	9.903 4969	155	0.096 5031	9.892 4192	60	314	
		95		156			61		
687	9.795 9256		9.903 5125		0.096 4875	9.892 4131		313	
688	9.795 9350	94	9.903 5280	155	0.096 4720	9.892 4070	61	312	
689	9.795 9445	95	9.903 5435	155	0.096 4565	9.892 4010	60	311	
		95		156			61		
.690	9.795 9540		9.903 5591		0.096 4409	9.892 3949		**.310**	
		94		155			61		
691	9.795 9634		9.903 5746		0.096 4254	9.892 3888		309	
692	9.795 9729	95	9.903 5901	155	0.096 4099	9.892 3828	60	308	
693	9.795 9824	95	9.903 6057	156	0.096 3943	9.892 3767	61	307	
		94		155			61		
694	9.795 9918		9.903 6212		0.096 3788	9.892 3706		306	
695	9.796 0013	95	9.903 6367	155	0.096 3633	9.892 3645	61	305	
696	9.796 0108	95	9.903 6523	156	0.096 3477	9.892 3585	60	304	
		94		155			61		
697	9.796 0202		9.903 6678		0.096 3322	9.892 3524		303	
698	9.796 0297	95	9.903 6833	155	0.096 3167	9.892 3463	61	302	
699	9.796 0391	94	9.903 6989	156	0.096 3011	9.892 3403	60	301	
		95		155			61		
.700	9.796 0486		9.903 7144		0.096 2856	9.892 3342		**.300**	
	cos	d	cotg	d	tang	sin	d	**51°**	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	95	94
1	9.5	9.4
2	19.0	18.8
3	28.5	28.2
4	38.0	37.6
5	47.5	47.0
6	57.0	56.4
7	66.5	65.8
8	76.0	75.2
9	85.5	84.6

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

51°.350 — 51°.300

38°.700 — 38°.750

38°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.796 0486		9.903 7144		0.096 2856	9.892 3342		.300	
		95		156			61		
701	9.796 0581		9.903 7300		0.096 2700	9.892 3281		299	
702	9.796 0675	94	9.903 7455	155	0.096 2545	9.892 3220	61	298	
703	9.796 0770	95	9.903 7610	155	0.096 2390	9.892 3160	60	297	
		94		156			61		
704	9.796 0864		9.903 7766		0.096 2234	9.892 3099		296	
705	9.796 0959	95	9.903 7921	155	0.096 2079	9.892 3038	61	295	
706	9.796 1054	95	9.903 8076	155	0.096 1924	9.892 2977	61	294	
		94		156			60		
707	9.796 1148		9.903 8232		0.096 1768	9.892 2917		293	
708	9.796 1243	95	9.903 8387	155	0.096 1613	9.892 2856	61	292	
709	9.796 1337	94	9.903 8542	155	0.096 1458	9.892 2795	61	291	
		95		155			61		
.710	9.796 1432		9.903 8697		0.096 1303	9.892 2734		.290	
		95		156			60		
711	9.796 1527		9.903 8853		0.096 1147	9.892 2674		289	
712	9.796 1621	94	9.903 9008	155	0.096 0992	9.892 2613	61	288	
713	9.796 1716	95	9.903 9163	155	0.096 0837	9.892 2552	61	287	
		94		156			61		
714	9.796 1810		9.903 9319		0.096 0681	9.892 2491		286	
715	9.796 1905	95	9.903 9474	155	0.096 0526	9.892 2431	60	285	
716	9.796 1999	94	9.903 9629	155	0.096 0371	9.892 2370	61	284	
		95		156			61		
717	9.796 2094		9.903 9785		0.096 0215	9.892 2309		283	
718	9.796 2188	94	9.903 9940	155	0.096 0060	9.892 2248	61	282	
719	9.796 2283	95	9.904 0095	155	0.095 9905	9.892 2188	60	281	
		95		156			61		
.720	9.796 2378		9.904 0251		0.095 9749	9.892 2127		.280	
		94		155			61		
721	9.796 2472		9.904 0406		0.095 9594	9.892 2066		279	
722	9.796 2567	95	9.904 0561	155	0.095 9439	9.892 2005	61	278	
723	9.796 2661	94	9.904 0717	156	0.095 9283	9.892 1945	60	277	
		95		155			61		
724	9.796 2756		9.904 0872		0.095 9128	9.892 1884		276	
725	9.796 2850	94	9.904 1027	155	0.095 8973	9.892 1823	61	275	
726	9.796 2945	95	9.904 1183	156	0.095 8817	9.892 1762	61	274	
		94		155			61		
727	9.796 3039		9.904 1338		0.095 8662	9.892 1701		273	
728	9.796 3134	95	9.904 1493	155	0.095 8507	9.892 1641	60	272	
729	9.796 3228	94	9.904 1648	155	0.095 8352	9.892 1580	61	271	
		95		156			61		
.730	9.796 3323		9.904 1804		0.095 8196	9.892 1519		.270	
		94		155			61		
731	9.796 3417		9.904 1959		0.095 8041	9.892 1458		269	
732	9.796 3512	95	9.904 2114	155	0.095 7886	9.892 1397	61	268	
733	9.796 3606	94	9.904 2270	156	0.095 7730	9.892 1337	60	267	
		95		155			61		
734	9.796 3701		9.904 2425		0.095 7575	9.892 1276		266	
735	9.796 3795	94	9.904 2580	155	0.095 7420	9.892 1215	61	265	
736	9.796 3890	95	9.904 2736	156	0.095 7264	9.892 1154	61	264	
		94		155			61		
737	9.796 3984		9.904 2891		0.095 7109	9.892 1093		263	
738	9.796 4079	95	9.904 3046	155	0.095 6954	9.892 1033	60	262	
739	9.796 4173	94	9.904 3201	155	0.095 6799	9.892 0972	61	261	
		95		156			61		
.740	9.796 4268		9.904 3357		0.095 6643	9.892 0911		.260	
		94		155			61		
741	9.796 4362		9.904 3512		0.095 6488	9.892 0850		259	
742	9.796 4457	95	9.904 3667	155	0.095 6333	9.892 0789	61	258	
743	9.796 4551	94	9.904 3823	156	0.095 6177	9.892 0729	60	257	
		95		155			61		
744	9.796 4646		9.904 3978		0.095 6022	9.892 0668		256	
745	9.796 4740	94	9.904 4133	155	0.095 5867	9.892 0607	61	255	
746	9.796 4835	95	9.904 4288	155	0.095 5712	9.892 0546	61	254	
		94		156			61		
747	9.796 4929		9.904 4444		0.095 5556	9.892 0485		253	
748	9.796 5023	94	9.904 4599	155	0.095 5401	9.892 0424	61	252	
749	9.796 5118	95	9.904 4754	155	0.095 5246	9.892 0364	60	251	
		94		156			61		
.750	9.796 5212		9.904 4910		0.095 5090	9.892 0303		.250	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	95	94
1	9.5	9.4
2	19.0	18.8
3	28.5	28.2
4	38.0	37.6
5	47.5	47.0
6	57.0	56.4
7	66.5	65.8
8	76.0	75.2
9	85.5	84.6

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

51°.300 — 51°.250

38°.750 — 38°.800

38°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.796 5212		9.904 4910		0.095 5090	9.892 0303		.250	
		95		155			61		
751	9.796 5307		9.904 5065		0.095 4935	9.892 0242		249	
752	9.796 5401	94	9.904 5220	155	0.095 4780	9.892 0181	61	248	
753	9.796 5496	95	9.904 5375	155	0.095 4625	9.892 0120	61	247	
		94		156			61		
754	9.796 5590		9.904 5531		0.095 4469	9.892 0059		246	
755	9.796 5685	95	9.904 5686	155	0.095 4314	9.891 9999	60	245	
756	9.796 5779	94	9.904 5841	155	0.095 4159	9.891 9938	61	244	
		94		156			61		
757	9.796 5873		9.904 5997		0.095 4003	9.891 9877		243	
758	9.796 5968	95	9.904 6152	155	0.095 3848	9.891 9816	61	242	
759	9.796 6062	94	9.904 6307	155	0.095 3693	9.891 9755	61	241	
		95		155			61		
.760	9.796 6157		9.904 6462		0.095 3538	9.891 9694		.240	
		94		156			61		
761	9.796 6251		9.904 6618		0.095 3382	9.891 9633		239	
762	9.796 6345	94	9.904 6773	155	0.095 3227	9.891 9573	60	238	
763	9.796 6440	95	9.904 6928	155	0.095 3072	9.891 9512	61	237	
		94		155			61		
764	9.796 6534		9.904 7083		0.095 2917	9.891 9451		236	
765	9.796 6629	95	9.904 7239	156	0.095 2761	9.891 9390	61	235	
766	9.796 6723	94	9.904 7394	155	0.095 2606	9.891 9329	61	234	
		94		155			61		
767	9.796 6817		9.904 7549		0.095 2451	9.891 9268		233	
768	9.796 6912	95	9.904 7704	155	0.095 2296	9.891 9207	61	232	
769	9.796 7006	94	9.904 7860	156	0.095 2140	9.891 9147	60	231	
		95		155			61		
.770	9.796 7101		9.904 8015		0.095 1985	9.891 9086		.230	
		94		155			61		
771	9.796 7195		9.904 8170		0.095 1830	9.891 9025		229	
772	9.796 7289	94	9.904 8325	155	0.095 1675	9.891 8964	61	228	
773	9.796 7384	95	9.904 8481	156	0.095 1519	9.891 8903	61	227	
		94		155			61		
774	9.796 7478		9.904 8636		0.095 1364	9.891 8842		226	
775	9.796 7572	94	9.904 8791	155	0.095 1209	9.891 8781	61	225	
776	9.796 7667	95	9.904 8946	155	0.095 1054	9.891 8720	61	224	
		94		156			61		
777	9.796 7761		9.904 9102		0.095 0898	9.891 8659		223	
778	9.796 7855	94	9.904 9257	155	0.095 0743	9.891 8599	60	222	
779	9.796 7950	95	9.904 9412	155	0.095 0588	9.891 8538	61	221	
		94		155			61		
.780	9.796 8044		9.904 9567		0.095 0433	9.891 8477		.220	
		94		156			61		
781	9.796 8138		9.904 9723		0.095 0277	9.891 8416		219	
782	9.796 8233	95	9.904 9878	155	0.095 0122	9.891 8355	61	218	
783	9.796 8327	94	9.905 0033	155	0.094 9967	9.891 8294	61	217	
		94		155			61		
784	9.796 8421		9.905 0188		0.094 9812	9.891 8233		216	
785	9.796 8516	95	9.905 0344	156	0.094 9656	9.891 8172	61	215	
786	9.796 8610	94	9.905 0499	155	0.094 9501	9.891 8111	61	214	
		94		155			61		
787	9.796 8704		9.905 0654		0.094 9346	9.891 8050		213	
788	9.796 8799	95	9.905 0809	155	0.094 9191	9.891 7989	61	212	
789	9.796 8893	94	9.905 0965	156	0.094 9035	9.891 7929	60	211	
		94		155			61		
.790	9.796 8987		9.905 1120		0.094 8880	9.891 7868		.210	
		95		155			61		
791	9.796 9082		9.905 1275		0.094 8725	9.891 7807		209	
792	9.796 9176	94	9.905 1430	155	0.094 8570	9.891 7746	61	208	
793	9.796 9270	94	9.905 1585	155	0.094 8415	9.891 7685	61	207	
		95		156			61		
794	9.796 9365		9.905 1741		0.094 8259	9.891 7624		206	
795	9.796 9459	94	9.905 1896	155	0.094 8104	9.891 7563	61	205	
796	9.796 9553	94	9.905 2051	155	0.094 7949	9.891 7502	61	204	
		94		155			61		
797	9.796 9647		9.905 2206		0.094 7794	9.891 7441		203	
798	9.796 9742	95	9.905 2362	156	0.094 7638	9.891 7380	61	202	
799	9.796 9836	94	9.905 2517	155	0.094 7483	9.891 7319	61	201	
		94		155			61		
.800	9.796 9930		9.905 2672		0.094 7328	9.891 7258		.200	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	95	94
1	9.5	9.4
2	19.0	18.8
3	28.5	28.2
4	38.0	37.6
5	47.5	47.0
6	57.0	56.4
7	66.5	65.8
8	76.0	75.2
9	85.5	84.6

	61	60
1	6.1	6.0
2	12.2	12.0
3	18.3	18.0
4	24.4	24.0
5	30.5	30.0
6	36.6	36.0
7	42.7	42.0
8	48.8	48.0
9	54.9	54.0

51°.250 — 51°.200

38°.800 — 38°.850

38°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.796 9930		9.905 2672		0.094 7328	9.891 7258		.200	
		95		155			61		
801	9.797 0025		9.905 2827		0.094 7173	9.891 7197		199	
802	9.797 0119	94	9.905 2982	155	0.094 7018	9.891 7136	61	198	
803	9.797 0213	94	9.905 3138	156	0.094 6862	9.891 7075	61	197	
		94		155			60		
804	9.797 0307		9.905 3293		0.094 6707	9.891 7015		196	
805	9.797 0402	95	9.905 3448	155	0.094 6552	9.891 6954	61	195	
806	9.797 0496	94	9.905 3603	155	0.094 6397	9.891 6893	61	194	
		94		155			61		
807	9.797 0590		9.905 3758		0.094 6242	9.891 6832		193	
808	9.797 0684	94	9.905 3914	156	0.094 6086	9.891 6771	61	192	
809	9.797 0779	95	9.905 4069	155	0.094 5931	9.891 6710	61	191	
		94		155			61		
.810	9.797 0873		9.905 4224		0.094 5776	9.891 6649		.190	
		94		155			61		
811	9.797 0967		9.905 4379		0.094 5621	9.891 6588		189	
812	9.797 1061	94	9.905 4535	156	0.094 5465	9.891 6527	61	188	
813	9.797 1156	95	9.905 4690	155	0.094 5310	9.891 6466	61	187	
		94		155			61		
814	9.797 1250		9.905 4845		0.094 5155	9.891 6405		186	
815	9.797 1344	94	9.905 5000	155	0.094 5000	9.891 6344	61	185	
816	9.797 1438	94	9.905 5155	155	0.094 4845	9.891 6283	61	184	
		95		156			61		
817	9.797 1533		9.905 5311		0.094 4689	9.891 6222		183	
818	9.797 1627	94	9.905 5466	155	0.094 4534	9.891 6161	61	182	
819	9.797 1721	94	9.905 5621	155	0.094 4379	9.891 6100	61	181	
		94		155			61		
.820	9.797 1815		9.905 5776		0.094 4224	9.891 6039		.180	
		94		155			61		
821	9.797 1909		9.905 5931		0.094 4069	9.891 5978		179	
822	9.797 2004	95	9.905 6087	156	0.094 3913	9.891 5917	61	178	
823	9.797 2098	94	9.905 6242	155	0.094 3758	9.891 5856	61	177	
		94		155			61		
824	9.797 2192		9.905 6397		0.094 3603	9.891 5795		176	
825	9.797 2286	94	9.905 6552	155	0.094 3448	9.891 5734	61	175	
826	9.797 2380	94	9.905 6707	155	0.094 3293	9.891 5673	61	174	
		95		155			61		
827	9.797 2475		9.905 6862		0.094 3138	9.891 5612		173	
828	9.797 2569	94	9.905 7018	156	0.094 2982	9.891 5551	61	172	
829	9.797 2663	94	9.905 7173	155	0.094 2827	9.891 5490	61	171	
		94		155			61		
.830	9.797 2757		9.905 7328		0.094 2672	9.891 5429		.170	
		94		155			61		
831	9.797 2851		9.905 7483		0.094 2517	9.891 5368		169	
832	9.797 2945	94	9.905 7638	155	0.094 2362	9.891 5307	61	168	
833	9.797 3040	95	9.905 7794	156	0.094 2206	9.891 5246	61	167	
		94		155			61		
834	9.797 3134		9.905 7949		0.094 2051	9.891 5185		166	
835	9.797 3228	94	9.905 8104	155	0.094 1896	9.891 5124	61	165	
836	9.797 3322	94	9.905 8259	155	0.094 1741	9.891 5063	61	164	
		94		155			61		
837	9.797 3416		9.905 8414		0.094 1586	9.891 5002		163	
838	9.797 3510	94	9.905 8569	155	0.094 1431	9.891 4941	61	162	
839	9.797 3604	94	9.905 8725	156	0.094 1275	9.891 4880	61	161	
		95		155			61		
.840	9.797 3699		9.905 8880		0.094 1120	9.891 4819		.160	
		94		155			61		
841	9.797 3793		9.905 9035		0.094 0965	9.891 4758		159	
842	9.797 3887	94	9.905 9190	155	0.094 0810	9.891 4697	61	158	
843	9.797 3981	94	9.905 9345	155	0.094 0655	9.891 4636	61	157	
		94		155			61		
844	9.797 4075		9.905 9500		0.094 0500	9.891 4575		156	
845	9.797 4169	94	9.905 9656	156	0.094 0344	9.891 4514	61	155	
846	9.797 4263	94	9.905 9811	155	0.094 0189	9.891 4453	61	154	
		95		155			61		
847	9.797 4358		9.905 9966		0.094 0034	9.891 4392		153	
848	9.797 4452	94	9.906 0121	155	0.093 9879	9.891 4331	61	152	
849	9.797 4546	94	9.906 0276	155	0.093 9724	9.891 4269	62	151	
		94		155			61		
.850	9.797 4640		9.906 0431		0.093 9569	9.891 4208		.150	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	95	94
1	9.5	9.4
2	19.0	18.8
3	28.5	28.2
4	38.0	37.6
5	47.5	47.0
6	57.0	56.4
7	66.5	65.8
8	76.0	75.2
9	85.5	84.6

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

	60
1	6.0
2	12.0
3	18.0
4	24.0
5	30.0
6	36.0
7	42.0
8	48.0
9	54.0

51°.200 — 51°.150

38°.850 — 38°.900

38°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.797 4640		9.906 0431		0.093 9569	9.891 4208		.150	
		94		156			61		
851	9.797 4734		9.906 0587		0.093 9413	9.891 4147		149	
852	9.797 4828	94	9.906 0742	155	0.093 9258	9.891 4086	61	148	
853	9.797 4922	94	9.906 0897	155	0.093 9103	9.891 4025	61	147	
		94		155			61		
854	9.797 5016		9.906 1052		0.093 8948	9.891 3964		146	
855	9.797 5110	94	9.906 1207	155	0.093 8793	9.891 3903	61	145	
856	9.797 5204	94	9.906 1362	155	0.093 8638	9.891 3842	61	144	
		95		156			61		
857	9.797 5299		9.906 1518		0.093 8482	9.891 3781		143	
858	9.797 5393	94	9.906 1673	155	0.093 8327	9.891 3720	61	142	
859	9.797 5487	94	9.906 1828	155	0.093 8172	9.891 3659	61	141	
		94		155			61		
.860	9.797 5581		9.906 1983		0.093 8017	9.891 3598		.140	
		94		155			61		
861	9.797 5675		9.906 2138		0.093 7862	9.891 3537		139	
862	9.797 5769	94	9.906 2293	155	0.093 7707	9.891 3476	61	138	
863	9.797 5863	94	9.906 2448	155	0.093 7552	9.891 3415	61	137	
		94		156			62		
864	9.797 5957		9.906 2604		0.093 7396	9.891 3353		136	
865	9.797 6051	94	9.906 2759	155	0.093 7241	9.891 3292	61	135	
866	9.797 6145	94	9.906 2914	155	0.093 7086	9.891 3231	61	134	
		94		155			61		
867	9.797 6239		9.906 3069		0.093 6931	9.891 3170		133	
868	9.797 6333	94	9.906 3224	155	0.093 6776	9.891 3109	61	132	
869	9.797 6427	94	9.906 3379	155	0.093 6621	9.891 3048	61	131	
		94		155			61		
.870	9.797 6521		9.906 3534		0.093 6466	9.891 2987		.130	
		94		155			61		
871	9.797 6615		9.906 3689		0.093 6311	9.891 2926		129	
872	9.797 6709	94	9.906 3845	156	0.093 6155	9.891 2865	61	128	
873	9.797 6803	94	9.906 4000	155	0.093 6000	9.891 2804	61	127	
		94		155			61		
874	9.797 6897		9.906 4155		0.093 5845	9.891 2743		126	
875	9.797 6991	94	9.906 4310	155	0.093 5690	9.891 2681	62	125	
876	9.797 7085	94	9.906 4465	155	0.093 5535	9.891 2620	61	124	
		94		155			61		
877	9.797 7179		9.906 4620		0.093 5380	9.891 2559		123	
878	9.797 7273	94	9.906 4775	155	0.093 5225	9.891 2498	61	122	
879	9.797 7368	95	9.906 4931	156	0.093 5069	9.891 2437	61	121	
		94		155			61		
.880	9.797 7462		9.906 5086		0.093 4914	9.891 2376		.120	
		94		155			61		
881	9.797 7556		9.906 5241		0.093 4759	9.891 2315		119	
882	9.797 7650	94	9.906 5396	155	0.093 4604	9.891 2254	61	118	
883	9.797 7744	94	9.906 5551	155	0.093 4449	9.891 2192	62	117	
		94		155			61		
884	9.797 7838		9.906 5706		0.093 4294	9.891 2131		116	
885	9.797 7932	94	9.906 5861	155	0.093 4139	9.891 2070	61	115	
886	9.797 8025	93	9.906 6016	155	0.093 3984	9.891 2009	61	114	
		94		155			61		
887	9.797 8119		9.906 6171		0.093 3829	9.891 1948		113	
888	9.797 8213	94	9.906 6327	156	0.093 3673	9.891 1887	61	112	
889	9.797 8307	94	9.906 6482	155	0.093 3518	9.891 1826	61	111	
		94		155			61		
.890	9.797 8401		9.906 6637		0.093 3363	9.891 1765		.110	
		94		155			62		
891	9.797 8495		9.906 6792		0.093 3208	9.891 1703		109	
892	9.797 8589	94	9.906 6947	155	0.093 3053	9.891 1642	61	108	
893	9.797 8683	94	9.906 7102	155	0.093 2898	9.891 1581	61	107	
		94		155			61		
894	9.797 8777		9.906 7257		0.093 2743	9.891 1520		106	
895	9.797 8871	94	9.906 7412	155	0.093 2588	9.891 1459	61	105	
896	9.797 8965	94	9.906 7567	155	0.093 2433	9.891 1398	61	104	
		94		156			61		
897	9.797 9059		9.906 7723		0.093 2277	9.891 1337		103	
898	9.797 9153	94	9.906 7878	155	0.093 2122	9.891 1275	62	102	
899	9.797 9247	94	9.906 8033	155	0.093 1967	9.891 1214	61	101	
		94		155			61		
.900	9.797 9341		9.906 8188		0.093 1812	9.891 1153		.100	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	95	94
1	9.5	9.4
2	19.0	18.8
3	28.5	28.2
4	38.0	37.6
5	47.5	47.0
6	57.0	56.4
7	66.5	65.8
8	76.0	75.2
9	85.5	84.6

	93
1	9.3
2	18.6
3	27.9
4	37.2
5	46.5
6	55.8
7	65.1
8	74.4
9	83.7

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

51°.150 — 51°.100

38°.900 — 38°.950

38°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.797 9341		9.906 8188		0.093 1812	9.891 1153		.100	
		94		155			61		
901	9.797 9435		9.906 8343		0.093 1657	9.891 1092		099	
902	9.797 9529	94	9.906 8498	155	0.093 1502	9.891 1031	61	098	
903	9.797 9623	94	9.906 8653	155	0.093 1347	9.891 0970	61	097	
		94		155			62		
904	9.797 9717		9.906 8808		0.093 1192	9.891 0908		096	
905	9.797 9811	94	9.906 8963	155	0.093 1037	9.891 0847	61	095	
906	9.797 9905	94	9.906 9118	155	0.093 0882	9.891 0786	61	094	
		93		156			61		
907	9.797 9998		9.906 9274		0.093 0726	9.891 0725		093	
908	9.798 0092	94	9.906 9429	155	0.093 0571	9.891 0664	61	092	
909	9.798 0186	94	9.906 9584	155	0.093 0416	9.891 0603	61	091	
		94		155			62		
.910	9.798 0280		9.906 9739		0.093 0261	9.891 0541		.090	
		94		155			61		
911	9.798 0374		9.906 9894		0.093 0106	9.891 0480		089	
912	9.798 0468	94	9.907 0049	155	0.092 9951	9.891 0419	61	088	
913	9.798 0562	94	9.907 0204	155	0.092 9796	9.891 0358	61	087	
		94		155			61		
914	9.798 0656		9.907 0359		0.092 9641	9.891 0297		086	
915	9.798 0750	94	9.907 0514	155	0.092 9486	9.891 0235	62	085	
916	9.798 0844	94	9.907 0669	155	0.092 9331	9.891 0174	61	084	
		93		155			61		
917	9.798 0937		9.907 0824		0.092 9176	9.891 0113		083	
918	9.798 1031	94	9.907 0980	156	0.092 9020	9.891 0052	61	082	
919	9.798 1125	94	9.907 1135	155	0.092 8865	9.890 9991	61	081	
		94		155			62		
.920	9.798 1219		9.907 1290		0.092 8710	9.890 9929		.080	
		94		155			61		
921	9.798 1313		9.907 1445		0.092 8555	9.890 9868		079	
922	9.798 1407	94	9.907 1600	155	0.092 8400	9.890 9807	61	078	
923	9.798 1501	94	9.907 1755	155	0.092 8245	9.890 9746	61	077	
		94		155			61		
924	9.798 1595		9.907 1910		0.092 8090	9.890 9685		076	
925	9.798 1688	93	9.907 2065	155	0.092 7935	9.890 9623	62	075	
926	9.798 1782	94	9.907 2220	155	0.092 7780	9.890 9562	61	074	
		94		155			61		
927	9.798 1876		9.907 2375		0.092 7625	9.890 9501		073	
928	9.798 1970	94	9.907 2530	155	0.092 7470	9.890 9440	61	072	
929	9.798 2064	94	9.907 2685	155	0.092 7315	9.890 9378	62	071	
		94		155			61		
.930	9.798 2158		9.907 2840		0.092 7160	9.890 9317		.070	
		93		155			61		
931	9.798 2251		9.907 2995		0.092 7005	9.890 9256		069	
932	9.798 2345	94	9.907 3151	156	0.092 6849	9.890 9195	61	068	
933	9.798 2439	94	9.907 3306	155	0.092 6694	9.890 9134	61	067	
		94		155			62		
934	9.798 2533		9.907 3461		0.092 6539	9.890 9072		066	
935	9.798 2627	94	9.907 3616	155	0.092 6384	9.890 9011	61	065	
936	9.798 2721	94	9.907 3771	155	0.092 6229	9.890 8950	61	064	
		93		155			61		
937	9.798 2814		9.907 3926		0.092 6074	9.890 8889		063	
938	9.798 2908	94	9.907 4081	155	0.092 5919	9.890 8827	62	062	
939	9.798 3002	94	9.907 4236	155	0.092 5764	9.890 8766	61	061	
		94		155			61		
.940	9.798 3096		9.907 4391		0.092 5609	9.890 8705		.060	
		94		155			61		
941	9.798 3190		9.907 4546		0.092 5454	9.890 8644		059	
942	9.798 3283	93	9.907 4701	155	0.092 5299	9.890 8582	62	058	
943	9.798 3377	94	9.907 4856	155	0.092 5144	9.890 8521	61	057	
		94		155			61		
944	9.798 3471		9.907 5011		0.092 4989	9.890 8460		056	
945	9.798 3565	94	9.907 5166	155	0.092 4834	9.890 8399	61	055	
946	9.798 3659	94	9.907 5321	155	0.092 4679	9.890 8337	62	054	
		93		155			61		
947	9.798 3752		9.907 5476		0.092 4524	9.890 8276		053	
948	9.798 3846	94	9.907 5631	155	0.092 4369	9.890 8215	61	052	
949	9.798 3940	94	9.907 5786	155	0.092 4214	9.890 8154	61	051	
		94		155			62		
.950	9.798 4034		9.907 5941		0.092 4059	9.890 8092		.050	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	94	93
1	9.4	9.3
2	18.8	18.6
3	28.2	27.9
4	37.6	37.2
5	47.0	46.5
6	56.4	55.8
7	65.8	65.1
8	75.2	74.4
9	84.6	83.7

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

51°.100 — 51°.050

38°.950 — 39°.000

38°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.798 4034		9.907 5941		0.092 4059	9.890 8092		.050	
		93		155			61		
951	9.798 4127		9.907 6096		0.092 3904	9.890 8031		049	
952	9.798 4221	94	9.907 6252	156	0.092 3748	9.890 7970	61	048	
953	9.798 4315	94	9.907 6407	155	0.092 3593	9.890 7908	62	047	
		94		155			61		
954	9.798 4409		9.907 6562		0.092 3438	9.890 7847		046	
955	9.798 4502	93	9.907 6717	155	0.092 3283	9.890 7786	61	045	
956	9.798 4596	94	9.907 6872	155	0.092 3128	9.890 7725	61	044	
		94		155			62		
957	9.798 4690		9.907 7027		0.092 2973	9.890 7663		043	
958	9.798 4784	94	9.907 7182	155	0.092 2818	9.890 7602	61	042	
959	9.798 4877	93	9.907 7337	155	0.092 2663	9.890 7541	61	041	
		94		155			62		
.960	9.798 4971		9.907 7492		0.092 2508	9.890 7479		.040	
		94		155			61		
961	9.798 5065		9.907 7647		0.092 2353	9.890 7418		039	
962	9.798 5159	94	9.907 7802	155	0.092 2198	9.890 7357	61	038	
963	9.798 5252	93	9.907 7957	155	0.092 2043	9.890 7296	61	037	
		94		155			62		
964	9.798 5346		9.907 8112		0.092 1888	9.890 7234		036	
965	9.798 5440	94	9.907 8267	155	0.092 1733	9.890 7173	61	035	
966	9.798 5534	94	9.907 8422	155	0.092 1578	9.890 7112	61	034	
		93		155			62		
967	9.798 5627		9.907 8577		0.092 1423	9.890 7050		033	
968	9.798 5721	94	9.907 8732	155	0.092 1268	9.890 6989	61	032	
969	9.798 5815	94	9.907 8887	155	0.092 1113	9.890 6928	61	031	
		93		155			62		
.970	9.798 5908		9.907 9042		0.092 0958	9.890 6866		.030	
		94		155			61		
971	9.798 6002		9.907 9197		0.092 0803	9.890 6805		029	
972	9.798 6096	94	9.907 9352	155	0.092 0648	9.890 6744	61	028	
973	9.798 6190	94	9.907 9507	155	0.092 0493	9.890 6682	62	027	
		93		155			61		
974	9.798 6283		9.907 9662		0.092 0338	9.890 6621		026	
975	9.798 6377	94	9.907 9817	155	0.092 0183	9.890 6560	61	025	
976	9.798 6471	94	9.907 9972	155	0.092 0028	9.890 6498	62	024	
		93		155			61		
977	9.798 6564		9.908 0127		0.091 9873	9.890 6437		023	
978	9.798 6658	94	9.908 0282	155	0.091 9718	9.890 6376	61	022	
979	9.798 6752	94	9.908 0437	155	0.091 9563	9.890 6314	62	021	
		93		155			61		
.980	9.798 6845		9.908 0592		0.091 9408	9.890 6253		.020	
		94		155			61		
981	9.798 6939		9.908 0747		0.091 9253	9.890 6192		019	
982	9.798 7033	94	9.908 0902	155	0.091 9098	9.890 6130	62	018	
983	9.798 7126	93	9.908 1057	155	0.091 8943	9.890 6069	61	017	
		94		155			61		
984	9.798 7220		9.908 1212		0.091 8788	9.890 6008		016	
985	9.798 7314	94	9.908 1367	155	0.091 8633	9.890 5946	62	015	
986	9.798 7407	93	9.908 1522	155	0.091 8478	9.890 5885	61	014	
		94		155			61		
987	9.798 7501		9.908 1677		0.091 8323	9.890 5824		013	
988	9.798 7595	94	9.908 1832	155	0.091 8168	9.890 5762	62	012	
989	9.798 7688	93	9.908 1987	155	0.091 8013	9.890 5701	61	011	
		94		155			61		
.990	9.798 7782		9.908 2142		0.091 7858	9.890 5640		.010	
		93		155			62		
991	9.798 7875		9.908 2297		0.091 7703	9.890 5578		009	
992	9.798 7969	94	9.908 2452	155	0.091 7548	9.890 5517	61	008	
993	9.798 8063	94	9.908 2607	155	0.091 7393	9.890 5456	61	007	
		93		155			62		
994	9.798 8156		9.908 2762		0.091 7238	9.890 5394		006	
995	9.798 8250	94	9.908 2917	155	0.091 7083	9.890 5333	61	005	
996	9.798 8344	94	9.908 3072	155	0.091 6928	9.890 5271	62	004	
		93		155			61		
997	9.798 8437		9.908 3227		0.091 6773	9.890 5210		003	
998	9.798 8531	94	9.908 3382	155	0.091 6618	9.890 5149	61	002	
999	9.798 8624	93	9.908 3537	155	0.091 6463	9.890 5087	62	001	
		94		155			61		
*.000	9.798 8718		9.908 3692		0.091 6308	9.890 5026		.000	
	cos	d	cotg	d	tang	sin	d	51°	P.P.

	156	155
1	15.6	15.5
2	31.2	31.0
3	46.8	46.5
4	62.4	62.0
5	78.0	77.5
6	93.6	93.0
7	109.2	108.5
8	124.8	124.0
9	140.4	139.5

	94	93
1	9.4	9.3
2	18.8	18.6
3	28.2	27.9
4	37.6	37.2
5	47.0	46.5
6	56.4	55.8
7	65.8	65.1
8	75.2	74.4
9	84.6	83.7

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

51°.050 — 51°.000

39°.000 — 39°.050

39°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.798 8718		9.908 3692		0.091 6308	9.890 5026		*000	
		94		155			61		
001	9.798 8812		9.908 3847		0.091 6153	9.890 4965		999	
002	9.798 8905	93	9.908 4002	155	0.091 5998	9.890 4903	62	998	
003	9.798 8999	94	9.908 4157	155	0.091 5843	9.890 4842	61	997	
		93		155			62		
004	9.798 9092		9.908 4312		0.091 5688	9.890 4780		996	
005	9.798 9186	94	9.908 4467	155	0.091 5533	9.890 4719	61	995	
006	9.798 9280	94	9.908 4622	155	0.091 5378	9.890 4658	61	994	
		93		155			62		
007	9.798 9373		9.908 4777		0.091 5223	9.890 4596		993	
008	9.798 9467	94	9.908 4932	155	0.091 5068	9.890 4535	61	992	
009	9.798 9560	93	9.908 5087	155	0.091 4913	9.890 4473	62	991	
		94		155			61		
.010	9.798 9654		9.908 5242		0.091 4758	9.890 4412		.990	
		93		155			61		
011	9.798 9747		9.908 5397		0.091 4603	9.890 4351		989	
012	9.798 9841	94	9.908 5552	155	0.091 4448	9.890 4289	62	988	
013	9.798 9935	94	9.908 5707	155	0.091 4293	9.890 4228	61	987	
		93		155			62		
014	9.799 0028		9.908 5862		0.091 4138	9.890 4166		986	
015	9.799 0122	94	9.908 6017	155	0.091 3983	9.890 4105	61	985	
016	9.799 0215	93	9.908 6172	155	0.091 3828	9.890 4044	61	984	
		94		155			62		
017	9.799 0309		9.908 6327		0.091 3673	9.890 3982		983	
018	9.799 0402	93	9.908 6482	155	0.091 3518	9.890 3921	61	982	
019	9.799 0496	94	9.908 6637	155	0.091 3363	9.890 3859	62	981	
		93		155			61		
.020	9.799 0589		9.908 6792		0.091 3208	9.890 3798		.980	
		94		155			62		
021	9.799 0683		9.908 6947		0.091 3053	9.890 3736		979	
022	9.799 0777	94	9.908 7101	154	0.091 2899	9.890 3675	61	978	
023	9.799 0870	93	9.908 7256	155	0.091 2744	9.890 3614	61	977	
		94		155			62		
024	9.799 0964		9.908 7411		0.091 2589	9.890 3552		976	
025	9.799 1057	93	9.908 7566	155	0.091 2434	9.890 3491	61	975	
026	9.799 1151	94	9.908 7721	155	0.091 2279	9.890 3429	62	974	
		93		155			61		
027	9.799 1244		9.908 7876		0.091 2124	9.890 3368		973	
028	9.799 1338	94	9.908 8031	155	0.091 1969	9.890 3306	62	972	
029	9.799 1431	93	9.908 8186	155	0.091 1814	9.890 3245	61	971	
		94		155			61		
.030	9.799 1525		9.908 8341		0.091 1659	9.890 3184		.970	
		93		155			62		
031	9.799 1618		9.908 8496		0.091 1504	9.890 3122		969	
032	9.799 1712	94	9.908 8651	155	0.091 1349	9.890 3061	61	968	
033	9.799 1805	93	9.908 8806	155	0.091 1194	9.890 2999	62	967	
		94		155			61		
034	9.799 1899		9.908 8961		0.091 1039	9.890 2938		966	
035	9.799 1992	93	9.908 9116	155	0.091 0884	9.890 2876	62	965	
036	9.799 2086	94	9.908 9271	155	0.091 0729	9.890 2815	61	964	
		93		155			62		
037	9.799 2179		9.908 9426		0.091 0574	9.890 2753		963	
038	9.799 2273	94	9.908 9581	155	0.091 0419	9.890 2692	61	962	
039	9.799 2366	93	9.908 9736	155	0.091 0264	9.890 2630	62	961	
		94		155			61		
.040	9.799 2460		9.908 9891		0.091 0109	9.890 2569		.960	
		93		154			62		
041	9.799 2553		9.909 0045		0.090 9955	9.890 2507		959	
042	9.799 2646	93	9.909 0200	155	0.090 9800	9.890 2446	61	958	
043	9.799 2740	94	9.909 0355	155	0.090 9645	9.890 2385	61	957	
		93		155			62		
044	9.799 2833		9.909 0510		0.090 9490	9.890 2323		956	
045	9.799 2927	94	9.909 0665	155	0.090 9335	9.890 2262	61	955	
046	9.799 3020	93	9.909 0820	155	0.090 9180	9.890 2200	62	954	
		94		155			61		
047	9.799 3114		9.909 0975		0.090 9025	9.890 2139		953	
048	9.799 3207	93	9.909 1130	155	0.090 8870	9.890 2077	62	952	
049	9.799 3301	94	9.909 1285	155	0.090 8715	9.890 2016	61	951	
		93		155			62		
.050	9.799 3394		9.909 1440		0.090 8560	9.890 1954		.950	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	94	93
1	9.4	9.3
2	18.8	18.6
3	28.2	27.9
4	37.6	37.2
5	47.0	46.5
6	56.4	55.8
7	65.8	65.1
8	75.2	74.4
9	84.6	83.7

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

51°.000 — 50°.950

39°.050 — 39°.100

39°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.799 3394		9.909 1440		0.090 8560	9.890 1954		.950	
		93		155			61		
051	9.799 3487		9.909 1595		0.090 8405	9.890 1893		949	
052	9.799 3581	94	9.909 1750	155	0.090 8250	9.890 1831	62	948	
053	9.799 3674	93	9.909 1905	155	0.090 8095	9.890 1770	61	947	
		94		155			62		
054	9.799 3768		9.909 2060		0.090 7940	9.890 1708		946	
055	9.799 3861	93	9.909 2214	154	0.090 7786	9.890 1647	61	945	
056	9.799 3955	94	9.909 2369	155	0.090 7631	9.890 1585	62	944	
		93		155			61		
057	9.799 4048		9.909 2524		0.090 7476	9.890 1524		943	
058	9.799 4141	93	9.909 2679	155	0.090 7321	9.890 1462	62	942	
059	9.799 4235	94	9.909 2834	155	0.090 7166	9.890 1401	61	941	
		93		155			62		
.060	9.799 4328		9.909 2989		0.090 7011	9.890 1339		.940	
		94		155			61		
061	9.799 4422		9.909 3144		0.090 6856	9.890 1278		939	
062	9.799 4515	93	9.909 3299	155	0.090 6701	9.890 1216	62	938	
063	9.799 4608	93	9.909 3454	155	0.090 6546	9.890 1155	61	937	
		94		155			62		
064	9.799 4702		9.909 3609		0.090 6391	9.890 1093		936	
065	9.799 4795	93	9.909 3764	155	0.090 6236	9.890 1032	61	935	
066	9.799 4889	94	9.909 3919	155	0.090 6081	9.890 0970	62	934	
		93		154			61		
067	9.799 4982		9.909 4073		0.090 5927	9.890 0909		933	
068	9.799 5075	93	9.909 4228	155	0.090 5772	9.890 0847	62	932	
069	9.799 5169	94	9.909 4383	155	0.090 5617	9.890 0785	62	931	
		93		155			61		
.070	9.799 5262		9.909 4538		0.090 5462	9.890 0724		.930	
		93		155			62		
071	9.799 5355		9.909 4693		0.090 5307	9.890 0662		929	
072	9.799 5449	94	9.909 4848	155	0.090 5152	9.890 0601	61	928	
073	9.799 5542	93	9.909 5003	155	0.090 4997	9.890 0539	62	927	
		94		155			61		
074	9.799 5636		9.909 5158		0.090 4842	9.890 0478		926	
075	9.799 5729	93	9.909 5313	155	0.090 4687	9.890 0416	62	925	
076	9.799 5822	93	9.909 5468	155	0.090 4532	9.890 0355	61	924	
		94		154			62		
077	9.799 5916		9.909 5622		0.090 4378	9.890 0293		923	
078	9.799 6009	93	9.909 5777	155	0.090 4223	9.890 0232	61	922	
079	9.799 6102	93	9.909 5932	155	0.090 4068	9.890 0170	62	921	
		94		155			62		
.080	9.799 6196		9.909 6087		0.090 3913	9.890 0108		.920	
		93		155			61		
081	9.799 6289		9.909 6242		0.090 3758	9.890 0047		919	
082	9.799 6382	93	9.909 6397	155	0.090 3603	9.889 9985	62	918	
083	9.799 6476	94	9.909 6552	155	0.090 3448	9.889 9924	61	917	
		93		155			62		
084	9.799 6569		9.909 6707		0.090 3293	9.889 9862		916	
085	9.799 6662	93	9.909 6862	155	0.090 3138	9.889 9801	61	915	
086	9.799 6756	94	9.909 7016	154	0.090 2984	9.889 9739	62	914	
		93		155			61		
087	9.799 6849		9.909 7171		0.090 2829	9.889 9678		913	
088	9.799 6942	93	9.909 7326	155	0.090 2674	9.889 9616	62	912	
089	9.799 7036	94	9.909 7481	155	0.090 2519	9.889 9554	62	911	
		93		155			61		
.090	9.799 7129		9.909 7636		0.090 2364	9.889 9493		.910	
		93		155			62		
091	9.799 7222		9.909 7791		0.090 2209	9.889 9431		909	
092	9.799 7315	93	9.909 7946	155	0.090 2054	9.889 9370	61	908	
093	9.799 7409	94	9.909 8101	155	0.090 1899	9.889 9308	62	907	
		93		155			62		
094	9.799 7502		9.909 8256		0.090 1744	9.889 9246		906	
095	9.799 7595	93	9.909 8410	154	0.090 1590	9.889 9185	61	905	
096	9.799 7689	94	9.909 8565	155	0.090 1435	9.889 9123	62	904	
		93		155			61		
097	9.799 7782		9.909 8720		0.090 1280	9.889 9062		903	
098	9.799 7875	93	9.909 8875	155	0.090 1125	9.889 9000	62	902	
099	9.799 7968	93	9.909 9030	155	0.090 0970	9.889 8939	61	901	
		94		155			62		
.100	9.799 8062		9.909 9185		0.090 0815	9.889 8877		.900	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	94	93
1	9.4	9.3
2	18.8	18.6
3	28.2	27.9
4	37.6	37.2
5	47.0	46.5
6	56.4	55.8
7	65.8	65.1
8	75.2	74.4
9	84.6	83.7

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

50°.950 — 50°.900

39°.100 — 39°.150

39°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.799 8062		9.909 9185		0.090 0815	9.889 8877		.900	
		93		155			62		
101	9.799 8155		9.909 9340		0.090 0660	9.889 8815		899	
102	9.799 8248	93	9.909 9495	155	0.090 0505	9.889 8754	61	898	
103	9.799 8342	94	9.909 9649	154	0.090 0351	9.889 8692	62	897	
		93		155			61		
104	9.799 8435		9.909 9804		0.090 0196	9.889 8631		896	
105	9.799 8528	93	9.909 9959	155	0.090 0041	9.889 8569	62	895	
106	9.799 8621	93	9.910 0114	155	0.089 9886	9.889 8507	62	894	
		94		155			61		
107	9.799 8715		9.910 0269		0.089 9731	9.889 8446		893	
108	9.799 8808	93	9.910 0424	155	0.089 9576	9.889 8384	62	892	
109	9.799 8901	93	9.910 0579	155	0.089 9421	9.889 8322	62	891	
		93		154			61		
.110	9.799 8994		9.910 0733		0.089 9267	9.889 8261		.890	
		93		155			62		
111	9.799 9087		9.910 0888		0.089 9112	9.889 8199		889	
112	9.799 9181	94	9.910 1043	155	0.089 8957	9.889 8138	61	888	
113	9.799 9274	93	9.910 1198	155	0.089 8802	9.889 8076	62	887	
		93		155			62		
114	9.799 9367		9.910 1353		0.089 8647	9.889 8014		886	
115	9.799 9460	93	9.910 1508	155	0.089 8492	9.889 7953	61	885	
116	9.799 9554	94	9.910 1663	155	0.089 8337	9.889 7891	62	884	
		93		154			62		
117	9.799 9647		9.910 1817		0.089 8183	9.889 7829		883	
118	9.799 9740	93	9.910 1972	155	0.089 8028	9.889 7768	61	882	
119	9.799 9833	93	9.910 2127	155	0.089 7873	9.889 7706	62	881	
		93		155			62		
.120	9.799 9926		9.910 2282		0.089 7718	9.889 7644		.880	
		94		155			61		
121	9.800 0020		9.910 2437		0.089 7563	9.889 7583		879	
122	9.800 0113	93	9.910 2592	155	0.089 7408	9.889 7521	62	878	
123	9.800 0206	93	9.910 2747	155	0.089 7253	9.889 7460	61	877	
		93		154			62		
124	9.800 0299		9.910 2901		0.089 7099	9.889 7398		876	
125	9.800 0392	93	9.910 3056	155	0.089 6944	9.889 7336	62	875	
126	9.800 0486	94	9.910 3211	155	0.089 6789	9.889 7275	61	874	
		93		155			62		
127	9.800 0579		9.910 3366		0.089 6634	9.889 7213		873	
128	9.800 0672	93	9.910 3521	155	0.089 6479	9.889 7151	62	872	
129	9.800 0765	93	9.910 3676	155	0.089 6324	9.889 7090	61	871	
		93		154			62		
.130	9.800 0858		9.910 3830		0.089 6170	9.889 7028		.870	
		93		155			62		
131	9.800 0951		9.910 3985		0.089 6015	9.889 6966		869	
132	9.800 1045	94	9.910 4140	155	0.089 5860	9.889 6905	61	868	
133	9.800 1138	93	9.910 4295	155	0.089 5705	9.889 6843	62	867	
		93		155			62		
134	9.800 1231		9.910 4450		0.089 5550	9.889 6781		866	
135	9.800 1324	93	9.910 4605	155	0.089 5395	9.889 6720	61	865	
136	9.800 1417	93	9.910 4759	154	0.089 5241	9.889 6658	62	864	
		93		155			62		
137	9.800 1510		9.910 4914		0.089 5086	9.889 6596		863	
138	9.800 1604	94	9.910 5069	155	0.089 4931	9.889 6535	61	862	
139	9.800 1697	93	9.910 5224	155	0.089 4776	9.889 6473	62	861	
		93		155			62		
.140	9.800 1790		9.910 5379		0.089 4621	9.889 6411		.860	
		93		155			62		
141	9.800 1883		9.910 5534		0.089 4466	9.889 6349		859	
142	9.800 1976	93	9.910 5688	154	0.089 4312	9.889 6288	61	858	
143	9.800 2069	93	9.910 5843	155	0.089 4157	9.889 6226	62	857	
		93		155			62		
144	9.800 2162		9.910 5998		0.089 4002	9.889 6164		856	
145	9.800 2256	94	9.910 6153	155	0.089 3847	9.889 6103	61	855	
146	9.800 2349	93	9.910 6308	155	0.089 3692	9.889 6041	62	854	
		93		154			62		
147	9.800 2442		9.910 6462		0.089 3538	9.889 5979		853	
148	9.800 2535	93	9.910 6617	155	0.089 3383	9.889 5918	61	852	
149	9.800 2628	93	9.910 6772	155	0.089 3228	9.889 5856	62	851	
		93		155			62		
.150	9.800 2721		9.910 6927		0.089 3073	9.889 5794		.850	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	94	93
1	9.4	9.3
2	18.8	18.6
3	28.2	27.9
4	37.6	37.2
5	47.0	46.5
6	56.4	55.8
7	65.8	65.1
8	75.2	74.4
9	84.6	83.7

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

50°.900 — 50°.850

39°.150 — 39°.200

39°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.800 2721		9.910 6927		0.089 3073	9.889 5794		**.850**	
		93		155			62		
151	9.800 2814		9.910 7082		0.089 2918	9.889 5732		849	
152	9.800 2907	93	9.910 7237	155	0.089 2763	9.889 5671	61	848	
153	9.800 3000	93	9.910 7391	154	0.089 2609	9.889 5609	62	847	
		93		155			62		
154	9.800 3093		9.910 7546		0.089 2454	9.889 5547		846	
155	9.800 3187	94	9.910 7701	155	0.089 2299	9.889 5486	61	845	
156	9.800 3280	93	9.910 7856	155	0.089 2144	9.889 5424	62	844	
		93		155			62		
157	9.800 3373		9.910 8011		0.089 1989	9.889 5362		843	
158	9.800 3466	93	9.910 8165	154	0.089 1835	9.889 5300	62	842	
159	9.800 3559	93	9.910 8320	155	0.089 1680	9.889 5239	61	841	
		93		155			62		
.160	9.800 3652		9.910 8475		0.089 1525	9.889 5177		**.840**	
		93		155			62		
161	9.800 3745		9.910 8630		0.089 1370	9.889 5115		839	
162	9.800 3838	93	9.910 8785	155	0.089 1215	9.889 5054	61	838	
163	9.800 3931	93	9.910 8939	154	0.089 1061	9.889 4992	62	837	
		93		155			62		
164	9.800 4024		9.910 9094		0.089 0906	9.889 4930		836	
165	9.800 4117	93	9.910 9249	155	0.089 0751	9.889 4868	62	835	
166	9.800 4210	93	9.910 9404	155	0.089 0596	9.889 4807	61	834	
		93		155			62		
167	9.800 4303		9.910 9559		0.089 0441	9.889 4745		833	
168	9.800 4396	93	9.910 9713	154	0.089 0287	9.889 4683	62	832	
169	9.800 4489	93	9.910 9868	155	0.089 0132	9.889 4621	62	831	
		93		155			61		
.170	9.800 4582		9.911 0023		0.088 9977	9.889 4560		**.830**	
		94		155			62		
171	9.800 4676		9.911 0178		0.088 9822	9.889 4498		829	
172	9.800 4769	93	9.911 0333	155	0.088 9667	9.889 4436	62	828	
173	9.800 4862	93	9.911 0487	154	0.088 9513	9.889 4374	62	827	
		93		155			61		
174	9.800 4955		9.911 0642		0.088 9358	9.889 4313		826	
175	9.800 5048	93	9.911 0797	155	0.088 9203	9.889 4251	62	825	
176	9.800 5141	93	9.911 0952	155	0.088 9048	9.889 4189	62	824	
		93		154			62		
177	9.800 5234		9.911 1106		0.088 8894	9.889 4127		823	
178	9.800 5327	93	9.911 1261	155	0.088 8739	9.889 4065	62	822	
179	9.800 5420	93	9.911 1416	155	0.088 8584	9.889 4004	61	821	
		93		155			62		
.180	9.800 5513		9.911 1571		0.088 8429	9.889 3942		**.820**	
		93		155			62		
181	9.800 5606		9.911 1726		0.088 8274	9.889 3880		819	
182	9.800 5699	93	9.911 1880	154	0.088 8120	9.889 3818	62	818	
183	9.800 5792	93	9.911 2035	155	0.088 7965	9.889 3757	61	817	
		93		155			62		
184	9.800 5885		9.911 2190		0.088 7810	9.889 3695		816	
185	9.800 5978	93	9.911 2345	155	0.088 7655	9.889 3633	62	815	
186	9.800 6071	93	9.911 2499	154	0.088 7501	9.889 3571	62	814	
		93		155			62		
187	9.800 6164		9.911 2654		0.088 7346	9.889 3509		813	
188	9.800 6257	93	9.911 2809	155	0.088 7191	9.889 3448	61	812	
189	9.800 6350	93	9.911 2964	155	0.088 7036	9.889 3386	62	811	
		93		155			62		
.190	9.800 6443		9.911 3119		0.088 6881	9.889 3324		**.810**	
		93		154			62		
191	9.800 6536		9.911 3273		0.088 6727	9.889 3262		809	
192	9.800 6629	93	9.911 3428	155	0.088 6572	9.889 3200	62	808	
193	9.800 6721	92	9.911 3583	155	0.088 6417	9.889 3139	61	807	
		93		155			62		
194	9.800 6814		9.911 3738		0.088 6262	9.889 3077		806	
195	9.800 6907	93	9.911 3892	154	0.088 6108	9.889 3015	62	805	
196	9.800 7000	93	9.911 4047	155	0.088 5953	9.889 2953	62	804	
		93		155			62		
197	9.800 7093		9.911 4202		0.088 5798	9.889 2891		803	
198	9.800 7186	93	9.911 4357	155	0.088 5643	9.889 2830	61	802	
199	9.800 7279	93	9.911 4511	154	0.088 5489	9.889 2768	62	801	
		93		155			62		
.200	9.800 7372		9.911 4666		0.088 5334	9.889 2706		**.800**	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	94	93
1	9.4	9.3
2	18.8	18.6
3	28.2	27.9
4	37.6	37.2
5	47.0	46.5
6	56.4	55.8
7	65.8	65.1
8	75.2	74.4
9	84.6	83.7

	92
1	9.2
2	18.4
3	27.6
4	36.8
5	46.0
6	55.2
7	64.4
8	73.6
9	82.8

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

50°.850 — 50°.800

39°.200 — 39°.250

39°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.800 7372		9.911 4666		0.088 5334	9.889 2706		.800	
		93		155			62		
201	9.800 7465		9.911 4821		0.088 5179	9.889 2644		799	
202	9.800 7558	93	9.911 4976	155	0.088 5024	9.889 2582	62	798	
203	9.800 7651	93	9.911 5130	154	0.088 4870	9.889 2520	62	797	
		93		155			61		
204	9.800 7744		9.911 5285		0.088 4715	9.889 2459		796	
205	9.800 7837	93	9.911 5440	155	0.088 4560	9.889 2397	62	795	
206	9.800 7930	93	9.911 5595	155	0.088 4405	9.889 2335	62	794	
		93		154			62		
207	9.800 8023		9.911 5749		0.088 4251	9.889 2273		793	
208	9.800 8116	93	9.911 5904	155	0.088 4096	9.889 2211	62	792	
209	9.800 8208	92	9.911 6059	155	0.088 3941	9.889 2149	62	791	
		93		155			61		
.210	9.800 8301		9.911 6214		0.088 3786	9.889 2088		.790	
		93		154			62		
211	9.800 8394		9.911 6368		0.088 3632	9.889 2026		789	
212	9.800 8487	93	9.911 6523	155	0.088 3477	9.889 1964	62	788	
213	9.800 8580	93	9.911 6678	155	0.088 3322	9.889 1902	62	787	
		93		155			62		
214	9.800 8673		9.911 6833		0.088 3167	9.889 1840		786	
215	9.800 8766	93	9.911 6987	154	0.088 3013	9.889 1778	62	785	
216	9.800 8859	93	9.911 7142	155	0.088 2858	9.889 1717	61	784	
		93		155			62		
217	9.800 8952		9.911 7297		0.088 2703	9.889 1655		783	
218	9.800 9044	92	9.911 7452	155	0.088 2548	9.889 1593	62	782	
219	9.800 9137	93	9.911 7606	154	0.088 2394	9.889 1531	62	781	
		93		155			62		
.220	9.800 9230		9.911 7761		0.088 2239	9.889 1469		.780	
		93		155			62		
221	9.800 9323		9.911 7916		0.088 2084	9.889 1407		779	
222	9.800 9416	93	9.911 8071	155	0.088 1929	9.889 1345	62	778	
223	9.800 9509	93	9.911 8225	154	0.088 1775	9.889 1283	62	777	
		93		155			61		
224	9.800 9602		9.911 8380		0.088 1620	9.889 1222		776	
225	9.800 9695	93	9.911 8535	155	0.088 1465	9.889 1160	62	775	
226	9.800 9787	92	9.911 8690	155	0.088 1310	9.889 1098	62	774	
		93		154			62		
227	9.800 9880		9.911 8844		0.088 1156	9.889 1036		773	
228	9.800 9973	93	9.911 8999	155	0.088 1001	9.889 0974	62	772	
229	9.801 0066	93	9.911 9154	155	0.088 0846	9.889 0912	62	771	
		93		154			62		
.230	9.801 0159		9.911 9308		0.088 0692	9.889 0850		.770	
		93		155			62		
231	9.801 0252		9.911 9463		0.088 0537	9.889 0788		769	
232	9.801 0344	92	9.911 9618	155	0.088 0382	9.889 0727	61	768	
233	9.801 0437	93	9.911 9773	155	0.088 0227	9.889 0665	62	767	
		93		154			62		
234	9.801 0530		9.911 9927		0.088 0073	9.889 0603		766	
235	9.801 0623	93	9.912 0082	155	0.087 9918	9.889 0541	62	765	
236	9.801 0716	93	9.912 0237	155	0.087 9763	9.889 0479	62	764	
		93		154			62		
237	9.801 0809		9.912 0391		0.087 9609	9.889 0417		763	
238	9.801 0901	92	9.912 0546	155	0.087 9454	9.889 0355	62	762	
239	9.801 0994	93	9.912 0701	155	0.087 9299	9.889 0293	62	761	
		93		155			62		
.240	9.801 1087		9.912 0856		0.087 9144	9.889 0231		.760	
		93		154			62		
241	9.801 1180		9.912 1010		0.087 8990	9.889 0169		759	
242	9.801 1273	93	9.912 1165	155	0.087 8835	9.889 0108	61	758	
243	9.801 1365	92	9.912 1320	155	0.087 8680	9.889 0046	62	757	
		93		154			62		
244	9.801 1458		9.912 1474		0.087 8526	9.888 9984		756	
245	9.801 1551	93	9.912 1629	155	0.087 8371	9.888 9922	62	755	
246	9.801 1644	93	9.912 1784	155	0.087 8216	9.888 9860	62	754	
		93		155			62		
247	9.801 1737		9.912 1939		0.087 8061	9.888 9798		753	
248	9.801 1829	92	9.912 2093	154	0.087 7907	9.888 9736	62	752	
249	9.801 1922	93	9.912 2248	155	0.087 7752	9.888 9674	62	751	
		93		155			62		
.250	9.801 2015		9.912 2403		0.087 7597	9.888 9612		.750	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	93	92
1	9.3	9.2
2	18.6	18.4
3	27.9	27.6
4	37.2	36.8
5	46.5	46.0
6	55.8	55.2
7	65.1	64.4
8	74.4	73.6
9	83.7	82.8

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

50°.800 — 50°.750

39°.250 — 39°.300

39°	sin	d	tang	d	cotg	cos	d		P.P.		
.250	9.801 2015		9.912 2403		0.087 7597	9.888 9612		**.750**			
		93		154			62				
251	9.801 2108		9.912 2557		0.087 7443	9.888 9550		749			
252	9.801 2200	92	9.912 2712	155	0.087 7288	9.888 9488	62	748			
253	9.801 2293	93	9.912 2867	155	0.087 7133	9.888 9426	62	747			
		93		155			62				
254	9.801 2386		9.912 3022		0.087 6978	9.888 9364		746			
255	9.801 2479	93	9.912 3176	154	0.087 6824	9.888 9303	61	745			
256	9.801 2571	92	9.912 3331	155	0.087 6669	9.888 9241	62	744			
		93		155			62				
257	9.801 2664		9.912 3486		0.087 6514	9.888 9179		743			
258	9.801 2757	93	9.912 3640	154	0.087 6360	9.888 9117	62	742			
259	9.801 2850	93	9.912 3795	155	0.087 6205	9.888 9055	62	741			
		92		155			62				
.260	9.801 2942		9.912 3950		0.087 6050	9.888 8993		**.740**			
		93		154			62				
261	9.801 3035		9.912 4104		0.087 5896	9.888 8931		739			
262	9.801 3128	93	9.912 4259	155	0.087 5741	9.888 8869	62	738			
263	9.801 3221	93	9.912 4414	155	0.087 5586	9.888 8807	62	737			
		92		154			62				
264	9.801 3313		9.912 4568		0.087 5432	9.888 8745		736			
265	9.801 3406	93	9.912 4723	155	0.087 5277	9.888 8683	62	735			
266	9.801 3499	93	9.912 4878	155	0.087 5122	9.888 8621	62	734			
		93		155			62				
267	9.801 3592		9.912 5033		0.087 4967	9.888 8559		733			
268	9.801 3684	92	9.912 5187	154	0.087 4813	9.888 8497	62	732			
269	9.801 3777	93	9.912 5342	155	0.087 4658	9.888 8435	62	731			
		93		155			62				
.270	9.801 3870		9.912 5497		0.087 4503	9.888 8373		**.730**			
		92		154			62				
271	9.801 3962		9.912 5651		0.087 4349	9.888 8311		729			
272	9.801 4055	93	9.912 5806	155	0.087 4194	9.888 8249	62	728			
273	9.801 4148	93	9.912 5961	155	0.087 4039	9.888 8187	62	727			
		93		154			62				
274	9.801 4241		9.912 6115		0.087 3885	9.888 8125		726			
275	9.801 4333	92	9.912 6270	155	0.087 3730	9.888 8063	62	725			
276	9.801 4426	93	9.912 6425	155	0.087 3575	9.888 8001	62	724			
		93		154			62				
277	9.801 4519		9.912 6579		0.087 3421	9.888 7939		723			
278	9.801 4611	92	9.912 6734	155	0.087 3266	9.888 7877	62	722			
279	9.801 4704	93	9.912 6889	155	0.087 3111	9.888 7815	62	721			
		93		154			62				
.280	9.801 4797		9.912 7043		0.087 2957	9.888 7753		**.720**			
		92		155			62				
281	9.801 4889		9.912 7198		0.087 2802	9.888 7691		719			
282	9.801 4982	93	9.912 7353	155	0.087 2647	9.888 7629	62	718			
283	9.801 5075	93	9.912 7507	154	0.087 2493	9.888 7567	62	717			
		92		155			62				
284	9.801 5167		9.912 7662		0.087 2338	9.888 7505		716			
285	9.801 5260	93	9.912 7817	155	0.087 2183	9.888 7443	62	715			
286	9.801 5353	93	9.912 7971	154	0.087 2029	9.888 7381	62	714			
		92		155			62				
287	9.801 5445		9.912 8126		0.087 1874	9.888 7319		713			
288	9.801 5538	93	9.912 8281	155	0.087 1719	9.888 7257	62	712			
289	9.801 5631	93	9.912 8435	154	0.087 1565	9.888 7195	62	711			
		92		155			62				
.290	9.801 5723		9.912 8590		0.087 1410	9.888 7133		**.710**			
		93		155			62				
291	9.801 5816		9.912 8745		0.087 1255	9.888 7071		709			
292	9.801 5908	92	9.912 8899	154	0.087 1101	9.888 7009	62	708			
293	9.801 6001	93	9.912 9054	155	0.087 0946	9.888 6947	62	707			
		93		155			62				
294	9.801 6094		9.912 9209		0.087 0791	9.888 6885		706			
295	9.801 6186	92	9.912 9363	154	0.087 0637	9.888 6823	62	705			
296	9.801 6279	93	9.912 9518	155	0.087 0482	9.888 6761	62	704			
		93		155			62				
297	9.801 6372		9.912 9673		0.087 0327	9.888 6699		703			
298	9.801 6464	92	9.912 9827	154	0.087 0173	9.888 6637	62	702			
299	9.801 6557	93	9.912 9982	155	0.087 0018	9.888 6575	62	701			
		92		155			62				
.300	9.801 6649		9.913 0137		0.086 9863	9.888 6513		**.700**			
	cos	d	cotg	d	tang	sin	d	**50°**	P.P.		

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	93	92
1	9.3	9.2
2	18.6	18.4
3	27.9	27.6
4	37.2	36.8
5	46.5	46.0
6	55.8	55.2
7	65.1	64.4
8	74.4	73.6
9	83.7	82.8

	62	61
1	6.2	6.1
2	12.4	12.2
3	18.6	18.3
4	24.8	24.4
5	31.0	30.5
6	37.2	36.6
7	43.4	42.7
8	49.6	48.8
9	55.8	54.9

50°.750 — 50°.700

39°.300 — 39°.350

39°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.801 6649		9.913 0137		0.086 9863	9.888 6513		.700	
		93		154			62		
301	9.801 6742		9.913 0291		0.086 9709	9.888 6451		699	
302	9.801 6835	93	9.913 0446	155	0.086 9554	9.888 6389	62	698	
303	9.801 6927	92	9.913 0600	154	0.086 9400	9.888 6327	62	697	
		93		155			62		
304	9.801 7020		9.913 0755		0.086 9245	9.888 6265		696	
305	9.801 7112	92	9.913 0910	155	0.086 9090	9.888 6203	62	695	
306	9.801 7205	93	9.913 1064	154	0.086 8936	9.888 6141	62	694	
		93		155			62		
307	9.801 7298		9.913 1219		0.086 8781	9.888 6079		693	
308	9.801 7390	92	9.913 1374	155	0.086 8626	9.888 6017	62	692	
309	9.801 7483	93	9.913 1528	154	0.086 8472	9.888 5954	63	691	
		92		155			62		
.310	9.801 7575		9.913 1683		0.086 8317	9.888 5892		.690	
		93		155			62		
311	9.801 7668		9.913 1838		0.086 8162	9.888 5830		689	
312	9.801 7760	92	9.913 1992	154	0.086 8008	9.888 5768	62	688	
313	9.801 7853	93	9.913 2147	155	0.086 7853	9.888 5706	62	687	
		93		154			62		
314	9.801 7946		9.913 2301		0.086 7699	9.888 5644		686	
315	9.801 8038	92	9.913 2456	155	0.086 7544	9.888 5582	62	685	
316	9.801 8131	93	9.913 2611	155	0.086 7389	9.888 5520	62	684	
		92		154			62		
317	9.801 8223		9.913 2765		0.086 7235	9.888 5458		683	
318	9.801 8316	93	9.913 2920	155	0.086 7080	9.888 5396	62	682	
319	9.801 8408	92	9.913 3075	155	0.086 6925	9.888 5334	62	681	
		93		154			62		
.320	9.801 8501		9.913 3229		0.086 6771	9.888 5272		.680	
		92		155			62		
321	9.801 8593		9.913 3384		0.086 6616	9.888 5210		679	
322	9.801 8686	93	9.913 3539	155	0.086 6461	9.888 5147	63	678	
323	9.801 8779	93	9.913 3693	154	0.086 6307	9.888 5085	62	677	
		92		155			62		
324	9.801 8871		9.913 3848		0.086 6152	9.888 5023		676	
325	9.801 8964	93	9.913 4002	154	0.086 5998	9.888 4961	62	675	
326	9.801 9056	92	9.913 4157	155	0.086 5843	9.888 4899	62	674	
		93		155			62		
327	9.801 9149		9.913 4312		0.086 5688	9.888 4837		673	
328	9.801 9241	92	9.913 4466	154	0.086 5534	9.888 4775	62	672	
329	9.801 9334	93	9.913 4621	155	0.086 5379	9.888 4713	62	671	
		92		154			62		
.330	9.801 9426		9.913 4775		0.086 5225	9.888 4651		.670	
		93		155			62		
331	9.801 9519		9.913 4930		0.086 5070	9.888 4589		669	
332	9.801 9611	92	9.913 5085	155	0.086 4915	9.888 4526	63	668	
333	9.801 9704	93	9.913 5239	154	0.086 4761	9.888 4464	62	667	
		92		155			62		
334	9.801 9796		9.913 5394		0.086 4606	9.888 4402		666	
335	9.801 9889	93	9.913 5549	155	0.086 4451	9.888 4340	62	665	
336	9.801 9981	92	9.913 5703	154	0.086 4297	9.888 4278	62	664	
		93		155			62		
337	9.802 0074		9.913 5858		0.086 4142	9.888 4216		663	
338	9.802 0166	92	9.913 6012	154	0.086 3988	9.888 4154	62	662	
339	9.802 0259	93	9.913 6167	155	0.086 3833	9.888 4092	62	661	
		92		155			62		
.340	9.802 0351		9.913 6322		0.086 3678	9.888 4030		.660	
		93		154			63		
341	9.802 0444		9.913 6476		0.086 3524	9.888 3967		659	
342	9.802 0536	92	9.913 6631	155	0.086 3369	9.888 3905	62	658	
343	9.802 0629	93	9.913 6785	154	0.086 3215	9.888 3843	62	657	
		92		155			62		
344	9.802 0721		9.913 6940		0.086 3060	9.888 3781		656	
345	9.802 0813	92	9.913 7095	155	0.086 2905	9.888 3719	62	655	
346	9.802 0906	93	9.913 7249	154	0.086 2751	9.888 3657	62	654	
		92		155			62		
347	9.802 0998		9.913 7404		0.086 2596	9.888 3595		653	
348	9.802 1091	93	9.913 7558	154	0.086 2442	9.888 3532	63	652	
349	9.802 1183	92	9.913 7713	155	0.086 2287	9.888 3470	62	651	
		93		155			62		
.350	9.802 1276		9.913 7868		0.086 2132	9.888 3408		.650	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	93	92
1	9.3	9.2
2	18.6	18.4
3	27.9	27.6
4	37.2	36.8
5	46.5	46.0
6	55.8	55.2
7	65.1	64.4
8	74.4	73.6
9	83.7	82.8

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.700 — 50°.650

39°.350 — 39°.400

39°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.802 1276		9.913 7868		0.086 2132	9.888 3408		.650	
		92		154			62		
351	9.802 1368		9.913 8022		0.086 1978	9.888 3346		649	
352	9.802 1461	93	9.913 8177	155	0.086 1823	9.888 3284	62	648	
353	9.802 1553	92	9.913 8331	154	0.086 1669	9.888 3222	62	647	
		92		155			62		
354	9.802 1645		9.913 8486		0.086 1514	9.888 3160		646	
355	9.802 1738	93	9.913 8641	155	0.086 1359	9.888 3097	63	645	
356	9.802 1830	92	9.913 8795	154	0.086 1205	9.888 3035	62	644	
		93		155			62		
357	9.802 1923		9.913 8950		0.086 1050	9.888 2973		643	
358	9.802 2015	92	9.913 9104	154	0.086 0896	9.888 2911	62	642	
359	9.802 2108	93	9.913 9259	155	0.086 0741	9.888 2849	62	641	
		92		154			62		
.360	9.802 2200		9.913 9413		0.086 0587	9.888 2787		.640	
		92		155			63		
361	9.802 2292		9.913 9568		0.086 0432	9.888 2724		639	
362	9.802 2385	93	9.913 9723	155	0.086 0277	9.888 2662	62	638	
363	9.802 2477	92	9.913 9877	154	0.086 0123	9.888 2600	62	637	
		93		155			62		
364	9.802 2570		9.914 0032		0.085 9968	9.888 2538		636	
365	9.802 2662	92	9.914 0186	154	0.085 9814	9.888 2476	62	635	
366	9.802 2754	92	9.914 0341	155	0.085 9659	9.888 2413	63	634	
		93		155			62		
367	9.802 2847		9.914 0496		0.085 9504	9.888 2351		633	
368	9.802 2939	92	9.914 0650	154	0.085 9350	9.888 2289	62	632	
369	9.802 3032	93	9.914 0805	155	0.085 9195	9.888 2227	62	631	
		92		154			62		
.370	9.802 3124		9.914 0959		0.085 9041	9.888 2165		.630	
		92		155			63		
371	9.802 3216		9.914 1114		0.085 8886	9.888 2102		629	
372	9.802 3309	93	9.914 1268	154	0.085 8732	9.888 2040	62	628	
373	9.802 3401	92	9.914 1423	155	0.085 8577	9.888 1978	62	627	
		92		155			62		
374	9.802 3493		9.914 1578		0.085 8422	9.888 1916		626	
375	9.802 3586	93	9.914 1732	154	0.085 8268	9.888 1854	62	625	
376	9.802 3678	92	9.914 1887	155	0.085 8113	9.888 1791	63	624	
		92		154			62		
377	9.802 3770		9.914 2041		0.085 7959	9.888 1729		623	
378	9.802 3863	93	9.914 2196	155	0.085 7804	9.888 1667	62	622	
379	9.802 3955	92	9.914 2350	154	0.085 7650	9.888 1605	62	621	
		93		155			62		
.380	9.802 4048		9.914 2505		0.085 7495	9.888 1543		.620	
		92		154			63		
381	9.802 4140		9.914 2659		0.085 7341	9.888 1480		619	
382	9.802 4232	92	9.914 2814	155	0.085 7186	9.888 1418	62	618	
383	9.802 4325	93	9.914 2969	155	0.085 7031	9.888 1356	62	617	
		92		154			62		
384	9.802 4417		9.914 3123		0.085 6877	9.888 1294		616	
385	9.802 4509	92	9.914 3278	155	0.085 6722	9.888 1231	63	615	
386	9.802 4602	93	9.914 3432	154	0.085 6568	9.888 1169	62	614	
		92		155			62		
387	9.802 4694		9.914 3587		0.085 6413	9.888 1107		613	
388	9.802 4786	92	9.914 3741	154	0.085 6259	9.888 1045	62	612	
389	9.802 4878	92	9.914 3896	155	0.085 6104	9.888 0983	62	611	
		93		154			63		
.390	9.802 4971		9.914 4050		0.085 5950	9.888 0920		.610	
		92		155			62		
391	9.802 5063		9.914 4205		0.085 5795	9.888 0858		609	
392	9.802 5155	92	9.914 4360	155	0.085 5640	9.888 0796	62	608	
393	9.802 5248	93	9.914 4514	154	0.085 5486	9.888 0734	62	607	
		92		155			63		
394	9.802 5340		9.914 4669		0.085 5331	9.888 0671		606	
395	9.802 5432	92	9.914 4823	154	0.085 5177	9.888 0609	62	605	
396	9.802 5525	93	9.914 4978	155	0.085 5022	9.888 0547	62	604	
		92		154			62		
397	9.802 5617		9.914 5132		0.085 4868	9.888 0485		603	
398	9.802 5709	92	9.914 5287	155	0.085 4713	9.888 0422	63	602	
399	9.802 5801	92	9.914 5441	154	0.085 4559	9.888 0360	62	601	
		93		155			62		
.400	9.802 5894		9.914 5596		0.085 4404	9.888 0298		.600	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	93	92
1	9.3	9.2
2	18.6	18.4
3	27.9	27.6
4	37.2	36.8
5	46.5	46.0
6	55.8	55.2
7	65.1	64.4
8	74.4	73.6
9	83.7	82.8

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.650 — 50°.600

39°.400 — 39°.450

39°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.802 5894		9.914 5596		0.085 4404	9.888 0298		.600	
		92		154			62		
401	9.802 5986		9.914 5750		0.085 4250	9.888 0236		599	
402	9.802 6078	92	9.914 5905	155	0.085 4095	9.888 0173	63	598	
403	9.802 6171	93	9.914 6060	155	0.085 3940	9.888 0111	62	597	
		92		154			62		
404	9.802 6263		9.914 6214		0.085 3786	9.888 0049		596	
405	9.802 6355	92	9.914 6369	155	0.085 3631	9.887 9986	63	595	
406	9.802 6447	92	9.914 6523	154	0.085 3477	9.887 9924	62	594	
		93		155			62		
407	9.802 6540		9.914 6678		0.085 3322	9.887 9862		593	
408	9.802 6632	92	9.914 6832	154	0.085 3168	9.887 9800	62	592	
409	9.802 6724	92	9.914 6987	155	0.085 3013	9.887 9737	63	591	
		92		154			62		
.410	9.802 6816		9.914 7141		0.085 2859	9.887 9675		.590	
		93		155			62		
411	9.802 6909		9.914 7296		0.085 2704	9.887 9613		589	
412	9.802 7001	92	9.914 7450	154	0.085 2550	9.887 9551	62	588	
413	9.802 7093	92	9.914 7605	155	0.085 2395	9.887 9488	63	587	
		92		154			62		
414	9.802 7185		9.914 7759		0.085 2241	9.887 9426		586	
415	9.802 7278	93	9.914 7914	155	0.085 2086	9.887 9364	62	585	
416	9.802 7370	92	9.914 8068	154	0.085 1932	9.887 9301	63	584	
		92		155			62		
417	9.802 7462		9.914 8223		0.085 1777	9.887 9239		583	
418	9.802 7554	92	9.914 8378	155	0.085 1622	9.887 9177	62	582	
419	9.802 7646	92	9.914 8532	154	0.085 1468	9.887 9114	63	581	
		93		155			62		
.420	9.802 7739		9.914 8687		0.085 1313	9.887 9052		.580	
		92		154			62		
421	9.802 7831		9.914 8841		0.085 1159	9.887 8990		579	
422	9.802 7923	92	9.914 8996	155	0.085 1004	9.887 8928	62	578	
423	9.802 8015	92	9.914 9150	154	0.085 0850	9.887 8865	63	577	
		93		155			62		
424	9.802 8108		9.914 9305		0.085 0695	9.887 8803		576	
425	9.802 8200	92	9.914 9459	154	0.085 0541	9.887 8741	62	575	
426	9.802 8292	92	9.914 9614	155	0.085 0386	9.887 8678	63	574	
		92		154			62		
427	9.802 8384		9.914 9768		0.085 0232	9.887 8616		573	
428	9.802 8476	92	9.914 9923	155	0.085 0077	9.887 8554	62	572	
429	9.802 8568	92	9.915 0077	154	0.084 9923	9.887 8491	63	571	
		93		155			62		
.430	9.802 8661		9.915 0232		0.084 9768	9.887 8429		.570	
		92		154			62		
431	9.802 8753		9.915 0386		0.084 9614	9.887 8367		569	
432	9.802 8845	92	9.915 0541	155	0.084 9459	9.887 8304	63	568	
433	9.802 8937	92	9.915 0695	154	0.084 9305	9.887 8242	62	567	
		92		155			62		
434	9.802 9029		9.915 0850		0.084 9150	9.887 8180		566	
435	9.802 9122	93	9.915 1004	154	0.084 8996	9.887 8117	63	565	
436	9.802 9214	92	9.915 1159	155	0.084 8841	9.887 8055	62	564	
		92		154			62		
437	9.802 9306		9.915 1313		0.084 8687	9.887 7993		563	
438	9.802 9398	92	9.915 1468	155	0.084 8532	9.887 7930	63	562	
439	9.802 9490	92	9.915 1622	154	0.084 8378	9.887 7868	62	561	
		92		155			62		
.440	9.802 9582		9.915 1777		0.084 8223	9.887 7806		.560	
		92		154			63		
441	9.802 9674		9.915 1931		0.084 8069	9.887 7743		559	
442	9.802 9767	93	9.915 2086	155	0.084 7914	9.887 7681	62	558	
443	9.802 9859	92	9.915 2240	154	0.084 7760	9.887 7619	62	557	
		92		155			63		
444	9.802 9951		9.915 2395		0.084 7605	9.887 7556		556	
445	9.803 0043	92	9.915 2549	154	0.084 7451	9.887 7494	62	555	
446	9.803 0135	92	9.915 2704	155	0.084 7296	9.887 7431	63	554	
		92		154			62		
447	9.803 0227		9.915 2858		0.084 7142	9.887 7369		553	
448	9.803 0319	92	9.915 3013	155	0.084 6987	9.887 7307	62	552	
449	9.803 0411	92	9.915 3167	154	0.084 6833	9.887 7244	63	551	
		93		155			62		
.450	9.803 0504		9.915 3322		0.084 6678	9.887 7182		.550	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	93	92
1	9.3	9.2
2	18.6	18.4
3	27.9	27.6
4	37.2	36.8
5	46.5	46.0
6	55.8	55.2
7	65.1	64.4
8	74.4	73.6
9	83.7	82.8

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.600 — 50°.550

39°.450 — 39°.500

39°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.803 0504		9.915 3322		0.084 6678	9.887 7182		.550	
		92		154			62		
451	9.803 0596		9.915 3476		0.084 6524	9.887 7120		549	
452	9.803 0688	92	9.915 3631	155	0.084 6369	9.887 7057	63	548	
453	9.803 0780	92	9.915 3785	154	0.084 6215	9.887 6995	62	547	
		92		155			63		
454	9.803 0872		9.915 3940		0.084 6060	9.887 6932		546	
455	9.803 0964	92	9.915 4094	154	0.084 5906	9.887 6870	62	545	
456	9.803 1056	92	9.915 4249	155	0.084 5751	9.887 6808	62	544	
		92		154			63		
457	9.803 1148		9.915 4403		0.084 5597	9.887 6745		543	
458	9.803 1240	92	9.915 4558	155	0.084 5442	9.887 6683	62	542	
459	9.803 1333	93	9.915 4712	154	0.084 5288	9.887 6621	62	541	
		92		154			63		
.460	9.803 1425		9.915 4866		0.084 5134	9.887 6558		.540	
		92		155			62		
461	9.803 1517		9.915 5021		0.084 4979	9.887 6496		539	
462	9.803 1609	92	9.915 5175	154	0.084 4825	9.887 6433	63	538	
463	9.803 1701	92	9.915 5330	155	0.084 4670	9.887 6371	62	537	
		92		154			62		
464	9.803 1793		9.915 5484		0.084 4516	9.887 6309		536	
465	9.803 1885	92	9.915 5639	155	0.084 4361	9.887 6246	63	535	
466	9.803 1977	92	9.915 5793	154	0.084 4207	9.887 6184	62	534	
		92		155			63		
467	9.803 2069		9.915 5948		0.084 4052	9.887 6121		533	
468	9.803 2161	92	9.915 6102	154	0.084 3898	9.887 6059	62	532	
469	9.803 2253	92	9.915 6257	155	0.084 3743	9.887 5996	63	531	
		92		154			62		
.470	9.803 2345		9.915 6411		0.084 3589	9.887 5934		.530	
		92		155			62		
471	9.803 2437		9.915 6566		0.084 3434	9.887 5872		529	
472	9.803 2529	92	9.915 6720	154	0.084 3280	9.887 5809	63	528	
473	9.803 2621	92	9.915 6875	155	0.084 3125	9.887 5747	62	527	
		92		154			63		
474	9.803 2713		9.915 7029		0.084 2971	9.887 5684		526	
475	9.803 2805	92	9.915 7184	155	0.084 2816	9.887 5622	62	525	
476	9.803 2897	92	9.915 7338	154	0.084 2662	9.887 5560	62	524	
		93		154			63		
477	9.803 2990		9.915 7492		0.084 2508	9.887 5497		523	
478	9.803 3082	92	9.915 7647	155	0.084 2353	9.887 5435	62	522	
479	9.803 3174	92	9.915 7801	154	0.084 2199	9.887 5372	63	521	
		92		155			62		
.480	9.803 3266		9.915 7956		0.084 2044	9.887 5310		.520	
		92		154			63		
481	9.803 3358		9.915 8110		0.084 1890	9.887 5247		519	
482	9.803 3450	92	9.915 8265	155	0.084 1735	9.887 5185	62	518	
483	9.803 3542	92	9.915 8419	154	0.084 1581	9.887 5122	63	517	
		92		155			62		
484	9.803 3634		9.915 8574		0.084 1426	9.887 5060		516	
485	9.803 3726	92	9.915 8728	154	0.084 1272	9.887 4998	62	515	
486	9.803 3818	92	9.915 8883	155	0.084 1117	9.887 4935	63	514	
		92		154			62		
487	9.803 3910		9.915 9037		0.084 0963	9.887 4873		513	
488	9.803 4002	92	9.915 9191	154	0.084 0809	9.887 4810	63	512	
489	9.803 4094	92	9.915 9346	155	0.084 0654	9.887 4748	62	511	
		92		154			63		
.490	9.803 4186		9.915 9500		0.084 0500	9.887 4685		.510	
		92		155			62		
491	9.803 4278		9.915 9655		0.084 0345	9.887 4623		509	
492	9.803 4370	92	9.915 9809	154	0.084 0191	9.887 4560	63	508	
493	9.803 4462	92	9.915 9964	155	0.084 0036	9.887 4498	62	507	
		91		154			63		
494	9.803 4553		9.916 0118		0.083 9882	9.887 4435		506	
495	9.803 4645	92	9.916 0273	155	0.083 9727	9.887 4373	62	505	
496	9.803 4737	92	9.916 0427	154	0.083 9573	9.887 4310	63	504	
		92		154			62		
497	9.803 4829		9.916 0581		0.083 9419	9.887 4248		503	
498	9.803 4921	92	9.916 0736	155	0.083 9264	9.887 4186	62	502	
499	9.803 5013	92	9.916 0890	154	0.083 9110	9.887 4123	63	501	
		92		155			62		
.500	9.803 5105		9.916 1045		0.083 8955	9.887 4061		.500	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	93	92
1	9.3	9.2
2	18.6	18.4
3	27.9	27.6
4	37.2	36.8
5	46.5	46.0
6	55.8	55.2
7	65.1	64.4
8	74.4	73.6
9	83.7	82.8

	91
1	9.1
2	18.2
3	27.3
4	36.4
5	45.5
6	54.6
7	63.7
8	72.8
9	81.9

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.550 — 50°.500

39°.500 — 39°.550

39°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.803 5105		9.916 1045		0.083 8955	9.887 4061		.500	
		92		154			63		
501	9.803 5197		9.916 1199		0.083 8801	9.887 3998		499	
502	9.803 5289	92	9.916 1354	155	0.083 8646	9.887 3936	62	498	
503	9.803 5381	92	9.916 1508	154	0.083 8492	9.887 3873	63	497	
		92		154			62		
504	9.803 5473		9.916 1662		0.083 8338	9.887 3811		496	
505	9.803 5565	92	9.916 1817	155	0.083 8183	9.887 3748	63	495	
506	9.803 5657	92	9.916 1971	154	0.083 8029	9.887 3686	62	494	
		92		155			63		
507	9.803 5749		9.916 2126		0.083 7874	9.887 3623		493	
508	9.803 5841	92	9.916 2280	154	0.083 7720	9.887 3561	62	492	
509	9.803 5933	92	9.916 2435	155	0.083 7565	9.887 3498	63	491	
		92		154			62		
.510	9.803 6025		9.916 2589		0.083 7411	9.887 3436		.490	
		92		154			63		
511	9.803 6117		9.916 2743		0.083 7257	9.887 3373		489	
512	9.803 6208	91	9.916 2898	155	0.083 7102	9.887 3311	62	488	
513	9.803 6300	92	9.916 3052	154	0.083 6948	9.887 3248	63	487	
		92		155			62		
514	9.803 6392		9.916 3207		0.083 6793	9.887 3186		486	
515	9.803 6484	92	9.916 3361	154	0.083 6639	9.887 3123	63	485	
516	9.803 6576	92	9.916 3516	155	0.083 6484	9.887 3061	62	484	
		92		154			63		
517	9.803 6668		9.916 3670		0.083 6330	9.887 2998		483	
518	9.803 6760	92	9.916 3824	154	0.083 6176	9.887 2935	63	482	
519	9.803 6852	92	9.916 3979	155	0.083 6021	9.887 2873	62	481	
		92		154			63		
.520	9.803 6944		9.916 4133		0.083 5867	9.887 2810		.480	
		92		155			62		
521	9.803 7036		9.916 4288		0.083 5712	9.887 2748		479	
522	9.803 7127	91	9.916 4442	154	0.083 5558	9.887 2685	63	478	
523	9.803 7219	92	9.916 4596	154	0.083 5404	9.887 2623	62	477	
		92		155			63		
524	9.803 7311		9.916 4751		0.083 5249	9.887 2560		476	
525	9.803 7403	92	9.916 4905	154	0.083 5095	9.887 2498	62	475	
526	9.803 7495	92	9.916 5060	155	0.083 4940	9.887 2435	63	474	
		92		154			62		
527	9.803 7587		9.916 5214		0.083 4786	9.887 2373		473	
528	9.803 7679	92	9.916 5368	154	0.083 4632	9.887 2310	63	472	
529	9.803 7770	91	9.916 5523	155	0.083 4477	9.887 2248	62	471	
		92		154			63		
.530	9.803 7862		9.916 5677		0.083 4323	9.887 2185		.470	
		92		155			63		
531	9.803 7954		9.916 5832		0.083 4168	9.887 2122		469	
532	9.803 8046	92	9.916 5986	154	0.083 4014	9.887 2060	62	468	
533	9.803 8138	92	9.916 6140	154	0.083 3860	9.887 1997	63	467	
		92		155			62		
534	9.803 8230		9.916 6295		0.083 3705	9.887 1935		466	
535	9.803 8322	92	9.916 6449	154	0.083 3551	9.887 1872	63	465	
536	9.803 8413	91	9.916 6604	155	0.083 3396	9.887 1810	62	464	
		92		154			63		
537	9.803 8505		9.916 6758		0.083 3242	9.887 1747		463	
538	9.803 8597	92	9.916 6912	154	0.083 3088	9.887 1685	62	462	
539	9.803 8689	92	9.916 7067	155	0.083 2933	9.887 1622	63	461	
		92		154			62		
.540	9.803 8781		9.916 7221		0.083 2779	9.887 1559		.460	
		92		155			62		
541	9.803 8873		9.916 7376		0.083 2624	9.887 1497		459	
542	9.803 8964	91	9.916 7530	154	0.083 2470	9.887 1434	63	458	
543	9.803 9056	92	9.916 7684	154	0.083 2316	9.887 1372	62	457	
		92		155			63		
544	9.803 9148		9.916 7839		0.083 2161	9.887 1309		456	
545	9.803 9240	92	9.916 7993	154	0.083 2007	9.887 1247	62	455	
546	9.803 9332	92	9.916 8148	155	0.083 1852	9.887 1184	63	454	
		91		154			63		
547	9.803 9423		9.916 8302		0.083 1698	9.887 1121		453	
548	9.803 9515	92	9.916 8456	154	0.083 1544	9.887 1059	62	452	
549	9.803 9607	92	9.916 8611	155	0.083 1389	9.887 0996	63	451	
		92		154			62		
.550	9.803 9699		9.916 8765		0.083 1235	9.887 0934		.450	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	92	91
1	9.2	9.1
2	18.4	18.2
3	27.6	27.3
4	36.8	36.4
5	46.0	45.5
6	55.2	54.6
7	64.4	63.7
8	73.6	72.8
9	82.8	81.9

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.500 — 50°.450

39°.550 — 39°.600

39°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.803 9699		9.916 8765		0.083 1235	9.887 0934		.450	
		92		155			63		
551	9.803 9791		9.916 8920		0.083 1080	9.887 0871		449	
552	9.803 9882	91	9.916 9074	154	0.083 0926	9.887 0808	63	448	
553	9.803 9974	92	9.916 9228	154	0.083 0772	9.887 0746	62	447	
		92		155			63		
554	9.804 0066		9.916 9383		0.083 0617	9.887 0683		446	
555	9.804 0158	92	9.916 9537	154	0.083 0463	9.887 0621	62	445	
556	9.804 0249	91	9.916 9691	154	0.083 0309	9.887 0558	63	444	
		92		155			63		
557	9.804 0341		9.916 9846		0.083 0154	9.887 0495		443	
558	9.804 0433	92	9.917 0000	154	0.083 0000	9.887 0433	62	442	
559	9.804 0525	92	9.917 0155	155	0.082 9845	9.887 0370	63	441	
		91		154			62		
.560	9.804 0616		9.917 0309		0.082 9691	9.887 0308		.440	
		92		154			63		
561	9.804 0708		9.917 0463		0.082 9537	9.887 0245		439	
562	9.804 0800	92	9.917 0618	155	0.082 9382	9.887 0182	63	438	
563	9.804 0892	92	9.917 0772	154	0.082 9228	9.887 0120	62	437	
		91		154			63		
564	9.804 0983		9.917 0926		0.082 9074	9.887 0057		436	
565	9.804 1075	92	9.917 1081	155	0.082 8919	9.886 9994	63	435	
566	9.804 1167	92	9.917 1235	154	0.082 8765	9.886 9932	62	434	
		92		154			63		
567	9.804 1259		9.917 1389		0.082 8611	9.886 9869		433	
568	9.804 1350	91	9.917 1544	155	0.082 8456	9.886 9807	62	432	
569	9.804 1442	92	9.917 1698	154	0.082 8302	9.886 9744	63	431	
		92		155			63		
.570	9.804 1534		9.917 1853		0.082 8147	9.886 9681		.430	
		92		154			62		
571	9.804 1626		9.917 2007		0.082 7993	9.886 9619		429	
572	9.804 1717	91	9.917 2161	154	0.082 7839	9.886 9556	63	428	
573	9.804 1809	92	9.917 2316	155	0.082 7684	9.886 9493	63	427	
		92		154			62		
574	9.804 1901		9.917 2470		0.082 7530	9.886 9431		426	
575	9.804 1992	91	9.917 2624	154	0.082 7376	9.886 9368	63	425	
576	9.804 2084	92	9.917 2779	155	0.082 7221	9.886 9305	63	424	
		92		154			62		
577	9.804 2176		9.917 2933		0.082 7067	9.886 9243		423	
578	9.804 2268	92	9.917 3087	154	0.082 6913	9.886 9180	63	422	
579	9.804 2359	91	9.917 3242	155	0.082 6758	9.886 9117	63	421	
		92		154			62		
.580	9.804 2451		9.917 3396		0.082 6604	9.886 9055		.420	
		92		154			63		
581	9.804 2543		9.917 3550		0.082 6450	9.886 8992		419	
582	9.804 2634	91	9.917 3705	155	0.082 6295	9.886 8929	63	418	
583	9.804 2726	92	9.917 3859	154	0.082 6141	9.886 8867	62	417	
		92		155			63		
584	9.804 2818		9.917 4014		0.082 5986	9.886 8804		416	
585	9.804 2909	91	9.917 4168	154	0.082 5832	9.886 8741	63	415	
586	9.804 3001	92	9.917 4322	154	0.082 5678	9.886 8679	62	414	
		92		155			63		
587	9.804 3093		9.917 4477		0.082 5523	9.886 8616		413	
588	9.804 3184	91	9.917 4631	154	0.082 5369	9.886 8553	63	412	
589	9.804 3276	92	9.917 4785	154	0.082 5215	9.886 8491	62	411	
		92		155			63		
.590	9.804 3368		9.917 4940		0.082 5060	9.886 8428		.410	
		91		154			63		
591	9.804 3459		9.917 5094		0.082 4906	9.886 8365		409	
592	9.804 3551	92	9.917 5248	154	0.082 4752	9.886 8303	62	408	
593	9.804 3643	92	9.917 5403	155	0.082 4597	9.886 8240	63	407	
		91		154			63		
594	9.804 3734		9.917 5557		0.082 4443	9.886 8177		406	
595	9.804 3826	92	9.917 5711	154	0.082 4289	9.886 8115	62	405	
596	9.804 3918	92	9.917 5866	155	0.082 4134	9.886 8052	63	404	
		91		154			63		
597	9.804 4009		9.917 6020		0.082 3980	9.886 7989		403	
598	9.804 4101	92	9.917 6174	154	0.082 3826	9.886 7926	63	402	
599	9.804 4192	91	9.917 6329	155	0.082 3671	9.886 7864	62	401	
		92		154			63		
.600	9.804 4284		9.917 6483		0.082 3517	9.886 7801		.400	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	92	91
1	9.2	9.1
2	18.4	18.2
3	27.6	27.3
4	36.8	36.4
5	46.0	45.5
6	55.2	54.6
7	64.4	63.7
8	73.6	72.8
9	82.8	81.9

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.450 — 50°.400

39°.600 — 39°.650

39°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.804 4284		9.917 6483		0.082 3517	9.886 7801		.400	
		92		154			63		
601	9.804 4376		9.917 6637		0.082 3363	9.886 7738		399	
602	9.804 4467	91	9.917 6792	155	0.082 3208	9.886 7676	62	398	
603	9.804 4559	92	9.917 6946	154	0.082 3054	9.886 7613	63	397	
		92		154			63		
604	9.804 4651		9.917 7100		0.082 2900	9.886 7550		396	
605	9.804 4742	91	9.917 7255	155	0.082 2745	9.886 7488	62	395	
606	9.804 4834	92	9.917 7409	154	0.082 2591	9.886 7425	63	394	
		91		154			63		
607	9.804 4925		9.917 7563		0.082 2437	9.886 7362		393	
608	9.804 5017	92	9.917 7718	155	0.082 2282	9.886 7299	63	392	
609	9.804 5109	92	9.917 7872	154	0.082 2128	9.886 7237	62	391	
		91		154			63		
.610	9.804 5200		9.917 8026		0.082 1974	9.886 7174		.390	
		92		155			63		
611	9.804 5292		9.917 8181		0.082 1819	9.886 7111		389	
612	9.804 5383	91	9.917 8335	154	0.082 1665	9.886 7048	63	388	
613	9.804 5475	92	9.917 8489	154	0.082 1511	9.886 6986	62	387	
		91		155			63		
614	9.804 5566		9.917 8644		0.082 1356	9.886 6923		386	
615	9.804 5658	92	9.917 8798	154	0.082 1202	9.886 6860	63	385	
616	9.804 5750	92	9.917 8952	154	0.082 1048	9.886 6797	63	384	
		91		154			62		
617	9.804 5841		9.917 9106		0.082 0894	9.886 6735		383	
618	9.804 5933	92	9.917 9261	155	0.082 0739	9.886 6672	63	382	
619	9.804 6024	91	9.917 9415	154	0.082 0585	9.886 6609	63	381	
		92		154			62		
.620	9.804 6116		9.917 9569		0.082 0431	9.886 6547		.380	
		91		155			63		
621	9.804 6207		9.917 9724		0.082 0276	9.886 6484		379	
622	9.804 6299	92	9.917 9878	154	0.082 0122	9.886 6421	63	378	
623	9.804 6391	92	9.918 0032	154	0.081 9968	9.886 6358	63	377	
		91		155			63		
624	9.804 6482		9.918 0187		0.081 9813	9.886 6295		376	
625	9.804 6574	92	9.918 0341	154	0.081 9659	9.886 6233	62	375	
626	9.804 6665	91	9.918 0495	154	0.081 9505	9.886 6170	63	374	
		92		155			63		
627	9.804 6757		9.918 0650		0.081 9350	9.886 6107		373	
628	9.804 6848	91	9.918 0804	154	0.081 9196	9.886 6044	63	372	
629	9.804 6940	92	9.918 0958	154	0.081 9042	9.886 5982	62	371	
		91		154			63		
.630	9.804 7031		9.918 1112		0.081 8888	9.886 5919		.370	
		92		155			63		
631	9.804 7123		9.918 1267		0.081 8733	9.886 5856		369	
632	9.804 7214	91	9.918 1421	154	0.081 8579	9.886 5793	63	368	
633	9.804 7306	92	9.918 1575	154	0.081 8425	9.886 5731	62	367	
		91		155			63		
634	9.804 7397		9.918 1730		0.081 8270	9.886 5668		366	
635	9.804 7489	92	9.918 1884	154	0.081 8116	9.886 5605	63	365	
636	9.804 7580	91	9.918 2038	154	0.081 7962	9.886 5542	63	364	
		92		155			63		
637	9.804 7672		9.918 2193		0.081 7807	9.886 5479		363	
638	9.804 7763	91	9.918 2347	154	0.081 7653	9.886 5417	62	362	
639	9.804 7855	92	9.918 2501	154	0.081 7499	9.886 5354	63	361	
		91		154			63		
.640	9.804 7946		9.918 2655		0.081 7345	9.886 5291		.360	
		92		155			63		
641	9.804 8038		9.918 2810		0.081 7190	9.886 5228		359	
642	9.804 8129	91	9.918 2964	154	0.081 7036	9.886 5165	63	358	
643	9.804 8221	92	9.918 3118	154	0.081 6882	9.886 5103	62	357	
		91		155			63		
644	9.804 8312		9.918 3273		0.081 6727	9.886 5040		356	
645	9.804 8404	92	9.918 3427	154	0.081 6573	9.886 4977	63	355	
646	9.804 8495	91	9.918 3581	154	0.081 6419	9.886 4914	63	354	
		92		154			63		
647	9.804 8587		9.918 3735		0.081 6265	9.886 4851		353	
648	9.804 8678	91	9.918 3890	155	0.081 6110	9.886 4789	62	352	
649	9.804 8770	92	9.918 4044	154	0.081 5956	9.886 4726	63	351	
		91		154			63		
.650	9.804 8861		9.918 4198		0.081 5802	9.886 4663		.350	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	92	91
1	9.2	9.1
2	18.4	18.2
3	27.6	27.3
4	36.8	36.4
5	46.0	45.5
6	55.2	54.6
7	64.4	63.7
8	73.6	72.8
9	82.8	81.9

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.400 — 50°.350

39°.650 — 39°.700

39°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.804 8861		9.918 4198		0.081 5802	9.886 4663		**.350**	
		92		155			63		
651	9.804 8953		9.918 4353		0.081 5647	9.886 4600		349	
652	9.804 9044	91	9.918 4507	154	0.081 5493	9.886 4537	63	348	
653	9.804 9136	92	9.918 4661	154	0.081 5339	9.886 4475	62	347	
		91		154			63		
654	9.804 9227		9.918 4815		0.081 5185	9.886 4412		346	
655	9.804 9318	91	9.918 4970	155	0.081 5030	9.886 4349	63	345	
656	9.804 9410	92	9.918 5124	154	0.081 4876	9.886 4286	63	344	
		91		154			63		
657	9.804 9501		9.918 5278		0.081 4722	9.886 4223		343	
658	9.804 9593	92	9.918 5432	154	0.081 4568	9.886 4160	63	342	
659	9.804 9684	91	9.918 5587	155	0.081 4413	9.886 4098	62	341	
		92		154			63		
.660	9.804 9776		9.918 5741		0.081 4259	9.886 4035		**.340**	
		91		154			63		
661	9.804 9867		9.918 5895		0.081 4105	9.886 3972		339	
662	9.804 9959	92	9.918 6050	155	0.081 3950	9.886 3909	63	338	
663	9.805 0050	91	9.918 6204	154	0.081 3796	9.886 3846	63	337	
		91		154			63		
664	9.805 0141		9.918 6358		0.081 3642	9.886 3783		336	
665	9.805 0233	92	9.918 6512	154	0.081 3488	9.886 3720	63	335	
666	9.805 0324	91	9.918 6667	155	0.081 3333	9.886 3658	62	334	
		92		154			63		
667	9.805 0416		9.918 6821		0.081 3179	9.886 3595		333	
668	9.805 0507	91	9.918 6975	154	0.081 3025	9.886 3532	63	332	
669	9.805 0598	91	9.918 7129	154	0.081 2871	9.886 3469	63	331	
		92		155			63		
.670	9.805 0690		9.918 7284		0.081 2716	9.886 3406		**.330**	
		91		154			63		
671	9.805 0781		9.918 7438		0.081 2562	9.886 3343		329	
672	9.805 0873	92	9.918 7592	154	0.081 2408	9.886 3280	63	328	
673	9.805 0964	91	9.918 7746	154	0.081 2254	9.886 3218	62	327	
		91		155			63		
674	9.805 1055		9.918 7901		0.081 2099	9.886 3155		326	
675	9.805 1147	92	9.918 8055	154	0.081 1945	9.886 3092	63	325	
676	9.805 1238	91	9.918 8209	154	0.081 1791	9.886 3029	63	324	
		92		154			63		
677	9.805 1330		9.918 8363		0.081 1637	9.886 2966		323	
678	9.805 1421	91	9.918 8518	155	0.081 1482	9.886 2903	63	322	
679	9.805 1512	91	9.918 8672	154	0.081 1328	9.886 2840	63	321	
		92		154			63		
.680	9.805 1604		9.918 8826		0.081 1174	9.886 2777		**.320**	
		91		154			62		
681	9.805 1695		9.918 8980		0.081 1020	9.886 2715		319	
682	9.805 1786	91	9.918 9135	155	0.081 0865	9.886 2652	63	318	
683	9.805 1878	92	9.918 9289	154	0.081 0711	9.886 2589	63	317	
		91		154			63		
684	9.805 1969		9.918 9443		0.081 0557	9.886 2526		316	
685	9.805 2060	91	9.918 9597	154	0.081 0403	9.886 2463	63	315	
686	9.805 2152	92	9.918 9752	155	0.081 0248	9.886 2400	63	314	
		91		154			63		
687	9.805 2243		9.918 9906		0.081 0094	9.886 2337		313	
688	9.805 2334	91	9.919 0060	154	0.080 9940	9.886 2274	63	312	
689	9.805 2426	92	9.919 0214	154	0.080 9786	9.886 2211	63	311	
		91		155			63		
.690	9.805 2517		9.919 0369		0.080 9631	9.886 2148		**.310**	
		91		154			62		
691	9.805 2608		9.919 0523		0.080 9477	9.886 2086		309	
692	9.805 2700	92	9.919 0677	154	0.080 9323	9.886 2023	63	308	
693	9.805 2791	91	9.919 0831	154	0.080 9169	9.886 1960	63	307	
		91		155			63		
694	9.805 2882		9.919 0986		0.080 9014	9.886 1897		306	
695	9.805 2974	92	9.919 1140	154	0.080 8860	9.886 1834	63	305	
696	9.805 3065	91	9.919 1294	154	0.080 8706	9.886 1771	63	304	
		91		154			63		
697	9.805 3156		9.919 1448		0.080 8552	9.886 1708		303	
698	9.805 3248	92	9.919 1603	155	0.080 8397	9.886 1645	63	302	
699	9.805 3339	91	9.919 1757	154	0.080 8243	9.886 1582	63	301	
		91		154			63		
.700	9.805 3430		9.919 1911		0.080 8089	9.886 1519		**.300**	
	cos	d	cotg	d	tang	sin	d	**50°**	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	92	91
1	9.2	9.1
2	18.4	18.2
3	27.6	27.3
4	36.8	36.4
5	46.0	45.5
6	55.2	54.6
7	64.4	63.7
8	73.6	72.8
9	82.8	81.9

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.350 — 50°.300

39°.700 — 39°.750

39°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.805 3430		9.919 1911		0.080 8089	9.886 1519		.300	
		92		154			63		
701	9.805 3522		9.919 2065		0.080 7935	9.886 1456		299	
702	9.805 3613	91	9.919 2219	154	0.080 7781	9.886 1393	63	298	
703	9.805 3704	91	9.919 2374	155	0.080 7626	9.886 1331	62	297	
		91		154			63		
704	9.805 3795		9.919 2528		0.080 7472	9.886 1268		296	
705	9.805 3887	92	9.919 2682	154	0.080 7318	9.886 1205	63	295	
706	9.805 3978	91	9.919 2836	154	0.080 7164	9.886 1142	63	294	
		91		155			63		
707	9.805 4069		9.919 2991		0.080 7009	9.886 1079		293	
708	9.805 4161	92	9.919 3145	154	0.080 6855	9.886 1016	63	292	
709	9.805 4252	91	9.919 3299	154	0.080 6701	9.886 0953	63	291	
		91		154			63		
.710	9.805 4343		9.919 3453		0.080 6547	9.886 0890		.290	
		91		154			63		
711	9.805 4434		9.919 3607		0.080 6393	9.886 0827		289	
712	9.805 4526	92	9.919 3762	155	0.080 6238	9.886 0764	63	288	
713	9.805 4617	91	9.919 3916	154	0.080 6084	9.886 0701	63	287	
		91		154			63		
714	9.805 4708		9.919 4070		0.080 5930	9.886 0638		286	
715	9.805 4799	91	9.919 4224	154	0.080 5776	9.886 0575	63	285	
716	9.805 4891	92	9.919 4379	155	0.080 5621	9.886 0512	63	284	
		91		154			63		
717	9.805 4982		9.919 4533		0.080 5467	9.886 0449		283	
718	9.805 5073	91	9.919 4687	154	0.080 5313	9.886 0386	63	282	
719	9.805 5164	91	9.919 4841	154	0.080 5159	9.886 0323	63	281	
		92		154			63		
.720	9.805 5256		9.919 4995		0.080 5005	9.886 0260		.280	
		91		155			63		
721	9.805 5347		9.919 5150		0.080 4850	9.886 0197		279	
722	9.805 5438	91	9.919 5304	154	0.080 4696	9.886 0134	63	278	
723	9.805 5529	91	9.919 5458	154	0.080 4542	9.886 0071	63	277	
		92		154			63		
724	9.805 5621		9.919 5612		0.080 4388	9.886 0008		276	
725	9.805 5712	91	9.919 5766	154	0.080 4234	9.885 9945	63	275	
726	9.805 5803	91	9.919 5921	155	0.080 4079	9.885 9882	63	274	
		91		154			63		
727	9.805 5894		9.919 6075		0.080 3925	9.885 9819		273	
728	9.805 5985	91	9.919 6229	154	0.080 3771	9.885 9756	63	272	
729	9.805 6077	92	9.919 6383	154	0.080 3617	9.885 9693	63	271	
		91		154			63		
.730	9.805 6168		9.919 6537		0.080 3463	9.885 9630		.270	
		91		155			63		
731	9.805 6259		9.919 6692		0.080 3308	9.885 9567		269	
732	9.805 6350	91	9.919 6846	154	0.080 3154	9.885 9504	63	268	
733	9.805 6441	91	9.919 7000	154	0.080 3000	9.885 9441	63	267	
		92		154			63		
734	9.805 6533		9.919 7154		0.080 2846	9.885 9378		266	
735	9.805 6624	91	9.919 7308	154	0.080 2692	9.885 9315	63	265	
736	9.805 6715	91	9.919 7463	155	0.080 2537	9.885 9252	63	264	
		91		154			63		
737	9.805 6806		9.919 7617		0.080 2383	9.885 9189		263	
738	9.805 6897	91	9.919 7771	154	0.080 2229	9.885 9126	63	262	
739	9.805 6989	92	9.919 7925	154	0.080 2075	9.885 9063	63	261	
		91		154			63		
.740	9.805 7080		9.919 8079		0.080 1921	9.885 9000		.260	
		91		155			63		
741	9.805 7171		9.919 8234		0.080 1766	9.885 8937		259	
742	9.805 7262	91	9.919 8388	154	0.080 1612	9.885 8874	63	258	
743	9.805 7353	91	9.919 8542	154	0.080 1458	9.885 8811	63	257	
		91		154			63		
744	9.805 7444		9.919 8696		0.080 1304	9.885 8748		256	
745	9.805 7535	91	9.919 8850	154	0.080 1150	9.885 8685	63	255	
746	9.805 7627	92	9.919 9004	154	0.080 0996	9.885 8622	63	254	
		91		155			63		
747	9.805 7718		9.919 9159		0.080 0841	9.885 8559		253	
748	9.805 7809	91	9.919 9313	154	0.080 0687	9.885 8496	63	252	
749	9.805 7900	91	9.919 9467	154	0.080 0533	9.885 8433	63	251	
		91		154			63		
.750	9.805 7991		9.919 9621		0.080 0379	9.885 8370		.250	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	92	91
1	9.2	9.1
2	18.4	18.2
3	27.6	27.3
4	36.8	36.4
5	46.0	45.5
6	55.2	54.6
7	64.4	63.7
8	73.6	72.8
9	82.8	81.9

	63	62
1	6.3	6.2
2	12.6	12.4
3	18.9	18.6
4	25.2	24.8
5	31.5	31.0
6	37.8	37.2
7	44.1	43.4
8	50.4	49.6
9	56.7	55.8

50°.300 — 50°.250

39°.750 — 39°.800

39°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.805 7991		9.919 9621		0.080 0379	9.885 8370		.250	
		91		154			63		
751	9.805 8082		9.919 9775		0.080 0225	9.885 8307		249	
752	9.805 8173	91	9.919 9930	155	0.080 0070	9.885 8244	63	248	
753	9.805 8265	92	9.920 0084	154	0.079 9916	9.885 8181	63	247	
		91		154			63		
754	9.805 8356		9.920 0238		0.079 9762	9.885 8118		246	
755	9.805 8447	91	9.920 0392	154	0.079 9608	9.885 8055	63	245	
756	9.805 8538	91	9.920 0546	154	0.079 9454	9.885 7992	63	244	
		91		154			63		
757	9.805 8629		9.920 0700		0.079 9300	9.885 7929		243	
758	9.805 8720	91	9.920 0855	155	0.079 9145	9.885 7866	63	242	
759	9.805 8811	91	9.920 1009	154	0.079 8991	9.885 7803	63	241	
		91		154			63		
.760	9.805 8902		9.920 1163		0.079 8837	9.885 7740		.240	
		92		154			64		
761	9.805 8994		9.920 1317		0.079 8683	9.885 7676		239	
762	9.805 9085	91	9.920 1471	154	0.079 8529	9.885 7613	63	238	
763	9.805 9176	91	9.920 1625	154	0.079 8375	9.885 7550	63	237	
		91		155			63		
764	9.805 9267		9.920 1780		0.079 8220	9.885 7487		236	
765	9.805 9358	91	9.920 1934	154	0.079 8066	9.885 7424	63	235	
766	9.805 9449	91	9.920 2088	154	0.079 7912	9.885 7361	63	234	
		91		154			63		
767	9.805 9540		9.920 2242		0.079 7758	9.885 7298		233	
768	9.805 9631	91	9.920 2396	154	0.079 7604	9.885 7235	63	232	
769	9.805 9722	91	9.920 2550	154	0.079 7450	9.885 7172	63	231	
		91		155			63		
.770	9.805 9813		9.920 2705		0.079 7295	9.885 7109		.230	
		91		154			63		
771	9.805 9904		9.920 2859		0.079 7141	9.885 7046		229	
772	9.805 9995	91	9.920 3013	154	0.079 6987	9.885 6983	63	228	
773	9.806 0087	92	9.920 3167	154	0.079 6833	9.885 6920	63	227	
		91		154			64		
774	9.806 0178		9.920 3321		0.079 6679	9.885 6856		226	
775	9.806 0269	91	9.920 3475	154	0.079 6525	9.885 6793	63	225	
776	9.806 0360	91	9.920 3629	154	0.079 6371	9.885 6730	63	224	
		91		155			63		
777	9.806 0451		9.920 3784		0.079 6216	9.885 6667		223	
778	9.806 0542	91	9.920 3938	154	0.079 6062	9.885 6604	63	222	
779	9.806 0633	91	9.920 4092	154	0.079 5908	9.885 6541	63	221	
		91		154			63		
.780	9.806 0724		9.920 4246		0.079 5754	9.885 6478		.220	
		91		154			63		
781	9.806 0815		9.920 4400		0.079 5600	9.885 6415		219	
782	9.806 0906	91	9.920 4554	154	0.079 5446	9.885 6352	63	218	
783	9.806 0997	91	9.920 4709	155	0.079 5291	9.885 6288	64	217	
		91		154			63		
784	9.806 1088		9.920 4863		0.079 5137	9.885 6225		216	
785	9.806 1179	91	9.920 5017	154	0.079 4983	9.885 6162	63	215	
786	9.806 1270	91	9.920 5171	154	0.079 4829	9.885 6099	63	214	
		91		154			63		
787	9.806 1361		9.920 5325		0.079 4675	9.885 6036		213	
788	9.806 1452	91	9.920 5479	154	0.079 4521	9.885 5973	63	212	
789	9.806 1543	91	9.920 5633	154	0.079 4367	9.885 5910	63	211	
		91		155			63		
.790	9.806 1634		9.920 5788		0.079 4212	9.885 5847		.210	
		91		154			64		
791	9.806 1725		9.920 5942		0.079 4058	9.885 5783		209	
792	9.806 1816	91	9.920 6096	154	0.079 3904	9.885 5720	63	208	
793	9.806 1907	91	9.920 6250	154	0.079 3750	9.885 5657	63	207	
		91		154			63		
794	9.806 1998		9.920 6404		0.079 3596	9.885 5594		206	
795	9.806 2089	91	9.920 6558	154	0.079 3442	9.885 5531	63	205	
796	9.806 2180	91	9.920 6712	154	0.079 3288	9.885 5468	63	204	
		91		154			63		
797	9.806 2271		9.920 6866		0.079 3134	9.885 5405		203	
798	9.806 2362	91	9.920 7021	155	0.079 2979	9.885 5341	64	202	
799	9.806 2453	91	9.920 7175	154	0.079 2825	9.885 5278	63	201	
		91		154			63		
.800	9.806 2544		9.920 7329		0.079 2671	9.885 5215		.200	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	92	91
1	9.2	9.1
2	18.4	18.2
3	27.6	27.3
4	36.8	36.4
5	46.0	45.5
6	55.2	54.6
7	64.4	63.7
8	73.6	72.8
9	82.8	81.9

	64	63
1	6.4	6.3
2	12.8	12.6
3	19.2	18.9
4	25.6	25.2
5	32.0	31.5
6	38.4	37.8
7	44.8	44.1
8	51.2	50.4
9	57.6	56.7

50°.250 — 50°.200

39°.800 — 39°.850

39°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.806 2544		9.920 7329		0.079 2671	9.885 5215		.200	
		91		154			63		
801	9.806 2635		9.920 7483		0.079 2517	9.885 5152		199	
802	9.806 2726	91	9.920 7637	154	0.079 2363	9.885 5089	63	198	
803	9.806 2817	91	9.920 7791	154	0.079 2209	9.885 5026	63	197	
		91		154			63		
804	9.806 2908		9.920 7945		0.079 2055	9.885 4963		196	
805	9.806 2999	91	9.920 8100	155	0.079 1900	9.885 4899	64	195	
806	9.806 3090	91	9.920 8254	154	0.079 1746	9.885 4836	63	194	
		91		154			63		
807	9.806 3181		9.920 8408		0.079 1592	9.885 4773		193	
808	9.806 3272	91	9.920 8562	154	0.079 1438	9.885 4710	63	192	
809	9.806 3363	91	9.920 8716	154	0.079 1284	9.885 4647	63	191	
		91		154			63		
.810	9.806 3454		9.920 8870		0.079 1130	9.885 4584		.190	
		91		154			64		
811	9.806 3545		9.920 9024		0.079 0976	9.885 4520		189	
812	9.806 3636	91	9.920 9178	154	0.079 0822	9.885 4457	63	188	
813	9.806 3727	91	9.920 9332	154	0.079 0668	9.885 4394	63	187	
		90		155			63		
814	9.806 3817		9.920 9487		0.079 0513	9.885 4331		186	
815	9.806 3908	91	9.920 9641	154	0.079 0359	9.885 4268	63	185	
816	9.806 3999	91	9.920 9795	154	0.079 0205	9.885 4204	64	184	
		91		154			63		
817	9.806 4090		9.920 9949		0.079 0051	9.885 4141		183	
818	9.806 4181	91	9.921 0103	154	0.078 9897	9.885 4078	63	182	
819	9.806 4272	91	9.921 0257	154	0.078 9743	9.885 4015	63	181	
		91		154			63		
.820	9.806 4363		9.921 0411		0.078 9589	9.885 3952		.180	
		91		154			64		
821	9.806 4454		9.921 0565		0.078 9435	9.885 3888		179	
822	9.806 4545	91	9.921 0719	154	0.078 9281	9.885 3825	63	178	
823	9.806 4636	91	9.921 0874	155	0.078 9126	9.885 3762	63	177	
		91		154			63		
824	9.806 4727		9.921 1028		0.078 8972	9.885 3699		176	
825	9.806 4817	90	9.921 1182	154	0.078 8818	9.885 3636	63	175	
826	9.806 4908	91	9.921 1336	154	0.078 8664	9.885 3572	64	174	
		91		154			63		
827	9.806 4999		9.921 1490		0.078 8510	9.885 3509		173	
828	9.806 5090	91	9.921 1644	154	0.078 8356	9.885 3446	63	172	
829	9.806 5181	91	9.921 1798	154	0.078 8202	9.885 3383	63	171	
		91		154			63		
.830	9.806 5272		9.921 1952		0.078 8048	9.885 3320		.170	
		91		154			64		
831	9.806 5363		9.921 2106		0.078 7894	9.885 3256		169	
832	9.806 5454	91	9.921 2261	155	0.078 7739	9.885 3193	63	168	
833	9.806 5545	91	9.921 2415	154	0.078 7585	9.885 3130	63	167	
		90		154			63		
834	9.806 5635		9.921 2569		0.078 7431	9.885 3067		166	
835	9.806 5726	91	9.921 2723	154	0.078 7277	9.885 3003	64	165	
836	9.806 5817	91	9.921 2877	154	0.078 7123	9.885 2940	63	164	
		91		154			63		
837	9.806 5908		9.921 3031		0.078 6969	9.885 2877		163	
838	9.806 5999	91	9.921 3185	154	0.078 6815	9.885 2814	63	162	
839	9.806 6090	91	9.921 3339	154	0.078 6661	9.885 2751	63	161	
		91		154			64		
.840	9.806 6181		9.921 3493		0.078 6507	9.885 2687		.160	
		90		154			63		
841	9.806 6271		9.921 3647		0.078 6353	9.885 2624		159	
842	9.806 6362	91	9.921 3801	154	0.078 6199	9.885 2561	63	158	
843	9.806 6453	91	9.921 3956	155	0.078 6044	9.885 2498	63	157	
		91		154			64		
844	9.806 6544		9.921 4110		0.078 5890	9.885 2434		156	
845	9.806 6635	91	9.921 4264	154	0.078 5736	9.885 2371	63	155	
846	9.806 6726	91	9.921 4418	154	0.078 5582	9.885 2308	63	154	
		90		154			63		
847	9.806 6816		9.921 4572		0.078 5428	9.885 2245		153	
848	9.806 6907	91	9.921 4726	154	0.078 5274	9.885 2181	64	152	
849	9.806 6998	91	9.921 4880	154	0.078 5120	9.885 2118	63	151	
		91		154			63		
.850	9.806 7089		9.921 5034		0.078 4966	9.885 2055		.150	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	91	90
1	9.1	9.0
2	18.2	18.0
3	27.3	27.0
4	36.4	36.0
5	45.5	45.0
6	54.6	54.0
7	63.7	63.0
8	72.8	72.0
9	81.9	81.0

	64	63
1	6.4	6.3
2	12.8	12.6
3	19.2	18.9
4	25.6	25.2
5	32.0	31.5
6	38.4	37.8
7	44.8	44.1
8	51.2	50.4
9	57.6	56.7

50°.200 — 50°.150

$39^\circ.850$ — $39^\circ.900$

39°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.806 7089		9.921 5034		0.078 4966	9.885 2055		**.150**	
		91		154			64		
851	9.806 7180		9.921 5188		0.078 4812	9.885 1991		149	
852	9.806 7270	90	9.921 5342	154	0.078 4658	9.885 1928	63	148	
853	9.806 7361	91	9.921 5496	154	0.078 4504	9.885 1865	63	147	
		91		154			63		
854	9.806 7452		9.921 5650		0.078 4350	9.885 1802		146	
855	9.806 7543	91	9.921 5805	155	0.078 4195	9.885 1738	64	145	
856	9.806 7634	91	9.921 5959	154	0.078 4041	9.885 1675	63	144	
		90		154			63		
857	9.806 7724		9.921 6113		0.078 3887	9.885 1612		143	
858	9.806 7815	91	9.921 6267	154	0.078 3733	9.885 1549	63	142	
859	9.806 7906	91	9.921 6421	154	0.078 3579	9.885 1485	64	141	
		91		154			63		
.860	9.806 7997		9.921 6575		0.078 3425	9.885 1422		**.140**	
		91		154			63		
861	9.806 8088		9.921 6729		0.078 3271	9.885 1359		139	
862	9.806 8178	90	9.921 6883	154	0.078 3117	9.885 1295	64	138	
863	9.806 8269	91	9.921 7037	154	0.078 2963	9.885 1232	63	137	
		91		154			63		
864	9.806 8360		9.921 7191		0.078 2809	9.885 1169		136	
865	9.806 8451	91	9.921 7345	154	0.078 2655	9.885 1106	63	135	
866	9.806 8541	90	9.921 7499	154	0.078 2501	9.885 1042	64	134	
		91		154			63		
867	9.806 8632		9.921 7653		0.078 2347	9.885 0979		133	
868	9.806 8723	91	9.921 7807	154	0.078 2193	9.885 0916	63	132	
869	9.806 8814	91	9.921 7961	154	0.078 2039	9.885 0852	64	131	
		91		155			63		
.870	9.806 8905		9.921 8116		0.078 1884	9.885 0789		**.130**	
		90		154			63		
871	9.806 8995		9.921 8270		0.078 1730	9.885 0726		129	
872	9.806 9086	91	9.921 8424	154	0.078 1576	9.885 0662	64	128	
873	9.806 9177	91	9.921 8578	154	0.078 1422	9.885 0599	63	127	
		91		154			63		
874	9.806 9268		9.921 8732		0.078 1268	9.885 0536		126	
875	9.806 9358	90	9.921 8886	154	0.078 1114	9.885 0472	64	125	
876	9.806 9449	91	9.921 9040	154	0.078 0960	9.885 0409	63	124	
		91		154			63		
877	9.806 9540		9.921 9194		0.078 0806	9.885 0346		123	
878	9.806 9630	90	9.921 9348	154	0.078 0652	9.885 0282	64	122	
879	9.806 9721	91	9.921 9502	154	0.078 0498	9.885 0219	63	121	
		91		154			63		
.880	9.806 9812		9.921 9656		0.078 0344	9.885 0156		**.120**	
		91		154			64		
881	9.806 9903		9.921 9810		0.078 0190	9.885 0092		119	
882	9.806 9993	90	9.921 9964	154	0.078 0036	9.885 0029	63	118	
883	9.807 0084	91	9.922 0118	154	0.077 9882	9.884 9966	63	117	
		91		154			64		
884	9.807 0175		9.922 0272		0.077 9728	9.884 9902		116	
885	9.807 0265	90	9.922 0426	154	0.077 9574	9.884 9839	63	115	
886	9.807 0356	91	9.922 0580	154	0.077 9420	9.884 9776	63	114	
		91		154			64		
887	9.807 0447		9.922 0734		0.077 9266	9.884 9712		113	
888	9.807 0538	91	9.922 0888	154	0.077 9112	9.884 9649	63	112	
889	9.807 0628	90	9.922 1043	155	0.077 8957	9.884 9586	63	111	
		91		154			64		
.890	9.807 0719		9.922 1197		0.077 8803	9.884 9522		**.110**	
		91		154			63		
891	9.807 0810		9.922 1351		0.077 8649	9.884 9459		109	
892	9.807 0900	90	9.922 1505	154	0.077 8495	9.884 9396	63	108	
893	9.807 0991	91	9.922 1659	154	0.077 8341	9.884 9332	64	107	
		91		154			63		
894	9.807 1082		9.922 1813		0.077 8187	9.884 9269		106	
895	9.807 1172	90	9.922 1967	154	0.077 8033	9.884 9206	63	105	
896	9.807 1263	91	9.922 2121	154	0.077 7879	9.884 9142	64	104	
		91		154			63		
897	9.807 1354		9.922 2275		0.077 7725	9.884 9079		103	
898	9.807 1444	90	9.922 2429	154	0.077 7571	9.884 9015	64	102	
899	9.807 1535	91	9.922 2583	154	0.077 7417	9.884 8952	63	101	
		91		154			63		
.900	9.807 1626		9.922 2737		0.077 7263	9.884 8889		**.100**	
	cos	d	cotg	d	tang	sin	d	**50°**	P.P.

	155	154
1	15.5	15.4
2	31.0	30.8
3	46.5	46.2
4	62.0	61.6
5	77.5	77.0
6	93.0	92.4
7	108.5	107.8
8	124.0	123.2
9	139.5	138.6

	91	90
1	9.1	9.0
2	18.2	18.0
3	27.3	27.0
4	36.4	36.0
5	45.5	45.0
6	54.6	54.0
7	63.7	63.0
8	72.8	72.0
9	81.9	81.0

	64	63
1	6.4	6.3
2	12.8	12.6
3	19.2	18.9
4	25.6	25.2
5	32.0	31.5
6	38.4	37.8
7	44.8	44.1
8	51.2	50.4
9	57.6	56.7

$50^\circ.150$ — $50^\circ.100$

39°.900 — 39°.950

39°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.807 1626		9.922 2737		0.077 7263	9.884 8889		.100	
		90		154			64		
901	9.807 1716		9.922 2891		0.077 7109	9.884 8825		099	
902	9.807 1807	91	9.922 3045	154	0.077 6955	9.884 8762	63	098	
903	9.807 1898	91	9.922 3199	154	0.077 6801	9.884 8699	63	097	
		90		154			64		
904	9.807 1988		9.922 3353		0.077 6647	9.884 8635		096	
905	9.807 2079	91	9.922 3507	154	0.077 6493	9.884 8572	63	095	
906	9.807 2169	90	9.922 3661	154	0.077 6339	9.884 8508	64	094	
		91		154			63		
907	9.807 2260		9.922 3815		0.077 6185	9.884 8445		093	
908	9.807 2351	91	9.922 3969	154	0.077 6031	9.884 8382	63	092	
909	9.807 2441	90	9.922 4123	154	0.077 5877	9.884 8318	64	091	
		91		154			63		
.910	9.807 2532		9.922 4277		0.077 5723	9.884 8255		.090	
		91		154			64		
911	9.807 2623		9.922 4431		0.077 5569	9.884 8191		089	
912	9.807 2713	90	9.922 4585	154	0.077 5415	9.884 8128	63	088	
913	9.807 2804	91	9.922 4739	154	0.077 5261	9.884 8065	63	087	
		90		154			64		
914	9.807 2894		9.922 4893		0.077 5107	9.884 8001		086	
915	9.807 2985	91	9.922 5047	154	0.077 4953	9.884 7938	63	085	
916	9.807 3076	91	9.922 5201	154	0.077 4799	9.884 7874	64	084	
		90		154			63		
917	9.807 3166		9.922 5355		0.077 4645	9.884 7811		083	
918	9.807 3257	91	9.922 5509	154	0.077 4491	9.884 7748	63	082	
919	9.807 3347	90	9.922 5663	154	0.077 4337	9.884 7684	64	081	
		91		154			63		
.920	9.807 3438		9.922 5817		0.077 4183	9.884 7621		.080	
		91		154			64		
921	9.807 3529		9.922 5971		0.077 4029	9.884 7557		079	
922	9.807 3619	90	9.922 6125	154	0.077 3875	9.884 7494	63	078	
923	9.807 3710	91	9.922 6279	154	0.077 3721	9.884 7430	64	077	
		90		154			63		
924	9.807 3800		9.922 6433		0.077 3567	9.884 7367		076	
925	9.807 3891	91	9.922 6587	154	0.077 3413	9.884 7304	63	075	
926	9.807 3982	91	9.922 6741	154	0.077 3259	9.884 7240	64	074	
		90		154			63		
927	9.807 4072		9.922 6895		0.077 3105	9.884 7177		073	
928	9.807 4163	91	9.922 7049	154	0.077 2951	9.884 7113	64	072	
929	9.807 4253	90	9.922 7203	154	0.077 2797	9.884 7050	63	071	
		91		154			64		
.930	9.807 4344		9.922 7357		0.077 2643	9.884 6986		.070	
		90		154			63		
931	9.807 4434		9.922 7511		0.077 2489	9.884 6923		069	
932	9.807 4525	91	9.922 7665	154	0.077 2335	9.884 6859	64	068	
933	9.807 4615	90	9.922 7819	154	0.077 2181	9.884 6796	63	067	
		91		154			63		
934	9.807 4706		9.922 7973		0.077 2027	9.884 6733		066	
935	9.807 4797	91	9.922 8127	154	0.077 1873	9.884 6669	64	065	
936	9.807 4887	90	9.922 8281	154	0.077 1719	9.884 6606	63	064	
		91		154			64		
937	9.807 4978		9.922 8435		0.077 1565	9.884 6542		063	
938	9.807 5068	90	9.922 8589	154	0.077 1411	9.884 6479	63	062	
939	9.807 5159	91	9.922 8743	154	0.077 1257	9.884 6415	64	061	
		90		154			63		
.940	9.807 5249		9.922 8897		0.077 1103	9.884 6352		.060	
		91		154			64		
941	9.807 5340		9.922 9051		0.077 0949	9.884 6288		059	
942	9.807 5430	90	9.922 9205	154	0.077 0795	9.884 6225	63	058	
943	9.807 5521	91	9.922 9359	154	0.077 0641	9.884 6161	64	057	
		90		154			63		
944	9.807 5611		9.922 9513		0.077 0487	9.884 6098		056	
945	9.807 5702	91	9.922 9667	154	0.077 0333	9.884 6034	64	055	
946	9.807 5792	90	9.922 9821	154	0.077 0179	9.884 5971	63	054	
		91		154			64		
947	9.807 5883		9.922 9975		0.077 0025	9.884 5907		053	
948	9.807 5973	90	9.923 0129	154	0.076 9871	9.884 5844	63	052	
949	9.807 6064	91	9.923 0283	154	0.076 9717	9.884 5780	64	051	
		90		154			63		
.950	9.807 6154		9.923 0437		0.076 9563	9.884 5717		.050	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	154
1	15.4
2	30.8
3	46.2
4	61.6
5	77.0
6	92.4
7	107.8
8	123.2
9	138.6

	91	90
1	9.1	9.0
2	18.2	18.0
3	27.3	27.0
4	36.4	36.0
5	45.5	45.0
6	54.6	54.0
7	63.7	63.0
8	72.8	72.0
9	81.9	81.0

	64	63
1	6.4	6.3
2	12.8	12.6
3	19.2	18.9
4	25.6	25.2
5	32.0	31.5
6	38.4	37.8
7	44.8	44.1
8	51.2	50.4
9	57.6	56.7

50°.100 — 50°.050

39°.950 — 40°.000

39°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.807 6154		9.923 0437		0.076 9563	9.884 5717		.050	
		91		154			64		
951	9.807 6245		9.923 0591		0.076 9409	9.884 5653		049	
952	9.807 6335	90	9.923 0745	154	0.076 9255	9.884 5590	63	048	
953	9.807 6426	91	9.923 0899	154	0.076 9101	9.884 5527	63	047	
		90		154			64		
954	9.807 6516		9.923 1053		0.076 8947	9.884 5463		046	
955	9.807 6607	91	9.923 1207	154	0.076 8793	9.884 5400	63	045	
956	9.807 6697	90	9.923 1361	154	0.076 8639	9.884 5336	64	044	
		91		154			64		
957	9.807 6788		9.923 1515		0.076 8485	9.884 5272		043	
958	9.807 6878	90	9.923 1669	154	0.076 8331	9.884 5209	63	042	
959	9.807 6969	91	9.923 1823	154	0.076 8177	9.884 5145	64	041	
		90		154			63		
.960	9.807 7059		9.923 1977		0.076 8023	9.884 5082		.040	
		91		154			64		
961	9.807 7150		9.923 2131		0.076 7869	9.884 5018		039	
962	9.807 7240	90	9.923 2285	154	0.076 7715	9.884 4955	63	038	
963	9.807 7330	90	9.923 2439	154	0.076 7561	9.884 4891	64	037	
		91		154			63		
964	9.807 7421		9.923 2593		0.076 7407	9.884 4828		036	
965	9.807 7511	90	9.923 2747	154	0.076 7253	9.884 4764	64	035	
966	9.807 7602	91	9.923 2901	154	0.076 7099	9.884 4701	63	034	
		90		154			64		
967	9.807 7692		9.923 3055		0.076 6945	9.884 4637		033	
968	9.807 7783	91	9.923 3209	154	0.076 6791	9.884 4574	63	032	
969	9.807 7873	90	9.923 3363	154	0.076 6637	9.884 4510	64	031	
		91		154			63		
.970	9.807 7964		9.923 3517		0.076 6483	9.884 4447		.030	
		90		154			64		
971	9.807 8054		9.923 3671		0.076 6329	9.884 4383		029	
972	9.807 8144	90	9.923 3825	154	0.076 6175	9.884 4320	63	028	
973	9.807 8235	91	9.923 3979	154	0.076 6021	9.884 4256	64	027	
		90		154			63		
974	9.807 8325		9.923 4133		0.076 5867	9.884 4193		026	
975	9.807 8416	91	9.923 4287	154	0.076 5713	9.884 4129	64	025	
976	9.807 8506	90	9.923 4441	154	0.076 5559	9.884 4065	64	024	
		90		154			63		
977	9.807 8596		9.923 4595		0.076 5405	9.884 4002		023	
978	9.807 8687	91	9.923 4748	153	0.076 5252	9.884 3938	64	022	
979	9.807 8777	90	9.923 4902	154	0.076 5098	9.884 3875	63	021	
		91		154			64		
.980	9.807 8868		9.923 5056		0.076 4944	9.884 3811		.020	
		90		154			63		
981	9.807 8958		9.923 5210		0.076 4790	9.884 3748		019	
982	9.807 9048	90	9.923 5364	154	0.076 4636	9.884 3684	64	018	
983	9.807 9139	91	9.923 5518	154	0.076 4482	9.884 3621	63	017	
		90		154			64		
984	9.807 9229		9.923 5672		0.076 4328	9.884 3557		016	
985	9.807 9320	91	9.923 5826	154	0.076 4174	9.884 3493	64	015	
986	9.807 9410	90	9.923 5980	154	0.076 4020	9.884 3430	63	014	
		90		154			64		
987	9.807 9500		9.923 6134		0.076 3866	9.884 3366		013	
988	9.807 9591	91	9.923 6288	154	0.076 3712	9.884 3303	63	012	
989	9.807 9681	90	9.923 6442	154	0.076 3558	9.884 3239	64	011	
		90		154			63		
.990	9.807 9771		9.923 6596		0.076 3404	9.884 3176		.010	
		91		154			64		
991	9.807 9862		9.923 6750		0.076 3250	9.884 3112		009	
992	9.807 9952	90	9.923 6904	154	0.076 3096	9.884 3048	64	008	
993	9.808 0043	91	9.923 7058	154	0.076 2942	9.884 2985	63	007	
		90		154			64		
994	9.808 0133		9.923 7212		0.076 2788	9.884 2921		006	
995	9.808 0223	90	9.923 7366	154	0.076 2634	9.884 2858	63	005	
996	9.808 0314	91	9.923 7520	154	0.076 2480	9.884 2794	64	004	
		90		153			64		
997	9.808 0404		9.923 7673		0.076 2327	9.884 2730		003	
998	9.808 0494	90	9.923 7827	154	0.076 2173	9.884 2667	63	002	
999	9.808 0585	91	9.923 7981	154	0.076 2019	9.884 2603	64	001	
		90		154			63		
*.000	9.808 0675		9.923 8135		0.076 1865	9.884 2540		.000	
	cos	d	cotg	d	tang	sin	d	50°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	91	90
1	9.1	9.0
2	18.2	18.0
3	27.3	27.0
4	36.4	36.0
5	45.5	45.0
6	54.6	54.0
7	63.7	63.0
8	72.8	72.0
9	81.9	81.0

	64	63
1	6.4	6.3
2	12.8	12.6
3	19.2	18.9
4	25.6	25.2
5	32.0	31.5
6	38.4	37.8
7	44.8	44.1
8	51.2	50.4
9	57.6	56.7

50°.050 — 50°.000

40°.000 — 40°.050

40°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.808 0675		9.923 8135		0.076 1865	9.884 2540		*000	
		90		154			64		
001	9.808 0765		9.923 8289		0.076 1711	9.884 2476		999	
002	9.808 0856	91	9.923 8443	154	0.076 1557	9.884 2412	64	998	
003	9.808 0946	90	9.923 8597	154	0.076 1403	9.884 2349	63	997	
		90		154			64		
004	9.808 1036		9.923 8751		0.076 1249	9.884 2285		996	
005	9.808 1127	91	9.923 8905	154	0.076 1095	9.884 2222	63	995	
006	9.808 1217	90	9.923 9059	154	0.076 0941	9.884 2158	64	994	
		90		154			64		
007	9.808 1307		9.923 9213		0.076 0787	9.884 2094		993	
008	9.808 1398	91	9.923 9367	154	0.076 0633	9.884 2031	63	992	
009	9.808 1488	90	9.923 9521	154	0.076 0479	9.884 1967	64	991	
		90		154			63		
.010	9.808 1578		9.923 9675		0.076 0325	9.884 1904		.990	
		90		154			64		
011	9.808 1668		9.923 9829		0.076 0171	9.884 1840		989	
012	9.808 1759	91	9.923 9982	153	0.076 0018	9.884 1776	64	988	
013	9.808 1849	90	9.924 0136	154	0.075 9864	9.884 1713	63	987	
		90		154			64		
014	9.808 1939		9.924 0290		0.075 9710	9.884 1649		986	
015	9.808 2030	91	9.924 0444	154	0.075 9556	9.884 1585	64	985	
016	9.808 2120	90	9.924 0598	154	0.075 9402	9.884 1522	63	984	
		90		154			64		
017	9.808 2210		9.924 0752		0.075 9248	9.884 1458		983	
018	9.808 2300	90	9.924 0906	154	0.075 9094	9.884 1394	64	982	
019	9.808 2391	91	9.924 1060	154	0.075 8940	9.884 1331	63	981	
		90		154			64		
.020	9.808 2481		9.924 1214		0.075 8786	9.884 1267		.980	
		90		154			63		
021	9.808 2571		9.924 1368		0.075 8632	9.884 1204		979	
022	9.808 2662	91	9.924 1522	154	0.075 8478	9.884 1140	64	978	
023	9.808 2752	90	9.924 1676	154	0.075 8324	9.884 1076	64	977	
		90		153			63		
024	9.808 2842		9.924 1829		0.075 8171	9.884 1013		976	
025	9.808 2932	90	9.924 1983	154	0.075 8017	9.884 0949	64	975	
026	9.808 3023	91	9.924 2137	154	0.075 7863	9.884 0885	64	974	
		90		154			63		
027	9.808 3113		9.924 2291		0.075 7709	9.884 0822		973	
028	9.808 3203	90	9.924 2445	154	0.075 7555	9.884 0758	64	972	
029	9.808 3293	90	9.924 2599	154	0.075 7401	9.884 0694	64	971	
		91		154			63		
.030	9.808 3384		9.924 2753		0.075 7247	9.884 0631		.970	
		90		154			64		
031	9.808 3474		9.924 2907		0.075 7093	9.884 0567		969	
032	9.808 3564	90	9.924 3061	154	0.075 6939	9.884 0503	64	968	
033	9.808 3654	90	9.924 3215	154	0.075 6785	9.884 0440	63	967	
		90		154			64		
034	9.808 3744		9.924 3369		0.075 6631	9.884 0376		966	
035	9.808 3835	91	9.924 3522	153	0.075 6478	9.884 0312	64	965	
036	9.808 3925	90	9.924 3676	154	0.075 6324	9.884 0249	63	964	
		90		154			64		
037	9.808 4015		9.924 3830		0.075 6170	9.884 0185		963	
038	9.808 4105	90	9.924 3984	154	0.075 6016	9.884 0121	64	962	
039	9.808 4196	91	9.924 4138	154	0.075 5862	9.884 0057	64	961	
		90		154			63		
.040	9.808 4286		9.924 4292		0.075 5708	9.883 9994		.960	
		90		154			64		
041	9.808 4376		9.924 4446		0.075 5554	9.883 9930		959	
042	9.808 4466	90	9.924 4600	154	0.075 5400	9.883 9866	64	958	
043	9.808 4556	90	9.924 4754	154	0.075 5246	9.883 9803	63	957	
		91		154			64		
044	9.808 4647		9.924 4908		0.075 5092	9.883 9739		956	
045	9.808 4737	90	9.924 5061	153	0.075 4939	9.883 9675	64	955	
046	9.808 4827	90	9.924 5215	154	0.075 4785	9.883 9612	63	954	
		90		154			64		
047	9.808 4917		9.924 5369		0.075 4631	9.883 9548		953	
048	9.808 5007	90	9.924 5523	154	0.075 4477	9.883 9484	64	952	
049	9.808 5097	90	9.924 5677	154	0.075 4323	9.883 9420	64	951	
		91		154			63		
.050	9.808 5188		9.924 5831		0.075 4169	9.883 9357		.950	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	91	90
1	9.1	9.0
2	18.2	18.0
3	27.3	27.0
4	36.4	36.0
5	45.5	45.0
6	54.6	54.0
7	63.7	63.0
8	72.8	72.0
9	81.9	81.0

	64	63
1	6.4	6.3
2	12.8	12.6
3	19.2	18.9
4	25.6	25.2
5	32.0	31.5
6	38.4	37.8
7	44.8	44.1
8	51.2	50.4
9	57.6	56.7

50°.000 — 49°.950

$40^\circ.050$ — $40^\circ.100$

40°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.808 5188		9.924 5831		0.075 4169	9.883 9357		**.950**	
		90		154			64		
051	9.808 5278	90	9.924 5985	154	0.075 4015	9.883 9293	64	949	
052	9.808 5368	90	9.924 6139	154	0.075 3861	9.883 9229	63	948	
053	9.808 5458	90	9.924 6293	153	0.075 3707	9.883 9166	64	947	
054	9.808 5548	90	9.924 6446	154	0.075 3554	9.883 9102	64	946	
055	9.808 5638	91	9.924 6600	154	0.075 3400	9.883 9038	64	945	
056	9.808 5729	90	9.924 6754	154	0.075 3246	9.883 8974	63	944	
057	9.808 5819	90	9.924 6908	154	0.075 3092	9.883 8911	64	943	
058	9.808 5909	90	9.924 7062	154	0.075 2938	9.883 8847	64	942	
059	9.808 5999	90	9.924 7216	154	0.075 2784	9.883 8783	64	941	
.060	9.808 6089	90	9.924 7370	154	0.075 2630	9.883 8719	63	**.940**	
061	9.808 6179	90	9.924 7524	154	0.075 2476	9.883 8656	64	939	
062	9.808 6269	91	9.924 7678	153	0.075 2322	9.883 8592	64	938	
063	9.808 6360	90	9.924 7831	154	0.075 2169	9.883 8528	64	937	
064	9.808 6450	90	9.924 7985	154	0.075 2015	9.883 8464	63	936	
065	9.808 6540	90	9.924 8139	154	0.075 1861	9.883 8401	64	935	
066	9.808 6630	90	9.924 8293	154	0.075 1707	9.883 8337	64	934	
067	9.808 6720	90	9.924 8447	154	0.075 1553	9.883 8273	64	933	
068	9.808 6810	90	9.924 8601	154	0.075 1399	9.883 8209	63	932	
069	9.808 6900	90	9.924 8755	154	0.075 1245	9.883 8146	64	931	
.070	9.808 6990	91	9.924 8909	153	0.075 1091	9.883 8082	64	**.930**	
071	9.808 7081	90	9.924 9062	154	0.075 0938	9.883 8018	64	929	
072	9.808 7171	90	9.924 9216	154	0.075 0784	9.883 7954	63	928	
073	9.808 7261	90	9.924 9370	154	0.075 0630	9.883 7891	64	927	
074	9.808 7351	90	9.924 9524	154	0.075 0476	9.883 7827	64	926	
075	9.808 7441	90	9.924 9678	154	0.075 0322	9.883 7763	64	925	
076	9.808 7531	90	9.924 9832	154	0.075 0168	9.883 7699	63	924	
077	9.808 7621	90	9.924 9986	154	0.075 0014	9.883 7636	64	923	
078	9.808 7711	90	9.925 0139	153	0.074 9861	9.883 7572	64	922	
079	9.808 7801	90	9.925 0293	154	0.074 9707	9.883 7508	64	921	
.080	9.808 7891	90	9.925 0447	154	0.074 9553	9.883 7444	64	**.920**	
081	9.808 7981	91	9.925 0601	154	0.074 9399	9.883 7380	63	919	
082	9.808 8072	90	9.925 0755	154	0.074 9245	9.883 7317	64	918	
083	9.808 8162	90	9.925 0909	154	0.074 9091	9.883 7253	64	917	
084	9.808 8252	90	9.925 1063	153	0.074 8937	9.883 7189	64	916	
085	9.808 8342	90	9.925 1216	154	0.074 8784	9.883 7125	64	915	
086	9.808 8432	90	9.925 1370	154	0.074 8630	9.883 7061	63	914	
087	9.808 8522	90	9.925 1524	154	0.074 8476	9.883 6998	64	913	
088	9.808 8612	90	9.925 1678	154	0.074 8322	9.883 6934	64	912	
089	9.808 8702	90	9.925 1832	154	0.074 8168	9.883 6870	64	911	
.090	9.808 8792	90	9.925 1986	154	0.074 8014	9.883 6806	64	**.910**	
091	9.808 8882	90	9.925 2140	153	0.074 7860	9.883 6742	63	909	
092	9.808 8972	90	9.925 2293	154	0.074 7707	9.883 6679	64	908	
093	9.808 9062	90	9.925 2447	154	0.074 7553	9.883 6615	64	907	
094	9.808 9152	90	9.925 2601	154	0.074 7399	9.883 6551	64	906	
095	9.808 9242	90	9.925 2755	154	0.074 7245	9.883 6487	64	905	
096	9.808 9332	90	9.925 2909	154	0.074 7091	9.883 6423	63	904	
097	9.808 9422	90	9.925 3063	154	0.074 6937	9.883 6360	64	903	
098	9.808 9512	90	9.925 3217	153	0.074 6783	9.883 6296	64	902	
099	9.808 9602	90	9.925 3370	154	0.074 6630	9.883 6232	64	901	
.100	9.808 9692		9.925 3524		0.074 6476	9.883 6168		**.900**	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	91	90
1	9.1	9.0
2	18.2	18.0
3	27.3	27.0
4	36.4	36.0
5	45.5	45.0
6	54.6	54.0
7	63.7	63.0
8	72.8	72.0
9	81.9	81.0

	64	63
1	6.4	6.3
2	12.8	12.6
3	19.2	18.9
4	25.6	25.2
5	32.0	31.5
6	38.4	37.8
7	44.8	44.1
8	51.2	50.4
9	57.6	56.7

$49^\circ.950$ — $49^\circ.900$

40°.100 — 40°.150

40°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.808 9692		9.925 3524		0.074 6476	9.883 6168		.900	
		90		154			64		
101	9.808 9782		9.925 3678		0.074 6322	9.883 6104		899	
102	9.808 9872	90	9.925 3832	154	0.074 6168	9.883 6040	64	898	
103	9.808 9962	90	9.925 3986	154	0.074 6014	9.883 5977	63	897	
		90		154			64		
104	9.809 0052		9.925 4140		0.074 5860	9.883 5913		896	
105	9.809 0142	90	9.925 4293	153	0.074 5707	9.883 5849	64	895	
106	9.809 0232	90	9.925 4447	154	0.074 5553	9.883 5785	64	894	
		90		154			64		
107	9.809 0322		9.925 4601		0.074 5399	9.883 5721		893	
108	9.809 0412	90	9.925 4755	154	0.074 5245	9.883 5657	64	892	
109	9.809 0502	90	9.925 4909	154	0.074 5091	9.883 5594	63	891	
		90		154			64		
.110	9.809 0592		9.925 5063		0.074 4937	9.883 5530		.890	
		90		153			64		
111	9.809 0682		9.925 5216		0.074 4784	9.883 5466		889	
112	9.809 0772	90	9.925 5370	154	0.074 4630	9.883 5402	64	888	
113	9.809 0862	90	9.925 5524	154	0.074 4476	9.883 5338	64	887	
		90		154			64		
114	9.809 0952		9.925 5678		0.074 4322	9.883 5274		886	
115	9.809 1042	90	9.925 5832	154	0.074 4168	9.883 5210	64	885	
116	9.809 1132	90	9.925 5986	154	0.074 4014	9.883 5147	63	884	
		90		153			64		
117	9.809 1222		9.925 6139		0.074 3861	9.883 5083		883	
118	9.809 1312	90	9.925 6293	154	0.074 3707	9.883 5019	64	882	
119	9.809 1402	90	9.925 6447	154	0.074 3553	9.883 4955	64	881	
		90		154			64		
.120	9.809 1492		9.925 6601		0.074 3399	9.883 4891		.880	
		90		154			64		
121	9.809 1582		9.925 6755		0.074 3245	9.883 4827		879	
122	9.809 1672	90	9.925 6909	154	0.074 3091	9.883 4763	64	878	
123	9.809 1762	90	9.925 7062	153	0.074 2938	9.883 4699	64	877	
		90		154			63		
124	9.809 1852		9.925 7216		0.074 2784	9.883 4636		876	
125	9.809 1942	90	9.925 7370	154	0.074 2630	9.883 4572	64	875	
126	9.809 2032	90	9.925 7524	154	0.074 2476	9.883 4508	64	874	
		90		154			64		
127	9.809 2122		9.925 7678		0.074 2322	9.883 4444		873	
128	9.809 2211	89	9.925 7831	153	0.074 2169	9.883 4380	64	872	
129	9.809 2301	90	9.925 7985	154	0.074 2015	9.883 4316	64	871	
		90		154			64		
.130	9.809 2391		9.925 8139		0.074 1861	9.883 4252		.870	
		90		154			64		
131	9.809 2481		9.925 8293		0.074 1707	9.883 4188		869	
132	9.809 2571	90	9.925 8447	154	0.074 1553	9.883 4124	64	868	
133	9.809 2661	90	9.925 8600	153	0.074 1400	9.883 4061	63	867	
		90		154			64		
134	9.809 2751		9.925 8754		0.074 1246	9.883 3997		866	
135	9.809 2841	90	9.925 8908	154	0.074 1092	9.883 3933	64	865	
136	9.809 2931	90	9.925 9062	154	0.074 0938	9.883 3869	64	864	
		90		154			64		
137	9.809 3021		9.925 9216		0.074 0784	9.883 3805		863	
138	9.809 3111	90	9.925 9370	154	0.074 0630	9.883 3741	64	862	
139	9.809 3200	89	9.925 9523	153	0.074 0477	9.883 3677	64	861	
		90		154			64		
.140	9.809 3290		9.925 9677		0.074 0323	9.883 3613		.860	
		90		154			64		
141	9.809 3380		9.925 9831		0.074 0169	9.883 3549		859	
142	9.809 3470	90	9.925 9985	154	0.074 0015	9.883 3485	64	858	
143	9.809 3560	90	9.926 0139	154	0.073 9861	9.883 3421	64	857	
		90		153			64		
144	9.809 3650		9.926 0292		0.073 9708	9.883 3357		856	
145	9.809 3740	90	9.926 0446	154	0.073 9554	9.883 3294	63	855	
146	9.809 3830	90	9.926 0600	154	0.073 9400	9.883 3230	64	854	
		89		154			64		
147	9.809 3919		9.926 0754		0.073 9246	9.883 3166		853	
148	9.809 4009	90	9.926 0908	154	0.073 9092	9.883 3102	64	852	
149	9.809 4099	90	9.926 1061	153	0.073 8939	9.883 3038	64	851	
		90		154			64		
.150	9.809 4189		9.926 1215		0.073 8785	9.883 2974		.850	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	90	89
1	9.0	8.9
2	18.0	17.8
3	27.0	26.7
4	36.0	35.6
5	45.0	44.5
6	54.0	53.4
7	63.0	62.3
8	72.0	71.2
9	81.0	80.1

	64	63
1	6.4	6.3
2	12.8	12.6
3	19.2	18.9
4	25.6	25.2
5	32.0	31.5
6	38.4	37.8
7	44.8	44.1
8	51.2	50.4
9	57.6	56.7

49°.900 — 49°.850

$40^\circ.150$ — $40^\circ.200$

40°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.809 4189		9.926 1215		0.073 8785	9.883 2974		**.850**	
		90		154			64		
151	9.809 4279	90	9.926 1369	154	0.073 8631	9.883 2910	64	849	
152	9.809 4369	90	9.926 1523	154	0.073 8477	9.883 2846	64	848	
153	9.809 4459	89	9.926 1677	153	0.073 8323	9.883 2782	64	847	
154	9.809 4548	90	9.926 1830	154	0.073 8170	9.883 2718	64	846	
155	9.809 4638	90	9.926 1984	154	0.073 8016	9.883 2654	64	845	
156	9.809 4728	90	9.926 2138	154	0.073 7862	9.883 2590	64	844	
157	9.809 4818	90	9.926 2292	154	0.073 7708	9.883 2526	64	843	
158	9.809 4908	90	9.926 2445	153	0.073 7555	9.883 2462	64	842	
159	9.809 4998	90	9.926 2599	154	0.073 7401	9.883 2398	64	841	
.160	9.809 5087	89	9.926 2753	154	0.073 7247	9.883 2334	64	**.840**	
161	9.809 5177	90	9.926 2907	154	0.073 7093	9.883 2270	64	839	
162	9.809 5267	90	9.926 3061	154	0.073 6939	9.883 2206	64	838	
163	9.809 5357	90	9.926 3214	153	0.073 6786	9.883 2142	64	837	
164	9.809 5447	90	9.926 3368	154	0.073 6632	9.883 2078	64	836	
165	9.809 5536	89	9.926 3522	154	0.073 6478	9.883 2014	64	835	
166	9.809 5626	90	9.926 3676	154	0.073 6324	9.883 1951	63	834	
167	9.809 5716	90	9.926 3830	154	0.073 6170	9.883 1887	64	833	
168	9.809 5806	90	9.926 3983	153	0.073 6017	9.883 1823	64	832	
169	9.809 5896	90	9.926 4137	154	0.073 5863	9.883 1759	64	831	
.170	9.809 5985	89	9.926 4291	154	0.073 5709	9.883 1695	64	**.830**	
171	9.809 6075	90	9.926 4445	154	0.073 5555	9.883 1631	64	829	
172	9.809 6165	90	9.926 4598	153	0.073 5402	9.883 1567	64	828	
173	9.809 6255	90	9.926 4752	154	0.073 5248	9.883 1503	64	827	
174	9.809 6345	90	9.926 4906	154	0.073 5094	9.883 1439	64	826	
175	9.809 6434	89	9.926 5060	154	0.073 4940	9.883 1375	64	825	
176	9.809 6524	90	9.926 5214	154	0.073 4786	9.883 1311	64	824	
177	9.809 6614	90	9.926 5367	153	0.073 4633	9.883 1247	64	823	
178	9.809 6704	90	9.926 5521	154	0.073 4479	9.883 1183	64	822	
179	9.809 6793	89	9.926 5675	154	0.073 4325	9.883 1119	64	821	
.180	9.809 6883	90	9.926 5829	154	0.073 4171	9.883 1055	64	**.820**	
181	9.809 6973	90	9.926 5982	153	0.073 4018	9.883 0991	64	819	
182	9.809 7063	90	9.926 6136	154	0.073 3864	9.883 0927	64	818	
183	9.809 7152	89	9.926 6290	154	0.073 3710	9.883 0863	64	817	
184	9.809 7242	90	9.926 6444	154	0.073 3556	9.883 0799	64	816	
185	9.809 7332	90	9.926 6597	153	0.073 3403	9.883 0735	64	815	
186	9.809 7422	90	9.926 6751	154	0.073 3249	9.883 0671	64	814	
187	9.809 7511	89	9.926 6905	154	0.073 3095	9.883 0606	65	813	
188	9.809 7601	90	9.926 7059	154	0.073 2941	9.883 0542	64	812	
189	9.809 7691	90	9.926 7213	154	0.073 2787	9.883 0478	64	811	
.190	9.809 7781	90	9.926 7366	153	0.073 2634	9.883 0414	64	**.810**	
191	9.809 7870	89	9.926 7520	154	0.073 2480	9.883 0350	64	809	
192	9.809 7960	90	9.926 7674	154	0.073 2326	9.883 0286	64	808	
193	9.809 8050	90	9.926 7828	154	0.073 2172	9.883 0222	64	807	
194	9.809 8140	90	9.926 7981	153	0.073 2019	9.883 0158	64	806	
195	9.809 8229	89	9.926 8135	154	0.073 1865	9.883 0094	64	805	
196	9.809 8319	90	9.926 8289	154	0.073 1711	9.883 0030	64	804	
197	9.809 8409	90	9.926 8443	154	0.073 1557	9.882 9966	64	803	
198	9.809 8498	89	9.926 8596	153	0.073 1404	9.882 9902	64	802	
199	9.809 8588	90	9.926 8750	154	0.073 1250	9.882 9838	64	801	
.200	9.809 8678	90	9.926 8904	154	0.073 1096	9.882 9774	64	**.800**	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	90	89
1	9.0	8.9
2	18.0	17.8
3	27.0	26.7
4	36.0	35.6
5	45.0	44.5
6	54.0	53.4
7	63.0	62.3
8	72.0	71.2
9	81.0	80.1

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

	63
1	6.3
2	12.6
3	18.9
4	25.2
5	31.5
6	37.8
7	44.1
8	50.4
9	56.7

$49^\circ.850$ — $49^\circ.800$

40°.200 — 40°.250

40°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.809 8678		9.926 8904		0.073 1096	9.882 9774		**.800**	
		89		154			64		
201	9.809 8767		9.926 9058		0.073 0942	9.882 9710		799	
202	9.809 8857	90	9.926 9211	153	0.073 0789	9.882 9646	64	798	
203	9.809 8947	90	9.926 9365	154	0.073 0635	9.882 9582	64	797	
		90		154			64		
204	9.809 9037		9.926 9519		0.073 0481	9.882 9518		796	
205	9.809 9126	89	9.926 9673	154	0.073 0327	9.882 9454	64	795	
206	9.809 9216	90	9.926 9826	153	0.073 0174	9.882 9390	64	794	
		90		154			64		
207	9.809 9306		9.926 9980		0.073 0020	9.882 9326		793	
208	9.809 9395	89	9.927 0134	154	0.072 9866	9.882 9261	65	792	
209	9.809 9485	90	9.927 0288	154	0.072 9712	9.882 9197	64	791	
		90		153			64		
.210	9.809 9575		9.927 0441		0.072 9559	9.882 9133		**.790**	
		89		154			64		
211	9.809 9664		9.927 0595		0.072 9405	9.882 9069		789	
212	9.809 9754	90	9.927 0749	154	0.072 9251	9.882 9005	64	788	
213	9.809 9844	90	9.927 0902	153	0.072 9098	9.882 8941	64	787	
		89		154			64		
214	9.809 9933		9.927 1056		0.072 8944	9.882 8877		786	
215	9.810 0023	90	9.927 1210	154	0.072 8790	9.882 8813	64	785	
216	9.810 0113	90	9.927 1364	154	0.072 8636	9.882 8749	64	784	
		89		153			64		
217	9.810 0202		9.927 1517		0.072 8483	9.882 8685		783	
218	9.810 0292	90	9.927 1671	154	0.072 8329	9.882 8621	64	782	
219	9.810 0381	89	9.927 1825	154	0.072 8175	9.882 8557	64	781	
		90		154			65		
.220	9.810 0471		9.927 1979		0.072 8021	9.882 8492		**.780**	
		90		153			64		
221	9.810 0561		9.927 2132		0.072 7868	9.882 8428		779	
222	9.810 0650	89	9.927 2286	154	0.072 7714	9.882 8364	64	778	
223	9.810 0740	90	9.927 2440	154	0.072 7560	9.882 8300	64	777	
		90		154			64		
224	9.810 0830		9.927 2594		0.072 7406	9.882 8236		776	
225	9.810 0919	89	9.927 2747	153	0.072 7253	9.882 8172	64	775	
226	9.810 1009	90	9.927 2901	154	0.072 7099	9.882 8108	64	774	
		89		154			64		
227	9.810 1098		9.927 3055		0.072 6945	9.882 8044		773	
228	9.810 1188	90	9.927 3208	153	0.072 6792	9.882 7980	64	772	
229	9.810 1278	90	9.927 3362	154	0.072 6638	9.882 7915	65	771	
		89		154			64		
.230	9.810 1367		9.927 3516		0.072 6484	9.882 7851		**.770**	
		90		154			64		
231	9.810 1457		9.927 3670		0.072 6330	9.882 7787		769	
232	9.810 1546	89	9.927 3823	153	0.072 6177	9.882 7723	64	768	
233	9.810 1636	90	9.927 3977	154	0.072 6023	9.882 7659	64	767	
		90		154			64		
234	9.810 1726		9.927 4131		0.072 5869	9.882 7595		766	
235	9.810 1815	89	9.927 4285	154	0.072 5715	9.882 7531	64	765	
236	9.810 1905	90	9.927 4438	153	0.072 5562	9.882 7467	64	764	
		89		154			65		
237	9.810 1994		9.927 4592		0.072 5408	9.882 7402		763	
238	9.810 2084	90	9.927 4746	154	0.072 5254	9.882 7338	64	762	
239	9.810 2173	89	9.927 4899	153	0.072 5101	9.882 7274	64	761	
		90		154			64		
.240	9.810 2263		9.927 5053		0.072 4947	9.882 7210		**.760**	
		90		154			64		
241	9.810 2353		9.927 5207		0.072 4793	9.882 7146		759	
242	9.810 2442	89	9.927 5361	154	0.072 4639	9.882 7082	64	758	
243	9.810 2532	90	9.927 5514	153	0.072 4486	9.882 7018	64	757	
		89		154			65		
244	9.810 2621		9.927 5668		0.072 4332	9.882 6953		756	
245	9.810 2711	90	9.927 5822	154	0.072 4178	9.882 6889	64	755	
246	9.810 2800	89	9.927 5975	153	0.072 4025	9.882 6825	64	754	
		90		154			64		
247	9.810 2890		9.927 6129		0.072 3871	9.882 6761		753	
248	9.810 2980	90	9.927 6283	154	0.072 3717	9.882 6697	64	752	
249	9.810 3069	89	9.927 6437	154	0.072 3563	9.882 6633	64	751	
		90		153			65		
.250	9.810 3159		9.927 6590		0.072 3410	9.882 6568		**.750**	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	90	89
1	9.0	8.9
2	18.0	17.8
3	27.0	26.7
4	36.0	35.6
5	45.0	44.5
6	54.0	53.4
7	63.0	62.3
8	72.0	71.2
9	81.0	80.1

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

49°.800 — 49°.750

$40^\circ.250 - 40^\circ.300$

40°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.810 3159		9.927 6590		0.072 3410	9.882 6568		**.750**	
		89		154			64		
251	9.810 3248		9.927 6744		0.072 3256	9.882 6504		749	
252	9.810 3338	90	9.927 6898	154	0.072 3102	9.882 6440	64	748	
253	9.810 3427	89	9.927 7051	153	0.072 2949	9.882 6376	64	747	
		90		154			64		
254	9.810 3517		9.927 7205		0.072 2795	9.882 6312		746	
255	9.810 3606	89	9.927 7359	154	0.072 2641	9.882 6248	64	745	
256	9.810 3696	90	9.927 7512	153	0.072 2488	9.882 6183	65	744	
		89		154			64		
257	9.810 3785		9.927 7666		0.072 2334	9.882 6119		743	
258	9.810 3875	90	9.927 7820	154	0.072 2180	9.882 6055	64	742	
259	9.810 3964	89	9.927 7974	154	0.072 2026	9.882 5991	64	741	
		90		153			64		
.260	9.810 4054		9.927 8127		0.072 1873	9.882 5927		**.740**	
		89		154			65		
261	9.810 4143		9.927 8281		0.072 1719	9.882 5862		739	
262	9.810 4233	90	9.927 8435	154	0.072 1565	9.882 5798	64	738	
263	9.810 4322	89	9.927 8588	153	0.072 1412	9.882 5734	64	737	
		90		154			64		
264	9.810 4412		9.927 8742		0.072 1258	9.882 5670		736	
265	9.810 4501	89	9.927 8896	154	0.072 1104	9.882 5606	64	735	
266	9.810 4591	90	9.927 9049	153	0.072 0951	9.882 5541	65	734	
		89		154			64		
267	9.810 4680		9.927 9203		0.072 0797	9.882 5477		733	
268	9.810 4770	90	9.927 9357	154	0.072 0643	9.882 5413	64	732	
269	9.810 4859	89	9.927 9510	153	0.072 0490	9.882 5349	64	731	
		90		154			64		
.270	9.810 4949		9.927 9664		0.072 0336	9.882 5285		**.730**	
		89		154			65		
271	9.810 5038		9.927 9818		0.072 0182	9.882 5220		729	
272	9.810 5128	90	9.927 9972	154	0.072 0028	9.882 5156	64	728	
273	9.810 5217	89	9.928 0125	153	0.071 9875	9.882 5092	64	727	
		90		154			64		
274	9.810 5307		9.928 0279		0.071 9721	9.882 5028		726	
275	9.810 5396	89	9.928 0433	154	0.071 9567	9.882 4963	65	725	
276	9.810 5485	89	9.928 0586	153	0.071 9414	9.882 4899	64	724	
		90		154			64		
277	9.810 5575		9.928 0740		0.071 9260	9.882 4835		723	
278	9.810 5664	89	9.928 0894	154	0.071 9106	9.882 4771	64	722	
279	9.810 5754	90	9.928 1047	153	0.071 8953	9.882 4707	64	721	
		89		154			65		
.280	9.810 5843		9.928 1201		0.071 8799	9.882 4642		**.720**	
		90		154			64		
281	9.810 5933		9.928 1355		0.071 8645	9.882 4578		719	
282	9.810 6022	89	9.928 1508	153	0.071 8492	9.882 4514	64	718	
283	9.810 6112	90	9.928 1662	154	0.071 8338	9.882 4450	64	717	
		89		154			65		
284	9.810 6201		9.928 1816		0.071 8184	9.882 4385		716	
285	9.810 6290	89	9.928 1969	153	0.071 8031	9.882 4321	64	715	
286	9.810 6380	90	9.928 2123	154	0.071 7877	9.882 4257	64	714	
		89		154			64		
287	9.810 6469		9.928 2277		0.071 7723	9.882 4193		713	
288	9.810 6559	90	9.928 2430	153	0.071 7570	9.882 4128	65	712	
289	9.810 6648	89	9.928 2584	154	0.071 7416	9.882 4064	64	711	
		90		154			64		
.290	9.810 6738		9.928 2738		0.071 7262	9.882 4000		**.710**	
		89		153			64		
291	9.810 6827		9.928 2891		0.071 7109	9.882 3936		709	
292	9.810 6916	89	9.928 3045	154	0.071 6955	9.882 3871	65	708	
293	9.810 7006	90	9.928 3199	154	0.071 6801	9.882 3807	64	707	
		89		153			64		
294	9.810 7095		9.928 3352		0.071 6648	9.882 3743		706	
295	9.810 7185	90	9.928 3506	154	0.071 6494	9.882 3679	64	705	
296	9.810 7274	89	9.928 3660	154	0.071 6340	9.882 3614	65	704	
		89		153			64		
297	9.810 7363		9.928 3813		0.071 6187	9.882 3550		703	
298	9.810 7453	90	9.928 3967	154	0.071 6033	9.882 3486	64	702	
299	9.810 7542	89	9.928 4121	154	0.071 5879	9.882 3421	65	701	
		89		153			64		
.300	9.810 7631		9.928 4274		0.071 5726	9.882 3357		**.700**	
	cos	d	cotg	d	tang	sin	d	**49°**	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	90	89
1	9.0	8.9
2	18.0	17.8
3	27.0	26.7
4	36.0	35.6
5	45.0	44.5
6	54.0	53.4
7	63.0	62.3
8	72.0	71.2
9	81.0	80.1

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

$49^\circ.750 - 49^\circ.700$

$40^\circ.300$ — $40^\circ.350$

40°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.810 7631		9.928 4274		0.071 5726	9.882 3357		.700	
		90		154			64		
301	9.810 7721		9.928 4428		0.071 5572	9.882 3293		699	
302	9.810 7810	89	9.928 4582	154	0.071 5418	9.882 3229	64	698	
303	9.810 7900	90	9.928 4735	153	0.071 5265	9.882 3164	65	697	
		89		154			64		
304	9.810 7989		9.928 4889		0.071 5111	9.882 3100		696	
305	9.810 8078	89	9.928 5043	154	0.071 4957	9.882 3036	64	695	
306	9.810 8168	90	9.928 5196	153	0.071 4804	9.882 2971	65	694	
		89		154			64		
307	9.810 8257		9.928 5350		0.071 4650	9.882 2907		693	
308	9.810 8346	89	9.928 5504	154	0.071 4496	9.882 2843	64	692	
309	9.810 8436	90	9.928 5657	153	0.071 4343	9.882 2778	65	691	
		89		154			64		
.310	9.810 8525		9.928 5811		0.071 4189	9.882 2714		.690	
		89		154			64		
311	9.810 8614		9.928 5965		0.071 4035	9.882 2650		689	
312	9.810 8704	90	9.928 6118	153	0.071 3882	9.882 2586	64	688	
313	9.810 8793	89	9.928 6272	154	0.071 3728	9.882 2521	65	687	
		89		154			64		
314	9.810 8882		9.928 6426		0.071 3574	9.882 2457		686	
315	9.810 8972	90	9.928 6579	153	0.071 3421	9.882 2393	64	685	
316	9.810 9061	89	9.928 6733	154	0.071 3267	9.882 2328	65	684	
		89		153			64		
317	9.810 9150		9.928 6886		0.071 3114	9.882 2264		683	
318	9.810 9240	90	9.928 7040	154	0.071 2960	9.882 2200	64	682	
319	9.810 9329	89	9.928 7194	154	0.071 2806	9.882 2135	65	681	
		89		153			64		
.320	9.810 9418		9.928 7347		0.071 2653	9.882 2071		.680	
		90		154			64		
321	9.810 9508		9.928 7501		0.071 2499	9.882 2007		679	
322	9.810 9597	89	9.928 7655	154	0.071 2345	9.882 1942	65	678	
323	9.810 9686	89	9.928 7808	153	0.071 2192	9.882 1878	64	677	
		90		154			64		
324	9.810 9776		9.928 7962		0.071 2038	9.882 1814		676	
325	9.810 9865	89	9.928 8116	154	0.071 1884	9.882 1749	65	675	
326	9.810 9954	89	9.928 8269	153	0.071 1731	9.882 1685	64	674	
		90		154			64		
327	9.811 0044		9.928 8423		0.071 1577	9.882 1621		673	
328	9.811 0133	89	9.928 8577	154	0.071 1423	9.882 1556	65	672	
329	9.811 0222	89	9.928 8730	153	0.071 1270	9.882 1492	64	671	
		89		154			64		
.330	9.811 0311		9.928 8884		0.071 1116	9.882 1428		.670	
		90		153			65		
331	9.811 0401		9.928 9037		0.071 0963	9.882 1363		669	
332	9.811 0490	89	9.928 9191	154	0.071 0809	9.882 1299	64	668	
333	9.811 0579	89	9.928 9345	154	0.071 0655	9.882 1235	64	667	
		90		153			65		
334	9.811 0669		9.928 9498		0.071 0502	9.882 1170		666	
335	9.811 0758	89	9.928 9652	154	0.071 0348	9.882 1106	64	665	
336	9.811 0847	89	9.928 9806	154	0.071 0194	9.882 1041	65	664	
		89		153			64		
337	9.811 0936		9.928 9959		0.071 0041	9.882 0977		663	
338	9.811 1026	90	9.929 0113	154	0.070 9887	9.882 0913	64	662	
339	9.811 1115	89	9.929 0266	153	0.070 9734	9.882 0848	65	661	
		89		154			64		
.340	9.811 1204		9.929 0420		0.070 9580	9.882 0784		.660	
		89		154			64		
341	9.811 1293		9.929 0574		0.070 9426	9.882 0720		659	
342	9.811 1383	90	9.929 0727	153	0.070 9273	9.882 0655	65	658	
343	9.811 1472	89	9.929 0881	154	0.070 9119	9.882 0591	64	657	
		89		154			64		
344	9.811 1561		9.929 1035		0.070 8965	9.882 0527		656	
345	9.811 1650	89	9.929 1188	153	0.070 8812	9.882 0462	65	655	
346	9.811 1740	90	9.929 1342	154	0.070 8658	9.882 0398	64	654	
		89		153			65		
347	9.811 1829		9.929 1495		0.070 8505	9.882 0333		653	
348	9.811 1918	89	9.929 1649	154	0.070 8351	9.882 0269	64	652	
349	9.811 2007	89	9.929 1803	154	0.070 8197	9.882 0205	64	651	
		89		153			65		
.350	9.811 2096		9.929 1956		0.070 8044	9.882 0140		.650	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	90	89
1	9.0	8.9
2	18.0	17.8
3	27.0	26.7
4	36.0	35.6
5	45.0	44.5
6	54.0	53.4
7	63.0	62.3
8	72.0	71.2
9	81.0	80.1

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

$49^\circ.700$ — $49^\circ.650$

40°.350 — 40°.400

40°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.811 2096		9.929 1956		0.070 8044	9.882 0140		**.650**	
		90		154			64		
351	9.811 2186		9.929 2110		0.070 7890	9.882 0076		649	
352	9.811 2275	89	9.929 2264	154	0.070 7736	9.882 0011	65	648	
353	9.811 2364	89	9.929 2417	153	0.070 7583	9.881 9947	64	647	
		89		154			64		
354	9.811 2453		9.929 2571		0.070 7429	9.881 9883		646	
355	9.811 2543	90	9.929 2724	153	0.070 7276	9.881 9818	65	645	
356	9.811 2632	89	9.929 2878	154	0.070 7122	9.881 9754	64	644	
		89		154			65		
357	9.811 2721		9.929 3032		0.070 6968	9.881 9689		643	
358	9.811 2810	89	9.929 3185	153	0.070 6815	9.881 9625	64	642	
359	9.811 2899	89	9.929 3339	154	0.070 6661	9.881 9561	64	641	
		90		153			65		
.360	9.811 2989		9.929 3492		0.070 6508	9.881 9496		**.640**	
		89		154			64		
361	9.811 3078		9.929 3646		0.070 6354	9.881 9432		639	
362	9.811 3167	89	9.929 3800	154	0.070 6200	9.881 9367	65	638	
363	9.811 3256	89	9.929 3953	153	0.070 6047	9.881 9303	64	637	
		89		154			65		
364	9.811 3345		9.929 4107		0.070 5893	9.881 9238		636	
365	9.811 3434	89	9.929 4260	153	0.070 5740	9.881 9174	64	635	
366	9.811 3524	90	9.929 4414	154	0.070 5586	9.881 9110	64	634	
		89		154			65		
367	9.811 3613		9.929 4568		0.070 5432	9.881 9045		633	
368	9.811 3702	89	9.929 4721	153	0.070 5279	9.881 8981	64	632	
369	9.811 3791	89	9.929 4875	154	0.070 5125	9.881 8916	65	631	
		89		153			64		
.370	9.811 3880		9.929 5028		0.070 4972	9.881 8852		**.630**	
		89		154			65		
371	9.811 3969		9.929 5182		0.070 4818	9.881 8787		629	
372	9.811 4059	90	9.929 5336	154	0.070 4664	9.881 8723	64	628	
373	9.811 4148	89	9.929 5489	153	0.070 4511	9.881 8658	65	627	
		89		154			64		
374	9.811 4237		9.929 5643		0.070 4357	9.881 8594		626	
375	9.811 4326	89	9.929 5796	153	0.070 4204	9.881 8530	64	625	
376	9.811 4415	89	9.929 5950	154	0.070 4050	9.881 8465	65	624	
		89		154			64		
377	9.811 4504		9.929 6104		0.070 3896	9.881 8401		623	
378	9.811 4593	89	9.929 6257	153	0.070 3743	9.881 8336	65	622	
379	9.811 4683	90	9.929 6411	154	0.070 3589	9.881 8272	64	621	
		89		153			65		
.380	9.811 4772		9.929 6564		0.070 3436	9.881 8207		**.620**	
		89		154			64		
381	9.811 4861		9.929 6718		0.070 3282	9.881 8143		619	
382	9.811 4950	89	9.929 6872	154	0.070 3128	9.881 8078	65	618	
383	9.811 5039	89	9.929 7025	153	0.070 2975	9.881 8014	64	617	
		89		154			65		
384	9.811 5128		9.929 7179		0.070 2821	9.881 7949		616	
385	9.811 5217	89	9.929 7332	153	0.070 2668	9.881 7885	64	615	
386	9.811 5306	89	9.929 7486	154	0.070 2514	9.881 7820	65	614	
		89		154			64		
387	9.811 5395		9.929 7640		0.070 2360	9.881 7756		613	
388	9.811 5485	90	9.929 7793	153	0.070 2207	9.881 7691	65	612	
389	9.811 5574	89	9.929 7947	154	0.070 2053	9.881 7627	64	611	
		89		153			64		
.390	9.811 5663		9.929 8100		0.070 1900	9.881 7563		**.610**	
		89		154			65		
391	9.811 5752		9.929 8254		0.070 1746	9.881 7498		609	
392	9.811 5841	89	9.929 8407	153	0.070 1593	9.881 7434	64	608	
393	9.811 5930	89	9.929 8561	154	0.070 1439	9.881 7369	65	607	
		89		154			64		
394	9.811 6019		9.929 8715		0.070 1285	9.881 7305		606	
395	9.811 6108	89	9.929 8868	153	0.070 1132	9.881 7240	65	605	
396	9.811 6197	89	9.929 9022	154	0.070 0978	9.881 7176	64	604	
		89		153			65		
397	9.811 6286		9.929 9175		0.070 0825	9.881 7111		603	
398	9.811 6375	89	9.929 9329	154	0.070 0671	9.881 7047	64	602	
399	9.811 6465	90	9.929 9482	153	0.070 0518	9.881 6982	65	601	
		89		154			64		
.400	9.811 6554		9.929 9636		0.070 0364	9.881 6918		**.600**	
	cos	d	cotg	d	tang	sin	d	**49°**	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	90	89
1	9.0	8.9
2	18.0	17.8
3	27.0	26.7
4	36.0	35.6
5	45.0	44.5
6	54.0	53.4
7	63.0	62.3
8	72.0	71.2
9	81.0	80.1

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

49°.650 — 49°.600

$40^\circ.400 - 40^\circ.450$

40°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.811 6554		9.929 9636		0.070 0364	9.881 6918		.600	
		89		154			65		
401	9.811 6643		9.929 9790		0.070 0210	9.881 6853		599	
402	9.811 6732	89	9.929 9943	153	0.070 0057	9.881 6789	64	598	
403	9.811 6821	89	9.930 0097	154	0.069 9903	9.881 6724	65	597	
		89		153			65		
404	9.811 6910		9.930 0250		0.069 9750	9.881 6659		596	
405	9.811 6999	89	9.930 0404	154	0.069 9596	9.881 6595	64	595	
406	9.811 7088	89	9.930 0557	153	0.069 9443	9.881 6530	65	594	
		89		154			64		
407	9.811 7177		9.930 0711		0.069 9289	9.881 6466		593	
408	9.811 7266	89	9.930 0865	154	0.069 9135	9.881 6401	65	592	
409	9.811 7355	89	9.930 1018	153	0.069 8982	9.881 6337	64	591	
		89		154			65		
.410	9.811 7444		9.930 1172		0.069 8828	9.881 6272		.590	
		89		153			64		
411	9.811 7533		9.930 1325		0.069 8675	9.881 6208		589	
412	9.811 7622	89	9.930 1479	154	0.069 8521	9.881 6143	65	588	
413	9.811 7711	89	9.930 1632	153	0.069 8368	9.881 6079	64	587	
		89		154			65		
414	9.811 7800		9.930 1786		0.069 8214	9.881 6014		586	
415	9.811 7889	89	9.930 1940	154	0.069 8060	9.881 5950	64	585	
416	9.811 7978	89	9.930 2093	153	0.069 7907	9.881 5885	65	584	
		89		154			64		
417	9.811 8067		9.930 2247		0.069 7753	9.881 5821		583	
418	9.811 8156	89	9.930 2400	153	0.069 7600	9.881 5756	65	582	
419	9.811 8245	89	9.930 2554	154	0.069 7446	9.881 5691	65	581	
		89		153			64		
.420	9.811 8334		9.930 2707		0.069 7293	9.881 5627		.580	
		89		154			65		
421	9.811 8423		9.930 2861		0.069 7139	9.881 5562		579	
422	9.811 8512	89	9.930 3014	153	0.069 6986	9.881 5498	64	578	
423	9.811 8601	89	9.930 3168	154	0.069 6832	9.881 5433	65	577	
		89		154			64		
424	9.811 8690		9.930 3322		0.069 6678	9.881 5369		576	
425	9.811 8779	89	9.930 3475	153	0.069 6525	9.881 5304	65	575	
426	9.811 8868	89	9.930 3629	154	0.069 6371	9.881 5240	64	574	
		89		153			65		
427	9.811 8957		9.930 3782		0.069 6218	9.881 5175		573	
428	9.811 9046	89	9.930 3936	154	0.069 6064	9.881 5110	65	572	
429	9.811 9135	89	9.930 4089	153	0.069 5911	9.881 5046	64	571	
		89		154			65		
.430	9.811 9224		9.930 4243		0.069 5757	9.881 4981		.570	
		89		153			64		
431	9.811 9313		9.930 4396		0.069 5604	9.881 4917		569	
432	9.811 9402	89	9.930 4550	154	0.069 5450	9.881 4852	65	568	
433	9.811 9491	89	9.930 4703	153	0.069 5297	9.881 4787	65	567	
		89		154			64		
434	9.811 9580		9.930 4857		0.069 5143	9.881 4723		566	
435	9.811 9669	89	9.930 5011	154	0.069 4989	9.881 4658	65	565	
436	9.811 9758	89	9.930 5164	153	0.069 4836	9.881 4594	64	564	
		89		154			65		
437	9.811 9847		9.930 5318		0.069 4682	9.881 4529		563	
438	9.811 9936	89	9.930 5471	153	0.069 4529	9.881 4465	64	562	
439	9.812 0025	89	9.930 5625	154	0.069 4375	9.881 4400	65	561	
		89		153			65		
.440	9.812 0114		9.930 5778		0.069 4222	9.881 4335		.560	
		89		154			64		
441	9.812 0203		9.930 5932		0.069 4068	9.881 4271		559	
442	9.812 0291	88	9.930 6085	153	0.069 3915	9.881 4206	65	558	
443	9.812 0380	89	9.930 6239	154	0.069 3761	9.881 4142	64	557	
		89		153			65		
444	9.812 0469		9.930 6392		0.069 3608	9.881 4077		556	
445	9.812 0558	89	9.930 6546	154	0.069 3454	9.881 4012	65	555	
446	9.812 0647	89	9.930 6699	153	0.069 3301	9.881 3948	64	554	
		89		154			65		
447	9.812 0736		9.930 6853		0.069 3147	9.881 3883		553	
448	9.812 0825	89	9.930 7007	154	0.069 2993	9.881 3818	65	552	
449	9.812 0914	89	9.930 7160	153	0.069 2840	9.881 3754	64	551	
		89		154			65		
.450	9.812 1003		9.930 7314		0.069 2686	9.881 3689		.550	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	89	88
1	8.9	8.8
2	17.8	17.6
3	26.7	26.4
4	35.6	35.2
5	44.5	44.0
6	53.4	52.8
7	62.3	61.6
8	71.2	70.4
9	80.1	79.2

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

$49^\circ.600 - 49^\circ.550$

40°.450 — 40°.500

40°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.812 1003		9.930 7314		0.069 2686	9.881 3689		.550	
		89		153			64		
451	9.812 1092		9.930 7467		0.069 2533	9.881 3625		549	
452	9.812 1181	89	9.930 7621	154	0.069 2379	9.881 3560	65	548	
453	9.812 1269	88	9.930 7774	153	0.069 2226	9.881 3495	65	547	
		89		154			64		
454	9.812 1358		9.930 7928		0.069 2072	9.881 3431		546	
455	9.812 1447	89	9.930 8081	153	0.069 1919	9.881 3366	65	545	
456	9.812 1536	89	9.930 8235	154	0.069 1765	9.881 3301	65	544	
		89		153			64		
457	9.812 1625		9.930 8388		0.069 1612	9.881 3237		543	
458	9.812 1714	89	9.930 8542	154	0.069 1458	9.881 3172	65	542	
459	9.812 1803	89	9.930 8695	153	0.069 1305	9.881 3107	65	541	
		89		154			64		
.460	9.812 1892		9.930 8849		0.069 1151	9.881 3043		.540	
		89		153			65		
461	9.812 1981		9.930 9002		0.069 0998	9.881 2978		539	
462	9.812 2069	88	9.930 9156	154	0.069 0844	9.881 2914	64	538	
463	9.812 2158	89	9.930 9309	153	0.069 0691	9.881 2849	65	537	
		89		154			65		
464	9.812 2247		9.930 9463		0.069 0537	9.881 2784		536	
465	9.812 2336	89	9.930 9616	153	0.069 0384	9.881 2720	64	535	
466	9.812 2425	89	9.930 9770	154	0.069 0230	9.881 2655	65	534	
		89		153			65		
467	9.812 2514		9.930 9923		0.069 0077	9.881 2590		533	
468	9.812 2603	89	9.931 0077	154	0.068 9923	9.881 2526	64	532	
469	9.812 2691	88	9.931 0230	153	0.068 9770	9.881 2461	65	531	
		89		154			65		
.470	9.812 2780		9.931 0384		0.068 9616	9.881 2396		.530	
		89		154			64		
471	9.812 2869		9.931 0538		0.068 9462	9.881 2332		529	
472	9.812 2958	89	9.931 0691	153	0.068 9309	9.881 2267	65	528	
473	9.812 3047	89	9.931 0845	154	0.068 9155	9.881 2202	65	527	
		89		153			64		
474	9.812 3136		9.931 0998		0.068 9002	9.881 2138		526	
475	9.812 3224	88	9.931 1152	154	0.068 8848	9.881 2073	65	525	
476	9.812 3313	89	9.931 1305	153	0.068 8695	9.881 2008	65	524	
		89		154			64		
477	9.812 3402		9.931 1459		0.068 8541	9.881 1944		523	
478	9.812 3491	89	9.931 1612	153	0.068 8388	9.881 1879	65	522	
479	9.812 3580	89	9.931 1766	154	0.068 8234	9.881 1814	65	521	
		89		153			65		
.480	9.812 3669		9.931 1919		0.068 8081	9.881 1749		.520	
		88		154			64		
481	9.812 3757		9.931 2073		0.068 7927	9.881 1685		519	
482	9.812 3846	89	9.931 2226	153	0.068 7774	9.881 1620	65	518	
483	9.812 3935	89	9.931 2380	154	0.068 7620	9.881 1555	65	517	
		89		153			64		
484	9.812 4024		9.931 2533		0.068 7467	9.881 1491		516	
485	9.812 4113	89	9.931 2687	154	0.068 7313	9.881 1426	65	515	
486	9.812 4201	88	9.931 2840	153	0.068 7160	9.881 1361	65	514	
		89		154			64		
487	9.812 4290		9.931 2994		0.068 7006	9.881 1297		513	
488	9.812 4379	89	9.931 3147	153	0.068 6853	9.881 1232	65	512	
489	9.812 4468	89	9.931 3301	154	0.068 6699	9.881 1167	65	511	
		89		153			65		
.490	9.812 4557		9.931 3454		0.068 6546	9.881 1102		.510	
		88		154			64		
491	9.812 4645		9.931 3608		0.068 6392	9.881 1038		509	
492	9.812 4734	89	9.931 3761	153	0.068 6239	9.881 0973	65	508	
493	9.812 4823	89	9.931 3915	154	0.068 6085	9.881 0908	65	507	
		89		153			64		
494	9.812 4912		9.931 4068		0.068 5932	9.881 0844		506	
495	9.812 5000	88	9.931 4222	154	0.068 5778	9.881 0779	65	505	
496	9.812 5089	89	9.931 4375	153	0.068 5625	9.881 0714	65	504	
		89		154			65		
497	9.812 5178		9.931 4529		0.068 5471	9.881 0649		503	
498	9.812 5267	89	9.931 4682	153	0.068 5318	9.881 0585	64	502	
499	9.812 5355	88	9.931 4836	154	0.068 5164	9.881 0520	65	501	
		89		153			65		
.500	9.812 5444		9.931 4989		0.068 5011	9.881 0455		.500	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	89	88
1	8.9	8.8
2	17.8	17.6
3	26.7	26.4
4	35.6	35.2
5	44.5	44.0
6	53.4	52.8
7	62.3	61.6
8	71.2	70.4
9	80.1	79.2

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

49°.550 — 49°.500

$40^\circ.500 - 40^\circ.550$

40°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.812 5444		9.931 4989		0.068 5011	9.881 0455		**.500**	
		89		153			65		
501	9.812 5533		9.931 5142		0.068 4858	9.881 0390		499	
502	9.812 5622	89	9.931 5296	154	0.068 4704	9.881 0326	64	498	
503	9.812 5710	88	9.931 5449	153	0.068 4551	9.881 0261	65	497	
		89		154			65		
504	9.812 5799		9.931 5603		0.068 4397	9.881 0196		496	
505	9.812 5888	89	9.931 5756	153	0.068 4244	9.881 0131	65	495	
506	9.812 5977	89	9.931 5910	154	0.068 4090	9.881 0067	64	494	
		88		153			65		
507	9.812 6065		9.931 6063		0.068 3937	9.881 0002		493	
508	9.812 6154	89	9.931 6217	154	0.068 3783	9.880 9937	65	492	
509	9.812 6243	89	9.931 6370	153	0.068 3630	9.880 9872	65	491	
		88		154			64		
.510	9.812 6331		9.931 6524		0.068 3476	9.880 9808		**.490**	
		89		153			65		
511	9.812 6420		9.931 6677		0.068 3323	9.880 9743		489	
512	9.812 6509	89	9.931 6831	154	0.068 3169	9.880 9678	65	488	
513	9.812 6598	89	9.931 6984	153	0.068 3016	9.880 9613	65	487	
		88		154			64		
514	9.812 6686		9.931 7138		0.068 2862	9.880 9549		486	
515	9.812 6775	89	9.931 7291	153	0.068 2709	9.880 9484	65	485	
516	9.812 6864	89	9.931 7445	154	0.068 2555	9.880 9419	65	484	
		88		153			65		
517	9.812 6952		9.931 7598		0.068 2402	9.880 9354		483	
518	9.812 7041	89	9.931 7752	154	0.068 2248	9.880 9289	65	482	
519	9.812 7130	89	9.931 7905	153	0.068 2095	9.880 9225	64	481	
		89		154			65		
.520	9.812 7219		9.931 8059		0.068 1941	9.880 9160		**.480**	
		88		153			65		
521	9.812 7307		9.931 8212		0.068 1788	9.880 9095		479	
522	9.812 7396	89	9.931 8366	154	0.068 1634	9.880 9030	65	478	
523	9.812 7485	89	9.931 8519	153	0.068 1481	9.880 8966	64	477	
		88		153			65		
524	9.812 7573		9.931 8672		0.068 1328	9.880 8901		476	
525	9.812 7662	89	9.931 8826	154	0.068 1174	9.880 8836	65	475	
526	9.812 7751	89	9.931 8979	153	0.068 1021	9.880 8771	65	474	
		88		154			65		
527	9.812 7839		9.931 9133		0.068 0867	9.880 8706		473	
528	9.812 7928	89	9.931 9286	153	0.068 0714	9.880 8642	64	472	
529	9.812 8017	89	9.931 9440	154	0.068 0560	9.880 8577	65	471	
		88		153			65		
.530	9.812 8105		9.931 9593		0.068 0407	9.880 8512		**.470**	
		89		154			65		
531	9.812 8194		9.931 9747		0.068 0253	9.880 8447		469	
532	9.812 8283	89	9.931 9900	153	0.068 0100	9.880 8382	65	468	
533	9.812 8371	88	9.932 0054	154	0.067 9946	9.880 8318	64	467	
		89		153			65		
534	9.812 8460		9.932 0207		0.067 9793	9.880 8253		466	
535	9.812 8548	88	9.932 0361	154	0.067 9639	9.880 8188	65	465	
536	9.812 8637	89	9.932 0514	153	0.067 9486	9.880 8123	65	464	
		89		153			65		
537	9.812 8726		9.932 0667		0.067 9333	9.880 8058		463	
538	9.812 8814	88	9.932 0821	154	0.067 9179	9.880 7993	65	462	
539	9.812 8903	89	9.932 0974	153	0.067 9026	9.880 7929	64	461	
		89		154			65		
.540	9.812 8992		9.932 1128		0.067 8872	9.880 7864		**.460**	
		88		153			65		
541	9.812 9080		9.932 1281		0.067 8719	9.880 7799		459	
542	9.812 9169	89	9.932 1435	154	0.067 8565	9.880 7734	65	458	
543	9.812 9257	88	9.932 1588	153	0.067 8412	9.880 7669	65	457	
		89		154			65		
544	9.812 9346		9.932 1742		0.067 8258	9.880 7604		456	
545	9.812 9435	89	9.932 1895	153	0.067 8105	9.880 7540	64	455	
546	9.812 9523	88	9.932 2049	154	0.067 7951	9.880 7475	65	454	
		89		153			65		
547	9.812 9612		9.932 2202		0.067 7798	9.880 7410		453	
548	9.812 9700	88	9.932 2355	153	0.067 7645	9.880 7345	65	452	
549	9.812 9789	89	9.932 2509	154	0.067 7491	9.880 7280	65	451	
		89		153			65		
.550	9.812 9878		9.932 2662		0.067 7338	9.880 7215		**.450**	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	89	88
1	8.9	8.8
2	17.8	17.6
3	26.7	26.4
4	35.6	35.2
5	44.5	44.0
6	53.4	52.8
7	62.3	61.6
8	71.2	70.4
9	80.1	79.2

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

$49^\circ.500 - 49^\circ.450$

40°.550 — 40°.600

40°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.812 9878		9.932 2662		0.067 7338	9.880 7215		.450	
		88		154			64		
551	9.812 9966		9.932 2816		0.067 7184	9.880 7151		449	
552	9.813 0055	89	9.932 2969	153	0.067 7031	9.880 7086	65	448	
553	9.813 0143	88	9.932 3123	154	0.067 6877	9.880 7021	65	447	
		89		153			65		
554	9.813 0232		9.932 3276		0.067 6724	9.880 6956		446	
555	9.813 0321	89	9.932 3430	154	0.067 6570	9.880 6891	65	445	
556	9.813 0409	88	9.932 3583	153	0.067 6417	9.880 6826	65	444	
		89		153			65		
557	9.813 0498		9.932 3736		0.067 6264	9.880 6761		443	
558	9.813 0586	88	9.932 3890	154	0.067 6110	9.880 6696	65	442	
559	9.813 0675	89	9.932 4043	153	0.067 5957	9.880 6632	64	441	
		88		154			65		
.560	9.813 0763		9.932 4197		0.067 5803	9.880 6567		.440	
		89		153			65		
561	9.813 0852		9.932 4350		0.067 5650	9.880 6502		439	
562	9.813 0941	89	9.932 4504	154	0.067 5496	9.880 6437	65	438	
563	9.813 1029	88	9.932 4657	153	0.067 5343	9.880 6372	65	437	
		89		153			65		
564	9.813 1118		9.932 4810		0.067 5190	9.880 6307		436	
565	9.813 1206	88	9.932 4964	154	0.067 5036	9.880 6242	65	435	
566	9.813 1295	89	9.932 5117	153	0.067 4883	9.880 6177	65	434	
		88		154			64		
567	9.813 1383		9.932 5271		0.067 4729	9.880 6113		433	
568	9.813 1472	89	9.932 5424	153	0.067 4576	9.880 6048	65	432	
569	9.813 1560	88	9.932 5578	154	0.067 4422	9.880 5983	65	431	
		89		153			65		
.570	9.813 1649		9.932 5731		0.067 4269	9.880 5918		.430	
		88		153			65		
571	9.813 1737		9.932 5884		0.067 4116	9.880 5853		429	
572	9.813 1826	89	9.932 6038	154	0.067 3962	9.880 5788	65	428	
573	9.813 1914	88	9.932 6191	153	0.067 3809	9.880 5723	65	427	
		89		154			65		
574	9.813 2003		9.932 6345		0.067 3655	9.880 5658		426	
575	9.813 2092	89	9.932 6498	153	0.067 3502	9.880 5593	65	425	
576	9.813 2180	88	9.932 6652	154	0.067 3348	9.880 5528	65	424	
		89		153			64		
577	9.813 2269		9.932 6805		0.067 3195	9.880 5464		423	
578	9.813 2357	88	9.932 6958	153	0.067 3042	9.880 5399	65	422	
579	9.813 2446	89	9.932 7112	154	0.067 2888	9.880 5334	65	421	
		88		153			65		
.580	9.813 2534		9.932 7265		0.067 2735	9.880 5269		.420	
		89		154			65		
581	9.813 2623		9.932 7419		0.067 2581	9.880 5204		419	
582	9.813 2711	88	9.932 7572	153	0.067 2428	9.880 5139	65	418	
583	9.813 2800	89	9.932 7726	154	0.067 2274	9.880 5074	65	417	
		88		153			65		
584	9.813 2888		9.932 7879		0.067 2121	9.880 5009		416	
585	9.813 2976	88	9.932 8032	153	0.067 1968	9.880 4944	65	415	
586	9.813 3065	89	9.932 8186	154	0.067 1814	9.880 4879	65	414	
		88		153			65		
587	9.813 3153		9.932 8339		0.067 1661	9.880 4814		413	
588	9.813 3242	89	9.932 8493	154	0.067 1507	9.880 4749	65	412	
589	9.813 3330	88	9.932 8646	153	0.067 1354	9.880 4684	65	411	
		89		153			65		
.590	9.813 3419		9.932 8799		0.067 1201	9.880 4619		.410	
		88		154			65		
591	9.813 3507		9.932 8953		0.067 1047	9.880 4554		409	
592	9.813 3596	89	9.932 9106	153	0.067 0894	9.880 4490	64	408	
593	9.813 3684	88	9.932 9260	154	0.067 0740	9.880 4425	65	407	
		89		153			65		
594	9.813 3773		9.932 9413		0.067 0587	9.880 4360		406	
595	9.813 3861	88	9.932 9566	153	0.067 0434	9.880 4295	65	405	
596	9.813 3950	89	9.932 9720	154	0.067 0280	9.880 4230	65	404	
		88		153			65		
597	9.813 4038		9.932 9873		0.067 0127	9.880 4165		403	
598	9.813 4127	89	9.933 0027	154	0.066 9973	9.880 4100	65	402	
599	9.813 4215	88	9.933 0180	153	0.066 9820	9.880 4035	65	401	
		88		154			65		
.600	9.813 4303		9.933 0334		0.066 9666	9.880 3970		.400	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	89	88
1	8.9	8.8
2	17.8	17.6
3	26.7	26.4
4	35.6	35.2
5	44.5	44.0
6	53.4	52.8
7	62.3	61.6
8	71.2	70.4
9	80.1	79.2

	65	64
1	6.5	6.4
2	13.0	12.8
3	19.5	19.2
4	26.0	25.6
5	32.5	32.0
6	39.0	38.4
7	45.5	44.8
8	52.0	51.2
9	58.5	57.6

49°.450 — 49°.400

40°.600 — 40°.650

40°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.813 4303		9.933 0334		0.066 9666	9.880 3970		**.400**	
		89		153			65		
601	9.813 4392		9.933 0487		0.066 9513	9.880 3905		399	
602	9.813 4480	88	9.933 0640	153	0.066 9360	9.880 3840	65	398	
603	9.813 4569	89	9.933 0794	154	0.066 9206	9.880 3775	65	397	
		88		153			65		
604	9.813 4657		9.933 0947		0.066 9053	9.880 3710		396	
605	9.813 4746	89	9.933 1101	154	0.066 8899	9.880 3645	65	395	
606	9.813 4834	88	9.933 1254	153	0.066 8746	9.880 3580	65	394	
		88		153			65		
607	9.813 4922		9.933 1407		0.066 8593	9.880 3515		393	
608	9.813 5011	89	9.933 1561	154	0.066 8439	9.880 3450	65	392	
609	9.813 5099	88	9.933 1714	153	0.066 8286	9.880 3385	65	391	
		89		153			65		
.610	9.813 5188		9.933 1867		0.066 8133	9.880 3320		**.390**	
		88		154			65		
611	9.813 5276		9.933 2021		0.066 7979	9.880 3255		389	
612	9.813 5364	88	9.933 2174	153	0.066 7826	9.880 3190	65	388	
613	9.813 5453	89	9.933 2328	154	0.066 7672	9.880 3125	65	387	
		88		153			65		
614	9.813 5541		9.933 2481		0.066 7519	9.880 3060		386	
615	9.813 5630	89	9.933 2634	153	0.066 7366	9.880 2995	65	385	
616	9.813 5718	88	9.933 2788	154	0.066 7212	9.880 2930	65	384	
		88		153			65		
617	9.813 5806		9.933 2941		0.066 7059	9.880 2865		383	
618	9.813 5895	89	9.933 3095	154	0.066 6905	9.880 2800	65	382	
619	9.813 5983	88	9.933 3248	153	0.066 6752	9.880 2735	65	381	
		88		153			65		
.620	9.813 6071		9.933 3401		0.066 6599	9.880 2670		**.380**	
		89		154			65		
621	9.813 6160		9.933 3555		0.066 6445	9.880 2605		379	
622	9.813 6248	88	9.933 3708	153	0.066 6292	9.880 2540	65	378	
623	9.813 6337	89	9.933 3862	154	0.066 6138	9.880 2475	65	377	
		88		153			65		
624	9.813 6425		9.933 4015		0.066 5985	9.880 2410		376	
625	9.813 6513	88	9.933 4168	153	0.066 5832	9.880 2345	65	375	
626	9.813 6602	89	9.933 4322	154	0.066 5678	9.880 2280	65	374	
		88		153			65		
627	9.813 6690		9.933 4475		0.066 5525	9.880 2215		373	
628	9.813 6778	88	9.933 4628	153	0.066 5372	9.880 2150	65	372	
629	9.813 6867	89	9.933 4782	154	0.066 5218	9.880 2085	65	371	
		88		153			65		
.630	9.813 6955		9.933 4935		0.066 5065	9.880 2020		**.370**	
		88		154			65		
631	9.813 7043		9.933 5089		0.066 4911	9.880 1955		369	
632	9.813 7132	89	9.933 5242	153	0.066 4758	9.880 1890	65	368	
633	9.813 7220	88	9.933 5395	153	0.066 4605	9.880 1825	65	367	
		88		154			65		
634	9.813 7308		9.933 5549		0.066 4451	9.880 1760		366	
635	9.813 7397	89	9.933 5702	153	0.066 4298	9.880 1695	65	365	
636	9.813 7485	88	9.933 5855	153	0.066 4145	9.880 1630	65	364	
		88		154			65		
637	9.813 7573		9.933 6009		0.066 3991	9.880 1565		363	
638	9.813 7662	89	9.933 6162	153	0.066 3838	9.880 1499	66	362	
639	9.813 7750	88	9.933 6316	154	0.066 3684	9.880 1434	65	361	
		88		153			65		
.640	9.813 7838		9.933 6469		0.066 3531	9.880 1369		**.360**	
		89		153			65		
641	9.813 7927		9.933 6622		0.066 3378	9.880 1304		359	
642	9.813 8015	88	9.933 6776	154	0.066 3224	9.880 1239	65	358	
643	9.813 8103	88	9.933 6929	153	0.066 3071	9.880 1174	65	357	
		89		153			65		
644	9.813 8192		9.933 7082		0.066 2918	9.880 1109		356	
645	9.813 8280	88	9.933 7236	154	0.066 2764	9.880 1044	65	355	
646	9.813 8368	88	9.933 7389	153	0.066 2611	9.880 0979	65	354	
		88		154			65		
647	9.813 8456		9.933 7543		0.066 2457	9.880 0914		353	
648	9.813 8545	89	9.933 7696	153	0.066 2304	9.880 0849	65	352	
649	9.813 8633	88	9.933 7849	153	0.066 2151	9.880 0784	65	351	
		88		154			65		
.650	9.813 8721		9.933 8003		0.066 1997	9.880 0719		**.350**	
	cos	d	cotg	d	tang	sin	d	**49°**	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	89	88
1	8.9	8.8
2	17.8	17.6
3	26.7	26.4
4	35.6	35.2
5	44.5	44.0
6	53.4	52.8
7	62.3	61.6
8	71.2	70.4
9	80.1	79.2

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

49°.400 — 49°.350

$40^\circ.650 - 40^\circ.700$

40°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.813 8721		9.933 8003		0.066 1997	9.880 0719		**.350**	
		89		153			65		
651	9.813 8810		9.933 8156		0.066 1844	9.880 0654		349	
652	9.813 8898	88	9.933 8309	153	0.066 1691	9.880 0588	66	348	
653	9.813 8986	88	9.933 8463	154	0.066 1537	9.880 0523	65	347	
		88		153			65		
654	9.813 9074		9.933 8616		0.066 1384	9.880 0458		346	
655	9.813 9163	89	9.933 8769	153	0.066 1231	9.880 0393	65	345	
656	9.813 9251	88	9.933 8923	154	0.066 1077	9.880 0328	65	344	
		88		153			65		
657	9.813 9339		9.933 9076		0.066 0924	9.880 0263		343	
658	9.813 9427	88	9.933 9229	153	0.066 0771	9.880 0198	65	342	
659	9.813 9516	89	9.933 9383	154	0.066 0617	9.880 0133	65	341	
		88		153			65		
.660	9.813 9604		9.933 9536		0.066 0464	9.880 0068		**.340**	
		88		154			65		
661	9.813 9692		9.933 9690		0.066 0310	9.880 0003		339	
662	9.813 9780	88	9.933 9843	153	0.066 0157	9.879 9937	66	338	
663	9.813 9869	89	9.933 9996	153	0.066 0004	9.879 9872	65	337	
		88		154			65		
664	9.813 9957		9.934 0150		0.065 9850	9.879 9807		336	
665	9.814 0045	88	9.934 0303	153	0.065 9697	9.879 9742	65	335	
666	9.814 0133	88	9.934 0456	153	0.065 9544	9.879 9677	65	334	
		89		154			65		
667	9.814 0222		9.934 0610		0.065 9390	9.879 9612		333	
668	9.814 0310	88	9.934 0763	153	0.065 9237	9.879 9547	65	332	
669	9.814 0398	88	9.934 0916	153	0.065 9084	9.879 9482	65	331	
		88		154			65		
.670	9.814 0486		9.934 1070		0.065 8930	9.879 9417		**.330**	
		88		153			66		
671	9.814 0574		9.934 1223		0.065 8777	9.879 9351		329	
672	9.814 0663	89	9.934 1376	153	0.065 8624	9.879 9286	65	328	
673	9.814 0751	88	9.934 1530	154	0.065 8470	9.879 9221	65	327	
		88		153			65		
674	9.814 0839		9.934 1683		0.065 8317	9.879 9156		326	
675	9.814 0927	88	9.934 1836	153	0.065 8164	9.879 9091	65	325	
676	9.814 1015	88	9.934 1990	154	0.065 8010	9.879 9026	65	324	
		89		153			65		
677	9.814 1104		9.934 2143		0.065 7857	9.879 8961		323	
678	9.814 1192	88	9.934 2296	153	0.065 7704	9.879 8895	66	322	
679	9.814 1280	88	9.934 2450	154	0.065 7550	9.879 8830	65	321	
		88		153			65		
.680	9.814 1368		9.934 2603		0.065 7397	9.879 8765		**.320**	
		88		153			65		
681	9.814 1456		9.934 2756		0.065 7244	9.879 8700		319	
682	9.814 1545	89	9.934 2910	154	0.065 7090	9.879 8635	65	318	
683	9.814 1633	88	9.934 3063	153	0.065 6937	9.879 8570	65	317	
		88		153			65		
684	9.814 1721		9.934 3216		0.065 6784	9.879 8505		316	
685	9.814 1809	88	9.934 3370	154	0.065 6630	9.879 8439	66	315	
686	9.814 1897	88	9.934 3523	153	0.065 6477	9.879 8374	65	314	
		88		153			65		
687	9.814 1985		9.934 3676		0.065 6324	9.879 8309		313	
688	9.814 2074	89	9.934 3830	154	0.065 6170	9.879 8244	65	312	
689	9.814 2162	88	9.934 3983	153	0.065 6017	9.879 8179	65	311	
		88		153			65		
.690	9.814 2250		9.934 4136		0.065 5864	9.879 8114		**.310**	
		88		154			66		
691	9.814 2338		9.934 4290		0.065 5710	9.879 8048		309	
692	9.814 2426	88	9.934 4443	153	0.065 5557	9.879 7983	65	308	
693	9.814 2514	88	9.934 4596	153	0.065 5404	9.879 7918	65	307	
		89		154			65		
694	9.814 2603		9.934 4750		0.065 5250	9.879 7853		306	
695	9.814 2691	88	9.934 4903	153	0.065 5097	9.879 7788	65	305	
696	9.814 2779	88	9.934 5056	153	0.065 4944	9.879 7722	66	304	
		88		154			65		
697	9.814 2867		9.934 5210		0.065 4790	9.879 7657		303	
698	9.814 2955	88	9.934 5363	153	0.065 4637	9.879 7592	65	302	
699	9.814 3043	88	9.934 5516	153	0.065 4484	9.879 7527	65	301	
		88		154			65		
.700	9.814 3131		9.934 5670		0.065 4330	9.879 7462		**.300**	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	89	88
1	8.9	8.8
2	17.8	17.6
3	26.7	26.4
4	35.6	35.2
5	44.5	44.0
6	53.4	52.8
7	62.3	61.6
8	71.2	70.4
9	80.1	79.2

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

$49^\circ.350 - 49^\circ.300$

40°.700 — 40°.750

40°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.814 3131		9.934 5670		0.065 4330	9.879 7462		.300	
		88		153			66		
701	9.814 3219		9.934 5823		0.065 4177	9.879 7396		299	
702	9.814 3308	89	9.934 5976	153	0.065 4024	9.879 7331	65	298	
703	9.814 3396	88	9.934 6130	154	0.065 3870	9.879 7266	65	297	
		88		153			65		
704	9.814 3484		9.934 6283		0.065 3717	9.879 7201		296	
705	9.814 3572	88	9.934 6436	153	0.065 3564	9.879 7136	65	295	
706	9.814 3660	88	9.934 6590	154	0.065 3410	9.879 7070	66	294	
		88		153			65		
707	9.814 3748		9.934 6743		0.065 3257	9.879 7005		293	
708	9.814 3836	88	9.934 6896	153	0.065 3104	9.879 6940	65	292	
709	9.814 3924	88	9.934 7050	154	0.065 2950	9.879 6875	65	291	
		88		153			65		
.710	9.814 4012		9.934 7203		0.065 2797	9.879 6810		.290	
		89		153			66		
711	9.814 4101		9.934 7356		0.065 2644	9.879 6744		289	
712	9.814 4189	88	9.934 7510	154	0.065 2490	9.879 6679	65	288	
713	9.814 4277	88	9.934 7663	153	0.065 2337	9.879 6614	65	287	
		88		153			65		
714	9.814 4365		9.934 7816		0.065 2184	9.879 6549		286	
715	9.814 4453	88	9.934 7969	153	0.065 2031	9.879 6483	66	285	
716	9.814 4541	88	9.934 8123	154	0.065 1877	9.879 6418	65	284	
		88		153			65		
717	9.814 4629		9.934 8276		0.065 1724	9.879 6353		283	
718	9.814 4717	88	9.934 8429	153	0.065 1571	9.879 6288	65	282	
719	9.814 4805	88	9.934 8583	154	0.065 1417	9.879 6223	65	281	
		88		153			66		
.720	9.814 4893		9.934 8736		0.065 1264	9.879 6157		.280	
		88		153			65		
721	9.814 4981		9.934 8889		0.065 1111	9.879 6092		279	
722	9.814 5069	88	9.934 9043	154	0.065 0957	9.879 6027	65	278	
723	9.814 5157	88	9.934 9196	153	0.065 0804	9.879 5962	65	277	
		88		153			66		
724	9.814 5245		9.934 9349		0.065 0651	9.879 5896		276	
725	9.814 5334	89	9.934 9502	153	0.065 0498	9.879 5831	65	275	
726	9.814 5422	88	9.934 9656	154	0.065 0344	9.879 5766	65	274	
		88		153			65		
727	9.814 5510		9.934 9809		0.065 0191	9.879 5701		273	
728	9.814 5598	88	9.934 9962	153	0.065 0038	9.879 5635	66	272	
729	9.814 5686	88	9.935 0116	154	0.064 9884	9.879 5570	65	271	
		88		153			65		
.730	9.814 5774		9.935 0269		0.064 9731	9.879 5505		.270	
		88		153			66		
731	9.814 5862		9.935 0422		0.064 9578	9.879 5439		269	
732	9.814 5950	88	9.935 0576	154	0.064 9424	9.879 5374	65	268	
733	9.814 6038	88	9.935 0729	153	0.064 9271	9.879 5309	65	267	
		88		153			65		
734	9.814 6126		9.935 0882		0.064 9118	9.879 5244		266	
735	9.814 6214	88	9.935 1035	153	0.064 8965	9.879 5178	66	265	
736	9.814 6302	88	9.935 1189	154	0.064 8811	9.879 5113	65	264	
		88		153			65		
737	9.814 6390		9.935 1342		0.064 8658	9.879 5048		263	
738	9.814 6478	88	9.935 1495	153	0.064 8505	9.879 4983	65	262	
739	9.814 6566	88	9.935 1649	154	0.064 8351	9.879 4917	66	261	
		88		153			65		
.740	9.814 6654		9.935 1802		0.064 8198	9.879 4852		.260	
		88		153			65		
741	9.814 6742		9.935 1955		0.064 8045	9.879 4787		259	
742	9.814 6830	88	9.935 2108	153	0.064 7892	9.879 4721	66	258	
743	9.814 6918	88	9.935 2262	154	0.064 7738	9.879 4656	65	257	
		88		153			65		
744	9.814 7006		9.935 2415		0.064 7585	9.879 4591		256	
745	9.814 7094	88	9.935 2568	153	0.064 7432	9.879 4525	66	255	
746	9.814 7182	88	9.935 2722	154	0.064 7278	9.879 4460	65	254	
		88		153			65		
747	9.814 7270		9.935 2875		0.064 7125	9.879 4395		253	
748	9.814 7358	88	9.935 3028	153	0.064 6972	9.879 4330	65	252	
749	9.814 7446	88	9.935 3181	153	0.064 6819	9.879 4264	66	251	
		88		154			65		
.750	9.814 7534		9.935 3335		0.064 6665	9.879 4199		.250	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	89	88
1	8.9	8.8
2	17.8	17.6
3	26.7	26.4
4	35.6	35.2
5	44.5	44.0
6	53.4	52.8
7	62.3	61.6
8	71.2	70.4
9	80.1	79.2

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

49°.300 — 49°.250

40°.750 — 40°.800

40°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.814 7534		9.935 3335		0.064 6665	9.879 4199		.250	
		88		153			65		
751	9.814 7622		9.935 3488		0.064 6512	9.879 4134		249	
		88		153			66		
752	9.814 7710		9.935 3641		0.064 6359	9.879 4068		248	
		88		154			65		
753	9.814 7798		9.935 3795		0.064 6205	9.879 4003		247	
		88		153			65		
754	9.814 7886		9.935 3948		0.064 6052	9.879 3938		246	
		87		153			66		
755	9.814 7973		9.935 4101		0.064 5899	9.879 3872		245	
		88		153			65		
756	9.814 8061		9.935 4254		0.064 5746	9.879 3807		244	
		88		154			65		
757	9.814 8149		9.935 4408		0.064 5592	9.879 3742		243	
		88		153			66		
758	9.814 8237		9.935 4561		0.064 5439	9.879 3676		242	
		88		153			65		
759	9.814 8325		9.935 4714		0.064 5286	9.879 3611		241	
		88		154			65		
.760	9.814 8413		9.935 4868		0.064 5132	9.879 3546		.240	
		88		153			66		
761	9.814 8501		9.935 5021		0.064 4979	9.879 3480		239	
		88		153			65		
762	9.814 8589		9.935 5174		0.064 4826	9.879 3415		238	
		88		153			65		
763	9.814 8677		9.935 5327		0.064 4673	9.879 3350		237	
		88		154			66		
764	9.814 8765		9.935 5481		0.064 4519	9.879 3284		236	
		88		153			65		
765	9.814 8853		9.935 5634		0.064 4366	9.879 3219		235	
		88		153			65		
766	9.814 8941		9.935 5787		0.064 4213	9.879 3154		234	
		88		153			66		
767	9.814 9029		9.935 5940		0.064 4060	9.879 3088		233	
		88		154			65		
768	9.814 9117		9.935 6094		0.064 3906	9.879 3023		232	
		88		153			65		
769	9.814 9205		9.935 6247		0.064 3753	9.879 2958		231	
		87		153			66		
.770	9.814 9292		9.935 6400		0.064 3600	9.879 2892		.230	
		88		153			65		
771	9.814 9380		9.935 6553		0.064 3447	9.879 2827		229	
		88		154			66		
772	9.814 9468		9.935 6707		0.064 3293	9.879 2761		228	
		88		153			65		
773	9.814 9556		9.935 6860		0.064 3140	9.879 2696		227	
		88		153			65		
774	9.814 9644		9.935 7013		0.064 2987	9.879 2631		226	
		88		154			66		
775	9.814 9732		9.935 7167		0.064 2833	9.879 2565		225	
		88		153			65		
776	9.814 9820		9.935 7320		0.064 2680	9.879 2500		224	
		88		153			65		
777	9.814 9908		9.935 7473		0.064 2527	9.879 2435		223	
		88		153			66		
778	9.814 9996		9.935 7626		0.064 2374	9.879 2369		222	
		87		154			65		
779	9.815 0083		9.935 7780		0.064 2220	9.879 2304		221	
		88		153			65		
.780	9.815 0171		9.935 7933		0.064 2067	9.879 2239		.220	
		88		153			66		
781	9.815 0259		9.935 8086		0.064 1914	9.879 2173		219	
		88		153			65		
782	9.815 0347		9.935 8239		0.064 1761	9.879 2108		218	
		88		154			66		
783	9.815 0435		9.935 8393		0.064 1607	9.879 2042		217	
		88		153			65		
784	9.815 0523		9.935 8546		0.064 1454	9.879 1977		216	
		88		153			65		
785	9.815 0611		9.935 8699		0.064 1301	9.879 1912		215	
		88		153			66		
786	9.815 0699		9.935 8852		0.064 1148	9.879 1846		214	
		87		154			65		
787	9.815 0786		9.935 9006		0.064 0994	9.879 1781		213	
		88		153			66		
788	9.815 0874		9.935 9159		0.064 0841	9.879 1715		212	
		88		153			65		
789	9.815 0962		9.935 9312		0.064 0688	9.879 1650		211	
		88		153			65		
.790	9.815 1050		9.935 9465		0.064 0535	9.879 1585		.210	
		88		154			66		
791	9.815 1138		9.935 9619		0.064 0381	9.879 1519		209	
		88		153			65		
792	9.815 1226		9.935 9772		0.064 0228	9.879 1454		208	
		87		153			66		
793	9.815 1313		9.935 9925		0.064 0075	9.879 1388		207	
		88		153			65		
794	9.815 1401		9.936 0078		0.063 9922	9.879 1323		206	
		88		154			65		
795	9.815 1489		9.936 0232		0.063 9768	9.879 1258		205	
		88		153			66		
796	9.815 1577		9.936 0385		0.063 9615	9.879 1192		204	
		88		153			65		
797	9.815 1665		9.936 0538		0.063 9462	9.879 1127		203	
		88		153			66		
798	9.815 1753		9.936 0691		0.063 9309	9.879 1061		202	
		87		154			65		
799	9.815 1840		9.936 0845		0.063 9155	9.879 0996		201	
		88		153			66		
.800	9.815 1928		9.936 0998		0.063 9002	9.879 0930		.200	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	88	87
1	8.8	8.7
2	17.6	17.4
3	26.4	26.1
4	35.2	34.8
5	44.0	43.5
6	52.8	52.2
7	61.6	60.9
8	70.4	69.6
9	79.2	78.3

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

49°.250 — 49°.200

40°.800 — 40°.850

40°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.815 1928		9.936 0998		0.063 9002	9.879 0930		.200	
		88		153			65		
801	9.815 2016		9.936 1151		0.063 8849	9.879 0865		199	
802	9.815 2104	88	9.936 1304	153	0.063 8696	9.879 0800	65	198	
803	9.815 2192	88	9.936 1458	154	0.063 8542	9.879 0734	66	197	
		87		153			65		
804	9.815 2279		9.936 1611		0.063 8389	9.879 0669		196	
805	9.815 2367	88	9.936 1764	153	0.063 8236	9.879 0603	66	195	
806	9.815 2455	88	9.936 1917	153	0.063 8083	9.879 0538	65	194	
		88		153			66		
807	9.815 2543		9.936 2070		0.063 7930	9.879 0472		193	
808	9.815 2631	88	9.936 2224	154	0.063 7776	9.879 0407	65	192	
809	9.815 2718	87	9.936 2377	153	0.063 7623	9.879 0341	66	191	
		88		153			65		
.810	9.815 2806		9.936 2530		0.063 7470	9.879 0276		.190	
		88		153			65		
811	9.815 2894		9.936 2683		0.063 7317	9.879 0211		189	
812	9.815 2982	88	9.936 2837	154	0.063 7163	9.879 0145	66	188	
813	9.815 3070	88	9.936 2990	153	0.063 7010	9.879 0080	65	187	
		87		153			66		
814	9.815 3157		9.936 3143		0.063 6857	9.879 0014		186	
815	9.815 3245	88	9.936 3296	153	0.063 6704	9.878 9949	65	185	
816	9.815 3333	88	9.936 3450	154	0.063 6550	9.878 9883	66	184	
		88		153			65		
817	9.815 3421		9.936 3603		0.063 6397	9.878 9818		183	
818	9.815 3508	87	9.936 3756	153	0.063 6244	9.878 9752	66	182	
819	9.815 3596	88	9.936 3909	153	0.063 6091	9.878 9687	65	181	
		88		153			66		
.820	9.815 3684		9.936 4062		0.063 5938	9.878 9621		.180	
		88		154			65		
821	9.815 3772		9.936 4216		0.063 5784	9.878 9556		179	
822	9.815 3859	87	9.936 4369	153	0.063 5631	9.878 9490	66	178	
823	9.815 3947	88	9.936 4522	153	0.063 5478	9.878 9425	65	177	
		88		153			66		
824	9.815 4035		9.936 4675		0.063 5325	9.878 9359		176	
825	9.815 4123	88	9.936 4829	154	0.063 5171	9.878 9294	65	175	
826	9.815 4210	87	9.936 4982	153	0.063 5018	9.878 9229	65	174	
		88		153			66		
827	9.815 4298		9.936 5135		0.063 4865	9.878 9163		173	
828	9.815 4386	88	9.936 5288	153	0.063 4712	9.878 9098	65	172	
829	9.815 4474	88	9.936 5441	153	0.063 4559	9.878 9032	66	171	
		87		154			65		
.830	9.815 4561		9.936 5595		0.063 4405	9.878 8967		.170	
		88		153			66		
831	9.815 4649		9.936 5748		0.063 4252	9.878 8901		169	
832	9.815 4737	88	9.936 5901	153	0.063 4099	9.878 8836	65	168	
833	9.815 4824	87	9.936 6054	153	0.063 3946	9.878 8770	66	167	
		88		154			65		
834	9.815 4912		9.936 6208		0.063 3792	9.878 8705		166	
835	9.815 5000	88	9.936 6361	153	0.063 3639	9.878 8639	66	165	
836	9.815 5088	88	9.936 6514	153	0.063 3486	9.878 8574	65	164	
		87		153			66		
837	9.815 5175		9.936 6667		0.063 3333	9.878 8508		163	
838	9.815 5263	88	9.936 6820	153	0.063 3180	9.878 8443	65	162	
839	9.815 5351	88	9.936 6974	154	0.063 3026	9.878 8377	66	161	
		87		153			66		
.840	9.815 5438		9.936 7127		0.063 2873	9.878 8311		.160	
		88		153			65		
841	9.815 5526		9.936 7280		0.063 2720	9.878 8246		159	
842	9.815 5614	88	9.936 7433	153	0.063 2567	9.878 8180	66	158	
843	9.815 5701	87	9.936 7586	153	0.063 2414	9.878 8115	65	157	
		88		154			66		
844	9.815 5789		9.936 7740		0.063 2260	9.878 8049		156	
845	9.815 5877	88	9.936 7893	153	0.063 2107	9.878 7984	65	155	
846	9.815 5964	87	9.936 8046	153	0.063 1954	9.878 7918	66	154	
		88		153			65		
847	9.815 6052		9.936 8199		0.063 1801	9.878 7853		153	
848	9.815 6140	88	9.936 8352	153	0.063 1648	9.878 7787	66	152	
849	9.815 6227	87	9.936 8506	154	0.063 1494	9.878 7722	65	151	
		88		153			66		
.850	9.815 6315		9.936 8659		0.063 1341	9.878 7656		.150	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	88	87
1	8.8	8.7
2	17.6	17.4
3	26.4	26.1
4	35.2	34.8
5	44.0	43.5
6	52.8	52.2
7	61.6	60.9
8	70.4	69.6
9	79.2	78.3

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

49°.200 — 49°.150

40°.850 — 40°.900

40°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.815 6315		9.936 8659		0.063 1341	9.878 7656		.150	
		88		153			65		
851	9.815 6403		9.936 8812		0.063 1188	9.878 7591		149	
		87		153			66		
852	9.815 6490		9.936 8965		0.063 1035	9.878 7525		148	
		88		154			65		
853	9.815 6578		9.936 9119		0.063 0881	9.878 7460		147	
		88		153			66		
854	9.815 6666		9.936 9272		0.063 0728	9.878 7394		146	
		87		153			66		
855	9.815 6753		9.936 9425		0.063 0575	9.878 7328		145	
		88		153			65		
856	9.815 6841		9.936 9578		0.063 0422	9.878 7263		144	
		88		153			66		
857	9.815 6929		9.936 9731		0.063 0269	9.878 7197		143	
		87		153			65		
858	9.815 7016		9.936 9884		0.063 0116	9.878 7132		142	
		88		154			66		
859	9.815 7104		9.937 0038		0.062 9962	9.878 7066		141	
		87		153			65		
.860	9.815 7191		9.937 0191		0.062 9809	9.878 7001		.140	
		88		153			66		
861	9.815 7279		9.937 0344		0.062 9656	9.878 6935		139	
		88		153			66		
862	9.815 7367		9.937 0497		0.062 9503	9.878 6869		138	
		87		153			65		
863	9.815 7454		9.937 0650		0.062 9350	9.878 6804		137	
		88		154			66		
864	9.815 7542		9.937 0804		0.062 9196	9.878 6738		136	
		88		153			65		
865	9.815 7630		9.937 0957		0.062 9043	9.878 6673		135	
		87		153			66		
866	9.815 7717		9.937 1110		0.062 8890	9.878 6607		134	
		88		153			65		
867	9.815 7805		9.937 1263		0.062 8737	9.878 6542		133	
		87		153			66		
868	9.815 7892		9.937 1416		0.062 8584	9.878 6476		132	
		88		154			66		
869	9.815 7980		9.937 1570		0.062 8430	9.878 6410		131	
		88		153			65		
.870	9.815 8068		9.937 1723		0.062 8277	9.878 6345		.130	
		87		153			66		
871	9.815 8155		9.937 1876		0.062 8124	9.878 6279		129	
		88		153			65		
872	9.815 8243		9.937 2029		0.062 7971	9.878 6214		128	
		87		153			66		
873	9.815 8330		9.937 2182		0.062 7818	9.878 6148		127	
		88		154			66		
874	9.815 8418		9.937 2336		0.062 7664	9.878 6082		126	
		88		153			65		
875	9.815 8506		9.937 2489		0.062 7511	9.878 6017		125	
		87		153			66		
876	9.815 8593		9.937 2642		0.062 7358	9.878 5951		124	
		88		153			65		
877	9.815 8681		9.937 2795		0.062 7205	9.878 5886		123	
		87		153			66		
878	9.815 8768		9.937 2948		0.062 7052	9.878 5820		122	
		88		153			66		
879	9.815 8856		9.937 3101		0.062 6899	9.878 5754		121	
		87		154			65		
.880	9.815 8943		9.937 3255		0.062 6745	9.878 5689		.120	
		88		153			66		
881	9.815 9031		9.937 3408		0.062 6592	9.878 5623		119	
		88		153			65		
882	9.815 9119		9.937 3561		0.062 6439	9.878 5558		118	
		87		153			66		
883	9.815 9206		9.937 3714		0.062 6286	9.878 5492		117	
		88		153			66		
884	9.815 9294		9.937 3867		0.062 6133	9.878 5426		116	
		87		153			65		
885	9.815 9381		9.937 4020		0.062 5980	9.878 5361		115	
		88		154			66		
886	9.815 9469		9.937 4174		0.062 5826	9.878 5295		114	
		87		153			66		
887	9.815 9556		9.937 4327		0.062 5673	9.878 5229		113	
		88		153			65		
888	9.815 9644		9.937 4480		0.062 5520	9.878 5164		112	
		87		153			66		
889	9.815 9731		9.937 4633		0.062 5367	9.878 5098		111	
		88		153			65		
.890	9.815 9819		9.937 4786		0.062 5214	9.878 5033		.110	
		87		154			66		
891	9.815 9906		9.937 4940		0.062 5060	9.878 4967		109	
		88		153			66		
892	9.815 9994		9.937 5093		0.062 4907	9.878 4901		108	
		88		153			65		
893	9.816 0082		9.937 5246		0.062 4754	9.878 4836		107	
		87		153			66		
894	9.816 0169		9.937 5399		0.062 4601	9.878 4770		106	
		88		153			66		
895	9.816 0257		9.937 5552		0.062 4448	9.878 4704		105	
		87		153			65		
896	9.816 0344		9.937 5705		0.062 4295	9.878 4639		104	
		88		154			66		
897	9.816 0432		9.937 5859		0.062 4141	9.878 4573		103	
		87		153			66		
898	9.816 0519		9.937 6012		0.062 3988	9.878 4507		102	
		88		153			65		
899	9.816 0607		9.937 6165		0.062 3835	9.878 4442		101	
		87		153			66		
.900	9.816 0694		9.937 6318		0.062 3682	9.878 4376		.100	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	88	87
1	8.8	8.7
2	17.6	17.4
3	26.4	26.1
4	35.2	34.8
5	44.0	43.5
6	52.8	52.2
7	61.6	60.9
8	70.4	69.6
9	79.2	78.3

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

49°.150 — 49°.100

40°.900 — 40°.950

40°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.816 0694		9.937 6318		0.062 3682	9.878 4376		.100	
		88		153			66		
901	9.816 0782		9.937 6471		0.062 3529	9.878 4310		099	
902	9.816 0869	87	9.937 6624	153	0.062 3376	9.878 4245	65	098	
903	9.816 0957	88	9.937 6778	154	0.062 3222	9.878 4179	66	097	
		87		153			66		
904	9.816 1044		9.937 6931		0.062 3069	9.878 4113		096	
905	9.816 1132	88	9.937 7084	153	0.062 2916	9.878 4048	65	095	
906	9.816 1219	87	9.937 7237	153	0.062 2763	9.878 3982	66	094	
		88		153			66		
907	9.816 1307		9.937 7390		0.062 2610	9.878 3916		093	
908	9.816 1394	87	9.937 7543	153	0.062 2457	9.878 3851	65	092	
909	9.816 1482	88	9.937 7696	153	0.062 2304	9.878 3785	66	091	
		87		154			66		
.910	9.816 1569		9.937 7850		0.062 2150	9.878 3719		.090	
		87		153			65		
911	9.816 1656		9.937 8003		0.062 1997	9.878 3654		089	
912	9.816 1744	88	9.937 8156	153	0.062 1844	9.878 3588	66	088	
913	9.816 1831	87	9.937 8309	153	0.062 1691	9.878 3522	66	087	
		88		153			65		
914	9.816 1919		9.937 8462		0.062 1538	9.878 3457		086	
915	9.816 2006	87	9.937 8615	153	0.062 1385	9.878 3391	66	085	
916	9.816 2094	88	9.937 8769	154	0.062 1231	9.878 3325	66	084	
		87		153			65		
917	9.816 2181		9.937 8922		0.062 1078	9.878 3260		083	
918	9.816 2269	88	9.937 9075	153	0.062 0925	9.878 3194	66	082	
919	9.816 2356	87	9.937 9228	153	0.062 0772	9.878 3128	66	081	
		88		153			66		
.920	9.816 2444		9.937 9381		0.062 0619	9.878 3062		.080	
		87		153			65		
921	9.816 2531		9.937 9534		0.062 0466	9.878 2997		079	
922	9.816 2618	87	9.937 9687	153	0.062 0313	9.878 2931	66	078	
923	9.816 2706	88	9.937 9841	154	0.062 0159	9.878 2865	66	077	
		87		153			65		
924	9.816 2793		9.937 9994		0.062 0006	9.878 2800		076	
925	9.816 2881	88	9.938 0147	153	0.061 9853	9.878 2734	66	075	
926	9.816 2968	87	9.938 0300	153	0.061 9700	9.878 2668	66	074	
		88		153			66		
927	9.816 3056		9.938 0453		0.061 9547	9.878 2602		073	
928	9.816 3143	87	9.938 0606	153	0.061 9394	9.878 2537	65	072	
929	9.816 3230	87	9.938 0759	153	0.061 9241	9.878 2471	66	071	
		88		154			66		
.930	9.816 3318		9.938 0913		0.061 9087	9.878 2405		.070	
		87		153			65		
931	9.816 3405		9.938 1066		0.061 8934	9.878 2340		069	
932	9.816 3493	88	9.938 1219	153	0.061 8781	9.878 2274	66	068	
933	9.816 3580	87	9.938 1372	153	0.061 8628	9.878 2208	66	067	
		88		153			66		
934	9.816 3668		9.938 1525		0.061 8475	9.878 2142		066	
935	9.816 3755	87	9.938 1678	153	0.061 8322	9.878 2077	65	065	
936	9.816 3842	87	9.938 1831	153	0.061 8169	9.878 2011	66	064	
		88		154			66		
937	9.816 3930		9.938 1985		0.061 8015	9.878 1945		063	
938	9.816 4017	87	9.938 2138	153	0.061 7862	9.878 1879	66	062	
939	9.816 4104	87	9.938 2291	153	0.061 7709	9.878 1814	65	061	
		88		153			66		
.940	9.816 4192		9.938 2444		0.061 7556	9.878 1748		.060	
		87		153			66		
941	9.816 4279		9.938 2597		0.061 7403	9.878 1682		059	
942	9.816 4367	88	9.938 2750	153	0.061 7250	9.878 1616	66	058	
943	9.816 4454	87	9.938 2903	153	0.061 7097	9.878 1551	65	057	
		87		153			66		
944	9.816 4541		9.938 3056		0.061 6944	9.878 1485		056	
945	9.816 4629	88	9.938 3210	154	0.061 6790	9.878 1419	66	055	
946	9.816 4716	87	9.938 3363	153	0.061 6637	9.878 1353	66	054	
		87		153			65		
947	9.816 4803		9.938 3516		0.061 6484	9.878 1288		053	
948	9.816 4891	88	9.938 3669	153	0.061 6331	9.878 1222	66	052	
949	9.816 4978	87	9.938 3822	153	0.061 6178	9.878 1156	66	051	
		88		153			66		
.950	9.816 5066		9.938 3975		0.061 6025	9.878 1090		.050	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	88	87
1	8.8	8.7
2	17.6	17.4
3	26.4	26.1
4	35.2	34.8
5	44.0	43.5
6	52.8	52.2
7	61.6	60.9
8	70.4	69.6
9	79.2	78.3

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

49°.100 — 49°.050

40°.950 — 41°.000

40°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.816 5066		9.938 3975		0.061 6025	9.878 1090		.050	
		87		153			66		
951	9.816 5153		9.938 4128		0.061 5872	9.878 1024		049	
952	9.816 5240	87	9.938 4281	153	0.061 5719	9.878 0959	65	048	
953	9.816 5328	88	9.938 4435	154	0.061 5565	9.878 0893	66	047	
		87		153			66		
954	9.816 5415		9.938 4588		0.061 5412	9.878 0827		046	
955	9.816 5502	87	9.938 4741	153	0.061 5259	9.878 0761	66	045	
956	9.816 5590	88	9.938 4894	153	0.061 5106	9.878 0696	65	044	
		87		153			66		
957	9.816 5677		9.938 5047		0.061 4953	9.878 0630		043	
958	9.816 5764	87	9.938 5200	153	0.061 4800	9.878 0564	66	042	
959	9.816 5852	88	9.938 5353	153	0.061 4647	9.878 0498	66	041	
		87		153			66		
.960	9.816 5939		9.938 5506		0.061 4494	9.878 0432		.040	
		87		154			65		
961	9.816 6026		9.938 5660		0.061 4340	9.878 0367		039	
962	9.816 6113	87	9.938 5813	153	0.061 4187	9.878 0301	66	038	
963	9.816 6201	88	9.938 5966	153	0.061 4034	9.878 0235	66	037	
		87		153			66		
964	9.816 6288		9.938 6119		0.061 3881	9.878 0169		036	
965	9.816 6375	87	9.938 6272	153	0.061 3728	9.878 0103	66	035	
966	9.816 6463	88	9.938 6425	153	0.061 3575	9.878 0038	65	034	
		87		153			66		
967	9.816 6550		9.938 6578		0.061 3422	9.877 9972		033	
968	9.816 6637	87	9.938 6731	153	0.061 3269	9.877 9906	66	032	
969	9.816 6725	88	9.938 6884	153	0.061 3116	9.877 9840	66	031	
		87		154			66		
.970	9.816 6812		9.938 7038		0.061 2962	9.877 9774		.030	
		87		153			66		
971	9.816 6899		9.938 7191		0.061 2809	9.877 9708		029	
972	9.816 6986	87	9.938 7344	153	0.061 2656	9.877 9643	65	028	
973	9.816 7074	88	9.938 7497	153	0.061 2503	9.877 9577	66	027	
		87		153			66		
974	9.816 7161		9.938 7650		0.061 2350	9.877 9511		026	
975	9.816 7248	87	9.938 7803	153	0.061 2197	9.877 9445	66	025	
976	9.816 7336	88	9.938 7956	153	0.061 2044	9.877 9379	66	024	
		87		153			65		
977	9.816 7423		9.938 8109		0.061 1891	9.877 9314		023	
978	9.816 7510	87	9.938 8262	153	0.061 1738	9.877 9248	66	022	
979	9.816 7597	87	9.938 8416	154	0.061 1584	9.877 9182	66	021	
		88		153			66		
.980	9.816 7685		9.938 8569		0.061 1431	9.877 9116		.020	
		87		153			66		
981	9.816 7772		9.938 8722		0.061 1278	9.877 9050		019	
982	9.816 7859	87	9.938 8875	153	0.061 1125	9.877 8984	66	018	
983	9.816 7946	87	9.938 9028	153	0.061 0972	9.877 8918	66	017	
		88		153			65		
984	9.816 8034		9.938 9181		0.061 0819	9.877 8853		016	
985	9.816 8121	87	9.938 9334	153	0.061 0666	9.877 8787	66	015	
986	9.816 8208	87	9.938 9487	153	0.061 0513	9.877 8721	66	014	
		87		153			66		
987	9.816 8295		9.938 9640		0.061 0360	9.877 8655		013	
988	9.816 8383	88	9.938 9793	153	0.061 0207	9.877 8589	66	012	
989	9.816 8470	87	9.938 9947	154	0.061 0053	9.877 8523	66	011	
		87		153			66		
.990	9.816 8557		9.939 0100		0.060 9900	9.877 8457		.010	
		87		153			65		
991	9.816 8644		9.939 0253		0.060 9747	9.877 8392		009	
992	9.816 8731	87	9.939 0406	153	0.060 9594	9.877 8326	66	008	
993	9.816 8819	88	9.939 0559	153	0.060 9441	9.877 8260	66	007	
		87		153			66		
994	9.816 8906		9.939 0712		0.060 9288	9.877 8194		006	
995	9.816 8993	87	9.939 0865	153	0.060 9135	9.877 8128	66	005	
996	9.816 9080	87	9.939 1018	153	0.060 8982	9.877 8062	66	004	
		88		153			66		
997	9.816 9168		9.939 1171		0.060 8829	9.877 7996		003	
998	9.816 9255	87	9.939 1324	153	0.060 8676	9.877 7930	66	002	
999	9.816 9342	87	9.939 1477	153	0.060 8523	9.877 7865	65	001	
		87		154			66		
*000	9.816 9429		9.939 1631		0.060 8369	9.877 7799		.000	
	cos	d	cotg	d	tang	sin	d	49°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	88	87
1	8.8	8.7
2	17.6	17.4
3	26.4	26.1
4	35.2	34.8
5	44.0	43.5
6	52.8	52.2
7	61.6	60.9
8	70.4	69.6
9	79.2	78.3

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

49°.050 — 49°.000

41°.000 — 41°.050

41°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.816 9429		9.939 1631		0.060 8369	9.877 7799		*000	
		87		153			66		
001	9.816 9516		9.939 1784		0.060 8216	9.877 7733		999	
002	9.816 9604	88	9.939 1937	153	0.060 8063	9.877 7667	66	998	
003	9.816 9691	87	9.939 2090	153	0.060 7910	9.877 7601	66	997	
		87		153			66		
004	9.816 9778		9.939 2243		0.060 7757	9.877 7535	66	996	
005	9.816 9865	87	9.939 2396	153	0.060 7604	9.877 7469	66	995	
006	9.816 9952	87	9.939 2549	153	0.060 7451	9.877 7403	66	994	
		87		153			66		
007	9.817 0039		9.939 2702		0.060 7298	9.877 7337	66	993	
008	9.817 0127	88	9.939 2855	153	0.060 7145	9.877 7271	65	992	
009	9.817 0214	87	9.939 3008	153	0.060 6992	9.877 7206	66	991	
		87		153			66		
.010	9.817 0301		9.939 3161		0.060 6839	9.877 7140		.990	
		87		153			66		
011	9.817 0388		9.939 3314		0.060 6686	9.877 7074		989	
012	9.817 0475	87	9.939 3468	154	0.060 6532	9.877 7008	66	988	
013	9.817 0562	87	9.939 3621	153	0.060 6379	9.877 6942	66	987	
		88		153			66		
014	9.817 0650		9.939 3774		0.060 6226	9.877 6876	66	986	
015	9.817 0737	87	9.939 3927	153	0.060 6073	9.877 6810	66	985	
016	9.817 0824	87	9.939 4080	153	0.060 5920	9.877 6744	66	984	
		87		153			66		
017	9.817 0911		9.939 4233		0.060 5767	9.877 6678	66	983	
018	9.817 0998	87	9.939 4386	153	0.060 5614	9.877 6612	66	982	
019	9.817 1085	87	9.939 4539	153	0.060 5461	9.877 6546	66	981	
		87		153			66		
.020	9.817 1172		9.939 4692		0.060 5308	9.877 6480		.980	
		88		153			66		
021	9.817 1260		9.939 4845		0.060 5155	9.877 6414		979	
022	9.817 1347	87	9.939 4998	153	0.060 5002	9.877 6348	66	978	
023	9.817 1434	87	9.939 5151	153	0.060 4849	9.877 6283	65	977	
		87		153			66		
024	9.817 1521		9.939 5304		0.060 4696	9.877 6217	66	976	
025	9.817 1608	87	9.939 5457	153	0.060 4543	9.877 6151	66	975	
026	9.817 1695	87	9.939 5611	154	0.060 4389	9.877 6085	66	974	
		87		153			66		
027	9.817 1782		9.939 5764		0.060 4236	9.877 6019	66	973	
028	9.817 1869	87	9.939 5917	153	0.060 4083	9.877 5953	66	972	
029	9.817 1957	88	9.939 6070	153	0.060 3930	9.877 5887	66	971	
		87		153			66		
.030	9.817 2044		9.939 6223		0.060 3777	9.877 5821		.970	
		87		153			66		
031	9.817 2131		9.939 6376		0.060 3624	9.877 5755		969	
032	9.817 2218	87	9.939 6529	153	0.060 3471	9.877 5689	66	968	
033	9.817 2305	87	9.939 6682	153	0.060 3318	9.877 5623	66	967	
		87		153			66		
034	9.817 2392		9.939 6835		0.060 3165	9.877 5557	66	966	
035	9.817 2479	87	9.939 6988	153	0.060 3012	9.877 5491	66	965	
036	9.817 2566	87	9.939 7141	153	0.060 2859	9.877 5425	66	964	
		87		153			66		
037	9.817 2653		9.939 7294		0.060 2706	9.877 5359	66	963	
038	9.817 2740	87	9.939 7447	153	0.060 2553	9.877 5293	66	962	
039	9.817 2827	87	9.939 7600	153	0.060 2400	9.877 5227	66	961	
		88		153			66		
.040	9.817 2915		9.939 7753		0.060 2247	9.877 5161		.960	
		87		153			66		
041	9.817 3002		9.939 7906		0.060 2094	9.877 5095		959	
042	9.817 3089	87	9.939 8060	154	0.060 1940	9.877 5029	66	958	
043	9.817 3176	87	9.939 8213	153	0.060 1787	9.877 4963	66	957	
		87		153			66		
044	9.817 3263		9.939 8366		0.060 1634	9.877 4897	66	956	
045	9.817 3350	87	9.939 8519	153	0.060 1481	9.877 4831	66	955	
046	9.817 3437	87	9.939 8672	153	0.060 1328	9.877 4765	66	954	
		87		153			66		
047	9.817 3524		9.939 8825		0.060 1175	9.877 4699	66	953	
048	9.817 3611	87	9.939 8978	153	0.060 1022	9.877 4633	66	952	
049	9.817 3698	87	9.939 9131	153	0.060 0869	9.877 4567	66	951	
		87		153			66		
.050	9.817 3785		9.939 9284		0.060 0716	9.877 4501		.950	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	88	87
1	8.8	8.7
2	17.6	17.4
3	26.4	26.1
4	35.2	34.8
5	44.0	43.5
6	52.8	52.2
7	61.6	60.9
8	70.4	69.6
9	79.2	78.3

	66	65
1	6.6	6.5
2	13.2	13.0
3	19.8	19.5
4	26.4	26.0
5	33.0	32.5
6	39.6	39.0
7	46.2	45.5
8	52.8	52.0
9	59.4	58.5

49°.000 — 48°.950

41°.050 — 41°.100

41°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.817 3785		9.939 9284		0.060 0716	9.877 4501		**.950**	
		87		153			66		
051	9.817 3872		9.939 9437		0.060 0563	9.877 4435		949	
052	9.817 3959	87	9.939 9590	153	0.060 0410	9.877 4369	66	948	
053	9.817 4046	87	9.939 9743	153	0.060 0257	9.877 4303	66	947	
		87		153			66		
054	9.817 4133		9.939 9896		0.060 0104	9.877 4237		946	
055	9.817 4220	87	9.940 0049	153	0.059 9951	9.877 4171	66	945	
056	9.817 4307	87	9.940 0202	153	0.059 9798	9.877 4105	66	944	
		87		153			66		
057	9.817 4394		9.940 0355		0.059 9645	9.877 4039		943	
058	9.817 4481	87	9.940 0508	153	0.059 9492	9.877 3973	66	942	
059	9.817 4568	87	9.940 0661	153	0.059 9339	9.877 3907	66	941	
		87		153			66		
.060	9.817 4655		9.940 0814		0.059 9186	9.877 3841		**.940**	
		87		153			66		
061	9.817 4742		9.940 0967	154	0.059 9033	9.877 3775		939	
062	9.817 4829	87	9.940 1121	153	0.059 8879	9.877 3709	66	938	
063	9.817 4916	87	9.940 1274	153	0.059 8726	9.877 3643	66	937	
		87		153			66		
064	9.817 5003		9.940 1427		0.059 8573	9.877 3577		936	
065	9.817 5090	87	9.940 1580	153	0.059 8420	9.877 3511	66	935	
066	9.817 5177	87	9.940 1733	153	0.059 8267	9.877 3445	66	934	
		87		153			66		
067	9.817 5264		9.940 1886		0.059 8114	9.877 3379		933	
068	9.817 5351	87	9.940 2039	153	0.059 7961	9.877 3313	66	932	
069	9.817 5438	87	9.940 2192	153	0.059 7808	9.877 3247	66	931	
		87		153			66		
.070	9.817 5525		9.940 2345		0.059 7655	9.877 3181		**.930**	
		87		153			66		
071	9.817 5612		9.940 2498		0.059 7502	9.877 3115		929	
072	9.817 5699	87	9.940 2651	153	0.059 7349	9.877 3048	67	928	
073	9.817 5786	87	9.940 2804	153	0.059 7196	9.877 2982	66	927	
		87		153			66		
074	9.817 5873		9.940 2957		0.059 7043	9.877 2916		926	
075	9.817 5960	87	9.940 3110	153	0.059 6890	9.877 2850	66	925	
076	9.817 6047	87	9.940 3263	153	0.059 6737	9.877 2784	66	924	
		87		153			66		
077	9.817 6134		9.940 3416		0.059 6584	9.877 2718		923	
078	9.817 6221	87	9.940 3569	153	0.059 6431	9.877 2652	66	922	
079	9.817 6308	87	9.940 3722	153	0.059 6278	9.877 2586	66	921	
		87		153			66		
.080	9.817 6395		9.940 3875		0.059 6125	9.877 2520		**.920**	
		87		153			66		
081	9.817 6482		9.940 4028		0.059 5972	9.877 2454		919	
082	9.817 6569	87	9.940 4181	153	0.059 5819	9.877 2388	66	918	
083	9.817 6656	87	9.940 4334	153	0.059 5666	9.877 2322	66	917	
		87		153			66		
084	9.817 6743		9.940 4487		0.059 5513	9.877 2256		916	
085	9.817 6830	87	9.940 4640	153	0.059 5360	9.877 2190	66	915	
086	9.817 6917	87	9.940 4793	153	0.059 5207	9.877 2123	67	914	
		87		153			66		
087	9.817 7004		9.940 4946		0.059 5054	9.877 2057		913	
088	9.817 7091	87	9.940 5099	153	0.059 4901	9.877 1991	66	912	
089	9.817 7177	86	9.940 5252	153	0.059 4748	9.877 1925	66	911	
		87		153			66		
.090	9.817 7264		9.940 5405		0.059 4595	9.877 1859		**.910**	
		87		153			66		
091	9.817 7351		9.940 5558		0.059 4442	9.877 1793		909	
092	9.817 7438	87	9.940 5711	153	0.059 4289	9.877 1727	66	908	
093	9.817 7525	87	9.940 5864	153	0.059 4136	9.877 1661	66	907	
		87		153			66		
094	9.817 7612		9.940 6017		0.059 3983	9.877 1595		906	
095	9.817 7699	87	9.940 6170	153	0.059 3830	9.877 1529	66	905	
096	9.817 7786	87	9.940 6323	153	0.059 3677	9.877 1462	67	904	
		87		153			66		
097	9.817 7873		9.940 6476		0.059 3524	9.877 1396		903	
098	9.817 7960	87	9.940 6630	154	0.059 3370	9.877 1330	66	902	
099	9.817 8047	87	9.940 6783	153	0.059 3217	9.877 1264	66	901	
		86		153			66		
.100	9.817 8133		9.940 6936		0.059 3064	9.877 1198		**.900**	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	154	153
1	15.4	15.3
2	30.8	30.6
3	46.2	45.9
4	61.6	61.2
5	77.0	76.5
6	92.4	91.8
7	107.8	107.1
8	123.2	122.4
9	138.6	137.7

	87	86
1	8.7	8.6
2	17.4	17.2
3	26.1	25.8
4	34.8	34.4
5	43.5	43.0
6	52.2	51.6
7	60.9	60.2
8	69.6	68.8
9	78.3	77.4

	67	66
1	6.7	6.6
2	13.4	13.2
3	20.1	19.8
4	26.8	26.4
5	33.5	33.0
6	40.2	39.6
7	46.9	46.2
8	53.6	52.8
9	60.3	59.4

48°.950 — 48°.900

41°.100 — 41°.150

41°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.817 8133		9.940 6936		0.059 3064	9.877 1198		.900	
		87		153			66		
101	9.817 8220		9.940 7089		0.059 2911	9.877 1132		899	
102	9.817 8307	87	9.940 7242	153	0.059 2758	9.877 1066	66	898	
103	9.817 8394	87	9.940 7395	153	0.059 2605	9.877 1000	66	897	
		87		153			67		
104	9.817 8481		9.940 7548		0.059 2452	9.877 0933		896	
105	9.817 8568	87	9.940 7701	153	0.059 2299	9.877 0867	66	895	
106	9.817 8655	87	9.940 7854	153	0.059 2146	9.877 0801	66	894	
		87		153			66		
107	9.817 8742		9.940 8007		0.059 1993	9.877 0735		893	
108	9.817 8828	86	9.940 8160	153	0.059 1840	9.877 0669	66	892	
109	9.817 8915	87	9.940 8313	153	0.059 1687	9.877 0603	66	891	
		87		153			66		
.110	9.817 9002		9.940 8466		0.059 1534	9.877 0537		.890	
		87		153			67		
111	9.817 9089		9.940 8619		0.059 1381	9.877 0470		889	
112	9.817 9176	87	9.940 8772	153	0.059 1228	9.877 0404	66	888	
113	9.817 9263	87	9.940 8925	153	0.059 1075	9.877 0338	66	887	
		87		153			66		
114	9.817 9350		9.940 9078		0.059 0922	9.877 0272		886	
115	9.817 9436	86	9.940 9231	153	0.059 0769	9.877 0206	66	885	
116	9.817 9523	87	9.940 9384	153	0.059 0616	9.877 0140	66	884	
		87		153			67		
117	9.817 9610		9.940 9537		0.059 0463	9.877 0073		883	
118	9.817 9697	87	9.940 9690	153	0.059 0310	9.877 0007	66	882	
119	9.817 9784	87	9.940 9843	153	0.059 0157	9.876 9941	66	881	
		87		153			66		
.120	9.817 9871		9.940 9996		0.059 0004	9.876 9875		.880	
		86		153			66		
121	9.817 9957		9.941 0149		0.058 9851	9.876 9809		879	
122	9.818 0044	87	9.941 0302	153	0.058 9698	9.876 9743	66	878	
123	9.818 0131	87	9.941 0455	153	0.058 9545	9.876 9676	67	877	
		87		153			66		
124	9.818 0218		9.941 0608		0.058 9392	9.876 9610		876	
125	9.818 0305	87	9.941 0761	153	0.058 9239	9.876 9544	66	875	
126	9.818 0392	87	9.941 0914	153	0.058 9086	9.876 9478	66	874	
		86		153			66		
127	9.818 0478		9.941 1067		0.058 8933	9.876 9412		873	
128	9.818 0565	87	9.941 1220	153	0.058 8780	9.876 9346	66	872	
129	9.818 0652	87	9.941 1373	153	0.058 8627	9.876 9279	67	871	
		87		153			66		
.130	9.818 0739		9.941 1526		0.058 8474	9.876 9213		.870	
		87		153			66		
131	9.818 0826		9.941 1679		0.058 8321	9.876 9147		869	
132	9.818 0912	86	9.941 1832	153	0.058 8168	9.876 9081	66	868	
133	9.818 0999	87	9.941 1985	153	0.058 8015	9.876 9015	66	867	
		87		153			67		
134	9.818 1086		9.941 2138		0.058 7862	9.876 8948		866	
135	9.818 1173	87	9.941 2291	153	0.058 7709	9.876 8882	66	865	
136	9.818 1260	87	9.941 2444	153	0.058 7556	9.876 8816	66	864	
		86		153			66		
137	9.818 1346		9.941 2597		0.058 7403	9.876 8750		863	
138	9.818 1433	87	9.941 2750	153	0.058 7250	9.876 8684	66	862	
139	9.818 1520	87	9.941 2902	152	0.058 7098	9.876 8617	67	861	
		87		153			66		
.140	9.818 1607		9.941 3055		0.058 6945	9.876 8551		.860	
		86		153			66		
141	9.818 1693		9.941 3208		0.058 6792	9.876 8485		859	
142	9.818 1780	87	9.941 3361	153	0.058 6639	9.876 8419	66	858	
143	9.818 1867	87	9.941 3514	153	0.058 6486	9.876 8352	67	857	
		87		153			66		
144	9.818 1954		9.941 3667		0.058 6333	9.876 8286		856	
145	9.818 2040	86	9.941 3820	153	0.058 6180	9.876 8220	66	855	
146	9.818 2127	87	9.941 3973	153	0.058 6027	9.876 8154	66	854	
		87		153			66		
147	9.818 2214		9.941 4126		0.058 5874	9.876 8088		853	
148	9.818 2301	87	9.941 4279	153	0.058 5721	9.876 8021	67	852	
149	9.818 2387	86	9.941 4432	153	0.058 5568	9.876 7955	66	851	
		87		153			66		
.150	9.818 2474		9.941 4585		0.058 5415	9.876 7889		.850	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	87	86
1	8.7	8.6
2	17.4	17.2
3	26.1	25.8
4	34.8	34.4
5	43.5	43.0
6	52.2	51.6
7	60.9	60.2
8	69.6	68.8
9	78.3	77.4

	67	66
1	6.7	6.6
2	13.4	13.2
3	20.1	19.8
4	26.8	26.4
5	33.5	33.0
6	40.2	39.6
7	46.9	46.2
8	53.6	52.8
9	60.3	59.4

48°.900 — 48°.850

41°.150 — 41°.200

41°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.818 2474		9.941 4585		0.058 5415	9.876 7889		.850	
		87		153			66		
151	9.818 2561		9.941 4738		0.058 5262	9.876 7823		849	
152	9.818 2648	87	9.941 4891	153	0.058 5109	9.876 7756	67	848	
153	9.818 2734	86	9.941 5044	153	0.058 4956	9.876 7690	66	847	
		87		153			66		
154	9.818 2821		9.941 5197		0.058 4803	9.876 7624		846	
155	9.818 2908	87	9.941 5350	153	0.058 4650	9.876 7558	66	845	
156	9.818 2994	86	9.941 5503	153	0.058 4497	9.876 7491	67	844	
		87		153			66		
157	9.818 3081		9.941 5656		0.058 4344	9.876 7425		843	
158	9.818 3168	87	9.941 5809	153	0.058 4191	9.876 7359	66	842	
159	9.818 3255	87	9.941 5962	153	0.058 4038	9.876 7293	66	841	
		86		153			67		
.160	9.818 3341		9.941 6115		0.058 3885	9.876 7226		.840	
		87		153			66		
161	9.818 3428		9.941 6268		0.058 3732	9.876 7160		839	
162	9.818 3515	87	9.941 6421	153	0.058 3579	9.876 7094	66	838	
163	9.818 3601	86	9.941 6574	153	0.058 3426	9.876 7028	66	837	
		87		153			67		
164	9.818 3688		9.941 6727		0.058 3273	9.876 6961		836	
165	9.818 3775	87	9.941 6880	153	0.058 3120	9.876 6895	66	835	
166	9.818 3862	87	9.941 7033	153	0.058 2967	9.876 6829	66	834	
		86		153			67		
167	9.818 3948		9.941 7186		0.058 2814	9.876 6762		833	
168	9.818 4035	87	9.941 7339	153	0.058 2661	9.876 6696	66	832	
169	9.818 4122	87	9.941 7492	153	0.058 2508	9.876 6630	66	831	
		86		153			66		
.170	9.818 4208		9.941 7645		0.058 2355	9.876 6564		.830	
		87		153			67		
171	9.818 4295		9.941 7798		0.058 2202	9.876 6497		829	
172	9.818 4382	87	9.941 7951	153	0.058 2049	9.876 6431	66	828	
173	9.818 4468	86	9.941 8104	153	0.058 1896	9.876 6365	66	827	
		87		153			67		
174	9.818 4555		9.941 8257		0.058 1743	9.876 6298		826	
175	9.818 4642	87	9.941 8409	152	0.058 1591	9.876 6232	66	825	
176	9.818 4728	86	9.941 8562	153	0.058 1438	9.876 6166	66	824	
		87		153			66		
177	9.818 4815		9.941 8715		0.058 1285	9.876 6100		823	
178	9.818 4902	87	9.941 8868	153	0.058 1132	9.876 6033	67	822	
179	9.818 4988	86	9.941 9021	153	0.058 0979	9.876 5967	66	821	
		87		153			66		
.180	9.818 5075		9.941 9174		0.058 0826	9.876 5901		.820	
		86		153			67		
181	9.818 5161		9.941 9327		0.058 0673	9.876 5834		819	
182	9.818 5248	87	9.941 9480	153	0.058 0520	9.876 5768	66	818	
183	9.818 5335	87	9.941 9633	153	0.058 0367	9.876 5702	66	817	
		86		153			67		
184	9.818 5421		9.941 9786		0.058 0214	9.876 5635		816	
185	9.818 5508	87	9.941 9939	153	0.058 0061	9.876 5569	66	815	
186	9.818 5595	87	9.942 0092	153	0.057 9908	9.876 5503	66	814	
		86		153			67		
187	9.818 5681		9.942 0245		0.057 9755	9.876 5436		813	
188	9.818 5768	87	9.942 0398	153	0.057 9602	9.876 5370	66	812	
189	9.818 5855	87	9.942 0551	153	0.057 9449	9.876 5304	66	811	
		86		153			67		
.190	9.818 5941		9.942 0704		0.057 9296	9.876 5237		.810	
		87		153			66		
191	9.818 6028		9.942 0857		0.057 9143	9.876 5171		809	
192	9.818 6114	86	9.942 1010	153	0.057 8990	9.876 5105	66	808	
193	9.818 6201	87	9.942 1163	153	0.057 8837	9.876 5038	67	807	
		87		153			66		
194	9.818 6288		9.942 1316		0.057 8684	9.876 4972		806	
195	9.818 6374	86	9.942 1469	153	0.057 8531	9.876 4906	66	805	
196	9.818 6461	87	9.942 1621	152	0.057 8379	9.876 4839	67	804	
		86		153			66		
197	9.818 6547		9.942 1774		0.057 8226	9.876 4773		803	
198	9.818 6634	87	9.942 1927	153	0.057 8073	9.876 4707	66	802	
199	9.818 6721	87	9.942 2080	153	0.057 7920	9.876 4640	67	801	
		86		153			66		
.200	9.818 6807		9.942 2233		0.057 7767	9.876 4574		.800	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	87	86
1	8.7	8.6
2	17.4	17.2
3	26.1	25.8
4	34.8	34.4
5	43.5	43.0
6	52.2	51.6
7	60.9	60.2
8	69.6	68.8
9	78.3	77.4

	67	66
1	6.7	6.6
2	13.4	13.2
3	20.1	19.8
4	26.8	26.4
5	33.5	33.0
6	40.2	39.6
7	46.9	46.2
8	53.6	52.8
9	60.3	59.4

48°.850 — 48°.800

41°.200 — 41°.250

41°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.818 6807		9.942 2233		0.057 7767	9.876 4574		.800	
		87		153			66		
201	9.818 6894		9.942 2386		0.057 7614	9.876 4508		799	
202	9.818 6980	86	9.942 2539	153	0.057 7461	9.876 4441	67	798	
203	9.818 7067	87	9.942 2692	153	0.057 7308	9.876 4375	66	797	
		86		153			67		
204	9.818 7153		9.942 2845		0.057 7155	9.876 4308		796	
205	9.818 7240	87	9.942 2998	153	0.057 7002	9.876 4242	66	795	
206	9.818 7327	87	9.942 3151	153	0.057 6849	9.876 4176	66	794	
		86		153			67		
207	9.818 7413		9.942 3304		0.057 6696	9.876 4109		793	
208	9.818 7500	87	9.942 3457	153	0.057 6543	9.876 4043	66	792	
209	9.818 7586	86	9.942 3610	153	0.057 6390	9.876 3977	66	791	
		87		153			67		
.210	9.818 7673		9.942 3763		0.057 6237	9.876 3910		.790	
		86		153			66		
211	9.818 7759		9.942 3916		0.057 6084	9.876 3844		789	
212	9.818 7846	87	9.942 4068	152	0.057 5932	9.876 3777	67	788	
213	9.818 7932	86	9.942 4221	153	0.057 5779	9.876 3711	66	787	
		87		153			66		
214	9.818 8019		9.942 4374		0.057 5626	9.876 3645		786	
215	9.818 8106	87	9.942 4527	153	0.057 5473	9.876 3578	67	785	
216	9.818 8192	86	9.942 4680	153	0.057 5320	9.876 3512	66	784	
		87		153			66		
217	9.818 8279		9.942 4833		0.057 5167	9.876 3446		783	
218	9.818 8365	86	9.942 4986	153	0.057 5014	9.876 3379	67	782	
219	9.818 8452	87	9.942 5139	153	0.057 4861	9.876 3313	66	781	
		86		153			67		
.220	9.818 8538		9.942 5292		0.057 4708	9.876 3246		.780	
		87		153			66		
221	9.818 8625		9.942 5445		0.057 4555	9.876 3180		779	
222	9.818 8711	86	9.942 5598	153	0.057 4402	9.876 3114	66	778	
223	9.818 8798	87	9.942 5751	153	0.057 4249	9.876 3047	67	777	
		86		153			66		
224	9.818 8884		9.942 5904		0.057 4096	9.876 2981		776	
225	9.818 8971	87	9.942 6057	153	0.057 3943	9.876 2914	67	775	
226	9.818 9057	86	9.942 6209	152	0.057 3791	9.876 2848	66	774	
		87		153			67		
227	9.818 9144		9.942 6362		0.057 3638	9.876 2781		773	
228	9.818 9230	86	9.942 6515	153	0.057 3485	9.876 2715	66	772	
229	9.818 9317	87	9.942 6668	153	0.057 3332	9.876 2649	66	771	
		86		153			67		
.230	9.818 9403		9.942 6821		0.057 3179	9.876 2582		.770	
		87		153			66		
231	9.818 9490		9.942 6974		0.057 3026	9.876 2516		769	
232	9.818 9576	86	9.942 7127	153	0.057 2873	9.876 2449	67	768	
233	9.818 9663	87	9.942 7280	153	0.057 2720	9.876 2383	66	767	
		86		153			67		
234	9.818 9749		9.942 7433		0.057 2567	9.876 2316		766	
235	9.818 9836	87	9.942 7586	153	0.057 2414	9.876 2250	66	765	
236	9.818 9922	86	9.942 7739	153	0.057 2261	9.876 2184	66	764	
		87		153			67		
237	9.819 0009		9.942 7892		0.057 2108	9.876 2117		763	
238	9.819 0095	86	9.942 8044	152	0.057 1956	9.876 2051	66	762	
239	9.819 0182	87	9.942 8197	153	0.057 1803	9.876 1984	67	761	
		86		153			66		
.240	9.819 0268		9.942 8350		0.057 1650	9.876 1918		.760	
		87		153			67		
241	9.819 0355		9.942 8503		0.057 1497	9.876 1851		759	
242	9.819 0441	86	9.942 8656	153	0.057 1344	9.876 1785	66	758	
243	9.819 0527	86	9.942 8809	153	0.057 1191	9.876 1718	67	757	
		87		153			66		
244	9.819 0614		9.942 8962		0.057 1038	9.876 1652		756	
245	9.819 0700	86	9.942 9115	153	0.057 0885	9.876 1586	66	755	
246	9.819 0787	87	9.942 9268	153	0.057 0732	9.876 1519	67	754	
		86		153			66		
247	9.819 0873		9.942 9421		0.057 0579	9.876 1453		753	
248	9.819 0960	87	9.942 9574	153	0.057 0426	9.876 1386	67	752	
249	9.819 1046	86	9.942 9726	152	0.057 0274	9.876 1320	66	751	
		87		153			67		
.250	9.819 1133		9.942 9879		0.057 0121	9.876 1253		.750	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	87	86
1	8.7	8.6
2	17.4	17.2
3	26.1	25.8
4	34.8	34.4
5	43.5	43.0
6	52.2	51.6
7	60.9	60.2
8	69.6	68.8
9	78.3	77.4

	67	66
1	6.7	6.6
2	13.4	13.2
3	20.1	19.8
4	26.8	26.4
5	33.5	33.0
6	40.2	39.6
7	46.9	46.2
8	53.6	52.8
9	60.3	59.4

48°.800 — 48°.750

41°.250 — 41°.300

41°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.819 1133		9.942 9879		0.057 0121	9.876 1253		.750	
		86		153			66		
251	9.819 1219		9.943 0032		0.056 9968	9.876 1187		749	
252	9.819 1305	86	9.943 0185	153	0.056 9815	9.876 1120	67	748	
253	9.819 1392	87	9.943 0338	153	0.056 9662	9.876 1054	66	747	
		86		153			67		
254	9.819 1478		9.943 0491		0.056 9509	9.876 0987		746	
255	9.819 1565	87	9.943 0644	153	0.056 9356	9.876 0921	66	745	
256	9.819 1651	86	9.943 0797	153	0.056 9203	9.876 0854	67	744	
		86		153			66		
257	9.819 1737		9.943 0950		0.056 9050	9.876 0788		743	
258	9.819 1824	87	9.943 1103	153	0.056 8897	9.876 0721	67	742	
259	9.819 1910	86	9.943 1255	152	0.056 8745	9.876 0655	66	741	
		87		153			67		
.260	9.819 1997		9.943 1408		0.056 8592	9.876 0588		.740	
		86		153			66		
261	9.819 2083		9.943 1561		0.056 8439	9.876 0522		739	
262	9.819 2170	87	9.943 1714	153	0.056 8286	9.876 0455	67	738	
263	9.819 2256	86	9.943 1867	153	0.056 8133	9.876 0389	66	737	
		86		153			67		
264	9.819 2342		9.943 2020		0.056 7980	9.876 0322		736	
265	9.819 2429	87	9.943 2173	153	0.056 7827	9.876 0256	66	735	
266	9.819 2515	86	9.943 2326	153	0.056 7674	9.876 0189	67	734	
		86		153			66		
267	9.819 2601		9.943 2479		0.056 7521	9.876 0123		733	
268	9.819 2688	87	9.943 2632	153	0.056 7368	9.876 0056	67	732	
269	9.819 2774	86	9.943 2784	152	0.056 7216	9.875 9990	66	731	
		87		153			67		
.270	9.819 2861		9.943 2937		0.056 7063	9.875 9923		.730	
		86		153			66		
271	9.819 2947		9.943 3090		0.056 6910	9.875 9857		729	
272	9.819 3033	86	9.943 3243	153	0.056 6757	9.875 9790	67	728	
273	9.819 3120	87	9.943 3396	153	0.056 6604	9.875 9724	66	727	
		86		153			67		
274	9.819 3206		9.943 3549		0.056 6451	9.875 9657		726	
275	9.819 3292	86	9.943 3702	153	0.056 6298	9.875 9591	66	725	
276	9.819 3379	87	9.943 3855	153	0.056 6145	9.875 9524	67	724	
		86		153			66		
277	9.819 3465		9.943 4008		0.056 5992	9.875 9458		723	
278	9.819 3551	86	9.943 4160	152	0.056 5840	9.875 9391	67	722	
279	9.819 3638	87	9.943 4313	153	0.056 5687	9.875 9324	67	721	
		86		153			66		
.280	9.819 3724		9.943 4466		0.056 5534	9.875 9258		.720	
		86		153			67		
281	9.819 3810		9.943 4619		0.056 5381	9.875 9191		719	
282	9.819 3897	87	9.943 4772	153	0.056 5228	9.875 9125	66	718	
283	9.819 3983	86	9.943 4925	153	0.056 5075	9.875 9058	67	717	
		86		153			66		
284	9.819 4069		9.943 5078		0.056 4922	9.875 8992		716	
285	9.819 4156	87	9.943 5231	153	0.056 4769	9.875 8925	67	715	
286	9.819 4242	86	9.943 5384	153	0.056 4616	9.875 8859	66	714	
		86		152			67		
287	9.819 4328		9.943 5536		0.056 4464	9.875 8792		713	
288	9.819 4415	87	9.943 5689	153	0.056 4311	9.875 8725	67	712	
289	9.819 4501	86	9.943 5842	153	0.056 4158	9.875 8659	66	711	
		86		153			67		
.290	9.819 4587		9.943 5995		0.056 4005	9.875 8592		.710	
		87		153			66		
291	9.819 4674		9.943 6148		0.056 3852	9.875 8526		709	
292	9.819 4760	86	9.943 6301	153	0.056 3699	9.875 8459	67	708	
293	9.819 4846	86	9.943 6454	153	0.056 3546	9.875 8393	66	707	
		87		153			67		
294	9.819 4933		9.943 6607		0.056 3393	9.875 8326		706	
295	9.819 5019	86	9.943 6759	152	0.056 3241	9.875 8259	67	705	
296	9.819 5105	86	9.943 6912	153	0.056 3088	9.875 8193	66	704	
		86		153			67		
297	9.819 5191		9.943 7065		0.056 2935	9.875 8126		703	
298	9.819 5278	87	9.943 7218	153	0.056 2782	9.875 8060	66	702	
299	9.819 5364	86	9.943 7371	153	0.056 2629	9.875 7993	67	701	
		86		153			66		
.300	9.819 5450		9.943 7524		0.056 2476	9.875 7927		.700	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	87	86
1	8.7	8.6
2	17.4	17.2
3	26.1	25.8
4	34.8	34.4
5	43.5	43.0
6	52.2	51.6
7	60.9	60.2
8	69.6	68.8
9	78.3	77.4

	67	66
1	6.7	6.6
2	13.4	13.2
3	20.1	19.8
4	26.8	26.4
5	33.5	33.0
6	40.2	39.6
7	46.9	46.2
8	53.6	52.8
9	60.3	59.4

48°.750 — 48°.700

41°.300 — 41°.350

41°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.819 5450		9.943 7524		0.056 2476	9.875 7927		.700	
		87		153			67		
301	9.819 5537	86	9.943 7677	153	0.056 2323	9.875 7860	67	699	
302	9.819 5623	86	9.943 7830	153	0.056 2170	9.875 7793	67	698	
303	9.819 5709	86	9.943 7982	152	0.056 2018	9.875 7727	66	697	
304	9.819 5795		9.943 8135	153	0.056 1865	9.875 7660	67	696	
305	9.819 5882	87	9.943 8288	153	0.056 1712	9.875 7594	66	695	
306	9.819 5968	86	9.943 8441	153	0.056 1559	9.875 7527	67	694	
307	9.819 6054	86	9.943 8594	153	0.056 1406	9.875 7460	67	693	
308	9.819 6140	86	9.943 8747	153	0.056 1253	9.875 7394	66	692	
309	9.819 6227	87	9.943 8900	153	0.056 1100	9.875 7327	67	691	
.310	9.819 6313	86	9.943 9052	152	0.056 0948	9.875 7261	66	.690	
		86		153			67		
311	9.819 6399	86	9.943 9205	153	0.056 0795	9.875 7194	67	689	
312	9.819 6485	87	9.943 9358	153	0.056 0642	9.875 7127	67	688	
313	9.819 6572	86	9.943 9511	153	0.056 0489	9.875 7061	66	687	
314	9.819 6658	86	9.943 9664	153	0.056 0336	9.875 6994	67	686	
315	9.819 6744	86	9.943 9817	153	0.056 0183	9.875 6927	67	685	
316	9.819 6830	87	9.943 9970	153	0.056 0030	9.875 6861	66	684	
317	9.819 6917	86	9.944 0122	152	0.055 9878	9.875 6794	67	683	
318	9.819 7003	86	9.944 0275	153	0.055 9725	9.875 6728	66	682	
319	9.819 7089	86	9.944 0428	153	0.055 9572	9.875 6661	67	681	
.320	9.819 7175	87	9.944 0581	153	0.055 9419	9.875 6594	67	.680	
		86		153			66		
321	9.819 7262	86	9.944 0734	153	0.055 9266	9.875 6528	67	679	
322	9.819 7348	86	9.944 0887	153	0.055 9113	9.875 6461	67	678	
323	9.819 7434	86	9.944 1040	152	0.055 8960	9.875 6394	66	677	
324	9.819 7520	86	9.944 1192	153	0.055 8808	9.875 6328	67	676	
325	9.819 7606	87	9.944 1345	153	0.055 8655	9.875 6261	67	675	
326	9.819 7693	86	9.944 1498	153	0.055 8502	9.875 6194	66	674	
327	9.819 7779	86	9.944 1651	153	0.055 8349	9.875 6128	67	673	
328	9.819 7865	86	9.944 1804	153	0.055 8196	9.875 6061	67	672	
329	9.819 7951	86	9.944 1957	153	0.055 8043	9.875 5994	66	671	
.330	9.819 8037	87	9.944 2110	152	0.055 7890	9.875 5928	67	.670	
		86		153			67		
331	9.819 8124	86	9.944 2262	153	0.055 7738	9.875 5861	67	669	
332	9.819 8210	86	9.944 2415	153	0.055 7585	9.875 5794	66	668	
333	9.819 8296	86	9.944 2568	153	0.055 7432	9.875 5728	67	667	
334	9.819 8382	86	9.944 2721	153	0.055 7279	9.875 5661	67	666	
335	9.819 8468	86	9.944 2874	153	0.055 7126	9.875 5594	66	665	
336	9.819 8554	87	9.944 3027	153	0.055 6973	9.875 5528	67	664	
337	9.819 8641	86	9.944 3180	153	0.055 6820	9.875 5461	67	663	
338	9.819 8727	86	9.944 3332	152	0.055 6668	9.875 5394	66	662	
339	9.819 8813	86	9.944 3485	153	0.055 6515	9.875 5328	67	661	
.340	9.819 8899	86	9.944 3638	153	0.055 6362	9.875 5261	67	.660	
		86		153			67		
341	9.819 8985	86	9.944 3791	153	0.055 6209	9.875 5194	66	659	
342	9.819 9071	87	9.944 3944	153	0.055 6056	9.875 5128	67	658	
343	9.819 9158	86	9.944 4097	152	0.055 5903	9.875 5061	67	657	
344	9.819 9244	86	9.944 4249	153	0.055 5751	9.875 4994	66	656	
345	9.819 9330	86	9.944 4402	153	0.055 5598	9.875 4928	67	655	
346	9.819 9416	86	9.944 4555	153	0.055 5445	9.875 4861	67	654	
347	9.819 9502	86	9.944 4708	153	0.055 5292	9.875 4794	67	653	
348	9.819 9588	86	9.944 4861	153	0.055 5139	9.875 4727	66	652	
349	9.819 9674	87	9.944 5014	152	0.055 4986	9.875 4661	67	651	
.350	9.819 9761		9.944 5166		0.055 4834	9.875 4594		.650	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	87	86
1	8.7	8.6
2	17.4	17.2
3	26.1	25.8
4	34.8	34.4
5	43.5	43.0
6	52.2	51.6
7	60.9	60.2
8	69.6	68.8
9	78.3	77.4

	67	66
1	6.7	6.6
2	13.4	13.2
3	20.1	19.8
4	26.8	26.4
5	33.5	33.0
6	40.2	39.6
7	46.9	46.2
8	53.6	52.8
9	60.3	59.4

48°.700 — 48°.650

41°.350 — 41°.400

41°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.819 9761		9.944 5166		0.055 4834	9.875 4594		.650	
		86		153			67		
351	9.819 9847	86	9.944 5319	153	0.055 4681	9.875 4527	66	649	
352	9.819 9933	86	9.944 5472	153	0.055 4528	9.875 4461	67	648	
353	9.820 0019	86	9.944 5625	153	0.055 4375	9.875 4394	67	647	
354	9.820 0105	86	9.944 5778	153	0.055 4222	9.875 4327	66	646	
355	9.820 0191	86	9.944 5931	153	0.055 4069	9.875 4261	67	645	
356	9.820 0277	86	9.944 6083	152	0.055 3917	9.875 4194	67	644	
357	9.820 0363	86	9.944 6236	153	0.055 3764	9.875 4127	67	643	
358	9.820 0449	87	9.944 6389	153	0.055 3611	9.875 4060	66	642	
359	9.820 0536	86	9.944 6542	153	0.055 3458	9.875 3994	67	641	
.360	9.820 0622	86	9.944 6695	153	0.055 3305	9.875 3927	67	.640	
361	9.820 0708	86	9.944 6848	153	0.055 3152	9.875 3860	67	639	
362	9.820 0794	86	9.944 7000	152	0.055 3000	9.875 3793	67	638	
363	9.820 0880	86	9.944 7153	153	0.055 2847	9.875 3727	66	637	
364	9.820 0966	86	9.944 7306	153	0.055 2694	9.875 3660	67	636	
365	9.820 1052	86	9.944 7459	153	0.055 2541	9.875 3593	67	635	
366	9.820 1138	86	9.944 7612	153	0.055 2388	9.875 3526	67	634	
367	9.820 1224	86	9.944 7765	153	0.055 2235	9.875 3460	66	633	
368	9.820 1310	86	9.944 7917	152	0.055 2083	9.875 3393	67	632	
369	9.820 1396	86	9.944 8070	153	0.055 1930	9.875 3326	67	631	
.370	9.820 1482	87	9.944 8223	153	0.055 1777	9.875 3259	67	.630	
371	9.820 1569	86	9.944 8376	153	0.055 1624	9.875 3193	66	629	
372	9.820 1655	86	9.944 8529	153	0.055 1471	9.875 3126	67	628	
373	9.820 1741	86	9.944 8681	152	0.055 1319	9.875 3059	67	627	
374	9.820 1827	86	9.944 8834	153	0.055 1166	9.875 2992	67	626	
375	9.820 1913	86	9.944 8987	153	0.055 1013	9.875 2926	66	625	
376	9.820 1999	86	9.944 9140	153	0.055 0860	9.875 2859	67	624	
377	9.820 2085	86	9.944 9293	153	0.055 0707	9.875 2792	67	623	
378	9.820 2171	86	9.944 9446	153	0.055 0554	9.875 2725	67	622	
379	9.820 2257	86	9.944 9598	152	0.055 0402	9.875 2659	66	621	
.380	9.820 2343	86	9.944 9751	153	0.055 0249	9.875 2592	67	.620	
381	9.820 2429	86	9.944 9904	153	0.055 0096	9.875 2525	67	619	
382	9.820 2515	86	9.945 0057	153	0.054 9943	9.875 2458	67	618	
383	9.820 2601	86	9.945 0210	152	0.054 9790	9.875 2391	66	617	
384	9.820 2687	86	9.945 0362	153	0.054 9638	9.875 2325	67	616	
385	9.820 2773	86	9.945 0515	153	0.054 9485	9.875 2258	67	615	
386	9.820 2859	86	9.945 0668	153	0.054 9332	9.875 2191	67	614	
387	9.820 2945	86	9.945 0821	153	0.054 9179	9.875 2124	67	613	
388	9.820 3031	86	9.945 0974	153	0.054 9026	9.875 2057	67	612	
389	9.820 3117	86	9.945 1127	153	0.054 8873	9.875 1991	66	611	
.390	9.820 3203	86	9.945 1279	152	0.054 8721	9.875 1924	67	.610	
391	9.820 3289	86	9.945 1432	153	0.054 8568	9.875 1857	67	609	
392	9.820 3375	86	9.945 1585	153	0.054 8415	9.875 1790	67	608	
393	9.820 3461	86	9.945 1738	153	0.054 8262	9.875 1723	67	607	
394	9.820 3547	86	9.945 1891	153	0.054 8109	9.875 1657	66	606	
395	9.820 3633	86	9.945 2043	152	0.054 7957	9.875 1590	67	605	
396	9.820 3719	86	9.945 2196	153	0.054 7804	9.875 1523	67	604	
397	9.820 3805	86	9.945 2349	153	0.054 7651	9.875 1456	67	603	
398	9.820 3891	86	9.945 2502	153	0.054 7498	9.875 1389	67	602	
399	9.820 3977	86	9.945 2655	153	0.054 7345	9.875 1323	66	601	
.400	9.820 4063		9.945 2807	152	0.054 7193	9.875 1256	67	.600	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	87	86
1	8.7	8.6
2	17.4	17.2
3	26.1	25.8
4	34.8	34.4
5	43.5	43.0
6	52.2	51.6
7	60.9	60.2
8	69.6	68.8
9	78.3	77.4

	67	66
1	6.7	6.6
2	13.4	13.2
3	20.1	19.8
4	26.8	26.4
5	33.5	33.0
6	40.2	39.6
7	46.9	46.2
8	53.6	52.8
9	60.3	59.4

48°.650 — 48°.600

41°.400 — 41°.450

41°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.820 4063		9.945 2807		0.054 7193	9.875 1256		.600	
		86		153			67		
401	9.820 4149		9.945 2960		0.054 7040	9.875 1189		599	
402	9.820 4235	86	9.945 3113	153	0.054 6887	9.875 1122	67	598	
403	9.820 4321	86	9.945 3266	153	0.054 6734	9.875 1055	67	597	
		86		153			67		
404	9.820 4407		9.945 3419		0.054 6581	9.875 0988		596	
405	9.820 4493	86	9.945 3571	152	0.054 6429	9.875 0922	66	595	
406	9.820 4579	86	9.945 3724	153	0.054 6276	9.875 0855	67	594	
		86		153			67		
407	9.820 4665		9.945 3877		0.054 6123	9.875 0788		593	
408	9.820 4751	86	9.945 4030	153	0.054 5970	9.875 0721	67	592	
409	9.820 4837	86	9.945 4183	153	0.054 5817	9.875 0654	67	591	
		86		152			67		
.410	9.820 4923		9.945 4335		0.054 5665	9.875 0587		.590	
		86		153			66		
411	9.820 5009		9.945 4488		0.054 5512	9.875 0521		589	
412	9.820 5095	86	9.945 4641	153	0.054 5359	9.875 0454	67	588	
413	9.820 5181	86	9.945 4794	153	0.054 5206	9.875 0387	67	587	
		86		153			67		
414	9.820 5267		9.945 4947		0.054 5053	9.875 0320		586	
415	9.820 5352	85	9.945 5099	152	0.054 4901	9.875 0253	67	585	
416	9.820 5438	86	9.945 5252	153	0.054 4748	9.875 0186	67	584	
		86		153			67		
417	9.820 5524		9.945 5405		0.054 4595	9.875 0119		583	
418	9.820 5610	86	9.945 5558	153	0.054 4442	9.875 0053	66	582	
419	9.820 5696	86	9.945 5711	153	0.054 4289	9.874 9986	67	581	
		86		152			67		
.420	9.820 5782		9.945 5863		0.054 4137	9.874 9919		.580	
		86		153			67		
421	9.820 5868		9.945 6016		0.054 3984	9.874 9852		579	
422	9.820 5954	86	9.945 6169	153	0.054 3831	9.874 9785	67	578	
423	9.820 6040	86	9.945 6322	153	0.054 3678	9.874 9718	67	577	
		86		152			67		
424	9.820 6126		9.945 6474		0.054 3526	9.874 9651		576	
425	9.820 6212	86	9.945 6627	153	0.054 3373	9.874 9584	67	575	
426	9.820 6298	86	9.945 6780	153	0.054 3220	9.874 9517	67	574	
		85		153			66		
427	9.820 6383		9.945 6933		0.054 3067	9.874 9451		573	
428	9.820 6469	86	9.945 7086	153	0.054 2914	9.874 9384	67	572	
429	9.820 6555	86	9.945 7238	152	0.054 2762	9.874 9317	67	571	
		86		153			67		
.430	9.820 6641		9.945 7391		0.054 2609	9.874 9250		.570	
		86		153			67		
431	9.820 6727		9.945 7544		0.054 2456	9.874 9183		569	
432	9.820 6813	86	9.945 7697	153	0.054 2303	9.874 9116	67	568	
433	9.820 6899	86	9.945 7850	153	0.054 2150	9.874 9049	67	567	
		86		152			67		
434	9.820 6985		9.945 8002		0.054 1998	9.874 8982		566	
435	9.820 7070	85	9.945 8155	153	0.054 1845	9.874 8915	67	565	
436	9.820 7156	86	9.945 8308	153	0.054 1692	9.874 8849	66	564	
		86		153			67		
437	9.820 7242		9.945 8461		0.054 1539	9.874 8782		563	
438	9.820 7328	86	9.945 8613	152	0.054 1387	9.874 8715	67	562	
439	9.820 7414	86	9.945 8766	153	0.054 1234	9.874 8648	67	561	
		86		153			67		
.440	9.820 7500		9.945 8919		0.054 1081	9.874 8581		.560	
		86		153			67		
441	9.820 7586		9.945 9072		0.054 0928	9.874 8514		559	
442	9.820 7672	86	9.945 9225	153	0.054 0775	9.874 8447	67	558	
443	9.820 7757	85	9.945 9377	152	0.054 0623	9.874 8380	67	557	
		86		153			67		
444	9.820 7843		9.945 9530		0.054 0470	9.874 8313		556	
445	9.820 7929	86	9.945 9683	153	0.054 0317	9.874 8246	67	555	
446	9.820 8015	86	9.945 9836	153	0.054 0164	9.874 8179	67	554	
		86		152			67		
447	9.820 8101		9.945 9988		0.054 0012	9.874 8112		553	
448	9.820 8187	86	9.946 0141	153	0.053 9859	9.874 8045	67	552	
449	9.820 8272	85	9.946 0294	153	0.053 9706	9.874 7978	67	551	
		86		153			66		
.450	9.820 8358		9.946 0447		0.053 9553	9.874 7912		.550	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	86	85
1	8.6	8.5
2	17.2	17.0
3	25.8	25.5
4	34.4	34.0
5	43.0	42.5
6	51.6	51.0
7	60.2	59.5
8	68.8	68.0
9	77.4	76.5

	67	66
1	6.7	6.6
2	13.4	13.2
3	20.1	19.8
4	26.8	26.4
5	33.5	33.0
6	40.2	39.6
7	46.9	46.2
8	53.6	52.8
9	60.3	59.4

48°.600 — 48°.550

41°.450 — 41°.500

41°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.820 8358		9.946 0447		0.053 9553	9.874 7912		.550	
		86		152			67		
451	9.820 8444		9.946 0599		0.053 9401	9.874 7845		549	
452	9.820 8530	86	9.946 0752	153	0.053 9248	9.874 7778	67	548	
453	9.820 8616	86	9.946 0905	153	0.053 9095	9.874 7711	67	547	
		85		153			67		
454	9.820 8701		9.946 1058		0.053 8942	9.874 7644		546	
455	9.820 8787	86	9.946 1211	153	0.053 8789	9.874 7577	67	545	
456	9.820 8873	86	9.946 1363	152	0.053 8637	9.874 7510	67	544	
		86		153			67		
457	9.820 8959		9.946 1516		0.053 8484	9.874 7443		543	
458	9.820 9045	86	9.946 1669	153	0.053 8331	9.874 7376	67	542	
459	9.820 9131	86	9.946 1822	153	0.053 8178	9.874 7309	67	541	
		85		152			67		
.460	9.820 9216		9.946 1974		0.053 8026	9.874 7242		.540	
		86		153			67		
461	9.820 9302		9.946 2127		0.053 7873	9.874 7175		539	
462	9.820 9388	86	9.946 2280	153	0.053 7720	9.874 7108	67	538	
463	9.820 9474	86	9.946 2433	153	0.053 7567	9.874 7041	67	537	
		85		152			67		
464	9.820 9559		9.946 2585		0.053 7415	9.874 6974		536	
465	9.820 9645	86	9.946 2738	153	0.053 7262	9.874 6907	67	535	
466	9.820 9731	86	9.946 2891	153	0.053 7109	9.874 6840	67	534	
		86		153			67		
467	9.820 9817		9.946 3044		0.053 6956	9.874 6773		533	
468	9.820 9903	86	9.946 3196	152	0.053 6804	9.874 6706	67	532	
469	9.820 9988	85	9.946 3349	153	0.053 6651	9.874 6639	67	531	
		86		153			67		
.470	9.821 0074		9.946 3502		0.053 6498	9.874 6572		.530	
		86		153			67		
471	9.821 0160		9.946 3655		0.053 6345	9.874 6505		529	
472	9.821 0246	86	9.946 3807	152	0.053 6193	9.874 6438	67	528	
473	9.821 0331	85	9.946 3960	153	0.053 6040	9.874 6371	67	527	
		86		153			67		
474	9.821 0417		9.946 4113		0.053 5887	9.874 6304		526	
475	9.821 0503	86	9.946 4266	153	0.053 5734	9.874 6237	67	525	
476	9.821 0589	86	9.946 4418	152	0.053 5582	9.874 6170	67	524	
		85		153			67		
477	9.821 0674		9.946 4571		0.053 5429	9.874 6103		523	
478	9.821 0760	86	9.946 4724	153	0.053 5276	9.874 6036	67	522	
479	9.821 0846	86	9.946 4877	153	0.053 5123	9.874 5969	67	521	
		86		152			67		
.480	9.821 0932		9.946 5029		0.053 4971	9.874 5902		.520	
		85		153			67		
481	9.821 1017		9.946 5182		0.053 4818	9.874 5835		519	
482	9.821 1103	86	9.946 5335	153	0.053 4665	9.874 5768	67	518	
483	9.821 1189	86	9.946 5488	153	0.053 4512	9.874 5701	67	517	
		86		152			67		
484	9.821 1275		9.946 5640		0.053 4360	9.874 5634		516	
485	9.821 1360	85	9.946 5793	153	0.053 4207	9.874 5567	67	515	
486	9.821 1446	86	9.946 5946	153	0.053 4054	9.874 5500	67	514	
		86		153			67		
487	9.821 1532		9.946 6099		0.053 3901	9.874 5433		513	
488	9.821 1617	85	9.946 6251	152	0.053 3749	9.874 5366	67	512	
489	9.821 1703	86	9.946 6404	153	0.053 3596	9.874 5299	67	511	
		86		153			67		
.490	9.821 1789		9.946 6557		0.053 3443	9.874 5232		.510	
		86		153			67		
491	9.821 1875		9.946 6710		0.053 3290	9.874 5165		509	
492	9.821 1960	85	9.946 6862	152	0.053 3138	9.874 5098	67	508	
493	9.821 2046	86	9.946 7015	153	0.053 2985	9.874 5031	67	507	
		86		153			67		
494	9.821 2132		9.946 7168		0.053 2832	9.874 4964		506	
495	9.821 2217	85	9.946 7321	153	0.053 2679	9.874 4897	67	505	
496	9.821 2303	86	9.946 7473	152	0.053 2527	9.874 4830	67	504	
		86		153			67		
497	9.821 2389		9.946 7626		0.053 2374	9.874 4763		503	
498	9.821 2474	85	9.946 7779	153	0.053 2221	9.874 4696	67	502	
499	9.821 2560	86	9.946 7932	153	0.053 2068	9.874 4628	68	501	
		86		152			67		
.500	9.821 2646		9.946 8084		0.053 1916	9.874 4561		.500	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	86	85
1	8.6	8.5
2	17.2	17.0
3	25.8	25.5
4	34.4	34.0
5	43.0	42.5
6	51.6	51.0
7	60.2	59.5
8	68.8	68.0
9	77.4	76.5

	68	67
1	6.8	6.7
2	13.6	13.4
3	20.4	20.1
4	27.2	26.8
5	34.0	33.5
6	40.8	40.2
7	47.6	46.9
8	54.4	53.6
9	61.2	60.3

48°.550 — 48°.500

41°.500 — 41°.550

41°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.821 2646		9.946 8084		0.053 1916	9.874 4561		.500	
		85		153			67		
501	9.821 2731	86	9.946 8237	153	0.053 1763	9.874 4494	67	499	
502	9.821 2817	86	9.946 8390	153	0.053 1610	9.874 4427	67	498	
503	9.821 2903	85	9.946 8542	152	0.053 1458	9.874 4360	67	497	
504	9.821 2988	86	9.946 8695	153	0.053 1305	9.874 4293	67	496	
505	9.821 3074	86	9.946 8848	153	0.053 1152	9.874 4226	67	495	
506	9.821 3160	85	9.946 9001	153	0.053 0999	9.874 4159	67	494	
507	9.821 3245	86	9.946 9153	152	0.053 0847	9.874 4092	67	493	
508	9.821 3331	86	9.946 9306	153	0.053 0694	9.874 4025	67	492	
509	9.821 3417	85	9.946 9459	153	0.053 0541	9.874 3958	67	491	
.510	9.821 3502	86	9.946 9612	153	0.053 0388	9.874 3891	67	.490	
511	9.821 3588	86	9.946 9764	152	0.053 0236	9.874 3824	67	489	
512	9.821 3674	85	9.946 9917	153	0.053 0083	9.874 3757	68	488	
513	9.821 3759	86	9.947 0070	153	0.052 9930	9.874 3689	67	487	
514	9.821 3845	86	9.947 0223	153	0.052 9777	9.874 3622	67	486	
515	9.821 3931	85	9.947 0375	152	0.052 9625	9.874 3555	67	485	
516	9.821 4016	86	9.947 0528	153	0.052 9472	9.874 3488	67	484	
517	9.821 4102	85	9.947 0681	153	0.052 9319	9.874 3421	67	483	
518	9.821 4187	86	9.947 0833	152	0.052 9167	9.874 3354	67	482	
519	9.821 4273	86	9.947 0986	153	0.052 9014	9.874 3287	67	481	
.520	9.821 4359	85	9.947 1139	153	0.052 8861	9.874 3220	67	.480	
521	9.821 4444	86	9.947 1292	153	0.052 8708	9.874 3153	67	479	
522	9.821 4530	85	9.947 1444	152	0.052 8556	9.874 3086	67	478	
523	9.821 4615	86	9.947 1597	153	0.052 8403	9.874 3018	68	477	
524	9.821 4701	86	9.947 1750	153	0.052 8250	9.874 2951	67	476	
525	9.821 4787	85	9.947 1902	152	0.052 8098	9.874 2884	67	475	
526	9.821 4872	86	9.947 2055	153	0.052 7945	9.874 2817	67	474	
527	9.821 4958	85	9.947 2208	153	0.052 7792	9.874 2750	67	473	
528	9.821 5043	86	9.947 2361	153	0.052 7639	9.874 2683	67	472	
529	9.821 5129	86	9.947 2513	152	0.052 7487	9.874 2616	67	471	
.530	9.821 5215	85	9.947 2666	153	0.052 7334	9.874 2549	68	.470	
531	9.821 5300	86	9.947 2819	153	0.052 7181	9.874 2481	67	469	
532	9.821 5386	85	9.947 2972	152	0.052 7028	9.874 2414	67	468	
533	9.821 5471	86	9.947 3124	153	0.052 6876	9.874 2347	67	467	
534	9.821 5557	85	9.947 3277	153	0.052 6723	9.874 2280	67	466	
535	9.821 5642	86	9.947 3430	152	0.052 6570	9.874 2213	67	465	
536	9.821 5728	86	9.947 3582	153	0.052 6418	9.874 2146	67	464	
537	9.821 5814	85	9.947 3735	153	0.052 6265	9.874 2079	68	463	
538	9.821 5899	86	9.947 3888	152	0.052 6112	9.874 2011	67	462	
539	9.821 5985	85	9.947 4040	153	0.052 5960	9.874 1944	67	461	
.540	9.821 6070	86	9.947 4193	153	0.052 5807	9.874 1877	67	.460	
541	9.821 6156	85	9.947 4346	153	0.052 5654	9.874 1810	67	459	
542	9.821 6241	86	9.947 4499	152	0.052 5501	9.874 1743	67	458	
543	9.821 6327	85	9.947 4651	153	0.052 5349	9.874 1676	68	457	
544	9.821 6412	86	9.947 4804	153	0.052 5196	9.874 1608	67	456	
545	9.821 6498	86	9.947 4957	152	0.052 5043	9.874 1541	67	455	
546	9.821 6584	85	9.947 5109	153	0.052 4891	9.874 1474	67	454	
547	9.821 6669	86	9.947 5262	153	0.052 4738	9.874 1407	67	453	
548	9.821 6755	85	9.947 5415	153	0.052 4585	9.874 1340	67	452	
549	9.821 6840	86	9.947 5568	152	0.052 4432	9.874 1273	68	451	
.550	9.821 6926		9.947 5720		0.052 4280	9.874 1205		.450	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	86	85
1	8.6	8.5
2	17.2	17.0
3	25.8	25.5
4	34.4	34.0
5	43.0	42.5
6	51.6	51.0
7	60.2	59.5
8	68.8	68.0
9	77.4	76.5

	68	67
1	6.8	6.7
2	13.6	13.4
3	20.4	20.1
4	27.2	26.8
5	34.0	33.5
6	40.8	40.2
7	47.6	46.9
8	54.4	53.6
9	61.2	60.3

48°.500 — 48°.450

41°.550 — 41°.600

41°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.821 6926		9.947 5720		0.052 4280	9.874 1205		.450	
		85		153			67		
551	9.821 7011	86	9.947 5873	153	0.052 4127	9.874 1138	67	449	
552	9.821 7097	85	9.947 6026	153	0.052 3974	9.874 1071	67	448	
553	9.821 7182	86	9.947 6178	152	0.052 3822	9.874 1004	67	447	
554	9.821 7268	85	9.947 6331	153	0.052 3669	9.874 0937	67	446	
555	9.821 7353	86	9.947 6484	153	0.052 3516	9.874 0869	68	445	
556	9.821 7439	85	9.947 6636	152	0.052 3364	9.874 0802	67	444	
557	9.821 7524	86	9.947 6789	153	0.052 3211	9.874 0735	67	443	
558	9.821 7610	85	9.947 6942	153	0.052 3058	9.874 0668	67	442	
559	9.821 7695	86	9.947 7095	153	0.052 2905	9.874 0601	67	441	
.560	9.821 7781	85	9.947 7247	152	0.052 2753	9.874 0534	67	.440	
561	9.821 7866	86	9.947 7400	153	0.052 2600	9.874 0466	68	439	
562	9.821 7952	85	9.947 7553	153	0.052 2447	9.874 0399	67	438	
563	9.821 8037	86	9.947 7705	152	0.052 2295	9.874 0332	67	437	
564	9.821 8123	85	9.947 7858	153	0.052 2142	9.874 0265	67	436	
565	9.821 8208	86	9.947 8011	153	0.052 1989	9.874 0197	68	435	
566	9.821 8294	85	9.947 8163	152	0.052 1837	9.874 0130	67	434	
567	9.821 8379	86	9.947 8316	153	0.052 1684	9.874 0063	67	433	
568	9.821 8465	85	9.947 8469	153	0.052 1531	9.873 9996	67	432	
569	9.821 8550	86	9.947 8622	153	0.052 1378	9.873 9929	67	431	
.570	9.821 8636	85	9.947 8774	152	0.052 1226	9.873 9861	68	.430	
571	9.821 8721	86	9.947 8927	153	0.052 1073	9.873 9794	67	429	
572	9.821 8807	85	9.947 9080	153	0.052 0920	9.873 9727	67	428	
573	9.821 8892	85	9.947 9232	152	0.052 0768	9.873 9660	67	427	
574	9.821 8977	86	9.947 9385	153	0.052 0615	9.873 9592	68	426	
575	9.821 9063	85	9.947 9538	153	0.052 0462	9.873 9525	67	425	
576	9.821 9148	86	9.947 9690	152	0.052 0310	9.873 9458	67	424	
577	9.821 9234	85	9.947 9843	153	0.052 0157	9.873 9391	67	423	
578	9.821 9319	86	9.947 9996	153	0.052 0004	9.873 9323	68	422	
579	9.821 9405	85	9.948 0148	152	0.051 9852	9.873 9256	67	421	
.580	9.821 9490	86	9.948 0301	153	0.051 9699	9.873 9189	67	.420	
581	9.821 9576	85	9.948 0454	153	0.051 9546	9.873 9122	67	419	
582	9.821 9661	85	9.948 0606	152	0.051 9394	9.873 9054	68	418	
583	9.821 9746	86	9.948 0759	153	0.051 9241	9.873 8987	67	417	
584	9.821 9832	85	9.948 0912	153	0.051 9088	9.873 8920	67	416	
585	9.821 9917	86	9.948 1064	152	0.051 8936	9.873 8853	67	415	
586	9.822 0003	85	9.948 1217	153	0.051 8783	9.873 8785	68	414	
587	9.822 0088	85	9.948 1370	153	0.051 8630	9.873 8718	67	413	
588	9.822 0173	86	9.948 1523	153	0.051 8477	9.873 8651	67	412	
589	9.822 0259	85	9.948 1675	152	0.051 8325	9.873 8584	67	411	
.590	9.822 0344	86	9.948 1828	153	0.051 8172	9.873 8516	68	.410	
591	9.822 0430	85	9.948 1981	153	0.051 8019	9.873 8449	67	409	
592	9.822 0515	85	9.948 2133	152	0.051 7867	9.873 8382	67	408	
593	9.822 0600	86	9.948 2286	153	0.051 7714	9.873 8315	67	407	
594	9.822 0686	85	9.948 2439	153	0.051 7561	9.873 8247	68	406	
595	9.822 0771	86	9.948 2591	152	0.051 7409	9.873 8180	67	405	
596	9.822 0857	85	9.948 2744	153	0.051 7256	9.873 8113	67	404	
597	9.822 0942	85	9.948 2897	153	0.051 7103	9.873 8045	68	403	
598	9.822 1027	86	9.948 3049	152	0.051 6951	9.873 7978	67	402	
599	9.822 1113	85	9.948 3202	153	0.051 6798	9.873 7911	67	401	
.600	9.822 1198		9.948 3355	153	0.051 6645	9.873 7844	67	.400	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	86	85
1	8.6	8.5
2	17.2	17.0
3	25.8	25.5
4	34.4	34.0
5	43.0	42.5
6	51.6	51.0
7	60.2	59.5
8	68.8	68.0
9	77.4	76.5

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

	67
1	6.7
2	13.4
3	20.1
4	26.8
5	33.5
6	40.2
7	46.9
8	53.6
9	60.3

48°.450 — 48°.400

41°.600 — 41°.650

41°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.822 1198		9.948 3355		0.051 6645	9.873 7844		.400	
		86		152			68		
601	9.822 1284		9.948 3507		0.051 6493	9.873 7776		399	
602	9.822 1369	85	9.948 3660	153	0.051 6340	9.873 7709	67	398	
603	9.822 1454	85	9.948 3813	153	0.051 6187	9.873 7642	67	397	
		86		152			68		
604	9.822 1540		9.948 3965		0.051 6035	9.873 7574		396	
605	9.822 1625	85	9.948 4118	153	0.051 5882	9.873 7507	67	395	
606	9.822 1710	85	9.948 4271	153	0.051 5729	9.873 7440	67	394	
		86		152			68		
607	9.822 1796		9.948 4423		0.051 5577	9.873 7372		393	
608	9.822 1881	85	9.948 4576	153	0.051 5424	9.873 7305	67	392	
609	9.822 1966	85	9.948 4729	153	0.051 5271	9.873 7238	67	391	
		86		152			68		
.610	9.822 2052		9.948 4881		0.051 5119	9.873 7170		.390	
		85		153			67		
611	9.822 2137		9.948 5034		0.051 4966	9.873 7103		389	
612	9.822 2222	85	9.948 5187	153	0.051 4813	9.873 7036	67	388	
613	9.822 2308	86	9.948 5339	152	0.051 4661	9.873 6968	68	387	
		85		153			67		
614	9.822 2393		9.948 5492		0.051 4508	9.873 6901		386	
615	9.822 2478	85	9.948 5645	153	0.051 4355	9.873 6834	67	385	
616	9.822 2564	86	9.948 5797	152	0.051 4203	9.873 6766	68	384	
		85		153			67		
617	9.822 2649		9.948 5950		0.051 4050	9.873 6699		383	
618	9.822 2734	85	9.948 6103	153	0.051 3897	9.873 6632	67	382	
619	9.822 2820	86	9.948 6255	152	0.051 3745	9.873 6564	68	381	
		85		153			67		
.620	9.822 2905		9.948 6408		0.051 3592	9.873 6497		.380	
		85		153			67		
621	9.822 2990		9.948 6561		0.051 3439	9.873 6430		379	
622	9.822 3076	86	9.948 6713	152	0.051 3287	9.873 6362	68	378	
623	9.822 3161	85	9.948 6866	153	0.051 3134	9.873 6295	67	377	
		85		153			67		
624	9.822 3246		9.948 7019		0.051 2981	9.873 6228		376	
625	9.822 3332	86	9.948 7171	152	0.051 2829	9.873 6160	68	375	
626	9.822 3417	85	9.948 7324	153	0.051 2676	9.873 6093	67	374	
		85		153			67		
627	9.822 3502		9.948 7477		0.051 2523	9.873 6026		373	
628	9.822 3587	85	9.948 7629	152	0.051 2371	9.873 5958	68	372	
629	9.822 3673	86	9.948 7782	153	0.051 2218	9.873 5891	67	371	
		85		152			67		
.630	9.822 3758		9.948 7934		0.051 2066	9.873 5824		.370	
		85		153			68		
631	9.822 3843		9.948 8087		0.051 1913	9.873 5756		369	
632	9.822 3929	86	9.948 8240	153	0.051 1760	9.873 5689	67	368	
633	9.822 4014	85	9.948 8392	152	0.051 1608	9.873 5621	68	367	
		85		153			67		
634	9.822 4099		9.948 8545		0.051 1455	9.873 5554		366	
635	9.822 4184	85	9.948 8698	153	0.051 1302	9.873 5487	67	365	
636	9.822 4270	86	9.948 8850	152	0.051 1150	9.873 5419	68	364	
		85		153			67		
637	9.822 4355		9.948 9003		0.051 0997	9.873 5352		363	
638	9.822 4440	85	9.948 9156	153	0.051 0844	9.873 5285	67	362	
639	9.822 4525	85	9.948 9308	152	0.051 0692	9.873 5217	68	361	
		86		153			67		
.640	9.822 4611		9.948 9461		0.051 0539	9.873 5150		.360	
		85		153			68		
641	9.822 4696		9.948 9614		0.051 0386	9.873 5082		359	
642	9.822 4781	85	9.948 9766	152	0.051 0234	9.873 5015	67	358	
643	9.822 4866	85	9.948 9919	153	0.051 0081	9.873 4948	67	357	
		86		153			68		
644	9.822 4952		9.949 0072		0.050 9928	9.873 4880		356	
645	9.822 5037	85	9.949 0224	152	0.050 9776	9.873 4813	67	355	
646	9.822 5122	85	9.949 0377	153	0.050 9623	9.873 4745	68	354	
		85		152			67		
647	9.822 5207		9.949 0529		0.050 9471	9.873 4678		353	
648	9.822 5293	86	9.949 0682	153	0.050 9318	9.873 4611	67	352	
649	9.822 5378	85	9.949 0835	153	0.050 9165	9.873 4543	68	351	
		85		152			67		
.650	9.822 5463		9.949 0987		0.050 9013	9.873 4476		.350	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	86	85
1	8.6	8.5
2	17.2	17.0
3	25.8	25.5
4	34.4	34.0
5	43.0	42.5
6	51.6	51.0
7	60.2	59.5
8	68.8	68.0
9	77.4	76.5

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

	67
1	6.7
2	13.4
3	20.1
4	26.8
5	33.5
6	40.2
7	46.9
8	53.6
9	60.3

48°.400 — 48°.350

41°.650 — 41°.700

41°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.822 5463		9.949 0987		0.050 9013	9.873 4476		**.350**	
		85		153			68		
651	9.822 5548		9.949 1140		0.050 8860	9.873 4408		349	
652	9.822 5634	86	9.949 1293	153	0.050 8707	9.873 4341	67	348	
653	9.822 5719	85	9.949 1445	152	0.050 8555	9.873 4273	68	347	
		85		153			67		
654	9.822 5804		9.949 1598		0.050 8402	9.873 4206		346	
655	9.822 5889	85	9.949 1751	153	0.050 8249	9.873 4139	67	345	
656	9.822 5974	85	9.949 1903	152	0.050 8097	9.873 4071	68	344	
		86		153			67		
657	9.822 6060		9.949 2056		0.050 7944	9.873 4004		343	
658	9.822 6145	85	9.949 2209	153	0.050 7791	9.873 3936	68	342	
659	9.822 6230	85	9.949 2361	152	0.050 7639	9.873 3869	67	341	
		85		153			68		
.660	9.822 6315		9.949 2514		0.050 7486	9.873 3801		**.340**	
		85		152			67		
661	9.822 6400		9.949 2666		0.050 7334	9.873 3734		339	
662	9.822 6486	86	9.949 2819	153	0.050 7181	9.873 3667	67	338	
663	9.822 6571	85	9.949 2972	153	0.050 7028	9.873 3599	68	337	
		85		152			67		
664	9.822 6656		9.949 3124		0.050 6876	9.873 3532		336	
665	9.822 6741	85	9.949 3277	153	0.050 6723	9.873 3464	68	335	
666	9.822 6826	85	9.949 3430	153	0.050 6570	9.873 3397	67	334	
		85		152			68		
667	9.822 6911		9.949 3582		0.050 6418	9.873 3329		333	
668	9.822 6997	86	9.949 3735	153	0.050 6265	9.873 3262	67	332	
669	9.822 7082	85	9.949 3887	152	0.050 6113	9.873 3194	68	331	
		85		153			67		
.670	9.822 7167		9.949 4040		0.050 5960	9.873 3127		**.330**	
		85		153			68		
671	9.822 7252		9.949 4193		0.050 5807	9.873 3059		329	
672	9.822 7337	85	9.949 4345	152	0.050 5655	9.873 2992	67	328	
673	9.822 7422	85	9.949 4498	153	0.050 5502	9.873 2925	67	327	
		86		153			68		
674	9.822 7508		9.949 4651		0.050 5349	9.873 2857		326	
675	9.822 7593	85	9.949 4803	152	0.050 5197	9.873 2790	67	325	
676	9.822 7678	85	9.949 4956	153	0.050 5044	9.873 2722	68	324	
		85		152			67		
677	9.822 7763		9.949 5108		0.050 4892	9.873 2655		323	
678	9.822 7848	85	9.949 5261	153	0.050 4739	9.873 2587	68	322	
679	9.822 7933	85	9.949 5414	153	0.050 4586	9.873 2520	67	321	
		85		152			68		
.680	9.822 8018		9.949 5566		0.050 4434	9.873 2452		**.320**	
		86		153			67		
681	9.822 8104		9.949 5719		0.050 4281	9.873 2385		319	
682	9.822 8189	85	9.949 5872	153	0.050 4128	9.873 2317	68	318	
683	9.822 8274	85	9.949 6024	152	0.050 3976	9.873 2250	67	317	
		85		153			68		
684	9.822 8359		9.949 6177		0.050 3823	9.873 2182		316	
685	9.822 8444	85	9.949 6329	152	0.050 3671	9.873 2115	67	315	
686	9.822 8529	85	9.949 6482	153	0.050 3518	9.873 2047	68	314	
		85		153			67		
687	9.822 8614		9.949 6635		0.050 3365	9.873 1980		313	
688	9.822 8699	85	9.949 6787	152	0.050 3213	9.873 1912	68	312	
689	9.822 8785	86	9.949 6940	153	0.050 3060	9.873 1845	67	311	
		85		153			68		
.690	9.822 8870		9.949 7093		0.050 2907	9.873 1777		**.310**	
		85		152			67		
691	9.822 8955		9.949 7245		0.050 2755	9.873 1710		309	
692	9.822 9040	85	9.949 7398	153	0.050 2602	9.873 1642	68	308	
693	9.822 9125	85	9.949 7550	152	0.050 2450	9.873 1575	67	307	
		85		153			68		
694	9.822 9210		9.949 7703		0.050 2297	9.873 1507		306	
695	9.822 9295	85	9.949 7856	153	0.050 2144	9.873 1440	67	305	
696	9.822 9380	85	9.949 8008	152	0.050 1992	9.873 1372	68	304	
		85		153			67		
697	9.822 9465		9.949 8161		0.050 1839	9.873 1305		303	
698	9.822 9550	85	9.949 8313	152	0.050 1687	9.873 1237	68	302	
699	9.822 9636	86	9.949 8466	153	0.050 1534	9.873 1169	68	301	
		85		153			67		
.700	9.822 9721		9.949 8619		0.050 1381	9.873 1102		**.300**	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	86	85
1	8.6	8.5
2	17.2	17.0
3	25.8	25.5
4	34.4	34.0
5	43.0	42.5
6	51.6	51.0
7	60.2	59.5
8	68.8	68.0
9	77.4	76.5

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

	67
1	6.7
2	13.4
3	20.1
4	26.8
5	33.5
6	40.2
7	46.9
8	53.6
9	60.3

48°.350 — 48°.300

41°.700 — 41°.750

41°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.822 9721		9.949 8619		0.050 1381	9.873 1102		.300	
		85		152			68		
701	9.822 9806		9.949 8771		0.050 1229	9.873 1034		299	
702	9.822 9891	85	9.949 8924	153	0.050 1076	9.873 0967	67	298	
703	9.822 9976	85	9.949 9076	152	0.050 0924	9.873 0899	68	297	
		85		153			67		
704	9.823 0061		9.949 9229		0.050 0771	9.873 0832		296	
705	9.823 0146	85	9.949 9382	153	0.050 0618	9.873 0764	68	295	
706	9.823 0231	85	9.949 9534	152	0.050 0466	9.873 0697	67	294	
		85		153			68		
707	9.823 0316		9.949 9687		0.050 0313	9.873 0629		293	
708	9.823 0401	85	9.949 9839	152	0.050 0161	9.873 0562	67	292	
709	9.823 0486	85	9.949 9992	153	0.050 0008	9.873 0494	68	291	
		85		153			68		
.710	9.823 0571		9.950 0145		0.049 9855	9.873 0426		.290	
		85		152			67		
711	9.823 0656		9.950 0297		0.049 9703	9.873 0359		289	
712	9.823 0741	85	9.950 0450	153	0.049 9550	9.873 0291	68	288	
713	9.823 0826	85	9.950 0602	152	0.049 9398	9.873 0224	67	287	
		85		153			68		
714	9.823 0911		9.950 0755		0.049 9245	9.873 0156		286	
715	9.823 0996	85	9.950 0908	153	0.049 9092	9.873 0089	67	285	
716	9.823 1081	85	9.950 1060	152	0.049 8940	9.873 0021	68	284	
		85		153			67		
717	9.823 1166		9.950 1213		0.049 8787	9.872 9954		283	
718	9.823 1251	85	9.950 1365	152	0.049 8635	9.872 9886	68	282	
719	9.823 1336	85	9.950 1518	153	0.049 8482	9.872 9818	68	281	
		85		153			67		
.720	9.823 1421		9.950 1671		0.049 8329	9.872 9751		.280	
		85		152			68		
721	9.823 1506		9.950 1823		0.049 8177	9.872 9683		279	
722	9.823 1591	85	9.950 1976	153	0.049 8024	9.872 9616	67	278	
723	9.823 1677	86	9.950 2128	152	0.049 7872	9.872 9548	68	277	
		85		153			68		
724	9.823 1762		9.950 2281		0.049 7719	9.872 9480		276	
725	9.823 1847	85	9.950 2434	153	0.049 7566	9.872 9413	67	275	
726	9.823 1932	85	9.950 2586	152	0.049 7414	9.872 9345	68	274	
		85		153			67		
727	9.823 2017		9.950 2739		0.049 7261	9.872 9278		273	
728	9.823 2101	84	9.950 2891	152	0.049 7109	9.872 9210	68	272	
729	9.823 2186	85	9.950 3044	153	0.049 6956	9.872 9142	68	271	
		85		153			67		
.730	9.823 2271		9.950 3197		0.049 6803	9.872 9075		.270	
		85		152			68		
731	9.823 2356		9.950 3349		0.049 6651	9.872 9007		269	
732	9.823 2441	85	9.950 3502	153	0.049 6498	9.872 8940	67	268	
733	9.823 2526	85	9.950 3654	152	0.049 6346	9.872 8872	68	267	
		85		153			68		
734	9.823 2611		9.950 3807		0.049 6193	9.872 8804		266	
735	9.823 2696	85	9.950 3960	153	0.049 6040	9.872 8737	67	265	
736	9.823 2781	85	9.950 4112	152	0.049 5888	9.872 8669	68	264	
		85		153			67		
737	9.823 2866		9.950 4265		0.049 5735	9.872 8602		263	
738	9.823 2951	85	9.950 4417	152	0.049 5583	9.872 8534	68	262	
739	9.823 3036	85	9.950 4570	153	0.049 5430	9.872 8466	68	261	
		85		152			67		
.740	9.823 3121		9.950 4722		0.049 5278	9.872 8399		.260	
		85		153			68		
741	9.823 3206		9.950 4875		0.049 5125	9.872 8331		259	
742	9.823 3291	85	9.950 5028	153	0.049 4972	9.872 8263	68	258	
743	9.823 3376	85	9.950 5180	152	0.049 4820	9.872 8196	67	257	
		85		153			68		
744	9.823 3461		9.950 5333		0.049 4667	9.872 8128		256	
745	9.823 3546	85	9.950 5485	152	0.049 4515	9.872 8061	67	255	
746	9.823 3631	85	9.950 5638	153	0.049 4362	9.872 7993	68	254	
		85		153			68		
747	9.823 3716		9.950 5791		0.049 4209	9.872 7925		253	
748	9.823 3801	85	9.950 5943	152	0.049 4057	9.872 7858	67	252	
749	9.823 3886	85	9.950 6096	153	0.049 3904	9.872 7790	68	251	
		85		152			68		
.750	9.823 3971		9.950 6248		0.049 3752	9.872 7722		.250	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	86	85
1	8.6	8.5
2	17.2	17.0
3	25.8	25.5
4	34.4	34.0
5	43.0	42.5
6	51.6	51.0
7	60.2	59.5
8	68.8	68.0
9	77.4	76.5

	84
1	8.4
2	16.8
3	25.2
4	33.6
5	42.0
6	50.4
7	58.8
8	67.2
9	75.6

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

	67
1	6.7
2	13.4
3	20.1
4	26.8
5	33.5
6	40.2
7	46.9
8	53.6
9	60.3

48°.300 — 48°.250

41°.750 — 41°.800

41°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.823 3971		9.950 6248		0.049 3752	9.872 7722		.250	
		84		153			67		
751	9.823 4055		9.950 6401		0.049 3599	9.872 7655		249	
752	9.823 4140	85	9.950 6553	152	0.049 3447	9.872 7587	68	248	
753	9.823 4225	85	9.950 6706	153	0.049 3294	9.872 7519	68	247	
		85		153			67		
754	9.823 4310		9.950 6859		0.049 3141	9.872 7452		246	
755	9.823 4395	85	9.950 7011	152	0.049 2989	9.872 7384	68	245	
756	9.823 4480	85	9.950 7164	153	0.049 2836	9.872 7316	68	244	
		85		152			67		
757	9.823 4565		9.950 7316		0.049 2684	9.872 7249		243	
758	9.823 4650	85	9.950 7469	153	0.049 2531	9.872 7181	68	242	
759	9.823 4735	85	9.950 7621	152	0.049 2379	9.872 7113	68	241	
		85		153			67		
.760	9.823 4820		9.950 7774		0.049 2226	9.872 7046		.240	
		85		153			68		
761	9.823 4905		9.950 7927		0.049 2073	9.872 6978		239	
762	9.823 4989	84	9.950 8079	152	0.049 1921	9.872 6910	68	238	
763	9.823 5074	85	9.950 8232	153	0.049 1768	9.872 6843	67	237	
		85		152			68		
764	9.823 5159		9.950 8384		0.049 1616	9.872 6775		236	
765	9.823 5244	85	9.950 8537	153	0.049 1463	9.872 6707	68	235	
766	9.823 5329	85	9.950 8689	152	0.049 1311	9.872 6640	67	234	
		85		153			68		
767	9.823 5414		9.950 8842		0.049 1158	9.872 6572		233	
768	9.823 5499	85	9.950 8995	153	0.049 1005	9.872 6504	68	232	
769	9.823 5584	85	9.950 9147	152	0.049 0853	9.872 6436	68	231	
		84		153			67		
.770	9.823 5668		9.950 9300		0.049 0700	9.872 6369		.230	
		85		152			68		
771	9.823 5753		9.950 9452		0.049 0548	9.872 6301		229	
772	9.823 5838	85	9.950 9605	153	0.049 0395	9.872 6233	68	228	
773	9.823 5923	85	9.950 9757	152	0.049 0243	9.872 6166	67	227	
		85		153			68		
774	9.823 6008		9.950 9910		0.049 0090	9.872 6098		226	
775	9.823 6093	85	9.951 0063	153	0.048 9937	9.872 6030	68	225	
776	9.823 6178	85	9.951 0215	152	0.048 9785	9.872 5962	68	224	
		84		153			67		
777	9.823 6262		9.951 0368		0.048 9632	9.872 5895		223	
778	9.823 6347	85	9.951 0520	152	0.048 9480	9.872 5827	68	222	
779	9.823 6432	85	9.951 0673	153	0.048 9327	9.872 5759	68	221	
		85		152			67		
.780	9.823 6517		9.951 0825		0.048 9175	9.872 5692		.220	
		85		153			68		
781	9.823 6602		9.951 0978		0.048 9022	9.872 5624		219	
782	9.823 6687	85	9.951 1130	152	0.048 8870	9.872 5556	68	218	
783	9.823 6771	84	9.951 1283	153	0.048 8717	9.872 5488	68	217	
		85		153			67		
784	9.823 6856		9.951 1436		0.048 8564	9.872 5421		216	
785	9.823 6941	85	9.951 1588	152	0.048 8412	9.872 5353	68	215	
786	9.823 7026	85	9.951 1741	153	0.048 8259	9.872 5285	68	214	
		85		152			68		
787	9.823 7111		9.951 1893		0.048 8107	9.872 5217		213	
788	9.823 7196	85	9.951 2046	153	0.048 7954	9.872 5150	67	212	
789	9.823 7280	84	9.951 2198	152	0.048 7802	9.872 5082	68	211	
		85		153			68		
.790	9.823 7365		9.951 2351		0.048 7649	9.872 5014		.210	
		85		152			67		
791	9.823 7450		9.951 2503		0.048 7497	9.872 4947		209	
792	9.823 7535	85	9.951 2656	153	0.048 7344	9.872 4879	68	208	
793	9.823 7620	85	9.951 2809	153	0.048 7191	9.872 4811	68	207	
		84		152			68		
794	9.823 7704		9.951 2961		0.048 7039	9.872 4743		206	
795	9.823 7789	85	9.951 3114	153	0.048 6886	9.872 4675	68	205	
796	9.823 7874	85	9.951 3266	152	0.048 6734	9.872 4608	67	204	
		85		153			68		
797	9.823 7959		9.951 3419		0.048 6581	9.872 4540		203	
798	9.823 8044	85	9.951 3571	152	0.048 6429	9.872 4472	68	202	
799	9.823 8128	84	9.951 3724	153	0.048 6276	9.872 4404	68	201	
		85		152			67		
.800	9.823 8213		9.951 3876		0.048 6124	9.872 4337		.200	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	85	84
1	8.5	8.4
2	17.0	16.8
3	25.5	25.2
4	34.0	33.6
5	42.5	42.0
6	51.0	50.4
7	59.5	58.8
8	68.0	67.2
9	76.5	75.6

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

	67
1	6.7
2	13.4
3	20.1
4	26.8
5	33.5
6	40.2
7	46.9
8	53.6
9	60.3

48°.250 — 48°.200

41°.800 — 41°.850

41°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.823 8213		9.951 3876		0.048 6124	9.872 4337		.200	
		85		153			68		
801	9.823 8298		9.951 4029		0.048 5971	9.872 4269		199	
802	9.823 8383	85	9.951 4182	153	0.048 5818	9.872 4201	68	198	
803	9.823 8467	84	9.951 4334	152	0.048 5666	9.872 4133	68	197	
		85		153			67		
804	9.823 8552		9.951 4487		0.048 5513	9.872 4066		196	
805	9.823 8637	85	9.951 4639	152	0.048 5361	9.872 3998	68	195	
806	9.823 8722	85	9.951 4792	153	0.048 5208	9.872 3930	68	194	
		84		152			68		
807	9.823 8806		9.951 4944		0.048 5056	9.872 3862		193	
808	9.823 8891	85	9.951 5097	153	0.048 4903	9.872 3794	68	192	
809	9.823 8976	85	9.951 5249	152	0.048 4751	9.872 3727	67	191	
		85		153			68		
.810	9.823 9061		9.951 5402		0.048 4598	9.872 3659		.190	
		84		152			68		
811	9.823 9145		9.951 5554		0.048 4446	9.872 3591		189	
812	9.823 9230	85	9.951 5707	153	0.048 4293	9.872 3523	68	188	
813	9.823 9315	85	9.951 5860	153	0.048 4140	9.872 3455	68	187	
		85		152			67		
814	9.823 9400		9.951 6012		0.048 3988	9.872 3388		186	
815	9.823 9484	84	9.951 6165	153	0.048 3835	9.872 3320	68	185	
816	9.823 9569	85	9.951 6317	152	0.048 3683	9.872 3252	68	184	
		85		153			68		
817	9.823 9654		9.951 6470		0.048 3530	9.872 3184		183	
818	9.823 9739	85	9.951 6622	152	0.048 3378	9.872 3116	68	182	
819	9.823 9823	84	9.951 6775	153	0.048 3225	9.872 3049	67	181	
		85		152			68		
.820	9.823 9908		9.951 6927		0.048 3073	9.872 2981		.180	
		85		153			68		
821	9.823 9993		9.951 7080		0.048 2920	9.872 2913		179	
822	9.824 0077	84	9.951 7232	152	0.048 2768	9.872 2845	68	178	
823	9.824 0162	85	9.951 7385	153	0.048 2615	9.872 2777	68	177	
		85		152			68		
824	9.824 0247		9.951 7537		0.048 2463	9.872 2709		176	
825	9.824 0332	85	9.951 7690	153	0.048 2310	9.872 2642	67	175	
826	9.824 0416	84	9.951 7842	152	0.048 2158	9.872 2574	68	174	
		85		153			68		
827	9.824 0501		9.951 7995		0.048 2005	9.872 2506		173	
828	9.824 0586	85	9.951 8148	153	0.048 1852	9.872 2438	68	172	
829	9.824 0670	84	9.951 8300	152	0.048 1700	9.872 2370	68	171	
		85		153			68		
.830	9.824 0755		9.951 8453		0.048 1547	9.872 2302		.170	
		85		152			67		
831	9.824 0840		9.951 8605		0.048 1395	9.872 2235		169	
832	9.824 0924	84	9.951 8758	153	0.048 1242	9.872 2167	68	168	
833	9.824 1009	85	9.951 8910	152	0.048 1090	9.872 2099	68	167	
		85		153			68		
834	9.824 1094		9.951 9063		0.048 0937	9.872 2031		166	
835	9.824 1178	84	9.951 9215	152	0.048 0785	9.872 1963	68	165	
836	9.824 1263	85	9.951 9368	153	0.048 0632	9.872 1895	68	164	
		85		152			68		
837	9.824 1348		9.951 9520		0.048 0480	9.872 1827		163	
838	9.824 1432	84	9.951 9673	153	0.048 0327	9.872 1760	67	162	
839	9.824 1517	85	9.951 9825	152	0.048 0175	9.872 1692	68	161	
		85		153			68		
.840	9.824 1602		9.951 9978		0.048 0022	9.872 1624		.160	
		84		152			68		
841	9.824 1686		9.952 0130		0.047 9870	9.872 1556		159	
842	9.824 1771	85	9.952 0283	153	0.047 9717	9.872 1488	68	158	
843	9.824 1856	85	9.952 0435	152	0.047 9565	9.872 1420	68	157	
		84		153			68		
844	9.824 1940		9.952 0588		0.047 9412	9.872 1352		156	
845	9.824 2025	85	9.952 0741	153	0.047 9259	9.872 1285	67	155	
846	9.824 2110	85	9.952 0893	152	0.047 9107	9.872 1217	68	154	
		84		153			68		
847	9.824 2194		9.952 1046		0.047 8954	9.872 1149		153	
848	9.824 2279	85	9.952 1198	152	0.047 8802	9.872 1081	68	152	
849	9.824 2364	85	9.952 1351	153	0.047 8649	9.872 1013	68	151	
		84		152			68		
.850	9.824 2448		9.952 1503		0.047 8497	9.872 0945		.150	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	85	84
1	8.5	8.4
2	17.0	16.8
3	25.5	25.2
4	34.0	33.6
5	42.5	42.0
6	51.0	50.4
7	59.5	58.8
8	68.0	67.2
9	76.5	75.6

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

	67
1	6.7
2	13.4
3	20.1
4	26.8
5	33.5
6	40.2
7	46.9
8	53.6
9	60.3

48°.200 — 48°.150

41°.850 — 41°.900

41°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.824 2448		9.952 1503		0.047 8497	9.872 0945		.150	
		85		153			68		
851	9.824 2533		9.952 1656		0.047 8344	9.872 0877		149	
852	9.824 2617	84	9.952 1808	152	0.047 8192	9.872 0809	68	148	
853	9.824 2702	85	9.952 1961	153	0.047 8039	9.872 0741	68	147	
		85		152			67		
854	9.824 2787		9.952 2113		0.047 7887	9.872 0674		146	
855	9.824 2871	84	9.952 2266	153	0.047 7734	9.872 0606	68	145	
856	9.824 2956	85	9.952 2418	152	0.047 7582	9.872 0538	68	144	
		85		153			68		
857	9.824 3041		9.952 2571		0.047 7429	9.872 0470		143	
858	9.824 3125	84	9.952 2723	152	0.047 7277	9.872 0402	68	142	
859	9.824 3210	85	9.952 2876	153	0.047 7124	9.872 0334	68	141	
		84		152			68		
.860	9.824 3294		9.952 3028		0.047 6972	9.872 0266		.140	
		85		153			68		
861	9.824 3379		9.952 3181		0.047 6819	9.872 0198		139	
862	9.824 3464	85	9.952 3333	152	0.047 6667	9.872 0130	68	138	
863	9.824 3548	84	9.952 3486	153	0.047 6514	9.872 0062	68	137	
		85		152			68		
864	9.824 3633		9.952 3638		0.047 6362	9.871 9994		136	
865	9.824 3717	84	9.952 3791	153	0.047 6209	9.871 9926	68	135	
866	9.824 3802	85	9.952 3943	152	0.047 6057	9.871 9859	67	134	
		84		153			68		
867	9.824 3886		9.952 4096		0.047 5904	9.871 9791		133	
868	9.824 3971	85	9.952 4248	152	0.047 5752	9.871 9723	68	132	
869	9.824 4056	85	9.952 4401	153	0.047 5599	9.871 9655	68	131	
		84		152			68		
.870	9.824 4140		9.952 4553		0.047 5447	9.871 9587		.130	
		85		153			68		
871	9.824 4225		9.952 4706		0.047 5294	9.871 9519		129	
872	9.824 4309	84	9.952 4858	152	0.047 5142	9.871 9451	68	128	
873	9.824 4394	85	9.952 5011	153	0.047 4989	9.871 9383	68	127	
		84		152			68		
874	9.824 4478		9.952 5163		0.047 4837	9.871 9315		126	
875	9.824 4563	85	9.952 5316	153	0.047 4684	9.871 9247	68	125	
876	9.824 4648	85	9.952 5468	152	0.047 4532	9.871 9179	68	124	
		84		153			68		
877	9.824 4732		9.952 5621		0.047 4379	9.871 9111		123	
878	9.824 4817	85	9.952 5773	152	0.047 4227	9.871 9043	68	122	
879	9.824 4901	84	9.952 5926	153	0.047 4074	9.871 8975	68	121	
		85		152			68		
.880	9.824 4986		9.952 6078		0.047 3922	9.871 8907		.120	
		84		153			68		
881	9.824 5070		9.952 6231		0.047 3769	9.871 8839		119	
882	9.824 5155	85	9.952 6383	152	0.047 3617	9.871 8771	68	118	
883	9.824 5239	84	9.952 6536	153	0.047 3464	9.871 8703	68	117	
		85		152			68		
884	9.824 5324		9.952 6688		0.047 3312	9.871 8635		116	
885	9.824 5408	84	9.952 6841	153	0.047 3159	9.871 8567	68	115	
886	9.824 5493	85	9.952 6993	152	0.047 3007	9.871 8499	68	114	
		84		153			68		
887	9.824 5577		9.952 7146		0.047 2854	9.871 8431		113	
888	9.824 5662	85	9.952 7298	152	0.047 2702	9.871 8364	67	112	
889	9.824 5746	84	9.952 7451	153	0.047 2549	9.871 8296	68	111	
		85		152			68		
.890	9.824 5831		9.952 7603		0.047 2397	9.871 8228		.110	
		84		153			68		
891	9.824 5915		9.952 7756		0.047 2244	9.871 8160		109	
892	9.824 6000	85	9.952 7908	152	0.047 2092	9.871 8092	68	108	
893	9.824 6084	84	9.952 8061	153	0.047 1939	9.871 8024	68	107	
		85		152			68		
894	9.824 6169		9.952 8213		0.047 1787	9.871 7956		106	
895	9.824 6253	84	9.952 8366	153	0.047 1634	9.871 7888	68	105	
896	9.824 6338	85	9.952 8518	152	0.047 1482	9.871 7820	68	104	
		84		153			68		
897	9.824 6422		9.952 8671		0.047 1329	9.871 7752		103	
898	9.824 6507	85	9.952 8823	152	0.047 1177	9.871 7684	68	102	
899	9.824 6591	84	9.952 8976	153	0.047 1024	9.871 7616	68	101	
		85		152			68		
.900	9.824 6676		9.952 9128		0.047 0872	9.871 7548		.100	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	85	84
1	8.5	8.4
2	17.0	16.8
3	25.5	25.2
4	34.0	33.6
5	42.5	42.0
6	51.0	50.4
7	59.5	58.8
8	68.0	67.2
9	76.5	75.6

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

	67
1	6.7
2	13.4
3	20.1
4	26.8
5	33.5
6	40.2
7	46.9
8	53.6
9	60.3

48°.150 — 48°.100

41°.900 — 41°.950

41°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.824 6676		9.952 9128		0.047 0872	9.871 7548		.100	
		84		153			68		
901	9.824 6760		9.952 9281		0.047 0719	9.871 7480		099	
902	9.824 6845	85	9.952 9433	152	0.047 0567	9.871 7412	68	098	
903	9.824 6929	84	9.952 9586	153	0.047 0414	9.871 7344	68	097	
		85		152			68		
904	9.824 7014		9.952 9738		0.047 0262	9.871 7276		096	
905	9.824 7098	84	9.952 9891	153	0.047 0109	9.871 7207	69	095	
906	9.824 7183	85	9.953 0043	152	0.046 9957	9.871 7139	68	094	
		84		153			68		
907	9.824 7267		9.953 0196		0.046 9804	9.871 7071		093	
908	9.824 7352	85	9.953 0348	152	0.046 9652	9.871 7003	68	092	
909	9.824 7436	84	9.953 0501	153	0.046 9499	9.871 6935	68	091	
		85		152			68		
.910	9.824 7521		9.953 0653		0.046 9347	9.871 6867		.090	
		84		153			68		
911	9.824 7605		9.953 0806		0.046 9194	9.871 6799		089	
912	9.824 7689	84	9.953 0958	152	0.046 9042	9.871 6731	68	088	
913	9.824 7774	85	9.953 1111	153	0.046 8889	9.871 6663	68	087	
		84		152			68		
914	9.824 7858		9.953 1263		0.046 8737	9.871 6595		086	
915	9.824 7943	85	9.953 1416	153	0.046 8584	9.871 6527	68	085	
916	9.824 8027	84	9.953 1568	152	0.046 8432	9.871 6459	68	084	
		85		153			68		
917	9.824 8112		9.953 1721		0.046 8279	9.871 6391		083	
918	9.824 8196	84	9.953 1873	152	0.046 8127	9.871 6323	68	082	
919	9.824 8280	84	9.953 2025	152	0.046 7975	9.871 6255	68	081	
		85		153			68		
.920	9.824 8365		9.953 2178		0.046 7822	9.871 6187		.080	
		84		152			68		
921	9.824 8449		9.953 2330		0.046 7670	9.871 6119		079	
922	9.824 8534	85	9.953 2483	153	0.046 7517	9.871 6051	68	078	
923	9.824 8618	84	9.953 2635	152	0.046 7365	9.871 5983	68	077	
		85		153			68		
924	9.824 8703		9.953 2788		0.046 7212	9.871 5915		076	
925	9.824 8787	84	9.953 2940	152	0.046 7060	9.871 5847	68	075	
926	9.824 8871	84	9.953 3093	153	0.046 6907	9.871 5778	69	074	
		85		152			68		
927	9.824 8956		9.953 3245		0.046 6755	9.871 5710		073	
928	9.824 9040	84	9.953 3398	153	0.046 6602	9.871 5642	68	072	
929	9.824 9125	85	9.953 3550	152	0.046 6450	9.871 5574	68	071	
		84		153			68		
.930	9.824 9209		9.953 3703		0.046 6297	9.871 5506		.070	
		84		152			68		
931	9.824 9293		9.953 3855		0.046 6145	9.871 5438		069	
932	9.824 9378	85	9.953 4008	153	0.046 5992	9.871 5370	68	068	
933	9.824 9462	84	9.953 4160	152	0.046 5840	9.871 5302	68	067	
		84		153			68		
934	9.824 9546		9.953 4313		0.046 5687	9.871 5234		066	
935	9.824 9631	85	9.953 4465	152	0.046 5535	9.871 5166	68	065	
936	9.824 9715	84	9.953 4618	153	0.046 5382	9.871 5098	68	064	
		85		152			68		
937	9.824 9800		9.953 4770		0.046 5230	9.871 5030		063	
938	9.824 9884	84	9.953 4922	152	0.046 5078	9.871 4961	69	062	
939	9.824 9968	84	9.953 5075	153	0.046 4925	9.871 4893	68	061	
		85		152			68		
.940	9.825 0053		9.953 5227		0.046 4773	9.871 4825		.060	
		84		153			68		
941	9.825 0137		9.953 5380		0.046 4620	9.871 4757		059	
942	9.825 0221	84	9.953 5532	152	0.046 4468	9.871 4689	68	058	
943	9.825 0306	85	9.953 5685	153	0.046 4315	9.871 4621	68	057	
		84		152			68		
944	9.825 0390		9.953 5837		0.046 4163	9.871 4553		056	
945	9.825 0474	84	9.953 5990	153	0.046 4010	9.871 4485	68	055	
946	9.825 0559	85	9.953 6142	152	0.046 3858	9.871 4417	68	054	
		84		153			69		
947	9.825 0643		9.953 6295		0.046 3705	9.871 4348		053	
948	9.825 0727	84	9.953 6447	152	0.046 3553	9.871 4280	68	052	
949	9.825 0812	85	9.953 6600	153	0.046 3400	9.871 4212	68	051	
		84		152			68		
.950	9.825 0896		9.953 6752		0.046 3248	9.871 4144		.050	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	85	84
1	8.5	8.4
2	17.0	16.8
3	25.5	25.2
4	34.0	33.6
5	42.5	42.0
6	51.0	50.4
7	59.5	58.8
8	68.0	67.2
9	76.5	75.6

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

48°.100 — 48°.050

41°.950 — 42°.000

41°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.825 0896		9.953 6752		0.046 3248	9.871 4144		.050	
		84		153			68		
951	9.825 0980		9.953 6905		0.046 3095	9.871 4076		049	
952	9.825 1065	85	9.953 7057	152	0.046 2943	9.871 4008	68	048	
953	9.825 1149	84	9.953 7209	152	0.046 2791	9.871 3940	68	047	
		84		153			68		
954	9.825 1233		9.953 7362		0.046 2638	9.871 3872		046	
955	9.825 1318	85	9.953 7514	152	0.046 2486	9.871 3803	69	045	
956	9.825 1402	84	9.953 7667	153	0.046 2333	9.871 3735	68	044	
		84		152			68		
957	9.825 1486		9.953 7819		0.046 2181	9.871 3667		043	
958	9.825 1571	85	9.953 7972	153	0.046 2028	9.871 3599	68	042	
959	9.825 1655	84	9.953 8124	152	0.046 1876	9.871 3531	68	041	
		84		153			68		
.960	9.825 1739		9.953 8277		0.046 1723	9.871 3463		.040	
		85		152			69		
961	9.825 1824		9.953 8429		0.046 1571	9.871 3394		039	
962	9.825 1908	84	9.953 8582	153	0.046 1418	9.871 3326	68	038	
963	9.825 1992	84	9.953 8734	152	0.046 1266	9.871 3258	68	037	
		84		152			68		
964	9.825 2076		9.953 8886		0.046 1114	9.871 3190		036	
965	9.825 2161	85	9.953 9039	153	0.046 0961	9.871 3122	68	035	
966	9.825 2245	84	9.953 9191	152	0.046 0809	9.871 3054	68	034	
		84		153			68		
967	9.825 2329		9.953 9344		0.046 0656	9.871 2986		033	
968	9.825 2414	85	9.953 9496	152	0.046 0504	9.871 2917	69	032	
969	9.825 2498	84	9.953 9649	153	0.046 0351	9.871 2849	68	031	
		84		152			68		
.970	9.825 2582		9.953 9801		0.046 0199	9.871 2781		.030	
		84		153			68		
971	9.825 2666		9.953 9954		0.046 0046	9.871 2713		029	
972	9.825 2751	85	9.954 0106	152	0.045 9894	9.871 2645	68	028	
973	9.825 2835	84	9.954 0258	152	0.045 9742	9.871 2576	69	027	
		84		153			68		
974	9.825 2919		9.954 0411		0.045 9589	9.871 2508		026	
975	9.825 3003	84	9.954 0563	152	0.045 9437	9.871 2440	68	025	
976	9.825 3088	85	9.954 0716	153	0.045 9284	9.871 2372	68	024	
		84		152			68		
977	9.825 3172		9.954 0868		0.045 9132	9.871 2304		023	
978	9.825 3256	84	9.954 1021	153	0.045 8979	9.871 2235	69	022	
979	9.825 3340	84	9.954 1173	152	0.045 8827	9.871 2167	68	021	
		85		153			68		
.980	9.825 3425		9.954 1326		0.045 8674	9.871 2099		.020	
		84		152			68		
981	9.825 3509		9.954 1478		0.045 8522	9.871 2031		019	
982	9.825 3593	84	9.954 1630	152	0.045 8370	9.871 1963	68	018	
983	9.825 3677	84	9.954 1783	153	0.045 8217	9.871 1894	69	017	
		85		152			68		
984	9.825 3762		9.954 1935		0.045 8065	9.871 1826		016	
985	9.825 3846	84	9.954 2088	153	0.045 7912	9.871 1758	68	015	
986	9.825 3930	84	9.954 2240	152	0.045 7760	9.871 1690	68	014	
		84		153			68		
987	9.825 4014		9.954 2393		0.045 7607	9.871 1622		013	
988	9.825 4099	85	9.954 2545	152	0.045 7455	9.871 1553	69	012	
989	9.825 4183	84	9.954 2698	153	0.045 7302	9.871 1485	68	011	
		84		152			68		
.990	9.825 4267		9.954 2850		0.045 7150	9.871 1417		.010	
		84		152			68		
991	9.825 4351		9.954 3002		0.045 6998	9.871 1349		009	
992	9.825 4435	84	9.954 3155	153	0.045 6845	9.871 1281	68	008	
993	9.825 4520	85	9.954 3307	152	0.045 6693	9.871 1212	69	007	
		84		153			68		
994	9.825 4604		9.954 3460		0.045 6540	9.871 1144		006	
995	9.825 4688	84	9.954 3612	152	0.045 6388	9.871 1076	68	005	
996	9.825 4772	84	9.954 3765	153	0.045 6235	9.871 1008	68	004	
		84		152			69		
997	9.825 4856		9.954 3917		0.045 6083	9.871 0939		003	
998	9.825 4941	85	9.954 4070	153	0.045 5930	9.871 0871	68	002	
999	9.825 5025	84	9.954 4222	152	0.045 5778	9.871 0803	68	001	
		84		152			68		
*.000	9.825 5109		9.954 4374		0.045 5626	9.871 0735		.000	
	cos	d	cotg	d	tang	sin	d	48°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	85	84
1	8.5	8.4
2	17.0	16.8
3	25.5	25.2
4	34.0	33.6
5	42.5	42.0
6	51.0	50.4
7	59.5	58.8
8	68.0	67.2
9	76.5	75.6

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

48°.050 — 48°.000

42°.000 — 42°.050

42°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.825 5109		9.954 4374		0.045 5626	9.871 0735		*000	
		84		153			69		
001	9.825 5193		9.954 4527		0.045 5473	9.871 0666		999	
002	9.825 5277	84	9.954 4679	152	0.045 5321	9.871 0598	68	998	
003	9.825 5361	84	9.954 4832	153	0.045 5168	9.871 0530	68	997	
		85		152			68		
004	9.825 5446		9.954 4984		0.045 5016	9.871 0462		996	
005	9.825 5530	84	9.954 5137	153	0.045 4863	9.871 0393	69	995	
006	9.825 5614	84	9.954 5289	152	0.045 4711	9.871 0325	68	994	
		84		152			68		
007	9.825 5698		9.954 5441		0.045 4559	9.871 0257		993	
008	9.825 5782	84	9.954 5594	153	0.045 4406	9.871 0189	68	992	
009	9.825 5866	84	9.954 5746	152	0.045 4254	9.871 0120	69	991	
		85		153			68		
.010	9.825 5951		9.954 5899		0.045 4101	9.871 0052		.990	
		84		152			68		
011	9.825 6035		9.954 6051		0.045 3949	9.870 9984		989	
012	9.825 6119	84	9.954 6204	153	0.045 3796	9.870 9915	69	988	
013	9.825 6203	84	9.954 6356	152	0.045 3644	9.870 9847	68	987	
		84		152			68		
014	9.825 6287		9.954 6508		0.045 3492	9.870 9779		986	
015	9.825 6371	84	9.954 6661	153	0.045 3339	9.870 9711	68	985	
016	9.825 6456	85	9.954 6813	152	0.045 3187	9.870 9642	69	984	
		84		153			68		
017	9.825 6540		9.954 6966		0.045 3034	9.870 9574		983	
018	9.825 6624	84	9.954 7118	152	0.045 2882	9.870 9506	68	982	
019	9.825 6708	84	9.954 7270	152	0.045 2730	9.870 9437	69	981	
		84		153			68		
.020	9.825 6792		9.954 7423		0.045 2577	9.870 9369		.980	
		84		152			68		
021	9.825 6876		9.954 7575		0.045 2425	9.870 9301		979	
022	9.825 6960	84	9.954 7728	153	0.045 2272	9.870 9233	68	978	
023	9.825 7044	84	9.954 7880	152	0.045 2120	9.870 9164	69	977	
		84		153			68		
024	9.825 7128		9.954 8033		0.045 1967	9.870 9096		976	
025	9.825 7213	85	9.954 8185	152	0.045 1815	9.870 9028	68	975	
026	9.825 7297	84	9.954 8337	152	0.045 1663	9.870 8959	69	974	
		84		153			68		
027	9.825 7381		9.954 8490		0.045 1510	9.870 8891		973	
028	9.825 7465	84	9.954 8642	152	0.045 1358	9.870 8823	68	972	
029	9.825 7549	84	9.954 8795	153	0.045 1205	9.870 8754	69	971	
		84		152			68		
.030	9.825 7633		9.954 8947		0.045 1053	9.870 8686		.970	
		84		153			68		
031	9.825 7717		9.954 9100		0.045 0900	9.870 8618		969	
032	9.825 7801	84	9.954 9252	152	0.045 0748	9.870 8549	69	968	
033	9.825 7885	84	9.954 9404	152	0.045 0596	9.870 8481	68	967	
		84		153			68		
034	9.825 7969		9.954 9557		0.045 0443	9.870 8413		966	
035	9.825 8054	85	9.954 9709	152	0.045 0291	9.870 8344	69	965	
036	9.825 8138	84	9.954 9862	153	0.045 0138	9.870 8276	68	964	
		84		152			68		
037	9.825 8222		9.955 0014		0.044 9986	9.870 8208		963	
038	9.825 8306	84	9.955 0166	152	0.044 9834	9.870 8139	69	962	
039	9.825 8390	84	9.955 0319	153	0.044 9681	9.870 8071	68	961	
		84		152			68		
.040	9.825 8474		9.955 0471		0.044 9529	9.870 8003		.960	
		84		153			69		
041	9.825 8558		9.955 0624		0.044 9376	9.870 7934		959	
042	9.825 8642	84	9.955 0776	152	0.044 9224	9.870 7866	68	958	
043	9.825 8726	84	9.955 0928	152	0.044 9072	9.870 7798	68	957	
		84		153			69		
044	9.825 8810		9.955 1081		0.044 8919	9.870 7729		956	
045	9.825 8894	84	9.955 1233	152	0.044 8767	9.870 7661	68	955	
046	9.825 8978	84	9.955 1386	153	0.044 8614	9.870 7593	68	954	
		84		152			69		
047	9.825 9062		9.955 1538		0.044 8462	9.870 7524		953	
048	9.825 9146	84	9.955 1690	152	0.044 8310	9.870 7456	68	952	
049	9.825 9230	84	9.955 1843	153	0.044 8157	9.870 7387	69	951	
		84		152			68		
.050	9.825 9314		9.955 1995		0.044 8005	9.870 7319		.950	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	85	84
1	8.5	8.4
2	17.0	16.8
3	25.5	25.2
4	34.0	33.6
5	42.5	42.0
6	51.0	50.4
7	59.5	58.8
8	68.0	67.2
9	76.5	75.6

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

48°.000 — 47°.950

$42^\circ.050 - 42^\circ.100$

42°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.825 9314		9.955 1995		0.044 8005	9.870 7319		.950	
		84		153			68		
051	9.825 9398		9.955 2148		0.044 7852	9.870 7251		949	
052	9.825 9482	84	9.955 2300	152	0.044 7700	9.870 7182	69	948	
053	9.825 9567	85	9.955 2453	153	0.044 7547	9.870 7114	68	947	
		84		152			68		
054	9.825 9651		9.955 2605		0.044 7395	9.870 7046		946	
055	9.825 9735	84	9.955 2757	152	0.044 7243	9.870 6977	69	945	
056	9.825 9819	84	9.955 2910	153	0.044 7090	9.870 6909	68	944	
		84		152			69		
057	9.825 9903		9.955 3062		0.044 6938	9.870 6840		943	
058	9.825 9987	84	9.955 3215	153	0.044 6785	9.870 6772	68	942	
059	9.826 0071	84	9.955 3367	152	0.044 6633	9.870 6704	68	941	
		84		152			69		
.060	9.826 0155		9.955 3519		0.044 6481	9.870 6635		.940	
		84		153			68		
061	9.826 0239		9.955 3672		0.044 6328	9.870 6567		939	
062	9.826 0323	84	9.955 3824	152	0.044 6176	9.870 6499	68	938	
063	9.826 0407	84	9.955 3977	153	0.044 6023	9.870 6430	69	937	
		84		152			68		
064	9.826 0491		9.955 4129		0.044 5871	9.870 6362		936	
065	9.826 0575	84	9.955 4281	152	0.044 5719	9.870 6293	69	935	
066	9.826 0659	84	9.955 4434	153	0.044 5566	9.870 6225	68	934	
		84		152			69		
067	9.826 0743		9.955 4586		0.044 5414	9.870 6156		933	
068	9.826 0827	84	9.955 4738	152	0.044 5262	9.870 6088	68	932	
069	9.826 0911	84	9.955 4891	153	0.044 5109	9.870 6020	68	931	
		84		152			69		
.070	9.826 0995		9.955 5043		0.044 4957	9.870 5951		.930	
		84		153			68		
071	9.826 1079		9.955 5196		0.044 4804	9.870 5883		929	
072	9.826 1162	83	9.955 5348	152	0.044 4652	9.870 5814	69	928	
073	9.826 1246	84	9.955 5500	152	0.044 4500	9.870 5746	68	927	
		84		153			68		
074	9.826 1330		9.955 5653		0.044 4347	9.870 5678		926	
075	9.826 1414	84	9.955 5805	152	0.044 4195	9.870 5609	69	925	
076	9.826 1498	84	9.955 5958	153	0.044 4042	9.870 5541	68	924	
		84		152			69		
077	9.826 1582		9.955 6110		0.044 3890	9.870 5472		923	
078	9.826 1666	84	9.955 6262	152	0.044 3738	9.870 5404	68	922	
079	9.826 1750	84	9.955 6415	153	0.044 3585	9.870 5335	69	921	
		84		152			68		
.080	9.826 1834		9.955 6567		0.044 3433	9.870 5267		.920	
		84		153			68		
081	9.826 1918		9.955 6720		0.044 3280	9.870 5199		919	
082	9.826 2002	84	9.955 6872	152	0.044 3128	9.870 5130	69	918	
083	9.826 2086	84	9.955 7024	152	0.044 2976	9.870 5062	68	917	
		84		153			69		
084	9.826 2170		9.955 7177		0.044 2823	9.870 4993		916	
085	9.826 2254	84	9.955 7329	152	0.044 2671	9.870 4925	68	915	
086	9.826 2338	84	9.955 7482	153	0.044 2518	9.870 4856	69	914	
		84		152			68		
087	9.826 2422		9.955 7634		0.044 2366	9.870 4788		913	
088	9.826 2506	84	9.955 7786	152	0.044 2214	9.870 4719	69	912	
089	9.826 2590	84	9.955 7939	153	0.044 2061	9.870 4651	68	911	
		83		152			69		
.090	9.826 2673		9.955 8091		0.044 1909	9.870 4582		.910	
		84		152			68		
091	9.826 2757		9.955 8243		0.044 1757	9.870 4514		909	
092	9.826 2841	84	9.955 8396	153	0.044 1604	9.870 4445	69	908	
093	9.826 2925	84	9.955 8548	152	0.044 1452	9.870 4377	68	907	
		84		153			68		
094	9.826 3009		9.955 8701		0.044 1299	9.870 4309		906	
095	9.826 3093	84	9.955 8853	152	0.044 1147	9.870 4240	69	905	
096	9.826 3177	84	9.955 9005	152	0.044 0995	9.870 4172	68	904	
		84		153			69		
097	9.826 3261		9.955 9158		0.044 0842	9.870 4103		903	
098	9.826 3345	84	9.955 9310	152	0.044 0690	9.870 4035	68	902	
099	9.826 3429	84	9.955 9462	152	0.044 0538	9.870 3966	69	901	
		83		153			68		
.100	9.826 3512		9.955 9615		0.044 0385	9.870 3898		.900	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	85	84
1	8.5	8.4
2	17.0	16.8
3	25.5	25.2
4	34.0	33.6
5	42.5	42.0
6	51.0	50.4
7	59.5	58.8
8	68.0	67.2
9	76.5	75.6

	83
1	8.3
2	16.6
3	24.9
4	33.2
5	41.5
6	49.8
7	58.1
8	66.4
9	74.7

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

$47^\circ.950 - 47^\circ.900$

42°.100 — 42°.150

42°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.826 3512		9.955 9615		0.044 0385	9.870 3898		.900	
		84		152			69		
101	9.826 3596		9.955 9767		0.044 0233	9.870 3829		899	
102	9.826 3680	84	9.955 9920	153	0.044 0080	9.870 3761	68	898	
103	9.826 3764	84	9.956 0072	152	0.043 9928	9.870 3692	69	897	
		84		152			68		
104	9.826 3848		9.956 0224		0.043 9776	9.870 3624		896	
105	9.826 3932	84	9.956 0377	153	0.043 9623	9.870 3555	69	895	
106	9.826 4016	84	9.956 0529	152	0.043 9471	9.870 3487	68	894	
		84		152			69		
107	9.826 4100		9.956 0681		0.043 9319	9.870 3418		893	
108	9.826 4184	84	9.956 0834	153	0.043 9166	9.870 3350	68	892	
109	9.826 4267	83	9.956 0986	152	0.043 9014	9.870 3281	69	891	
		84		153			68		
.110	9.826 4351		9.956 1139		0.043 8861	9.870 3213		.890	
		84		152			69		
111	9.826 4435		9.956 1291		0.043 8709	9.870 3144		889	
112	9.826 4519	84	9.956 1443	152	0.043 8557	9.870 3076	68	888	
113	9.826 4603	84	9.956 1596	153	0.043 8404	9.870 3007	69	887	
		84		152			68		
114	9.826 4687		9.956 1748		0.043 8252	9.870 2939		886	
115	9.826 4770	83	9.956 1900	152	0.043 8100	9.870 2870	69	885	
116	9.826 4854	84	9.956 2053	153	0.043 7947	9.870 2802	68	884	
		84		152			69		
117	9.826 4938		9.956 2205		0.043 7795	9.870 2733		883	
118	9.826 5022	84	9.956 2358	153	0.043 7642	9.870 2664	69	882	
119	9.826 5106	84	9.956 2510	152	0.043 7490	9.870 2596	68	881	
		84		152			69		
.120	9.826 5190		9.956 2662		0.043 7338	9.870 2527		.880	
		83		153			68		
121	9.826 5273		9.956 2815		0.043 7185	9.870 2459		879	
122	9.826 5357	84	9.956 2967	152	0.043 7033	9.870 2390	69	878	
123	9.826 5441	84	9.956 3119	152	0.043 6881	9.870 2322	68	877	
		84		153			69		
124	9.826 5525		9.956 3272		0.043 6728	9.870 2253		876	
125	9.826 5609	84	9.956 3424	152	0.043 6576	9.870 2185	68	875	
126	9.826 5693	84	9.956 3576	152	0.043 6424	9.870 2116	69	874	
		83		153			68		
127	9.826 5776		9.956 3729		0.043 6271	9.870 2048		873	
128	9.826 5860	84	9.956 3881	152	0.043 6119	9.870 1979	69	872	
129	9.826 5944	84	9.956 4034	153	0.043 5966	9.870 1910	69	871	
		84		152			68		
.130	9.826 6028		9.956 4186		0.043 5814	9.870 1842		.870	
		84		152			69		
131	9.826 6112		9.956 4338		0.043 5662	9.870 1773		869	
132	9.826 6195	83	9.956 4491	153	0.043 5509	9.870 1705	68	868	
133	9.826 6279	84	9.956 4643	152	0.043 5357	9.870 1636	69	867	
		84		152			68		
134	9.826 6363		9.956 4795		0.043 5205	9.870 1568		866	
135	9.826 6447	84	9.956 4948	153	0.043 5052	9.870 1499	69	865	
136	9.826 6531	84	9.956 5100	152	0.043 4900	9.870 1430	69	864	
		83		152			68		
137	9.826 6614		9.956 5252		0.043 4748	9.870 1362		863	
138	9.826 6698	84	9.956 5405	153	0.043 4595	9.870 1293	69	862	
139	9.826 6782	84	9.956 5557	152	0.043 4443	9.870 1225	68	861	
		84		153			69		
.140	9.826 6866		9.956 5710		0.043 4290	9.870 1156		.860	
		83		152			68		
141	9.826 6949		9.956 5862		0.043 4138	9.870 1088		859	
142	9.826 7033	84	9.956 6014	152	0.043 3986	9.870 1019	69	858	
143	9.826 7117	84	9.956 6167	153	0.043 3833	9.870 0950	69	857	
		84		152			68		
144	9.826 7201		9.956 6319		0.043 3681	9.870 0882		856	
145	9.826 7284	83	9.956 6471	152	0.043 3529	9.870 0813	69	855	
146	9.826 7368	84	9.956 6624	153	0.043 3376	9.870 0745	68	854	
		84		152			69		
147	9.826 7452		9.956 6776		0.043 3224	9.870 0676		853	
148	9.826 7536	84	9.956 6928	152	0.043 3072	9.870 0607	69	852	
149	9.826 7619	83	9.956 7081	153	0.043 2919	9.870 0539	68	851	
		84		152			69		
.150	9.826 7703		9.956 7233		0.043 2767	9.870 0470		.850	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	84	83
1	8.4	8.3
2	16.8	16.6
3	25.2	24.9
4	33.6	33.2
5	42.0	41.5
6	50.4	49.8
7	58.8	58.1
8	67.2	66.4
9	75.6	74.7

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

47°.900 — 47°.850

42°.150 — 42°.200

42°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.826 7703		9.956 7233		0.043 2767	9.870 0470		.850	
		84		152			68		
151	9.826 7787	84	9.956 7385	153	0.043 2615	9.870 0402	69	849	
152	9.826 7871	83	9.956 7538	152	0.043 2462	9.870 0333	69	848	
153	9.826 7954	84	9.956 7690	152	0.043 2310	9.870 0264	68	847	
154	9.826 8038	84	9.956 7842	153	0.043 2158	9.870 0196	69	846	
155	9.826 8122	84	9.956 7995	152	0.043 2005	9.870 0127	69	845	
156	9.826 8206	83	9.956 8147	152	0.043 1853	9.870 0058	68	844	
157	9.826 8289	84	9.956 8299	153	0.043 1701	9.869 9990	69	843	
158	9.826 8373	84	9.956 8452	152	0.043 1548	9.869 9921	68	842	
159	9.826 8457	83	9.956 8604	153	0.043 1396	9.869 9853	69	841	
.160	9.826 8540	84	9.956 8757	152	0.043 1243	9.869 9784	69	.840	
161	9.826 8624	84	9.956 8909	152	0.043 1091	9.869 9715	68	839	
162	9.826 8708	84	9.956 9061	153	0.043 0939	9.869 9647	69	838	
163	9.826 8792	83	9.956 9214	152	0.043 0786	9.869 9578	69	837	
164	9.826 8875	84	9.956 9366	152	0.043 0634	9.869 9509	68	836	
165	9.826 8959	84	9.956 9518	153	0.043 0482	9.869 9441	69	835	
166	9.826 9043	83	9.956 9671	152	0.043 0329	9.869 9372	69	834	
167	9.826 9126	84	9.956 9823	152	0.043 0177	9.869 9303	68	833	
168	9.826 9210	84	9.956 9975	153	0.043 0025	9.869 9235	69	832	
169	9.826 9294	83	9.957 0128	152	0.042 9872	9.869 9166	69	831	
.170	9.826 9377	84	9.957 0280	152	0.042 9720	9.869 9097	68	.830	
171	9.826 9461	84	9.957 0432	153	0.042 9568	9.869 9029	69	829	
172	9.826 9545	83	9.957 0585	152	0.042 9415	9.869 8960	68	828	
173	9.826 9628	84	9.957 0737	152	0.042 9263	9.869 8892	69	827	
174	9.826 9712	84	9.957 0889	153	0.042 9111	9.869 8823	69	826	
175	9.826 9796	83	9.957 1042	152	0.042 8958	9.869 8754	68	825	
176	9.826 9879	84	9.957 1194	152	0.042 8806	9.869 8686	69	824	
177	9.826 9963	84	9.957 1346	153	0.042 8654	9.869 8617	69	823	
178	9.827 0047	83	9.957 1499	152	0.042 8501	9.869 8548	69	822	
179	9.827 0130	84	9.957 1651	152	0.042 8349	9.869 8479	68	821	
.180	9.827 0214	84	9.957 1803	153	0.042 8197	9.869 8411	69	.820	
181	9.827 0298	83	9.957 1956	152	0.042 8044	9.869 8342	69	819	
182	9.827 0381	84	9.957 2108	152	0.042 7892	9.869 8273	68	818	
183	9.827 0465	84	9.957 2260	153	0.042 7740	9.869 8205	69	817	
184	9.827 0549	83	9.957 2413	152	0.042 7587	9.869 8136	69	816	
185	9.827 0632	84	9.957 2565	152	0.042 7435	9.869 8067	68	815	
186	9.827 0716	84	9.957 2717	153	0.042 7283	9.869 7999	69	814	
187	9.827 0800	83	9.957 2870	152	0.042 7130	9.869 7930	69	813	
188	9.827 0883	84	9.957 3022	152	0.042 6978	9.869 7861	68	812	
189	9.827 0967	84	9.957 3174	153	0.042 6826	9.869 7793	69	811	
.190	9.827 1051	83	9.957 3327	152	0.042 6673	9.869 7724	69	.810	
191	9.827 1134	84	9.957 3479	152	0.042 6521	9.869 7655	69	809	
192	9.827 1218	83	9.957 3631	153	0.042 6369	9.869 7586	68	808	
193	9.827 1301	84	9.957 3784	152	0.042 6216	9.869 7518	69	807	
194	9.827 1385	84	9.957 3936	152	0.042 6064	9.869 7449	69	806	
195	9.827 1469	83	9.957 4088	153	0.042 5912	9.869 7380	68	805	
196	9.827 1552	84	9.957 4241	152	0.042 5759	9.869 7312	69	804	
197	9.827 1636	83	9.957 4393	152	0.042 5607	9.869 7243	69	803	
198	9.827 1719	84	9.957 4545	153	0.042 5455	9.869 7174	69	802	
199	9.827 1803	84	9.957 4698	152	0.042 5302	9.869 7105	68	801	
.200	9.827 1887		9.957 4850		0.042 5150	9.869 7037		.800	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	84	83
1	8.4	8.3
2	16.8	16.6
3	25.2	24.9
4	33.6	33.2
5	42.0	41.5
6	50.4	49.8
7	58.8	58.1
8	67.2	66.4
9	75.6	74.7

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

47°.850 — 47°.800

42°.200 — 42°.250

42°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.827 1887		9.957 4850		0.042 5150	9.869 7037		**.800**	
		83		152			69		
201	9.827 1970		9.957 5002		0.042 4998	9.869 6968		799	
		84		153			69		
202	9.827 2054		9.957 5155		0.042 4845	9.869 6899		798	
		83		152			69		
203	9.827 2137		9.957 5307		0.042 4693	9.869 6830		797	
		84		152			68		
204	9.827 2221		9.957 5459		0.042 4541	9.869 6762		796	
		84		153			69		
205	9.827 2305		9.957 5612		0.042 4388	9.869 6693		795	
		83		152			69		
206	9.827 2388		9.957 5764		0.042 4236	9.869 6624		794	
		84		152			68		
207	9.827 2472		9.957 5916		0.042 4084	9.869 6556		793	
		83		152			69		
208	9.827 2555		9.957 6068		0.042 3932	9.869 6487		792	
		84		153			69		
209	9.827 2639		9.957 6221		0.042 3779	9.869 6418		791	
		83		152			69		
.210	9.827 2722		9.957 6373		0.042 3627	9.869 6349		**.790**	
		84		152			68		
211	9.827 2806		9.957 6525		0.042 3475	9.869 6281		789	
		84		153			69		
212	9.827 2890		9.957 6678		0.042 3322	9.869 6212		788	
		83		152			69		
213	9.827 2973		9.957 6830		0.042 3170	9.869 6143		787	
		84		152			69		
214	9.827 3057		9.957 6982		0.042 3018	9.869 6074		786	
		83		153			69		
215	9.827 3140		9.957 7135		0.042 2865	9.869 6005		785	
		84		152			68		
216	9.827 3224		9.957 7287		0.042 2713	9.869 5937		784	
		83		152			69		
217	9.827 3307		9.957 7439		0.042 2561	9.869 5868		783	
		84		153			69		
218	9.827 3391		9.957 7592		0.042 2408	9.869 5799		782	
		83		152			69		
219	9.827 3474		9.957 7744		0.042 2256	9.869 5730		781	
		84		152			68		
.220	9.827 3558		9.957 7896		0.042 2104	9.869 5662		**.780**	
		83		153			69		
221	9.827 3641		9.957 8049		0.042 1951	9.869 5593		779	
		84		152			69		
222	9.827 3725		9.957 8201		0.042 1799	9.869 5524		778	
		83		152			69		
223	9.827 3808		9.957 8353		0.042 1647	9.869 5455		777	
		84		153			69		
224	9.827 3892		9.957 8506		0.042 1494	9.869 5386		776	
		84		152			68		
225	9.827 3976		9.957 8658		0.042 1342	9.869 5318		775	
		83		152			69		
226	9.827 4059		9.957 8810		0.042 1190	9.869 5249		774	
		84		152			69		
227	9.827 4143		9.957 8962		0.042 1038	9.869 5180		773	
		83		153			69		
228	9.827 4226		9.957 9115		0.042 0885	9.869 5111		772	
		84		152			69		
229	9.827 4310		9.957 9267		0.042 0733	9.869 5042		771	
		83		152			68		
.230	9.827 4393		9.957 9419		0.042 0581	9.869 4974		**.770**	
		84		153			69		
231	9.827 4477		9.957 9572		0.042 0428	9.869 4905		769	
		83		152			69		
232	9.827 4560		9.957 9724		0.042 0276	9.869 4836		768	
		84		152			69		
233	9.827 4644		9.957 9876		0.042 0124	9.869 4767		767	
		83		153			69		
234	9.827 4727		9.958 0029		0.041 9971	9.869 4698		766	
		84		152			68		
235	9.827 4811		9.958 0181		0.041 9819	9.869 4630		765	
		83		152			69		
236	9.827 4894		9.958 0333		0.041 9667	9.869 4561		764	
		84		153			69		
237	9.827 4978		9.958 0486		0.041 9514	9.869 4492		763	
		83		152			69		
238	9.827 5061		9.958 0638		0.041 9362	9.869 4423		762	
		84		152			69		
239	9.827 5145		9.958 0790		0.041 9210	9.869 4354		761	
		83		152			68		
.240	9.827 5228		9.958 0942		0.041 9058	9.869 4286		**.760**	
		84		153			69		
241	9.827 5312		9.958 1095		0.041 8905	9.869 4217		759	
		83		152			69		
242	9.827 5395		9.958 1247		0.041 8753	9.869 4148		758	
		83		152			69		
243	9.827 5478		9.958 1399		0.041 8601	9.869 4079		757	
		84		153			69		
244	9.827 5562		9.958 1552		0.041 8448	9.869 4010		756	
		83		152			69		
245	9.827 5645		9.958 1704		0.041 8296	9.869 3941		755	
		84		152			68		
246	9.827 5729		9.958 1856		0.041 8144	9.869 3873		754	
		83		153			69		
247	9.827 5812		9.958 2009		0.041 7991	9.869 3804		753	
		84		152			69		
248	9.827 5896		9.958 2161		0.041 7839	9.869 3735		752	
		83		152			69		
249	9.827 5979		9.958 2313		0.041 7687	9.869 3666		751	
		84		152			69		
.250	9.827 6063		9.958 2465		0.041 7535	9.869 3597		**.750**	
	cos	d	cotg	d	tang	sin	d	**47°**	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	84	83
1	8.4	8.3
2	16.8	16.6
3	25.2	24.9
4	33.6	33.2
5	42.0	41.5
6	50.4	49.8
7	58.8	58.1
8	67.2	66.4
9	75.6	74.7

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

47°.800 — 47°.750

42°.250 — 42°.300

42°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.827 6063		9.958 2465		0.041 7535	9.869 3597		**.750**	
		83		153			69		
251	9.827 6146		9.958 2618		0.041 7382	9.869 3528		749	
252	9.827 6230	84	9.958 2770	152	0.041 7230	9.869 3459	69	748	
253	9.827 6313	83	9.958 2922	152	0.041 7078	9.869 3391	68	747	
		83		153			69		
254	9.827 6396		9.958 3075		0.041 6925	9.869 3322		746	
255	9.827 6480	84	9.958 3227	152	0.041 6773	9.869 3253	69	745	
256	9.827 6563	83	9.958 3379	152	0.041 6621	9.869 3184	69	744	
		84		153			69		
257	9.827 6647		9.958 3532		0.041 6468	9.869 3115		743	
258	9.827 6730	83	9.958 3684	152	0.041 6316	9.869 3046	69	742	
259	9.827 6814	84	9.958 3836	152	0.041 6164	9.869 2977	69	741	
		83		152			68		
.260	9.827 6897		9.958 3988		0.041 6012	9.869 2909		**.740**	
		83		153			69		
261	9.827 6980		9.958 4141		0.041 5859	9.869 2840		739	
262	9.827 7064	84	9.958 4293	152	0.041 5707	9.869 2771	69	738	
263	9.827 7147	83	9.958 4445	152	0.041 5555	9.869 2702	69	737	
		84		153			69		
264	9.827 7231		9.958 4598		0.041 5402	9.869 2633		736	
265	9.827 7314	83	9.958 4750	152	0.041 5250	9.869 2564	69	735	
266	9.827 7397	83	9.958 4902	152	0.041 5098	9.869 2495	69	734	
		84		152			69		
267	9.827 7481		9.958 5054		0.041 4946	9.869 2426		733	
268	9.827 7564	83	9.958 5207	153	0.041 4793	9.869 2357	69	732	
269	9.827 7648	84	9.958 5359	152	0.041 4641	9.869 2289	68	731	
		83		152			69		
.270	9.827 7731		9.958 5511		0.041 4489	9.869 2220		**.730**	
		83		153			69		
271	9.827 7814		9.958 5664		0.041 4336	9.869 2151		729	
272	9.827 7898	84	9.958 5816	152	0.041 4184	9.869 2082	69	728	
273	9.827 7981	83	9.958 5968	152	0.041 4032	9.869 2013	69	727	
		84		153			69		
274	9.827 8065		9.958 6121		0.041 3879	9.869 1944		726	
275	9.827 8148	83	9.958 6273	152	0.041 3727	9.869 1875	69	725	
276	9.827 8231	83	9.958 6425	152	0.041 3575	9.869 1806	69	724	
		84		152			69		
277	9.827 8315		9.958 6577		0.041 3423	9.869 1737		723	
278	9.827 8398	83	9.958 6730	153	0.041 3270	9.869 1668	69	722	
279	9.827 8481	83	9.958 6882	152	0.041 3118	9.869 1599	69	721	
		84		152			68		
.280	9.827 8565		9.958 7034		0.041 2966	9.869 1531		**.720**	
		83		153			69		
281	9.827 8648		9.958 7187		0.041 2813	9.869 1462		719	
282	9.827 8731	83	9.958 7339	152	0.041 2661	9.869 1393	69	718	
283	9.827 8815	84	9.958 7491	152	0.041 2509	9.869 1324	69	717	
		83		152			69		
284	9.827 8898		9.958 7643		0.041 2357	9.869 1255		716	
285	9.827 8982	84	9.958 7796	153	0.041 2204	9.869 1186	69	715	
286	9.827 9065	83	9.958 7948	152	0.041 2052	9.869 1117	69	714	
		83		152			69		
287	9.827 9148		9.958 8100		0.041 1900	9.869 1048		713	
288	9.827 9232	84	9.958 8252	152	0.041 1748	9.869 0979	69	712	
289	9.827 9315	83	9.958 8405	153	0.041 1595	9.869 0910	69	711	
		83		152			69		
.290	9.827 9398		9.958 8557		0.041 1443	9.869 0841		**.710**	
		84		152			69		
291	9.827 9482		9.958 8709		0.041 1291	9.869 0772		709	
292	9.827 9565	83	9.958 8862	153	0.041 1138	9.869 0703	69	708	
293	9.827 9648	83	9.958 9014	152	0.041 0986	9.869 0634	69	707	
		84		152			69		
294	9.827 9732		9.958 9166		0.041 0834	9.869 0565		706	
295	9.827 9815	83	9.958 9318	152	0.041 0682	9.869 0496	69	705	
296	9.827 9898	83	9.958 9471	153	0.041 0529	9.869 0427	69	704	
		83		152			68		
297	9.827 9981		9.958 9623		0.041 0377	9.869 0359		703	
298	9.828 0065	84	9.958 9775	152	0.041 0225	9.869 0290	69	702	
299	9.828 0148	83	9.958 9928	153	0.041 0072	9.869 0221	69	701	
		83		152			69		
.300	9.828 0231		9.959 0080		0.040 9920	9.869 0152		**.700**	
	cos	d	cotg	d	tang	sin	d	**47°**	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	84	83
1	8.4	8.3
2	16.8	16.6
3	25.2	24.9
4	33.6	33.2
5	42.0	41.5
6	50.4	49.8
7	58.8	58.1
8	67.2	66.4
9	75.6	74.7

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

	68
1	6.8
2	13.6
3	20.4
4	27.2
5	34.0
6	40.8
7	47.6
8	54.4
9	61.2

47°.750 — 47°.700

$42^\circ.300 - 42^\circ.350$

42°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.828 0231		9.959 0080		0.040 9920	9.869 0152		.700	
		84		152			69		
301	9.828 0315		9.959 0232		0.040 9768	9.869 0083		699	
302	9.828 0398	83	9.959 0384	152	0.040 9616	9.869 0014	69	698	
303	9.828 0481	83	9.959 0537	153	0.040 9463	9.868 9945	69	697	
		84		152			69		
304	9.828 0565		9.959 0689		0.040 9311	9.868 9876		696	
305	9.828 0648	83	9.959 0841	152	0.040 9159	9.868 9807	69	695	
306	9.828 0731	83	9.959 0993	152	0.040 9007	9.868 9738	69	694	
		83		153			69		
307	9.828 0814		9.959 1146		0.040 8854	9.868 9669		693	
308	9.828 0898	84	9.959 1298	152	0.040 8702	9.868 9600	69	692	
309	9.828 0981	83	9.959 1450	152	0.040 8550	9.868 9531	69	691	
		83		152			69		
.310	9.828 1064		9.959 1602		0.040 8398	9.868 9462		.690	
		84		153			69		
311	9.828 1148		9.959 1755		0.040 8245	9.868 9393		689	
312	9.828 1231	83	9.959 1907	152	0.040 8093	9.868 9324	69	688	
313	9.828 1314	83	9.959 2059	152	0.040 7941	9.868 9255	69	687	
		83		153			69		
314	9.828 1397		9.959 2212		0.040 7788	9.868 9186		686	
315	9.828 1481	84	9.959 2364	152	0.040 7636	9.868 9117	69	685	
316	9.828 1564	83	9.959 2516	152	0.040 7484	9.868 9048	69	684	
		83		152			69		
317	9.828 1647		9.959 2668		0.040 7332	9.868 8979		683	
318	9.828 1730	83	9.959 2821	153	0.040 7179	9.868 8910	69	682	
319	9.828 1814	84	9.959 2973	152	0.040 7027	9.868 8841	69	681	
		83		152			69		
.320	9.828 1897		9.959 3125		0.040 6875	9.868 8772		.680	
		83		152			69		
321	9.828 1980		9.959 3277		0.040 6723	9.868 8703		679	
322	9.828 2063	83	9.959 3430	153	0.040 6570	9.868 8634	69	678	
323	9.828 2147	84	9.959 3582	152	0.040 6418	9.868 8565	69	677	
		83		152			69		
324	9.828 2230		9.959 3734		0.040 6266	9.868 8496		676	
325	9.828 2313	83	9.959 3886	152	0.040 6114	9.868 8427	69	675	
326	9.828 2396	83	9.959 4039	153	0.040 5961	9.868 8358	69	674	
		83		152			70		
327	9.828 2479		9.959 4191		0.040 5809	9.868 8288		673	
328	9.828 2563	84	9.959 4343	152	0.040 5657	9.868 8219	69	672	
329	9.828 2646	83	9.959 4495	152	0.040 5505	9.868 8150	69	671	
		83		153			69		
.330	9.828 2729		9.959 4648		0.040 5352	9.868 8081		.670	
		83		152			69		
331	9.828 2812		9.959 4800		0.040 5200	9.868 8012		669	
332	9.828 2896	84	9.959 4952	152	0.040 5048	9.868 7943	69	668	
333	9.828 2979	83	9.959 5105	153	0.040 4895	9.868 7874	69	667	
		83		152			69		
334	9.828 3062		9.959 5257		0.040 4743	9.868 7805		666	
335	9.828 3145	83	9.959 5409	152	0.040 4591	9.868 7736	69	665	
336	9.828 3228	83	9.959 5561	152	0.040 4439	9.868 7667	69	664	
		84		153			69		
337	9.828 3312		9.959 5714		0.040 4286	9.868 7598		663	
338	9.828 3395	83	9.959 5866	152	0.040 4134	9.868 7529	69	662	
339	9.828 3478	83	9.959 6018	152	0.040 3982	9.868 7460	69	661	
		83		152			69		
.340	9.828 3561		9.959 6170		0.040 3830	9.868 7391		.660	
		83		153			69		
341	9.828 3644		9.959 6323		0.040 3677	9.868 7322		659	
342	9.828 3727	83	9.959 6475	152	0.040 3525	9.868 7253	69	658	
343	9.828 3811	84	9.959 6627	152	0.040 3373	9.868 7184	69	657	
		83		152			69		
344	9.828 3894		9.959 6779		0.040 3221	9.868 7115		656	
345	9.828 3977	83	9.959 6932	153	0.040 3068	9.868 7045	70	655	
346	9.828 4060	83	9.959 7084	152	0.040 2916	9.868 6976	69	654	
		83		152			69		
347	9.828 4143		9.959 7236		0.040 2764	9.868 6907		653	
348	9.828 4227	84	9.959 7388	152	0.040 2612	9.868 6838	69	652	
349	9.828 4310	83	9.959 7541	153	0.040 2459	9.868 6769	69	651	
		83		152			69		
.350	9.828 4393		9.959 7693		0.040 2307	9.868 6700		.650	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	84	83
1	8.4	8.3
2	16.8	16.6
3	25.2	24.9
4	33.6	33.2
5	42.0	41.5
6	50.4	49.8
7	58.8	58.1
8	67.2	66.4
9	75.6	74.7

	70
1	7.0
2	14.0
3	21.0
4	28.0
5	35.0
6	42.0
7	49.0
8	56.0
9	63.0

	69
1	6.9
2	13.8
3	20.7
4	27.6
5	34.5
6	41.4
7	48.3
8	55.2
9	62.1

$47^\circ.700 - 47^\circ.650$

$42^\circ.350 - 42^\circ.400$

42°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.828 4393		9.959 7693		0.040 2307	9.868 6700		.650	
		83		152			69		
351	9.828 4476		9.959 7845		0.040 2155	9.868 6631		649	
352	9.828 4559	83	9.959 7997	152	0.040 2003	9.868 6562	69	648	
353	9.828 4642	83	9.959 8150	153	0.040 1850	9.868 6493	69	647	
		83		152			69		
354	9.828 4725		9.959 8302		0.040 1698	9.868 6424		646	
355	9.828 4809	84	9.959 8454	152	0.040 1546	9.868 6355	69	645	
356	9.828 4892	83	9.959 8606	152	0.040 1394	9.868 6285	70	644	
		83		153			69		
357	9.828 4975		9.959 8759		0.040 1241	9.868 6216		643	
358	9.828 5058	83	9.959 8911	152	0.040 1089	9.868 6147	69	642	
359	9.828 5141	83	9.959 9063	152	0.040 0937	9.868 6078	69	641	
		83		152			69		
.360	9.828 5224		9.959 9215		0.040 0785	9.868 6009		.640	
		83		153			69		
361	9.828 5307		9.959 9368		0.040 0632	9.868 5940		639	
362	9.828 5390	83	9.959 9520	152	0.040 0480	9.868 5871	69	638	
363	9.828 5474	84	9.959 9672	152	0.040 0328	9.868 5802	69	637	
		83		152			70		
364	9.828 5557		9.959 9824		0.040 0176	9.868 5732		636	
365	9.828 5640	83	9.959 9976	152	0.040 0024	9.868 5663	69	635	
366	9.828 5723	83	9.960 0129	153	0.039 9871	9.868 5594	69	634	
		83		152			69		
367	9.828 5806		9.960 0281		0.039 9719	9.868 5525		633	
368	9.828 5889	83	9.960 0433	152	0.039 9567	9.868 5456	69	632	
369	9.828 5972	83	9.960 0585	152	0.039 9415	9.868 5387	69	631	
		83		153			69		
.370	9.828 6055		9.960 0738		0.039 9262	9.868 5318		.630	
		83		152			69		
371	9.828 6138		9.960 0890		0.039 9110	9.868 5249		629	
372	9.828 6222	84	9.960 1042	152	0.039 8958	9.868 5179	70	628	
373	9.828 6305	83	9.960 1194	152	0.039 8806	9.868 5110	69	627	
		83		153			69		
374	9.828 6388		9.960 1347		0.039 8653	9.868 5041		626	
375	9.828 6471	83	9.960 1499	152	0.039 8501	9.868 4972	69	625	
376	9.828 6554	83	9.960 1651	152	0.039 8349	9.868 4903	69	624	
		83		152			69		
377	9.828 6637		9.960 1803		0.039 8197	9.868 4834		623	
378	9.828 6720	83	9.960 1956	153	0.039 8044	9.868 4764	70	622	
379	9.828 6803	83	9.960 2108	152	0.039 7892	9.868 4695	69	621	
		83		152			69		
.380	9.828 6886		9.960 2260		0.039 7740	9.868 4626		.620	
		83		152			69		
381	9.828 6969		9.960 2412		0.039 7588	9.868 4557		619	
382	9.828 7052	83	9.960 2565	153	0.039 7435	9.868 4488	69	618	
383	9.828 7135	83	9.960 2717	152	0.039 7283	9.868 4419	69	617	
		83		152			70		
384	9.828 7218		9.960 2869		0.039 7131	9.868 4349		616	
385	9.828 7301	83	9.960 3021	152	0.039 6979	9.868 4280	69	615	
386	9.828 7385	84	9.960 3173	152	0.039 6827	9.868 4211	69	614	
		83		153			69		
387	9.828 7468		9.960 3326		0.039 6674	9.868 4142		613	
388	9.828 7551	83	9.960 3478	152	0.039 6522	9.868 4073	69	612	
389	9.828 7634	83	9.960 3630	152	0.039 6370	9.868 4004	69	611	
		83		152			70		
.390	9.828 7717		9.960 3782		0.039 6218	9.868 3934		.610	
		83		153			69		
391	9.828 7800		9.960 3935		0.039 6065	9.868 3865		609	
392	9.828 7883	83	9.960 4087	152	0.039 5913	9.868 3796	69	608	
393	9.828 7966	83	9.960 4239	152	0.039 5761	9.868 3727	69	607	
		83		152			69		
394	9.828 8049		9.960 4391		0.039 5609	9.868 3658		606	
395	9.828 8132	83	9.960 4543	152	0.039 5457	9.868 3588	70	605	
396	9.828 8215	83	9.960 4696	153	0.039 5304	9.868 3519	69	604	
		83		152			69		
397	9.828 8298		9.960 4848		0.039 5152	9.868 3450		603	
398	9.828 8381	83	9.960 5000	152	0.039 5000	9.868 3381	69	602	
399	9.828 8464	83	9.960 5152	152	0.039 4848	9.868 3312	69	601	
		83		153			70		
.400	9.828 8547		9.960 5305		0.039 4695	9.868 3242		.600	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	84	83
1	8.4	8.3
2	16.8	16.6
3	25.2	24.9
4	33.6	33.2
5	42.0	41.5
6	50.4	49.8
7	58.8	58.1
8	67.2	66.4
9	75.6	74.7

	70	69
1	7.0	6.9
2	14.0	13.8
3	21.0	20.7
4	28.0	27.6
5	35.0	34.5
6	42.0	41.4
7	49.0	48.3
8	56.0	55.2
9	63.0	62.1

$47^\circ.650 - 47^\circ.600$

42°.400 — 42°.450

42°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.828 8547		9.960 5305		0.039 4695	9.868 3242		.600	
		83		152			69		
401	9.828 8630		9.960 5457		0.039 4543	9.868 3173		599	
402	9.828 8713	83	9.960 5609	152	0.039 4391	9.868 3104	69	598	
403	9.828 8796	83	9.960 5761	152	0.039 4239	9.868 3035	69	597	
		83		153			70		
404	9.828 8879		9.960 5914		0.039 4086	9.868 2965		596	
405	9.828 8962	83	9.960 6066	152	0.039 3934	9.868 2896	69	595	
406	9.828 9045	83	9.960 6218	152	0.039 3782	9.868 2827	69	594	
		83		152			69		
407	9.828 9128		9.960 6370		0.039 3630	9.868 2758		593	
408	9.828 9211	83	9.960 6522	152	0.039 3478	9.868 2689	69	592	
409	9.828 9294	83	9.960 6675	153	0.039 3325	9.868 2619	70	591	
		83		152			69		
.410	9.828 9377		9.960 6827		0.039 3173	9.868 2550		.590	
		83		152			69		
411	9.828 9460		9.960 6979		0.039 3021	9.868 2481		589	
412	9.828 9543	83	9.960 7131	152	0.039 2869	9.868 2412	69	588	
413	9.828 9626	83	9.960 7283	152	0.039 2717	9.868 2342	70	587	
		83		153			69		
414	9.828 9709		9.960 7436		0.039 2564	9.868 2273		586	
415	9.828 9792	83	9.960 7588	152	0.039 2412	9.868 2204	69	585	
416	9.828 9875	83	9.960 7740	152	0.039 2260	9.868 2135	69	584	
		83		152			70		
417	9.828 9958		9.960 7892		0.039 2108	9.868 2065		583	
418	9.829 0041	83	9.960 8045	153	0.039 1955	9.868 1996	69	582	
419	9.829 0124	83	9.960 8197	152	0.039 1803	9.868 1927	69	581	
		83		152			69		
.420	9.829 0207		9.960 8349		0.039 1651	9.868 1858		.580	
		83		152			70		
421	9.829 0290		9.960 8501		0.039 1499	9.868 1788		579	
422	9.829 0372	82	9.960 8653	152	0.039 1347	9.868 1719	69	578	
423	9.829 0455	83	9.960 8806	153	0.039 1194	9.868 1650	69	577	
		83		152			69		
424	9.829 0538		9.960 8958		0.039 1042	9.868 1581		576	
425	9.829 0621	83	9.960 9110	152	0.039 0890	9.868 1511	70	575	
426	9.829 0704	83	9.960 9262	152	0.039 0738	9.868 1442	69	574	
		83		152			69		
427	9.829 0787		9.960 9414		0.039 0586	9.868 1373		573	
428	9.829 0870	83	9.960 9567	153	0.039 0433	9.868 1303	70	572	
429	9.829 0953	83	9.960 9719	152	0.039 0281	9.868 1234	69	571	
		83		152			69		
.430	9.829 1036		9.960 9871		0.039 0129	9.868 1165		.570	
		83		152			69		
431	9.829 1119		9.961 0023		0.038 9977	9.868 1096		569	
432	9.829 1202	83	9.961 0176	153	0.038 9824	9.868 1026	70	568	
433	9.829 1285	83	9.961 0328	152	0.038 9672	9.868 0957	69	567	
		83		152			69		
434	9.829 1368		9.961 0480		0.038 9520	9.868 0888		566	
435	9.829 1451	83	9.961 0632	152	0.038 9368	9.868 0818	70	565	
436	9.829 1533	82	9.961 0784	152	0.038 9216	9.868 0749	69	564	
		83		153			69		
437	9.829 1616		9.961 0937		0.038 9063	9.868 0680		563	
438	9.829 1699	83	9.961 1089	152	0.038 8911	9.868 0610	70	562	
439	9.829 1782	83	9.961 1241	152	0.038 8759	9.868 0541	69	561	
		83		152			69		
.440	9.829 1865		9.961 1393		0.038 8607	9.868 0472		.560	
		83		152			69		
441	9.829 1948		9.961 1545		0.038 8455	9.868 0403		559	
442	9.829 2031	83	9.961 1698	153	0.038 8302	9.868 0333	70	558	
443	9.829 2114	83	9.961 1850	152	0.038 8150	9.868 0264	69	557	
		83		152			69		
444	9.829 2197		9.961 2002		0.038 7998	9.868 0195		556	
445	9.829 2279	82	9.961 2154	152	0.038 7846	9.868 0125	70	555	
446	9.829 2362	83	9.961 2306	152	0.038 7694	9.868 0056	69	554	
		83		153			69		
447	9.829 2445		9.961 2459		0.038 7541	9.867 9987		553	
448	9.829 2528	83	9.961 2611	152	0.038 7389	9.867 9917	70	552	
449	9.829 2611	83	9.961 2763	152	0.038 7237	9.867 9848	69	551	
		83		152			69		
.450	9.829 2694		9.961 2915		0.038 7085	9.867 9779		.550	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	83	82
1	8.3	8.2
2	16.6	16.4
3	24.9	24.6
4	33.2	32.8
5	41.5	41.0
6	49.8	49.2
7	58.1	57.4
8	66.4	65.6
9	74.7	73.8

	70	69
1	7.0	6.9
2	14.0	13.8
3	21.0	20.7
4	28.0	27.6
5	35.0	34.5
6	42.0	41.4
7	49.0	48.3
8	56.0	55.2
9	63.0	62.1

47°.600 — 47°.550

42°.450 — 42°.500

42°	sin	d	tang	d	cotg	cos	d		P.P.
.450	9.829 2694		9.961 2915		0.038 7085	9.867 9779		**.550**	
		83		152			70		
451	9.829 2777		9.961 3067		0.038 6933	9.867 9709		549	
452	9.829 2860	83	9.961 3220	153	0.038 6780	9.867 9640	69	548	
453	9.829 2942	82	9.961 3372	152	0.038 6628	9.867 9571	69	547	
		83		152			70		
454	9.829 3025		9.961 3524		0.038 6476	9.867 9501		546	
455	9.829 3108	83	9.961 3676	152	0.038 6324	9.867 9432	69	545	
456	9.829 3191	83	9.961 3828	152	0.038 6172	9.867 9363	69	544	
		83		153			70		
457	9.829 3274		9.961 3981		0.038 6019	9.867 9293		543	
458	9.829 3357	83	9.961 4133	152	0.038 5867	9.867 9224	69	542	
459	9.829 3440	83	9.961 4285	152	0.038 5715	9.867 9155	69	541	
		82		152			70		
.460	9.829 3522		9.961 4437		0.038 5563	9.867 9085		**.540**	
		83		152			69		
461	9.829 3605		9.961 4589		0.038 5411	9.867 9016		539	
462	9.829 3688	83	9.961 4742	153	0.038 5258	9.867 8946	70	538	
463	9.829 3771	83	9.961 4894	152	0.038 5106	9.867 8877	69	537	
		83		152			69		
464	9.829 3854		9.961 5046		0.038 4954	9.867 8808		536	
465	9.829 3936	82	9.961 5198	152	0.038 4802	9.867 8738	70	535	
466	9.829 4019	83	9.961 5350	152	0.038 4650	9.867 8669	69	534	
		83		153			69		
467	9.829 4102		9.961 5503		0.038 4497	9.867 8600		533	
468	9.829 4185	83	9.961 5655	152	0.038 4345	9.867 8530	70	532	
469	9.829 4268	83	9.961 5807	152	0.038 4193	9.867 8461	69	531	
		83		152			70		
.470	9.829 4351		9.961 5959		0.038 4041	9.867 8391		**.530**	
		82		152			69		
471	9.829 4433		9.961 6111		0.038 3889	9.867 8322		529	
472	9.829 4516	83	9.961 6263	152	0.038 3737	9.867 8253	69	528	
473	9.829 4599	83	9.961 6416	153	0.038 3584	9.867 8183	70	527	
		83		152			69		
474	9.829 4682		9.961 6568		0.038 3432	9.867 8114		526	
475	9.829 4765	83	9.961 6720	152	0.038 3280	9.867 8045	69	525	
476	9.829 4847	82	9.961 6872	152	0.038 3128	9.867 7975	70	524	
		83		152			69		
477	9.829 4930		9.961 7024		0.038 2976	9.867 7906		523	
478	9.829 5013	83	9.961 7177	153	0.038 2823	9.867 7836	70	522	
479	9.829 5096	83	9.961 7329	152	0.038 2671	9.867 7767	69	521	
		82		152			70		
.480	9.829 5178		9.961 7481		0.038 2519	9.867 7697		**.520**	
		83		152			69		
481	9.829 5261		9.961 7633		0.038 2367	9.867 7628		519	
482	9.829 5344	83	9.961 7785	152	0.038 2215	9.867 7559	69	518	
483	9.829 5427	83	9.961 7938	153	0.038 2062	9.867 7489	70	517	
		83		152			69		
484	9.829 5510		9.961 8090		0.038 1910	9.867 7420		516	
485	9.829 5592	82	9.961 8242	152	0.038 1758	9.867 7350	70	515	
486	9.829 5675	83	9.961 8394	152	0.038 1606	9.867 7281	69	514	
		83		152			69		
487	9.829 5758		9.961 8546		0.038 1454	9.867 7212		513	
488	9.829 5841	83	9.961 8698	152	0.038 1302	9.867 7142	70	512	
489	9.829 5923	82	9.961 8851	153	0.038 1149	9.867 7073	69	511	
		83		152			70		
.490	9.829 6006		9.961 9003		0.038 0997	9.867 7003		**.510**	
		83		152			69		
491	9.829 6089		9.961 9155		0.038 0845	9.867 6934		509	
492	9.829 6172	83	9.961 9307	152	0.038 0693	9.867 6864	70	508	
493	9.829 6254	82	9.961 9459	152	0.038 0541	9.867 6795	69	507	
		83		153			69		
494	9.829 6337		9.961 9612		0.038 0388	9.867 6726		506	
495	9.829 6420	83	9.961 9764	152	0.038 0236	9.867 6656	70	505	
496	9.829 6503	83	9.961 9916	152	0.038 0084	9.867 6587	69	504	
		82		152			70		
497	9.829 6585		9.962 0068		0.037 9932	9.867 6517		503	
498	9.829 6668	83	9.962 0220	152	0.037 9780	9.867 6448	69	502	
499	9.829 6751	83	9.962 0372	152	0.037 9628	9.867 6378	70	501	
		82		153			69		
.500	9.829 6833		9.962 0525		0.037 9475	9.867 6309		**.500**	
	cos	d	cotg	d	tang	sin	d	**47°**	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	83	82
1	8.3	8.2
2	16.6	16.4
3	24.9	24.6
4	33.2	32.8
5	41.5	41.0
6	49.8	49.2
7	58.1	57.4
8	66.4	65.6
9	74.7	73.8

	70	69
1	7.0	6.9
2	14.0	13.8
3	21.0	20.7
4	28.0	27.6
5	35.0	34.5
6	42.0	41.4
7	49.0	48.3
8	56.0	55.2
9	63.0	62.1

47°.550 — 47°.500

42°.500 — 42°.550

42°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.829 6833		9.962 0525		0.037 9475	9.867 6309		.500	
		83		152			70		
501	9.829 6916		9.962 0677		0.037 9323	9.867 6239		499	
502	9.829 6999	83	9.962 0829	152	0.037 9171	9.867 6170	69	498	
503	9.829 7082	83	9.962 0981	152	0.037 9019	9.867 6100	70	497	
		82		152			69		
504	9.829 7164		9.962 1133		0.037 8867	9.867 6031		496	
505	9.829 7247	83	9.962 1285	152	0.037 8715	9.867 5962	69	495	
506	9.829 7330	83	9.962 1438	153	0.037 8562	9.867 5892	70	494	
		82		152			69		
507	9.829 7412		9.962 1590		0.037 8410	9.867 5823		493	
508	9.829 7495	83	9.962 1742	152	0.037 8258	9.867 5753	70	492	
509	9.829 7578	83	9.962 1894	152	0.037 8106	9.867 5684	69	491	
		83		152			70		
.510	9.829 7661		9.962 2046		0.037 7954	9.867 5614		.490	
		82		153			69		
511	9.829 7743		9.962 2199		0.037 7801	9.867 5545		489	
512	9.829 7826	83	9.962 2351	152	0.037 7649	9.867 5475	70	488	
513	9.829 7909	83	9.962 2503	152	0.037 7497	9.867 5406	69	487	
		82		152			70		
514	9.829 7991		9.962 2655		0.037 7345	9.867 5336		486	
515	9.829 8074	83	9.962 2807	152	0.037 7193	9.867 5267	69	485	
516	9.829 8157	83	9.962 2959	152	0.037 7041	9.867 5197	70	484	
		82		153			69		
517	9.829 8239		9.962 3112		0.037 6888	9.867 5128		483	
518	9.829 8322	83	9.962 3264	152	0.037 6736	9.867 5058	70	482	
519	9.829 8405	83	9.962 3416	152	0.037 6584	9.867 4989	69	481	
		82		152			70		
.520	9.829 8487		9.962 3568		0.037 6432	9.867 4919		.480	
		83		152			69		
521	9.829 8570		9.962 3720		0.037 6280	9.867 4850		479	
522	9.829 8653	83	9.962 3872	152	0.037 6128	9.867 4780	70	478	
523	9.829 8735	82	9.962 4025	153	0.037 5975	9.867 4711	69	477	
		83		152			70		
524	9.829 8818		9.962 4177		0.037 5823	9.867 4641		476	
525	9.829 8901	83	9.962 4329	152	0.037 5671	9.867 4572	69	475	
526	9.829 8983	82	9.962 4481	152	0.037 5519	9.867 4502	70	474	
		83		152			69		
527	9.829 9066		9.962 4633		0.037 5367	9.867 4433		473	
528	9.829 9148	82	9.962 4785	152	0.037 5215	9.867 4363	70	472	
529	9.829 9231	83	9.962 4938	153	0.037 5062	9.867 4294	69	471	
		83		152			70		
.530	9.829 9314		9.962 5090		0.037 4910	9.867 4224		.470	
		82		152			69		
531	9.829 9396		9.962 5242		0.037 4758	9.867 4155		469	
532	9.829 9479	83	9.962 5394	152	0.037 4606	9.867 4085	70	468	
533	9.829 9562	83	9.962 5546	152	0.037 4454	9.867 4015	70	467	
		82		152			69		
534	9.829 9644		9.962 5698		0.037 4302	9.867 3946		466	
535	9.829 9727	83	9.962 5851	153	0.037 4149	9.867 3876	70	465	
536	9.829 9809	82	9.962 6003	152	0.037 3997	9.867 3807	69	464	
		83		152			70		
537	9.829 9892		9.962 6155		0.037 3845	9.867 3737		463	
538	9.829 9975	83	9.962 6307	152	0.037 3693	9.867 3668	69	462	
539	9.830 0057	82	9.962 6459	152	0.037 3541	9.867 3598	70	461	
		83		152			69		
.540	9.830 0140		9.962 6611		0.037 3389	9.867 3529		.460	
		83		152			70		
541	9.830 0223		9.962 6763		0.037 3237	9.867 3459		459	
542	9.830 0305	82	9.962 6916	153	0.037 3084	9.867 3390	69	458	
543	9.830 0388	83	9.962 7068	152	0.037 2932	9.867 3320	70	457	
		82		152			70		
544	9.830 0470		9.962 7220		0.037 2780	9.867 3250		456	
545	9.830 0553	83	9.962 7372	152	0.037 2628	9.867 3181	69	455	
546	9.830 0636	83	9.962 7524	152	0.037 2476	9.867 3111	70	454	
		82		152			69		
547	9.830 0718		9.962 7676		0.037 2324	9.867 3042		453	
548	9.830 0801	83	9.962 7829	153	0.037 2171	9.867 2972	70	452	
549	9.830 0883	82	9.962 7981	152	0.037 2019	9.867 2903	69	451	
		83		152			70		
.550	9.830 0966		9.962 8133		0.037 1867	9.867 2833		.450	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	83	82
1	8.3	8.2
2	16.6	16.4
3	24.9	24.6
4	33.2	32.8
5	41.5	41.0
6	49.8	49.2
7	58.1	57.4
8	66.4	65.6
9	74.7	73.8

	70	69
1	7.0	6.9
2	14.0	13.8
3	21.0	20.7
4	28.0	27.6
5	35.0	34.5
6	42.0	41.4
7	49.0	48.3
8	56.0	55.2
9	63.0	62.1

47°.500 — 47°.450

42°.550 — 42°.600

42°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.830 0966		9.962 8133		0.037 1867	9.867 2833		.450	
		82		152			70		
551	9.830 1048		9.962 8285		0.037 1715	9.867 2763		449	
552	9.830 1131	83	9.962 8437	152	0.037 1563	9.867 2694	69	448	
553	9.830 1214	83	9.962 8589	152	0.037 1411	9.867 2624	70	447	
		82		152			69		
554	9.830 1296		9.962 8741		0.037 1259	9.867 2555		446	
555	9.830 1379	83	9.962 8894	153	0.037 1106	9.867 2485	70	445	
556	9.830 1461	82	9.962 9046	152	0.037 0954	9.867 2415	70	444	
		83		152			69		
557	9.830 1544		9.962 9198		0.037 0802	9.867 2346		443	
558	9.830 1626	82	9.962 9350	152	0.037 0650	9.867 2276	70	442	
559	9.830 1709	83	9.962 9502	152	0.037 0498	9.867 2207	69	441	
		82		152			70		
.560	9.830 1791		9.962 9654		0.037 0346	9.867 2137		.440	
		83		153			70		
561	9.830 1874		9.962 9807		0.037 0193	9.867 2067		439	
562	9.830 1957	83	9.962 9959	152	0.037 0041	9.867 1998	69	438	
563	9.830 2039	82	9.963 0111	152	0.036 9889	9.867 1928	70	437	
		83		152			69		
564	9.830 2122		9.963 0263		0.036 9737	9.867 1859		436	
565	9.830 2204	82	9.963 0415	152	0.036 9585	9.867 1789	70	435	
566	9.830 2287	83	9.963 0567	152	0.036 9433	9.867 1719	70	434	
		82		152			69		
567	9.830 2369		9.963 0719		0.036 9281	9.867 1650		433	
568	9.830 2452	83	9.963 0872	153	0.036 9128	9.867 1580	70	432	
569	9.830 2534	82	9.963 1024	152	0.036 8976	9.867 1511	69	431	
		83		152			70		
.570	9.830 2617		9.963 1176		0.036 8824	9.867 1441		.430	
		82		152			70		
571	9.830 2699		9.963 1328		0.036 8672	9.867 1371		429	
572	9.830 2782	83	9.963 1480	152	0.036 8520	9.867 1302	69	428	
573	9.830 2864	82	9.963 1632	152	0.036 8368	9.867 1232	70	427	
		83		152			70		
574	9.830 2947		9.963 1784		0.036 8216	9.867 1162		426	
575	9.830 3029	82	9.963 1937	153	0.036 8063	9.867 1093	69	425	
576	9.830 3112	83	9.963 2089	152	0.036 7911	9.867 1023	70	424	
		82		152			70		
577	9.830 3194		9.963 2241		0.036 7759	9.867 0953		423	
578	9.830 3277	83	9.963 2393	152	0.036 7607	9.867 0884	69	422	
579	9.830 3359	82	9.963 2545	152	0.036 7455	9.867 0814	70	421	
		83		152			69		
.580	9.830 3442		9.963 2697		0.036 7303	9.867 0745		.420	
		82		152			70		
581	9.830 3524		9.963 2849		0.036 7151	9.867 0675		419	
582	9.830 3607	83	9.963 3002	153	0.036 6998	9.867 0605	70	418	
583	9.830 3689	82	9.963 3154	152	0.036 6846	9.867 0536	69	417	
		83		152			70		
584	9.830 3772		9.963 3306		0.036 6694	9.867 0466		416	
585	9.830 3854	82	9.963 3458	152	0.036 6542	9.867 0396	70	415	
586	9.830 3937	83	9.963 3610	152	0.036 6390	9.867 0327	69	414	
		82		152			70		
587	9.830 4019		9.963 3762		0.036 6238	9.867 0257		413	
588	9.830 4102	83	9.963 3914	152	0.036 6086	9.867 0187	70	412	
589	9.830 4184	82	9.963 4067	153	0.036 5933	9.867 0118	69	411	
		83		152			70		
.590	9.830 4267		9.963 4219		0.036 5781	9.867 0048		.410	
		82		152			70		
591	9.830 4349		9.963 4371		0.036 5629	9.866 9978		409	
592	9.830 4431	82	9.963 4523	152	0.036 5477	9.866 9909	69	408	
593	9.830 4514	83	9.963 4675	152	0.036 5325	9.866 9839	70	407	
		82		152			70		
594	9.830 4596		9.963 4827		0.036 5173	9.866 9769		406	
595	9.830 4679	83	9.963 4979	152	0.036 5021	9.866 9699	70	405	
596	9.830 4761	82	9.963 5131	152	0.036 4869	9.866 9630	69	404	
		83		153			70		
597	9.830 4844		9.963 5284		0.036 4716	9.866 9560		403	
598	9.830 4926	82	9.963 5436	152	0.036 4564	9.866 9490	70	402	
599	9.830 5009	83	9.963 5588	152	0.036 4412	9.866 9421	69	401	
		82		152			70		
.600	9.830 5091		9.963 5740		0.036 4260	9.866 9351		.400	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	83	82
1	8.3	8.2
2	16.6	16.4
3	24.9	24.6
4	33.2	32.8
5	41.5	41.0
6	49.8	49.2
7	58.1	57.4
8	66.4	65.6
9	74.7	73.8

	70	69
1	7.0	6.9
2	14.0	13.8
3	21.0	20.7
4	28.0	27.6
5	35.0	34.5
6	42.0	41.4
7	49.0	48.3
8	56.0	55.2
9	63.0	62.1

47°.450 — 47°.400

42°.600 — 42°.650

42°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.830 5091		9.963 5740		0.036 4260	9.866 9351		**.400**	
		82		152			70		
601	9.830 5173		9.963 5892		0.036 4108	9.866 9281		399	
602	9.830 5256	83	9.963 6044	152	0.036 3956	9.866 9212	69	398	
603	9.830 5338	82	9.963 6196	152	0.036 3804	9.866 9142	70	397	
		83		152			70		
604	9.830 5421		9.963 6348		0.036 3652	9.866 9072		396	
605	9.830 5503	82	9.963 6501	153	0.036 3499	9.866 9002	70	395	
606	9.830 5585	82	9.963 6653	152	0.036 3347	9.866 8933	69	394	
		83		152			70		
607	9.830 5668		9.963 6805		0.036 3195	9.866 8863		393	
608	9.830 5750	82	9.963 6957	152	0.036 3043	9.866 8793	70	392	
609	9.830 5833	83	9.963 7109	152	0.036 2891	9.866 8724	69	391	
		82		152			70		
.610	9.830 5915		9.963 7261		0.036 2739	9.866 8654		**.390**	
		83		152			70		
611	9.830 5998		9.963 7413		0.036 2587	9.866 8584		389	
612	9.830 6080	82	9.963 7566	153	0.036 2434	9.866 8514	70	388	
613	9.830 6162	82	9.963 7718	152	0.036 2282	9.866 8445	69	387	
		83		152			70		
614	9.830 6245		9.963 7870		0.036 2130	9.866 8375		386	
615	9.830 6327	82	9.963 8022	152	0.036 1978	9.866 8305	70	385	
616	9.830 6409	82	9.963 8174	152	0.036 1826	9.866 8235	70	384	
		83		152			69		
617	9.830 6492		9.963 8326		0.036 1674	9.866 8166		383	
618	9.830 6574	82	9.963 8478	152	0.036 1522	9.866 8096	70	382	
619	9.830 6657	83	9.963 8630	152	0.036 1370	9.866 8026	70	381	
		82		152			70		
.620	9.830 6739		9.963 8782		0.036 1218	9.866 7956		**.380**	
		82		153			69		
621	9.830 6821		9.963 8935		0.036 1065	9.866 7887		379	
622	9.830 6904	83	9.963 9087	152	0.036 0913	9.866 7817	70	378	
623	9.830 6986	82	9.963 9239	152	0.036 0761	9.866 7747	70	377	
		82		152			70		
624	9.830 7068		9.963 9391		0.036 0609	9.866 7677		376	
625	9.830 7151	83	9.963 9543	152	0.036 0457	9.866 7608	69	375	
626	9.830 7233	82	9.963 9695	152	0.036 0305	9.866 7538	70	374	
		83		152			70		
627	9.830 7316		9.963 9847		0.036 0153	9.866 7468		373	
628	9.830 7398	82	9.963 9999	152	0.036 0001	9.866 7398	70	372	
629	9.830 7480	82	9.964 0152	153	0.035 9848	9.866 7329	69	371	
		83		152			70		
.630	9.830 7563		9.964 0304		0.035 9696	9.866 7259		**.370**	
		82		152			70		
631	9.830 7645		9.964 0456		0.035 9544	9.866 7189		369	
632	9.830 7727	82	9.964 0608	152	0.035 9392	9.866 7119	70	368	
633	9.830 7810	83	9.964 0760	152	0.035 9240	9.866 7050	69	367	
		82		152			70		
634	9.830 7892		9.964 0912		0.035 9088	9.866 6980		366	
635	9.830 7974	82	9.964 1064	152	0.035 8936	9.866 6910	70	365	
636	9.830 8057	83	9.964 1216	152	0.035 8784	9.866 6840	70	364	
		82		153			70		
637	9.830 8139		9.964 1369		0.035 8631	9.866 6770		363	
638	9.830 8221	82	9.964 1521	152	0.035 8479	9.866 6701	69	362	
639	9.830 8304	83	9.964 1673	152	0.035 8327	9.866 6631	70	361	
		82		152			70		
.640	9.830 8386		9.964 1825		0.035 8175	9.866 6561		**.360**	
		82		152			70		
641	9.830 8468		9.964 1977		0.035 8023	9.866 6491		359	
642	9.830 8550	82	9.964 2129	152	0.035 7871	9.866 6421	70	358	
643	9.830 8633	83	9.964 2281	152	0.035 7719	9.866 6352	69	357	
		82		152			70		
644	9.830 8715		9.964 2433		0.035 7567	9.866 6282		356	
645	9.830 8797	82	9.964 2585	152	0.035 7415	9.866 6212	70	355	
646	9.830 8880	83	9.964 2738	153	0.035 7262	9.866 6142	70	354	
		82		152			70		
647	9.830 8962		9.964 2890		0.035 7110	9.866 6072		353	
648	9.830 9044	82	9.964 3042	152	0.035 6958	9.866 6003	69	352	
649	9.830 9127	83	9.964 3194	152	0.035 6806	9.866 5933	70	351	
		82		152			70		
.650	9.830 9209		9.964 3346		0.035 6654	9.866 5863		**.350**	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	83	82
1	8.3	8.2
2	16.6	16.4
3	24.9	24.6
4	33.2	32.8
5	41.5	41.0
6	49.8	49.2
7	58.1	57.4
8	66.4	65.6
9	74.7	73.8

	70	69
1	7.0	6.9
2	14.0	13.8
3	21.0	20.7
4	28.0	27.6
5	35.0	34.5
6	42.0	41.4
7	49.0	48.3
8	56.0	55.2
9	63.0	62.1

47°.400 — 47°.350

42°.650 — 42°.700

42°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.830 9209		9.964 3346		0.035 6654	9.866 5863		**.350**	
		82		152			70		
651	9.830 9291		9.964 3498		0.035 6502	9.866 5793		349	
652	9.830 9373	82	9.964 3650	152	0.035 6350	9.866 5723	70	348	
653	9.830 9456	83	9.964 3802	152	0.035 6198	9.866 5653	70	347	
		82		152			69		
654	9.830 9538		9.964 3954		0.035 6046	9.866 5584		346	
655	9.830 9620	82	9.964 4107	153	0.035 5893	9.866 5514	70	345	
656	9.830 9703	83	9.964 4259	152	0.035 5741	9.866 5444	70	344	
		82		152			70		
657	9.830 9785		9.964 4411		0.035 5589	9.866 5374		343	
658	9.830 9867	82	9.964 4563	152	0.035 5437	9.866 5304	70	342	
659	9.830 9949	82	9.964 4715	152	0.035 5285	9.866 5234	70	341	
		83		152			69		
.660	9.831 0032		9.964 4867		0.035 5133	9.866 5165		**.340**	
		82		152			70		
661	9.831 0114		9.964 5019		0.035 4981	9.866 5095		339	
662	9.831 0196	82	9.964 5171	152	0.035 4829	9.866 5025	70	338	
663	9.831 0278	82	9.964 5323	152	0.035 4677	9.866 4955	70	337	
		83		152			70		
664	9.831 0361		9.964 5475		0.035 4525	9.866 4885		336	
665	9.831 0443	82	9.964 5628	153	0.035 4372	9.866 4815	70	335	
666	9.831 0525	82	9.964 5780	152	0.035 4220	9.866 4745	70	334	
		82		152			69		
667	9.831 0607		9.964 5932		0.035 4068	9.866 4676		333	
668	9.831 0690	83	9.964 6084	152	0.035 3916	9.866 4606	70	332	
669	9.831 0772	82	9.964 6236	152	0.035 3764	9.866 4536	70	331	
		82		152			70		
.670	9.831 0854		9.964 6388		0.035 3612	9.866 4466		**.330**	
		82		152			70		
671	9.831 0936		9.964 6540		0.035 3460	9.866 4396		329	
672	9.831 1018	82	9.964 6692	152	0.035 3308	9.866 4326	70	328	
673	9.831 1101	83	9.964 6844	152	0.035 3156	9.866 4256	70	327	
		82		152			70		
674	9.831 1183		9.964 6996		0.035 3004	9.866 4186		326	
675	9.831 1265	82	9.964 7149	153	0.035 2851	9.866 4117	69	325	
676	9.831 1347	82	9.964 7301	152	0.035 2699	9.866 4047	70	324	
		83		152			70		
677	9.831 1430		9.964 7453		0.035 2547	9.866 3977		323	
678	9.831 1512	82	9.964 7605	152	0.035 2395	9.866 3907	70	322	
679	9.831 1594	82	9.964 7757	152	0.035 2243	9.866 3837	70	321	
		82		152			70		
.680	9.831 1676		9.964 7909		0.035 2091	9.866 3767		**.320**	
		82		152			70		
681	9.831 1758		9.964 8061		0.035 1939	9.866 3697		319	
682	9.831 1841	83	9.964 8213	152	0.035 1787	9.866 3627	70	318	
683	9.831 1923	82	9.964 8365	152	0.035 1635	9.866 3557	70	317	
		82		152			69		
684	9.831 2005		9.964 8517		0.035 1483	9.866 3488		316	
685	9.831 2087	82	9.964 8670	153	0.035 1330	9.866 3418	70	315	
686	9.831 2169	82	9.964 8822	152	0.035 1178	9.866 3348	70	314	
		82		152			70		
687	9.831 2251		9.964 8974		0.035 1026	9.866 3278		313	
688	9.831 2334	83	9.964 9126	152	0.035 0874	9.866 3208	70	312	
689	9.831 2416	82	9.964 9278	152	0.035 0722	9.866 3138	70	311	
		82		152			70		
.690	9.831 2498		9.964 9430		0.035 0570	9.866 3068		**.310**	
		82		152			70		
691	9.831 2580		9.964 9582		0.035 0418	9.866 2998		309	
692	9.831 2662	82	9.964 9734	152	0.035 0266	9.866 2928	70	308	
693	9.831 2745	83	9.964 9886	152	0.035 0114	9.866 2858	70	307	
		82		152			70		
694	9.831 2827		9.965 0038		0.034 9962	9.866 2788		306	
695	9.831 2909	82	9.965 0190	152	0.034 9810	9.866 2718	70	305	
696	9.831 2991	82	9.965 0343	153	0.034 9657	9.866 2648	70	304	
		82		152			69		
697	9.831 3073		9.965 0495		0.034 9505	9.866 2579		303	
698	9.831 3155	82	9.965 0647	152	0.034 9353	9.866 2509	70	302	
699	9.831 3237	82	9.965 0799	152	0.034 9201	9.866 2439	70	301	
		83		152			70		
.700	9.831 3320		9.965 0951		0.034 9049	9.866 2369		**.300**	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	83	82
1	8.3	8.2
2	16.6	16.4
3	24.9	24.6
4	33.2	32.8
5	41.5	41.0
6	49.8	49.2
7	58.1	57.4
8	66.4	65.6
9	74.7	73.8

	70	69
1	7.0	6.9
2	14.0	13.8
3	21.0	20.7
4	28.0	27.6
5	35.0	34.5
6	42.0	41.4
7	49.0	48.3
8	56.0	55.2
9	63.0	62.1

47°.350 — 47°.300

42°.700 — 42°.750

42°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.831 3320		9.965 0951		0.034 9049	9.866 2369		**.300**	
		82		152			70		
701	9.831 3402		9.965 1103		0.034 8897	9.866 2299		299	
702	9.831 3484	82	9.965 1255	152	0.034 8745	9.866 2229	70	298	
703	9.831 3566	82	9.965 1407	152	0.034 8593	9.866 2159	70	297	
		82		152			70		
704	9.831 3648		9.965 1559		0.034 8441	9.866 2089		296	
705	9.831 3730	82	9.965 1711	152	0.034 8289	9.866 2019	70	295	
706	9.831 3812	82	9.965 1863	152	0.034 8137	9.866 1949	70	294	
		83		152			70		
707	9.831 3895		9.965 2015		0.034 7985	9.866 1879		293	
708	9.831 3977	82	9.965 2168	153	0.034 7832	9.866 1809	70	292	
709	9.831 4059	82	9.965 2320	152	0.034 7680	9.866 1739	70	291	
		82		152			70		
.710	9.831 4141		9.965 2472		0.034 7528	9.866 1669		**.290**	
		82		152			70		
711	9.831 4223		9.965 2624		0.034 7376	9.866 1599		289	
712	9.831 4305	82	9.965 2776	152	0.034 7224	9.866 1529	70	288	
713	9.831 4387	82	9.965 2928	152	0.034 7072	9.866 1459	70	287	
		82		152			70		
714	9.831 4469		9.965 3080		0.034 6920	9.866 1389		286	
715	9.831 4551	82	9.965 3232	152	0.034 6768	9.866 1319	70	285	
716	9.831 4633	82	9.965 3384	152	0.034 6616	9.866 1249	70	284	
		83		152			70		
717	9.831 4716		9.965 3536		0.034 6464	9.866 1179		283	
718	9.831 4798	82	9.965 3688	152	0.034 6312	9.866 1109	70	282	
719	9.831 4880	82	9.965 3840	152	0.034 6160	9.866 1039	70	281	
		82		153			70		
.720	9.831 4962		9.965 3993		0.034 6007	9.866 0969		**.280**	
		82		152			70		
721	9.831 5044		9.965 4145		0.034 5855	9.866 0899		279	
722	9.831 5126	82	9.965 4297	152	0.034 5703	9.866 0829	70	278	
723	9.831 5208	82	9.965 4449	152	0.034 5551	9.866 0759	70	277	
		82		152			70		
724	9.831 5290		9.965 4601		0.034 5399	9.866 0689		276	
725	9.831 5372	82	9.965 4753	152	0.034 5247	9.866 0619	70	275	
726	9.831 5454	82	9.965 4905	152	0.034 5095	9.866 0549	70	274	
		82		152			70		
727	9.831 5536		9.965 5057		0.034 4943	9.866 0479		273	
728	9.831 5618	82	9.965 5209	152	0.034 4791	9.866 0409	70	272	
729	9.831 5701	83	9.965 5361	152	0.034 4639	9.866 0339	70	271	
		82		152			70		
.730	9.831 5783		9.965 5513		0.034 4487	9.866 0269		**.270**	
		82		152			70		
731	9.831 5865		9.965 5665		0.034 4335	9.866 0199		269	
732	9.831 5947	82	9.965 5817	152	0.034 4183	9.866 0129	70	268	
733	9.831 6029	82	9.965 5970	153	0.034 4030	9.866 0059	70	267	
		82		152			70		
734	9.831 6111		9.965 6122		0.034 3878	9.865 9989		266	
735	9.831 6193	82	9.965 6274	152	0.034 3726	9.865 9919	70	265	
736	9.831 6275	82	9.965 6426	152	0.034 3574	9.865 9849	70	264	
		82		152			70		
737	9.831 6357		9.965 6578		0.034 3422	9.865 9779		263	
738	9.831 6439	82	9.965 6730	152	0.034 3270	9.865 9709	70	262	
739	9.831 6521	82	9.965 6882	152	0.034 3118	9.865 9639	70	261	
		82		152			70		
.740	9.831 6603		9.965 7034		0.034 2966	9.865 9569		**.260**	
		82		152			70		
741	9.831 6685		9.965 7186		0.034 2814	9.865 9499		259	
742	9.831 6767	82	9.965 7338	152	0.034 2662	9.865 9429	70	258	
743	9.831 6849	82	9.965 7490	152	0.034 2510	9.865 9359	70	257	
		82		152			70		
744	9.831 6931		9.965 7642		0.034 2358	9.865 9289		256	
745	9.831 7013	82	9.965 7794	152	0.034 2206	9.865 9219	70	255	
746	9.831 7095	82	9.965 7946	152	0.034 2054	9.865 9149	70	254	
		82		152			70		
747	9.831 7177		9.965 8098		0.034 1902	9.865 9079		253	
748	9.831 7259	82	9.965 8251	153	0.034 1749	9.865 9009	70	252	
749	9.831 7341	82	9.965 8403	152	0.034 1597	9.865 8938	71	251	
		82		152			70		
.750	9.831 7423		9.965 8555		0.034 1445	9.865 8868		**.250**	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	83	82
1	8.3	8.2
2	16.6	16.4
3	24.9	24.6
4	33.2	32.8
5	41.5	41.0
6	49.8	49.2
7	58.1	57.4
8	66.4	65.6
9	74.7	73.8

	71	70
1	7.1	7.0
2	14.2	14.0
3	21.3	21.0
4	28.4	28.0
5	35.5	35.0
6	42.6	42.0
7	49.7	49.0
8	56.8	56.0
9	63.9	63.0

47°.300 — 47°.250

42°.750 — 42°.800

42°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.831 7423		9.965 8555		0.034 1445	9.865 8868		.250	
		82		152			70		
751	9.831 7505		9.965 8707		0.034 1293	9.865 8798		249	
752	9.831 7587	82	9.965 8859	152	0.034 1141	9.865 8728	70	248	
753	9.831 7669	82	9.965 9011	152	0.034 0989	9.865 8658	70	247	
		82		152			70		
754	9.831 7751		9.965 9163		0.034 0837	9.865 8588		246	
755	9.831 7833	82	9.965 9315	152	0.034 0685	9.865 8518	70	245	
756	9.831 7915	82	9.965 9467	152	0.034 0533	9.865 8448	70	244	
		82		152			70		
757	9.831 7997		9.965 9619		0.034 0381	9.865 8378		243	
758	9.831 8079	82	9.965 9771	152	0.034 0229	9.865 8308	70	242	
759	9.831 8161	82	9.965 9923	152	0.034 0077	9.865 8238	70	241	
		82		152			70		
.760	9.831 8243		9.966 0075		0.033 9925	9.865 8168		.240	
		82		152			70		
761	9.831 8325		9.966 0227		0.033 9773	9.865 8098		239	
762	9.831 8407	82	9.966 0379	152	0.033 9621	9.865 8027	71	238	
763	9.831 8489	82	9.966 0532	153	0.033 9468	9.865 7957	70	237	
		82		152			70		
764	9.831 8571		9.966 0684		0.033 9316	9.865 7887		236	
765	9.831 8653	82	9.966 0836	152	0.033 9164	9.865 7817	70	235	
766	9.831 8735	82	9.966 0988	152	0.033 9012	9.865 7747	70	234	
		82		152			70		
767	9.831 8817		9.966 1140		0.033 8860	9.865 7677		233	
768	9.831 8899	82	9.966 1292	152	0.033 8708	9.865 7607	70	232	
769	9.831 8981	82	9.966 1444	152	0.033 8556	9.865 7537	70	231	
		82		152			70		
.770	9.831 9063		9.966 1596		0.033 8404	9.865 7467		.230	
		81		152			71		
771	9.831 9144		9.966 1748		0.033 8252	9.865 7396		229	
772	9.831 9226	82	9.966 1900	152	0.033 8100	9.865 7326	70	228	
773	9.831 9308	82	9.966 2052	152	0.033 7948	9.865 7256	70	227	
		82		152			70		
774	9.831 9390		9.966 2204		0.033 7796	9.865 7186		226	
775	9.831 9472	82	9.966 2356	152	0.033 7644	9.865 7116	70	225	
776	9.831 9554	82	9.966 2508	152	0.033 7492	9.865 7046	70	224	
		82		152			70		
777	9.831 9636		9.966 2660		0.033 7340	9.865 6976		223	
778	9.831 9718	82	9.966 2812	152	0.033 7188	9.865 6906	70	222	
779	9.831 9800	82	9.966 2964	152	0.033 7036	9.865 6835	71	221	
		82		152			70		
.780	9.831 9882		9.966 3116		0.033 6884	9.865 6765		.220	
		82		153			70		
781	9.831 9964		9.966 3269		0.033 6731	9.865 6695		219	
782	9.832 0046	82	9.966 3421	152	0.033 6579	9.865 6625	70	218	
783	9.832 0127	81	9.966 3573	152	0.033 6427	9.865 6555	70	217	
		82		152			70		
784	9.832 0209		9.966 3725		0.033 6275	9.865 6485		216	
785	9.832 0291	82	9.966 3877	152	0.033 6123	9.865 6415	70	215	
786	9.832 0373	82	9.966 4029	152	0.033 5971	9.865 6344	71	214	
		82		152			70		
787	9.832 0455		9.966 4181		0.033 5819	9.865 6274		213	
788	9.832 0537	82	9.966 4333	152	0.033 5667	9.865 6204	70	212	
789	9.832 0619	82	9.966 4485	152	0.033 5515	9.865 6134	70	211	
		82		152			70		
.790	9.832 0701		9.966 4637		0.033 5363	9.865 6064		.210	
		82		152			70		
791	9.832 0783		9.966 4789		0.033 5211	9.865 5994		209	
792	9.832 0865	82	9.966 4941	152	0.033 5059	9.865 5923	71	208	
793	9.832 0946	81	9.966 5093	152	0.033 4907	9.865 5853	70	207	
		82		152			70		
794	9.832 1028		9.966 5245		0.033 4755	9.865 5783		206	
795	9.832 1110	82	9.966 5397	152	0.033 4603	9.865 5713	70	205	
796	9.832 1192	82	9.966 5549	152	0.033 4451	9.865 5643	70	204	
		82		152			70		
797	9.832 1274		9.966 5701		0.033 4299	9.865 5573		203	
798	9.832 1356	82	9.966 5853	152	0.033 4147	9.865 5502	71	202	
799	9.832 1438	82	9.966 6005	152	0.033 3995	9.865 5432	70	201	
		81		152			70		
.800	9.832 1519		9.966 6157		0.033 3843	9.865 5362		.200	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	82	81
1	8.2	8.1
2	16.4	16.2
3	24.6	24.3
4	32.8	32.4
5	41.0	40.5
6	49.2	48.6
7	57.4	56.7
8	65.6	64.8
9	73.8	72.9

	71	70
1	7.1	7.0
2	14.2	14.0
3	21.3	21.0
4	28.4	28.0
5	35.5	35.0
6	42.6	42.0
7	49.7	49.0
8	56.8	56.0
9	63.9	63.0

47°.250 — 47°.200

42°.800 — 42°.850

42°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.832 1519		9.966 6157		0.033 3843	9.865 5362		**.200**	
		82		153			70		
801	9.832 1601		9.966 6310		0.033 3690	9.865 5292		199	
802	9.832 1683	82	9.966 6462	152	0.033 3538	9.865 5222	70	198	
803	9.832 1765	82	9.966 6614	152	0.033 3386	9.865 5151	71	197	
		82		152			70		
804	9.832 1847		9.966 6766		0.033 3234	9.865 5081		196	
805	9.832 1929	82	9.966 6918	152	0.033 3082	9.865 5011	70	195	
806	9.832 2011	82	9.966 7070	152	0.033 2930	9.865 4941	70	194	
		81		152			70		
807	9.832 2092		9.966 7222		0.033 2778	9.865 4871		193	
808	9.832 2174	82	9.966 7374	152	0.033 2626	9.865 4800	71	192	
809	9.832 2256	82	9.966 7526	152	0.033 2474	9.865 4730	70	191	
		82		152			70		
.810	9.832 2338		9.966 7678		0.033 2322	9.865 4660		**.190**	
		82		152			70		
811	9.832 2420		9.966 7830		0.033 2170	9.865 4590		189	
812	9.832 2502	82	9.966 7982	152	0.033 2018	9.865 4520	70	188	
813	9.832 2583	81	9.966 8134	152	0.033 1866	9.865 4449	71	187	
		82		152			70		
814	9.832 2665		9.966 8286		0.033 1714	9.865 4379		186	
815	9.832 2747	82	9.966 8438	152	0.033 1562	9.865 4309	70	185	
816	9.832 2829	82	9.966 8590	152	0.033 1410	9.865 4239	70	184	
		82		152			71		
817	9.832 2911		9.966 8742		0.033 1258	9.865 4168		183	
818	9.832 2992	81	9.966 8894	152	0.033 1106	9.865 4098	70	182	
819	9.832 3074	82	9.966 9046	152	0.033 0954	9.865 4028	70	181	
		82		152			70		
.820	9.832 3156		9.966 9198		0.033 0802	9.865 3958		**.180**	
		82		152			71		
821	9.832 3238		9.966 9350		0.033 0650	9.865 3887		179	
822	9.832 3320	82	9.966 9502	152	0.033 0498	9.865 3817	70	178	
823	9.832 3401	81	9.966 9654	152	0.033 0346	9.865 3747	70	177	
		82		152			70		
824	9.832 3483		9.966 9806		0.033 0194	9.865 3677		176	
825	9.832 3565	82	9.966 9958	152	0.033 0042	9.865 3606	71	175	
826	9.832 3647	82	9.967 0111	153	0.032 9889	9.865 3536	70	174	
		81		152			70		
827	9.832 3728		9.967 0263		0.032 9737	9.865 3466		173	
828	9.832 3810	82	9.967 0415	152	0.032 9585	9.865 3396	70	172	
829	9.832 3892	82	9.967 0567	152	0.032 9433	9.865 3325	71	171	
		82		152			70		
.830	9.832 3974		9.967 0719		0.032 9281	9.865 3255		**.170**	
		82		152			70		
831	9.832 4056		9.967 0871		0.032 9129	9.865 3185		169	
832	9.832 4137	81	9.967 1023	152	0.032 8977	9.865 3115	70	168	
833	9.832 4219	82	9.967 1175	152	0.032 8825	9.865 3044	71	167	
		82		152			70		
834	9.832 4301		9.967 1327		0.032 8673	9.865 2974		166	
835	9.832 4383	82	9.967 1479	152	0.032 8521	9.865 2904	70	165	
836	9.832 4464	81	9.967 1631	152	0.032 8369	9.865 2834	70	164	
		82		152			71		
837	9.832 4546		9.967 1783		0.032 8217	9.865 2763		163	
838	9.832 4628	82	9.967 1935	152	0.032 8065	9.865 2693	70	162	
839	9.832 4710	82	9.967 2087	152	0.032 7913	9.865 2623	70	161	
		81		152			71		
.840	9.832 4791		9.967 2239		0.032 7761	9.865 2552		**.160**	
		82		152			70		
841	9.832 4873		9.967 2391		0.032 7609	9.865 2482		159	
842	9.832 4955	82	9.967 2543	152	0.032 7457	9.865 2412	70	158	
843	9.832 5037	82	9.967 2695	152	0.032 7305	9.865 2342	70	157	
		81		152			71		
844	9.832 5118		9.967 2847		0.032 7153	9.865 2271		156	
845	9.832 5200	82	9.967 2999	152	0.032 7001	9.865 2201	70	155	
846	9.832 5282	82	9.967 3151	152	0.032 6849	9.865 2131	70	154	
		81		152			71		
847	9.832 5363		9.967 3303		0.032 6697	9.865 2060		153	
848	9.832 5445	82	9.967 3455	152	0.032 6545	9.865 1990	70	152	
849	9.832 5527	82	9.967 3607	152	0.032 6393	9.865 1920	70	151	
		82		152			71		
.850	9.832 5609		9.967 3759		0.032 6241	9.865 1849		**.150**	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	82	81
1	8.2	8.1
2	16.4	16.2
3	24.6	24.3
4	32.8	32.4
5	41.0	40.5
6	49.2	48.6
7	57.4	56.7
8	65.6	64.8
9	73.8	72.9

	71	70
1	7.1	7.0
2	14.2	14.0
3	21.3	21.0
4	28.4	28.0
5	35.5	35.0
6	42.6	42.0
7	49.7	49.0
8	56.8	56.0
9	63.9	63.0

47°.200 — 47°.150

42°.850 — 42°.900

42°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.832 5609		9.967 3759		0.032 6241	9.865 1849		**.150**	
		81		152			70		
851	9.832 5690		9.967 3911		0.032 6089	9.865 1779		149	
852	9.832 5772	82	9.967 4063	152	0.032 5937	9.865 1709	70	148	
853	9.832 5854	82	9.967 4215	152	0.032 5785	9.865 1638	71	147	
		81		152			70		
854	9.832 5935		9.967 4367		0.032 5633	9.865 1568		146	
855	9.832 6017	82	9.967 4519	152	0.032 5481	9.865 1498	70	145	
856	9.832 6099	82	9.967 4671	152	0.032 5329	9.865 1427	71	144	
		82		152			70		
857	9.832 6181		9.967 4823		0.032 5177	9.865 1357		143	
858	9.832 6262	81	9.967 4975	152	0.032 5025	9.865 1287	70	142	
859	9.832 6344	82	9.967 5127	152	0.032 4873	9.865 1216	71	141	
		82		152			70		
.860	9.832 6426		9.967 5279		0.032 4721	9.865 1146		**.140**	
		81		153			70		
861	9.832 6507		9.967 5432		0.032 4568	9.865 1076		139	
862	9.832 6589	82	9.967 5584	152	0.032 4416	9.865 1005	71	138	
863	9.832 6671	82	9.967 5736	152	0.032 4264	9.865 0935	70	137	
		81		152			70		
864	9.832 6752		9.967 5888		0.032 4112	9.865 0865		136	
865	9.832 6834	82	9.967 6040	152	0.032 3960	9.865 0794	71	135	
866	9.832 6916	82	9.967 6192	152	0.032 3808	9.865 0724	70	134	
		81		152			70		
867	9.832 6997		9.967 6344		0.032 3656	9.865 0654		133	
868	9.832 7079	82	9.967 6496	152	0.032 3504	9.865 0583	71	132	
869	9.832 7161	82	9.967 6648	152	0.032 3352	9.865 0513	70	131	
		81		152			70		
.870	9.832 7242		9.967 6800		0.032 3200	9.865 0443		**.130**	
		82		152			71		
871	9.832 7324		9.967 6952		0.032 3048	9.865 0372		129	
872	9.832 7406	82	9.967 7104	152	0.032 2896	9.865 0302	70	128	
873	9.832 7487	81	9.967 7256	152	0.032 2744	9.865 0232	70	127	
		82		152			71		
874	9.832 7569		9.967 7408		0.032 2592	9.865 0161		126	
875	9.832 7651	82	9.967 7560	152	0.032 2440	9.865 0091	70	125	
876	9.832 7732	81	9.967 7712	152	0.032 2288	9.865 0020	71	124	
		82		152			70		
877	9.832 7814		9.967 7864		0.032 2136	9.864 9950		123	
878	9.832 7895	81	9.967 8016	152	0.032 1984	9.864 9880	70	122	
879	9.832 7977	82	9.967 8168	152	0.032 1832	9.864 9809	71	121	
		82		152			70		
.880	9.832 8059		9.967 8320		0.032 1680	9.864 9739		**.120**	
		81		152			71		
881	9.832 8140		9.967 8472		0.032 1528	9.864 9668		119	
882	9.832 8222	82	9.967 8624	152	0.032 1376	9.864 9598	70	118	
883	9.832 8304	82	9.967 8776	152	0.032 1224	9.864 9528	70	117	
		81		152			71		
884	9.832 8385		9.967 8928		0.032 1072	9.864 9457		116	
885	9.832 8467	82	9.967 9080	152	0.032 0920	9.864 9387	70	115	
886	9.832 8548	81	9.967 9232	152	0.032 0768	9.864 9316	71	114	
		82		152			70		
887	9.832 8630		9.967 9384		0.032 0616	9.864 9246		113	
888	9.832 8712	82	9.967 9536	152	0.032 0464	9.864 9176	70	112	
889	9.832 8793	81	9.967 9688	152	0.032 0312	9.864 9105	71	111	
		82		152			70		
.890	9.832 8875		9.967 9840		0.032 0160	9.864 9035		**.110**	
		81		152			71		
891	9.832 8956		9.967 9992		0.032 0008	9.864 8964		109	
892	9.832 9038	82	9.968 0144	152	0.031 9856	9.864 8894	70	108	
893	9.832 9120	82	9.968 0296	152	0.031 9704	9.864 8824	70	107	
		81		152			71		
894	9.832 9201		9.968 0448		0.031 9552	9.864 8753		106	
895	9.832 9283	82	9.968 0600	152	0.031 9400	9.864 8683	70	105	
896	9.832 9364	81	9.968 0752	152	0.031 9248	9.864 8612	71	104	
		82		152			70		
897	9.832 9446		9.968 0904		0.031 9096	9.864 8542		103	
898	9.832 9528	82	9.968 1056	152	0.031 8944	9.864 8471	71	102	
899	9.832 9609	81	9.968 1208	152	0.031 8792	9.864 8401	70	101	
		82		152			70		
.900	9.832 9691		9.968 1360		0.031 8640	9.864 8331		**.100**	
	cos	d	cotg	d	tang	sin	d	**47°**	P.P.

	153	152
1	15.3	15.2
2	30.6	30.4
3	45.9	45.6
4	61.2	60.8
5	76.5	76.0
6	91.8	91.2
7	107.1	106.4
8	122.4	121.6
9	137.7	136.8

	82	81
1	8.2	8.1
2	16.4	16.2
3	24.6	24.3
4	32.8	32.4
5	41.0	40.5
6	49.2	48.6
7	57.4	56.7
8	65.6	64.8
9	73.8	72.9

	71	70
1	7.1	7.0
2	14.2	14.0
3	21.3	21.0
4	28.4	28.0
5	35.5	35.0
6	42.6	42.0
7	49.7	49.0
8	56.8	56.0
9	63.9	63.0

47°.150 — 47°.100

42°.900 — 42°.950

42°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.832 9691		9.968 1360		0.031 8640	9.864 8331		.100	
		81		152			71		
901	9.832 9772		9.968 1512		0.031 8488	9.864 8260		099	
902	9.832 9854	82	9.968 1664	152	0.031 8336	9.864 8190	70	098	
903	9.832 9935	81	9.968 1816	152	0.031 8184	9.864 8119	71	097	
		82		152			70		
904	9.833 0017		9.968 1968		0.031 8032	9.864 8049		096	
905	9.833 0098	81	9.968 2120	152	0.031 7880	9.864 7978	71	095	
906	9.833 0180	82	9.968 2272	152	0.031 7728	9.864 7908	70	094	
		82		152			70		
907	9.833 0262		9.968 2424		0.031 7576	9.864 7838		093	
908	9.833 0343	81	9.968 2576	152	0.031 7424	9.864 7767	71	092	
909	9.833 0425	82	9.968 2728	152	0.031 7272	9.864 7697	70	091	
		81		152			71		
.910	9.833 0506		9.968 2880		0.031 7120	9.864 7626		.090	
		82		152			70		
911	9.833 0588		9.968 3032		0.031 6968	9.864 7556		089	
912	9.833 0669	81	9.968 3184	152	0.031 6816	9.864 7485	71	088	
913	9.833 0751	82	9.968 3336	152	0.031 6664	9.864 7415	70	087	
		81		152			71		
914	9.833 0832		9.968 3488		0.031 6512	9.864 7344		086	
915	9.833 0914	82	9.968 3640	152	0.031 6360	9.864 7274	70	085	
916	9.833 0995	81	9.968 3792	152	0.031 6208	9.864 7203	71	084	
		82		152			70		
917	9.833 1077		9.968 3944		0.031 6056	9.864 7133		083	
918	9.833 1158	81	9.968 4096	152	0.031 5904	9.864 7062	71	082	
919	9.833 1240	82	9.968 4248	152	0.031 5752	9.864 6992	70	081	
		81		152			71		
.920	9.833 1321		9.968 4400		0.031 5600	9.864 6921		.080	
		82		152			70		
921	9.833 1403		9.968 4552		0.031 5448	9.864 6851		079	
922	9.833 1484	81	9.968 4704	152	0.031 5296	9.864 6780	71	078	
923	9.833 1566	82	9.968 4856	152	0.031 5144	9.864 6710	70	077	
		81		152			71		
924	9.833 1647		9.968 5008		0.031 4992	9.864 6639		076	
925	9.833 1729	82	9.968 5160	152	0.031 4840	9.864 6569	70	075	
926	9.833 1810	81	9.968 5312	152	0.031 4688	9.864 6498	71	074	
		82		152			70		
927	9.833 1892		9.968 5464		0.031 4536	9.864 6428		073	
928	9.833 1973	81	9.968 5616	152	0.031 4384	9.864 6357	71	072	
929	9.833 2055	82	9.968 5768	152	0.031 4232	9.864 6287	70	071	
		81		152			71		
.930	9.833 2136		9.968 5920		0.031 4080	9.864 6216		.070	
		82		152			70		
931	9.833 2218		9.968 6072		0.031 3928	9.864 6146		069	
932	9.833 2299	81	9.968 6224	152	0.031 3776	9.864 6075	71	068	
933	9.833 2381	82	9.968 6376	152	0.031 3624	9.864 6005	70	067	
		81		152			71		
934	9.833 2462		9.968 6528		0.031 3472	9.864 5934		066	
935	9.833 2544	82	9.968 6680	152	0.031 3320	9.864 5864	70	065	
936	9.833 2625	81	9.968 6832	152	0.031 3168	9.864 5793	71	064	
		82		152			70		
937	9.833 2707		9.968 6984		0.031 3016	9.864 5723		063	
938	9.833 2788	81	9.968 7136	152	0.031 2864	9.864 5652	71	062	
939	9.833 2870	82	9.968 7288	152	0.031 2712	9.864 5582	70	061	
		81		152			71		
.940	9.833 2951		9.968 7440		0.031 2560	9.864 5511		.060	
		82		152			70		
941	9.833 3033		9.968 7592		0.031 2408	9.864 5441		059	
942	9.833 3114	81	9.968 7744	152	0.031 2256	9.864 5370	71	058	
943	9.833 3195	81	9.968 7896	152	0.031 2104	9.864 5300	70	057	
		82		152			71		
944	9.833 3277		9.968 8048		0.031 1952	9.864 5229		056	
945	9.833 3358	81	9.968 8200	152	0.031 1800	9.864 5158	71	055	
946	9.833 3440	82	9.968 8352	152	0.031 1648	9.864 5088	70	054	
		81		152			71		
947	9.833 3521		9.968 8504		0.031 1496	9.864 5017		053	
948	9.833 3603	82	9.968 8656	152	0.031 1344	9.864 4947	70	052	
949	9.833 3684	81	9.968 8808	152	0.031 1192	9.864 4876	71	051	
		82		152			70		
.950	9.833 3766		9.968 8960		0.031 1040	9.864 4806		.050	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	152
1	15.2
2	30.4
3	45.6
4	60.8
5	76.0
6	91.2
7	106.4
8	121.6
9	136.8

	82	81
1	8.2	8.1
2	16.4	16.2
3	24.6	24.3
4	32.8	32.4
5	41.0	40.5
6	49.2	48.6
7	57.4	56.7
8	65.6	64.8
9	73.8	72.9

	71	70
1	7.1	7.0
2	14.2	14.0
3	21.3	21.0
4	28.4	28.0
5	35.5	35.0
6	42.6	42.0
7	49.7	49.0
8	56.8	56.0
9	63.9	63.0

47°.100 — 47°.050

42°.950 — 43°.000

42°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.833 3766		9.968 8960		0.031 1040	9.864 4806		.050	
		81		152			71		
951	9.833 3847		9.968 9112		0.031 0888	9.864 4735		049	
952	9.833 3928	81	9.968 9264	152	0.031 0736	9.864 4665	70	048	
953	9.833 4010	82	9.968 9416	152	0.031 0584	9.864 4594	71	047	
		81		152			71		
954	9.833 4091		9.968 9568		0.031 0432	9.864 4523		046	
955	9.833 4173	82	9.968 9720	152	0.031 0280	9.864 4453	70	045	
956	9.833 4254	81	9.968 9872	152	0.031 0128	9.864 4382	71	044	
		81		152			70		
957	9.833 4335		9.969 0024		0.030 9976	9.864 4312		043	
958	9.833 4417	82	9.969 0176	152	0.030 9824	9.864 4241	71	042	
959	9.833 4498	81	9.969 0328	152	0.030 9672	9.864 4171	70	041	
		82		152			71		
.960	9.833 4580		9.969 0480		0.030 9520	9.864 4100		.040	
		81		152			71		
961	9.833 4661		9.969 0632		0.030 9368	9.864 4029		039	
962	9.833 4742	81	9.969 0784	152	0.030 9216	9.864 3959	70	038	
963	9.833 4824	82	9.969 0936	152	0.030 9064	9.864 3888	71	037	
		81		152			70		
964	9.833 4905		9.969 1088		0.030 8912	9.864 3818		036	
965	9.833 4987	82	9.969 1240	152	0.030 8760	9.864 3747	71	035	
966	9.833 5068	81	9.969 1392	152	0.030 8608	9.864 3676	71	034	
		81		152			70		
967	9.833 5149		9.969 1544		0.030 8456	9.864 3606		033	
968	9.833 5231	82	9.969 1696	152	0.030 8304	9.864 3535	71	032	
969	9.833 5312	81	9.969 1847	151	0.030 8153	9.864 3465	70	031	
		81		152			71		
.970	9.833 5393		9.969 1999		0.030 8001	9.864 3394		.030	
		82		152			71		
971	9.833 5475		9.969 2151		0.030 7849	9.864 3323		029	
972	9.833 5556	81	9.969 2303	152	0.030 7697	9.864 3253	70	028	
973	9.833 5638	82	9.969 2455	152	0.030 7545	9.864 3182	71	027	
		81		152			70		
974	9.833 5719		9.969 2607		0.030 7393	9.864 3112		026	
975	9.833 5800	81	9.969 2759	152	0.030 7241	9.864 3041	71	025	
976	9.833 5882	82	9.969 2911	152	0.030 7089	9.864 2970	71	024	
		81		152			70		
977	9.833 5963		9.969 3063		0.030 6937	9.864 2900		023	
978	9.833 6044	81	9.969 3215	152	0.030 6785	9.864 2829	71	022	
979	9.833 6126	82	9.969 3367	152	0.030 6633	9.864 2758	71	021	
		81		152			70		
.980	9.833 6207		9.969 3519		0.030 6481	9.864 2688		.020	
		81		152			71		
981	9.833 6288		9.969 3671		0.030 6329	9.864 2617		019	
982	9.833 6370	82	9.969 3823	152	0.030 6177	9.864 2547	70	018	
983	9.833 6451	81	9.969 3975	152	0.030 6025	9.864 2476	71	017	
		81		152			71		
984	9.833 6532		9.969 4127		0.030 5873	9.864 2405		016	
985	9.833 6614	82	9.969 4279	152	0.030 5721	9.864 2335	70	015	
986	9.833 6695	81	9.969 4431	152	0.030 5569	9.864 2264	71	014	
		81		152			71		
987	9.833 6776		9.969 4583		0.030 5417	9.864 2193		013	
988	9.833 6858	82	9.969 4735	152	0.030 5265	9.864 2123	70	012	
989	9.833 6939	81	9.969 4887	152	0.030 5113	9.864 2052	71	011	
		81		152			71		
.990	9.833 7020		9.969 5039		0.030 4961	9.864 1981		.010	
		82		152			70		
991	9.833 7102		9.969 5191		0.030 4809	9.864 1911		009	
992	9.833 7183	81	9.969 5343	152	0.030 4657	9.864 1840	71	008	
993	9.833 7264	81	9.969 5495	152	0.030 4505	9.864 1769	71	007	
		82		152			70		
994	9.833 7346		9.969 5647		0.030 4353	9.864 1699		006	
995	9.833 7427	81	9.969 5799	152	0.030 4201	9.864 1628	71	005	
996	9.833 7508	81	9.969 5951	152	0.030 4049	9.864 1557	71	004	
		81		152			70		
997	9.833 7589		9.969 6103		0.030 3897	9.864 1487		003	
998	9.833 7671	82	9.969 6255	152	0.030 3745	9.864 1416	71	002	
999	9.833 7752	81	9.969 6407	152	0.030 3593	9.864 1345	71	001	
		81		152			70		
*000	9.833 7833		9.969 6559		0.030 3441	9.864 1275		.000	
	cos	d	cotg	d	tang	sin	d	47°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	82	81
1	8.2	8.1
2	16.4	16.2
3	24.6	24.3
4	32.8	32.4
5	41.0	40.5
6	49.2	48.6
7	57.4	56.7
8	65.6	64.8
9	73.8	72.9

	71	70
1	7.1	7.0
2	14.2	14.0
3	21.3	21.0
4	28.4	28.0
5	35.5	35.0
6	42.6	42.0
7	49.7	49.0
8	56.8	56.0
9	63.9	63.0

47°.050 — 47°.000

43°.000 — 43°.050

43°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.833 7833		9.969 6559		0.030 3441	9.864 1275		***000**	
		82		152			71		
001	9.833 7915		9.969 6711		0.030 3289	9.864 1204		999	
002	9.833 7996	81	9.969 6863	152	0.030 3137	9.864 1133	71	998	
003	9.833 8077	81	9.969 7015	152	0.030 2985	9.864 1063	70	997	
		81		152			71		
004	9.833 8158		9.969 7167		0.030 2833	9.864 0992		996	
005	9.833 8240	82	9.969 7318	151	0.030 2682	9.864 0921	71	995	
006	9.833 8321	81	9.969 7470	152	0.030 2530	9.864 0850	71	994	
		81		152			70		
007	9.833 8402		9.969 7622		0.030 2378	9.864 0780		993	
008	9.833 8483	81	9.969 7774	152	0.030 2226	9.864 0709	71	992	
009	9.833 8565	82	9.969 7926	152	0.030 2074	9.864 0638	71	991	
		81		152			70		
.010	9.833 8646		9.969 8078		0.030 1922	9.864 0568		**.990**	
		81		152			71		
011	9.833 8727		9.969 8230		0.030 1770	9.864 0497		989	
012	9.833 8809	82	9.969 8382	152	0.030 1618	9.864 0426	71	988	
013	9.833 8890	81	9.969 8534	152	0.030 1466	9.864 0356	70	987	
		81		152			71		
014	9.833 8971		9.969 8686		0.030 1314	9.864 0285		986	
015	9.833 9052	81	9.969 8838	152	0.030 1162	9.864 0214	71	985	
016	9.833 9133	81	9.969 8990	152	0.030 1010	9.864 0143	71	984	
		82		152			70		
017	9.833 9215		9.969 9142		0.030 0858	9.864 0073		983	
018	9.833 9296	81	9.969 9294	152	0.030 0706	9.864 0002	71	982	
019	9.833 9377	81	9.969 9446	152	0.030 0554	9.863 9931	71	981	
		81		152			71		
.020	9.833 9458		9.969 9598		0.030 0402	9.863 9860		**.980**	
		82		152			70		
021	9.833 9540		9.969 9750		0.030 0250	9.863 9790		979	
022	9.833 9621	81	9.969 9902	152	0.030 0098	9.863 9719	71	978	
023	9.833 9702	81	9.970 0054	152	0.029 9946	9.863 9648	71	977	
		81		152			70		
024	9.833 9783		9.970 0206		0.029 9794	9.863 9578		976	
025	9.833 9865	82	9.970 0358	152	0.029 9642	9.863 9507	71	975	
026	9.833 9946	81	9.970 0510	152	0.029 9490	9.863 9436	71	974	
		81		152			71		
027	9.834 0027		9.970 0662		0.029 9338	9.863 9365		973	
028	9.834 0108	81	9.970 0814	152	0.029 9186	9.863 9295	70	972	
029	9.834 0189	81	9.970 0966	152	0.029 9034	9.863 9224	71	971	
		82		152			71		
.030	9.834 0271		9.970 1118		0.029 8882	9.863 9153		**.970**	
		81		151			71		
031	9.834 0352		9.970 1269		0.029 8731	9.863 9082		969	
032	9.834 0433	81	9.970 1421	152	0.029 8579	9.863 9012	70	968	
033	9.834 0514	81	9.970 1573	152	0.029 8427	9.863 8941	71	967	
		81		152			71		
034	9.834 0595		9.970 1725		0.029 8275	9.863 8870		966	
035	9.834 0677	82	9.970 1877	152	0.029 8123	9.863 8799	71	965	
036	9.834 0758	81	9.970 2029	152	0.029 7971	9.863 8728	71	964	
		81		152			70		
037	9.834 0839		9.970 2181		0.029 7819	9.863 8658		963	
038	9.834 0920	81	9.970 2333	152	0.029 7667	9.863 8587	71	962	
039	9.834 1001	81	9.970 2485	152	0.029 7515	9.863 8516	71	961	
		81		152			71		
.040	9.834 1082		9.970 2637		0.029 7363	9.863 8445		**.960**	
		82		152			70		
041	9.834 1164		9.970 2789		0.029 7211	9.863 8375		959	
042	9.834 1245	81	9.970 2941	152	0.029 7059	9.863 8304	71	958	
043	9.834 1326	81	9.970 3093	152	0.029 6907	9.863 8233	71	957	
		81		152			71		
044	9.834 1407		9.970 3245		0.029 6755	9.863 8162		956	
045	9.834 1488	81	9.970 3397	152	0.029 6603	9.863 8091	71	955	
046	9.834 1569	81	9.970 3549	152	0.029 6451	9.863 8021	70	954	
		82		152			71		
047	9.834 1651		9.970 3701		0.029 6299	9.863 7950		953	
048	9.834 1732	81	9.970 3853	152	0.029 6147	9.863 7879	71	952	
049	9.834 1813	81	9.970 4005	152	0.029 5995	9.863 7808	71	951	
		81		152			71		
.050	9.834 1894		9.970 4157		0.029 5843	9.863 7737		**.950**	
	cos	d	cotg	d	tang	sin	d	**46°**	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	82	81
1	8.2	8.1
2	16.4	16.2
3	24.6	24.3
4	32.8	32.4
5	41.0	40.5
6	49.2	48.6
7	57.4	56.7
8	65.6	64.8
9	73.8	72.9

	71	70
1	7.1	7.0
2	14.2	14.0
3	21.3	21.0
4	28.4	28.0
5	35.5	35.0
6	42.6	42.0
7	49.7	49.0
8	56.8	56.0
9	63.9	63.0

47°.000 — 46°.950

43°.050 — 43°.100

43°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.834 1894		9.970 4157		0.029 5843	9.863 7737		**.950**	
		81		152			70		
051	9.834 1975		9.970 4309		0.029 5691	9.863 7667		949	
052	9.834 2056	81	9.970 4460	151	0.029 5540	9.863 7596	71	948	
053	9.834 2137	81	9.970 4612	152	0.029 5388	9.863 7525	71	947	
		82		152			71		
054	9.834 2219		9.970 4764		0.029 5236	9.863 7454		946	
055	9.834 2300	81	9.970 4916	152	0.029 5084	9.863 7383	71	945	
056	9.834 2381	81	9.970 5068	152	0.029 4932	9.863 7312	71	944	
		81		152			70		
057	9.834 2462		9.970 5220		0.029 4780	9.863 7242		943	
058	9.834 2543	81	9.970 5372	152	0.029 4628	9.863 7171	71	942	
059	9.834 2624	81	9.970 5524	152	0.029 4476	9.863 7100	71	941	
		81		152			71		
.060	9.834 2705		9.970 5676		0.029 4324	9.863 7029		**.940**	
		81		152			71		
061	9.834 2786		9.970 5828		0.029 4172	9.863 6958		939	
062	9.834 2867	81	9.970 5980	152	0.029 4020	9.863 6888	70	938	
063	9.834 2949	82	9.970 6132	152	0.029 3868	9.863 6817	71	937	
		81		152			71		
064	9.834 3030		9.970 6284		0.029 3716	9.863 6746		936	
065	9.834 3111	81	9.970 6436	152	0.029 3564	9.863 6675	71	935	
066	9.834 3192	81	9.970 6588	152	0.029 3412	9.863 6604	71	934	
		81		152			71		
067	9.834 3273		9.970 6740		0.029 3260	9.863 6533		933	
068	9.834 3354	81	9.970 6892	152	0.029 3108	9.863 6462	71	932	
069	9.834 3435	81	9.970 7044	152	0.029 2956	9.863 6392	70	931	
		81		151			71		
.070	9.834 3516		9.970 7195		0.029 2805	9.863 6321		**.930**	
		81		152			71		
071	9.834 3597		9.970 7347		0.029 2653	9.863 6250		929	
072	9.834 3678	81	9.970 7499	152	0.029 2501	9.863 6179	71	928	
073	9.834 3759	81	9.970 7651	152	0.029 2349	9.863 6108	71	927	
		82		152			71		
074	9.834 3841		9.970 7803		0.029 2197	9.863 6037		926	
075	9.834 3922	81	9.970 7955	152	0.029 2045	9.863 5966	71	925	
076	9.834 4003	81	9.970 8107	152	0.029 1893	9.863 5896	70	924	
		81		152			71		
077	9.834 4084		9.970 8259		0.029 1741	9.863 5825		923	
078	9.834 4165	81	9.970 8411	152	0.029 1589	9.863 5754	71	922	
079	9.834 4246	81	9.970 8563	152	0.029 1437	9.863 5683	71	921	
		81		152			71		
.080	9.834 4327		9.970 8715		0.029 1285	9.863 5612		**.920**	
		81		152			71		
081	9.834 4408		9.970 8867		0.029 1133	9.863 5541		919	
082	9.834 4489	81	9.970 9019	152	0.029 0981	9.863 5470	71	918	
083	9.834 4570	81	9.970 9171	152	0.029 0829	9.863 5399	71	917	
		81		152			71		
084	9.834 4651		9.970 9323		0.029 0677	9.863 5328		916	
085	9.834 4732	81	9.970 9475	152	0.029 0525	9.863 5258	70	915	
086	9.834 4813	81	9.970 9627	152	0.029 0373	9.863 5187	71	914	
		81		151			71		
087	9.834 4894		9.970 9778		0.029 0222	9.863 5116		913	
088	9.834 4975	81	9.970 9930	152	0.029 0070	9.863 5045	71	912	
089	9.834 5056	81	9.971 0082	152	0.028 9918	9.863 4974	71	911	
		81		152			71		
.090	9.834 5137		9.971 0234		0.028 9766	9.863 4903		**.910**	
		81		152			71		
091	9.834 5218		9.971 0386		0.028 9614	9.863 4832		909	
092	9.834 5299	81	9.971 0538	152	0.028 9462	9.863 4761	71	908	
093	9.834 5380	81	9.971 0690	152	0.028 9310	9.863 4690	71	907	
		81		152			71		
094	9.834 5461		9.971 0842		0.028 9158	9.863 4619		906	
095	9.834 5542	81	9.971 0994	152	0.028 9006	9.863 4549	70	905	
096	9.834 5623	81	9.971 1146	152	0.028 8854	9.863 4478	71	904	
		82		152			71		
097	9.834 5705		9.971 1298		0.028 8702	9.863 4407		903	
098	9.834 5786	81	9.971 1450	152	0.028 8550	9.863 4336	71	902	
099	9.834 5867	81	9.971 1602	152	0.028 8398	9.863 4265	71	901	
		81		152			71		
.100	9.834 5948		9.971 1754		0.028 8246	9.863 4194		**.900**	
	cos	d	cotg	d	tang	sin	d	**46°**	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	82	81
1	8.2	8.1
2	16.4	16.2
3	24.6	24.3
4	32.8	32.4
5	41.0	40.5
6	49.2	48.6
7	57.4	56.7
8	65.6	64.8
9	73.8	72.9

	71	70
1	7.1	7.0
2	14.2	14.0
3	21.3	21.0
4	28.4	28.0
5	35.5	35.0
6	42.6	42.0
7	49.7	49.0
8	56.8	56.0
9	63.9	63.0

46°.950 — 46°.900

43°.100 — 43°.150

43°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.834 5948		9.971 1754		0.028 8246	9.863 4194		.900	
		81		152			71		
101	9.834 6029	81	9.971 1906	151	0.028 8094	9.863 4123	71	899	
102	9.834 6110	81	9.971 2057	152	0.028 7943	9.863 4052	71	898	
103	9.834 6191	80	9.971 2209	152	0.028 7791	9.863 3981	71	897	
104	9.834 6271	81	9.971 2361	152	0.028 7639	9.863 3910	71	896	
105	9.834 6352	81	9.971 2513	152	0.028 7487	9.863 3839	71	895	
106	9.834 6433	81	9.971 2665	152	0.028 7335	9.863 3768	71	894	
107	9.834 6514	81	9.971 2817	152	0.028 7183	9.863 3697	71	893	
108	9.834 6595	81	9.971 2969	152	0.028 7031	9.863 3626	71	892	
109	9.834 6676	81	9.971 3121	152	0.028 6879	9.863 3555	71	891	
.110	9.834 6757	81	9.971 3273	152	0.028 6727	9.863 3484	70	.890	
111	9.834 6838	81	9.971 3425	152	0.028 6575	9.863 3414	71	889	
112	9.834 6919	81	9.971 3577	152	0.028 6423	9.863 3343	71	888	
113	9.834 7000	81	9.971 3729	152	0.028 6271	9.863 3272	71	887	
114	9.834 7081	81	9.971 3881	152	0.028 6119	9.863 3201	71	886	
115	9.834 7162	81	9.971 4033	151	0.028 5967	9.863 3130	71	885	
116	9.834 7243	81	9.971 4184	152	0.028 5816	9.863 3059	71	884	
117	9.834 7324	81	9.971 4336	152	0.028 5664	9.863 2988	71	883	
118	9.834 7405	81	9.971 4488	152	0.028 5512	9.863 2917	71	882	
119	9.834 7486	81	9.971 4640	152	0.028 5360	9.863 2846	71	881	
.120	9.834 7567	81	9.971 4792	152	0.028 5208	9.863 2775	71	.880	
121	9.834 7648	81	9.971 4944	152	0.028 5056	9.863 2704	71	879	
122	9.834 7729	81	9.971 5096	152	0.028 4904	9.863 2633	71	878	
123	9.834 7810	81	9.971 5248	152	0.028 4752	9.863 2562	71	877	
124	9.834 7891	81	9.971 5400	152	0.028 4600	9.863 2491	71	876	
125	9.834 7972	81	9.971 5552	152	0.028 4448	9.863 2420	71	875	
126	9.834 8053	80	9.971 5704	152	0.028 4296	9.863 2349	71	874	
127	9.834 8133	81	9.971 5856	152	0.028 4144	9.863 2278	71	873	
128	9.834 8214	81	9.971 6008	152	0.028 3992	9.863 2207	71	872	
129	9.834 8295	81	9.971 6159	151	0.028 3841	9.863 2136	71	871	
.130	9.834 8376	81	9.971 6311	152	0.028 3689	9.863 2065	71	.870	
131	9.834 8457	81	9.971 6463	152	0.028 3537	9.863 1994	71	869	
132	9.834 8538	81	9.971 6615	152	0.028 3385	9.863 1923	71	868	
133	9.834 8619	81	9.971 6767	152	0.028 3233	9.863 1852	71	867	
134	9.834 8700	81	9.971 6919	152	0.028 3081	9.863 1781	71	866	
135	9.834 8781	81	9.971 7071	152	0.028 2929	9.863 1710	71	865	
136	9.834 8862	81	9.971 7223	152	0.028 2777	9.863 1639	71	864	
137	9.834 8943	80	9.971 7375	152	0.028 2625	9.863 1568	71	863	
138	9.834 9023	81	9.971 7527	152	0.028 2473	9.863 1497	71	862	
139	9.834 9104	81	9.971 7679	152	0.028 2321	9.863 1426	71	861	
.140	9.834 9185	81	9.971 7831	151	0.028 2169	9.863 1355	71	.860	
141	9.834 9266	81	9.971 7982	152	0.028 2018	9.863 1284	71	859	
142	9.834 9347	81	9.971 8134	152	0.028 1866	9.863 1213	71	858	
143	9.834 9428	81	9.971 8286	152	0.028 1714	9.863 1142	71	857	
144	9.834 9509	81	9.971 8438	152	0.028 1562	9.863 1071	71	856	
145	9.834 9590	81	9.971 8590	152	0.028 1410	9.863 1000	72	855	
146	9.834 9671	80	9.971 8742	152	0.028 1258	9.863 0928	71	854	
147	9.834 9751	81	9.971 8894	152	0.028 1106	9.863 0857	71	853	
148	9.834 9832	81	9.971 9046	152	0.028 0954	9.863 0786	71	852	
149	9.834 9913	81	9.971 9198	152	0.028 0802	9.863 0715	71	851	
.150	9.834 9994		9.971 9350		0.028 0650	9.863 0644		.850	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	81	80
1	8.1	8.0
2	16.2	16.0
3	24.3	24.0
4	32.4	32.0
5	40.5	40.0
6	48.6	48.0
7	56.7	56.0
8	64.8	64.0
9	72.9	72.0

	72	71
1	7.2	7.1
2	14.4	14.2
3	21.6	21.3
4	28.8	28.4
5	36.0	35.5
6	43.2	42.6
7	50.4	49.7
8	57.6	56.8
9	64.8	63.9

	70
1	7.0
2	14.0
3	21.0
4	28.0
5	35.0
6	42.0
7	49.0
8	56.0
9	63.0

46°.900 — 46°.850

43°.150 — 43°.200

43°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.834 9994		9.971 9350		0.028 0650	9.863 0644		.850	
		81		152			71		
151	9.835 0075		9.971 9502		0.028 0498	9.863 0573		849	
152	9.835 0156	81	9.971 9654	152	0.028 0346	9.863 0502	71	848	
153	9.835 0237	81	9.971 9805	151	0.028 0195	9.863 0431	71	847	
		80		152			71		
154	9.835 0317		9.971 9957		0.028 0043	9.863 0360		846	
155	9.835 0398	81	9.972 0109	152	0.027 9891	9.863 0289	71	845	
156	9.835 0479	81	9.972 0261	152	0.027 9739	9.863 0218	71	844	
		81		152			71		
157	9.835 0560		9.972 0413		0.027 9587	9.863 0147		843	
158	9.835 0641	81	9.972 0565	152	0.027 9435	9.863 0076	71	842	
159	9.835 0722	81	9.972 0717	152	0.027 9283	9.863 0005	71	841	
		80		152			71		
.160	9.835 0802		9.972 0869		0.027 9131	9.862 9934		.840	
		81		152			72		
161	9.835 0883		9.972 1021		0.027 8979	9.862 9862		839	
162	9.835 0964	81	9.972 1173	152	0.027 8827	9.862 9791	71	838	
163	9.835 1045	81	9.972 1325	152	0.027 8675	9.862 9720	71	837	
		81		151			71		
164	9.835 1126		9.972 1476		0.027 8524	9.862 9649		836	
165	9.835 1207	81	9.972 1628	152	0.027 8372	9.862 9578	71	835	
166	9.835 1287	80	9.972 1780	152	0.027 8220	9.862 9507	71	834	
		81		152			71		
167	9.835 1368		9.972 1932		0.027 8068	9.862 9436		833	
168	9.835 1449	81	9.972 2084	152	0.027 7916	9.862 9365	71	832	
169	9.835 1530	81	9.972 2236	152	0.027 7764	9.862 9294	71	831	
		81		152			71		
.170	9.835 1611		9.972 2388		0.027 7612	9.862 9223		.830	
		80		152			71		
171	9.835 1691		9.972 2540		0.027 7460	9.862 9152		829	
172	9.835 1772	81	9.972 2692	152	0.027 7308	9.862 9080	72	828	
173	9.835 1853	81	9.972 2844	152	0.027 7156	9.862 9009	71	827	
		81		152			71		
174	9.835 1934		9.972 2996		0.027 7004	9.862 8938		826	
175	9.835 2015	81	9.972 3147	151	0.027 6853	9.862 8867	71	825	
176	9.835 2095	80	9.972 3299	152	0.027 6701	9.862 8796	71	824	
		81		152			71		
177	9.835 2176		9.972 3451		0.027 6549	9.862 8725		823	
178	9.835 2257	81	9.972 3603	152	0.027 6397	9.862 8654	71	822	
179	9.835 2338	81	9.972 3755	152	0.027 6245	9.862 8583	71	821	
		80		152			72		
.180	9.835 2418		9.972 3907		0.027 6093	9.862 8511		.820	
		81		152			71		
181	9.835 2499		9.972 4059		0.027 5941	9.862 8440		819	
182	9.835 2580	81	9.972 4211	152	0.027 5789	9.862 8369	71	818	
183	9.835 2661	81	9.972 4363	152	0.027 5637	9.862 8298	71	817	
		81		152			71		
184	9.835 2742		9.972 4515		0.027 5485	9.862 8227		816	
185	9.835 2822	80	9.972 4667	152	0.027 5333	9.862 8156	71	815	
186	9.835 2903	81	9.972 4818	151	0.027 5182	9.862 8085	71	814	
		81		152			71		
187	9.835 2984		9.972 4970		0.027 5030	9.862 8014		813	
188	9.835 3065	81	9.972 5122	152	0.027 4878	9.862 7942	72	812	
189	9.835 3145	80	9.972 5274	152	0.027 4726	9.862 7871	71	811	
		81		152			71		
.190	9.835 3226		9.972 5426		0.027 4574	9.862 7800		.810	
		81		152			71		
191	9.835 3307		9.972 5578		0.027 4422	9.862 7729		809	
192	9.835 3388	81	9.972 5730	152	0.027 4270	9.862 7658	71	808	
193	9.835 3468	80	9.972 5882	152	0.027 4118	9.862 7587	71	807	
		81		152			72		
194	9.835 3549		9.972 6034		0.027 3966	9.862 7515		806	
195	9.835 3630	81	9.972 6186	152	0.027 3814	9.862 7444	71	805	
196	9.835 3710	80	9.972 6337	151	0.027 3663	9.862 7373	71	804	
		81		152			71		
197	9.835 3791		9.972 6489		0.027 3511	9.862 7302		803	
198	9.835 3872	81	9.972 6641	152	0.027 3359	9.862 7231	71	802	
199	9.835 3953	81	9.972 6793	152	0.027 3207	9.862 7160	71	801	
		80		152			72		
.200	9.835 4033		9.972 6945		0.027 3055	9.862 7088		.800	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	81	80
1	8.1	8.0
2	16.2	16.0
3	24.3	24.0
4	32.4	32.0
5	40.5	40.0
6	48.6	48.0
7	56.7	56.0
8	64.8	64.0
9	72.9	72.0

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

	71
1	7.1
2	14.2
3	21.3
4	28.4
5	35.5
6	42.6
7	49.7
8	56.8
9	63.9

46°.850 — 46°.800

43°.200 — 43°.250

43°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.835 4033		9.972 6945		0.027 3055	9.862 7088		.800	
		81		152			71		
201	9.835 4114		9.972 7097		0.027 2903	9.862 7017		799	
202	9.835 4195	81	9.972 7249	152	0.027 2751	9.862 6946	71	798	
203	9.835 4276	81	9.972 7401	152	0.027 2599	9.862 6875	71	797	
		80		152			71		
204	9.835 4356		9.972 7553		0.027 2447	9.862 6804		796	
205	9.835 4437	81	9.972 7704	151	0.027 2296	9.862 6732	72	795	
206	9.835 4518	81	9.972 7856	152	0.027 2144	9.862 6661	71	794	
		80		152			71		
207	9.835 4598		9.972 8008		0.027 1992	9.862 6590		793	
208	9.835 4679	81	9.972 8160	152	0.027 1840	9.862 6519	71	792	
209	9.835 4760	81	9.972 8312	152	0.027 1688	9.862 6448	71	791	
		80		152			72		
.210	9.835 4840		9.972 8464		0.027 1536	9.862 6376		.790	
		81		152			71		
211	9.835 4921		9.972 8616		0.027 1384	9.862 6305		789	
212	9.835 5002	81	9.972 8768	152	0.027 1232	9.862 6234	71	788	
213	9.835 5082	80	9.972 8920	152	0.027 1080	9.862 6163	71	787	
		81		152			71		
214	9.835 5163		9.972 9072		0.027 0928	9.862 6092		786	
215	9.835 5244	81	9.972 9223	151	0.027 0777	9.862 6020	72	785	
216	9.835 5325	81	9.972 9375	152	0.027 0625	9.862 5949	71	784	
		80		152			71		
217	9.835 5405		9.972 9527		0.027 0473	9.862 5878		783	
218	9.835 5486	81	9.972 9679	152	0.027 0321	9.862 5807	71	782	
219	9.835 5567	81	9.972 9831	152	0.027 0169	9.862 5736	71	781	
		80		152			72		
.220	9.835 5647		9.972 9983		0.027 0017	9.862 5664		.780	
		81		152			71		
221	9.835 5728		9.973 0135		0.026 9865	9.862 5593		779	
222	9.835 5808	80	9.973 0287	152	0.026 9713	9.862 5522	71	778	
223	9.835 5889	81	9.973 0439	152	0.026 9561	9.862 5451	71	777	
		81		151			72		
224	9.835 5970		9.973 0590		0.026 9410	9.862 5379		776	
225	9.835 6050	80	9.973 0742	152	0.026 9258	9.862 5308	71	775	
226	9.835 6131	81	9.973 0894	152	0.026 9106	9.862 5237	71	774	
		81		152			71		
227	9.835 6212		9.973 1046		0.026 8954	9.862 5166		773	
228	9.835 6292	80	9.973 1198	152	0.026 8802	9.862 5094	72	772	
229	9.835 6373	81	9.973 1350	152	0.026 8650	9.862 5023	71	771	
		81		152			71		
.230	9.835 6454		9.973 1502		0.026 8498	9.862 4952		.770	
		80		152			71		
231	9.835 6534		9.973 1654		0.026 8346	9.862 4881		769	
232	9.835 6615	81	9.973 1806	152	0.026 8194	9.862 4809	72	768	
233	9.835 6696	81	9.973 1957	151	0.026 8043	9.862 4738	71	767	
		80		152			71		
234	9.835 6776		9.973 2109		0.026 7891	9.862 4667		766	
235	9.835 6857	81	9.973 2261	152	0.026 7739	9.862 4596	71	765	
236	9.835 6937	80	9.973 2413	152	0.026 7587	9.862 4524	72	764	
		81		152			71		
237	9.835 7018		9.973 2565		0.026 7435	9.862 4453		763	
238	9.835 7099	81	9.973 2717	152	0.026 7283	9.862 4382	71	762	
239	9.835 7179	80	9.973 2869	152	0.026 7131	9.862 4310	72	761	
		81		152			71		
.240	9.835 7260		9.973 3021		0.026 6979	9.862 4239		.760	
		80		152			71		
241	9.835 7340		9.973 3173		0.026 6827	9.862 4168		759	
242	9.835 7421	81	9.973 3324	151	0.026 6676	9.862 4097	71	758	
243	9.835 7502	81	9.973 3476	152	0.026 6524	9.862 4025	72	757	
		80		152			71		
244	9.835 7582		9.973 3628		0.026 6372	9.862 3954		756	
245	9.835 7663	81	9.973 3780	152	0.026 6220	9.862 3883	71	755	
246	9.835 7743	80	9.973 3932	152	0.026 6068	9.862 3811	72	754	
		81		152			71		
247	9.835 7824		9.973 4084		0.026 5916	9.862 3740		753	
248	9.835 7905	81	9.973 4236	152	0.026 5764	9.862 3669	71	752	
249	9.835 7985	80	9.973 4388	152	0.026 5612	9.862 3598	71	751	
		81		151			72		
.250	9.835 8066		9.973 4539		0.026 5461	9.862 3526		.750	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	81	80
1	8.1	8.0
2	16.2	16.0
3	24.3	24.0
4	32.4	32.0
5	40.5	40.0
6	48.6	48.0
7	56.7	56.0
8	64.8	64.0
9	72.9	72.0

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

	71
1	7.1
2	14.2
3	21.3
4	28.4
5	35.5
6	42.6
7	49.7
8	56.8
9	63.9

46°.800 — 46°.750

43°.250 — 43°.300

43°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.835 8066		9.973 4539		0.026 5461	9.862 3526		.750	
		80		152			71		
251	9.835 8146		9.973 4691		0.026 5309	9.862 3455		749	
252	9.835 8227	81	9.973 4843	152	0.026 5157	9.862 3384	71	748	
253	9.835 8307	80	9.973 4995	152	0.026 5005	9.862 3312	72	747	
		81		152			71		
254	9.835 8388		9.973 5147		0.026 4853	9.862 3241		746	
255	9.835 8469	81	9.973 5299	152	0.026 4701	9.862 3170	71	745	
256	9.835 8549	80	9.973 5451	152	0.026 4549	9.862 3098	72	744	
		81		152			71		
257	9.835 8630		9.973 5603		0.026 4397	9.862 3027		743	
258	9.835 8710	80	9.973 5754	151	0.026 4246	9.862 2956	71	742	
259	9.835 8791	81	9.973 5906	152	0.026 4094	9.862 2884	72	741	
		80		152			71		
.260	9.835 8871		9.973 6058		0.026 3942	9.862 2813		.740	
		81		152			71		
261	9.835 8952		9.973 6210		0.026 3790	9.862 2742		739	
262	9.835 9032	80	9.973 6362	152	0.026 3638	9.862 2670	72	738	
263	9.835 9113	81	9.973 6514	152	0.026 3486	9.862 2599	71	737	
		81		152			71		
264	9.835 9194		9.973 6666		0.026 3334	9.862 2528		736	
265	9.835 9274	80	9.973 6818	152	0.026 3182	9.862 2456	72	735	
266	9.835 9355	81	9.973 6969	151	0.026 3031	9.862 2385	71	734	
		80		152			71		
267	9.835 9435		9.973 7121		0.026 2879	9.862 2314		733	
268	9.835 9516	81	9.973 7273	152	0.026 2727	9.862 2242	72	732	
269	9.835 9596	80	9.973 7425	152	0.026 2575	9.862 2171	71	731	
		81		152			71		
.270	9.835 9677		9.973 7577		0.026 2423	9.862 2100		.730	
		80		152			72		
271	9.835 9757		9.973 7729		0.026 2271	9.862 2028		729	
272	9.835 9838	81	9.973 7881	152	0.026 2119	9.862 1957	71	728	
273	9.835 9918	80	9.973 8033	152	0.026 1967	9.862 1886	71	727	
		81		151			72		
274	9.835 9999		9.973 8184		0.026 1816	9.862 1814		726	
275	9.836 0079	80	9.973 8336	152	0.026 1664	9.862 1743	71	725	
276	9.836 0160	81	9.973 8488	152	0.026 1512	9.862 1672	71	724	
		80		152			72		
277	9.836 0240		9.973 8640		0.026 1360	9.862 1600		723	
278	9.836 0321	81	9.973 8792	152	0.026 1208	9.862 1529	71	722	
279	9.836 0401	80	9.973 8944	152	0.026 1056	9.862 1457	72	721	
		81		152			71		
.280	9.836 0482		9.973 9096		0.026 0904	9.862 1386		.720	
		80		152			71		
281	9.836 0562		9.973 9248		0.026 0752	9.862 1315		719	
282	9.836 0643	81	9.973 9399	151	0.026 0601	9.862 1243	72	718	
283	9.836 0723	80	9.973 9551	152	0.026 0449	9.862 1172	71	717	
		81		152			72		
284	9.836 0804		9.973 9703		0.026 0297	9.862 1100		716	
285	9.836 0884	80	9.973 9855	152	0.026 0145	9.862 1029	71	715	
286	9.836 0965	81	9.974 0007	152	0.025 9993	9.862 0958	71	714	
		80		152			72		
287	9.836 1045		9.974 0159		0.025 9841	9.862 0886		713	
288	9.836 1126	81	9.974 0311	152	0.025 9689	9.862 0815	71	712	
289	9.836 1206	80	9.974 0463	152	0.025 9537	9.862 0744	71	711	
		81		151			72		
.290	9.836 1287		9.974 0614		0.025 9386	9.862 0672		.710	
		80		152			71		
291	9.836 1367		9.974 0766		0.025 9234	9.862 0601		709	
292	9.836 1447	80	9.974 0918	152	0.025 9082	9.862 0529	72	708	
293	9.836 1528	81	9.974 1070	152	0.025 8930	9.862 0458	71	707	
		80		152			72		
294	9.836 1608		9.974 1222		0.025 8778	9.862 0386		706	
295	9.836 1689	81	9.974 1374	152	0.025 8626	9.862 0315	71	705	
296	9.836 1769	80	9.974 1526	152	0.025 8474	9.862 0244	71	704	
		81		151			72		
297	9.836 1850		9.974 1677		0.025 8323	9.862 0172		703	
298	9.836 1930	80	9.974 1829	152	0.025 8171	9.862 0101	71	702	
299	9.836 2011	81	9.974 1981	152	0.025 8019	9.862 0029	72	701	
		80		152			71		
.300	9.836 2091		9.974 2133		0.025 7867	9.861 9958		.700	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	81	80
1	8.1	8.0
2	16.2	16.0
3	24.3	24.0
4	32.4	32.0
5	40.5	40.0
6	48.6	48.0
7	56.7	56.0
8	64.8	64.0
9	72.9	72.0

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

	71
1	7.1
2	14.2
3	21.3
4	28.4
5	35.5
6	42.6
7	49.7
8	56.8
9	63.9

46°.750 — 46°.700

43°.300 — 43°.350

43°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.836 2091		9.974 2133		0.025 7867	9.861 9958		.700	
		80		152			71		
301	9.836 2171		9.974 2285		0.025 7715	9.861 9887		699	
302	9.836 2252	81	9.974 2437	152	0.025 7563	9.861 9815	72	698	
303	9.836 2332	80	9.974 2589	152	0.025 7411	9.861 9744	71	697	
		81		152			72		
304	9.836 2413		9.974 2741		0.025 7259	9.861 9672		696	
305	9.836 2493	80	9.974 2892	151	0.025 7108	9.861 9601	71	695	
306	9.836 2574	81	9.974 3044	152	0.025 6956	9.861 9529	72	694	
		80		152			71		
307	9.836 2654		9.974 3196		0.025 6804	9.861 9458		693	
308	9.836 2734	80	9.974 3348	152	0.025 6652	9.861 9386	72	692	
309	9.836 2815	81	9.974 3500	152	0.025 6500	9.861 9315	71	691	
		80		152			71		
.310	9.836 2895		9.974 3652		0.025 6348	9.861 9244		.690	
		81		152			72		
311	9.836 2976		9.974 3804		0.025 6196	9.861 9172		689	
312	9.836 3056	80	9.974 3955	151	0.025 6045	9.861 9101	71	688	
313	9.836 3136	80	9.974 4107	152	0.025 5893	9.861 9029	72	687	
		81		152			71		
314	9.836 3217		9.974 4259		0.025 5741	9.861 8958		686	
315	9.836 3297	80	9.974 4411	152	0.025 5589	9.861 8886	72	685	
316	9.836 3378	81	9.974 4563	152	0.025 5437	9.861 8815	71	684	
		80		152			72		
317	9.836 3458		9.974 4715		0.025 5285	9.861 8743		683	
318	9.836 3538	80	9.974 4867	152	0.025 5133	9.861 8672	71	682	
319	9.836 3619	81	9.974 5018	151	0.025 4982	9.861 8600	72	681	
		80		152			71		
.320	9.836 3699		9.974 5170		0.025 4830	9.861 8529		.680	
		81		152			72		
321	9.836 3780		9.974 5322		0.025 4678	9.861 8457		679	
322	9.836 3860	80	9.974 5474	152	0.025 4526	9.861 8386	71	678	
323	9.836 3940	80	9.974 5626	152	0.025 4374	9.861 8314	72	677	
		81		152			71		
324	9.836 4021		9.974 5778		0.025 4222	9.861 8243		676	
325	9.836 4101	80	9.974 5930	152	0.025 4070	9.861 8171	72	675	
326	9.836 4181	80	9.974 6081	151	0.025 3919	9.861 8100	71	674	
		81		152			72		
327	9.836 4262		9.974 6233		0.025 3767	9.861 8028		673	
328	9.836 4342	80	9.974 6385	152	0.025 3615	9.861 7957	71	672	
329	9.836 4422	80	9.974 6537	152	0.025 3463	9.861 7885	72	671	
		81		152			71		
.330	9.836 4503		9.974 6689		0.025 3311	9.861 7814		.670	
		80		152			72		
331	9.836 4583		9.974 6841		0.025 3159	9.861 7742		669	
332	9.836 4664	81	9.974 6993	152	0.025 3007	9.861 7671	71	668	
333	9.836 4744	80	9.974 7144	151	0.025 2856	9.861 7599	72	667	
		80		152			71		
334	9.836 4824		9.974 7296		0.025 2704	9.861 7528		666	
335	9.836 4905	81	9.974 7448	152	0.025 2552	9.861 7456	72	665	
336	9.836 4985	80	9.974 7600	152	0.025 2400	9.861 7385	71	664	
		80		152			72		
337	9.836 5065		9.974 7752		0.025 2248	9.861 7313		663	
338	9.836 5146	81	9.974 7904	152	0.025 2096	9.861 7242	71	662	
339	9.836 5226	80	9.974 8056	152	0.025 1944	9.861 7170	72	661	
		80		151			71		
.340	9.836 5306		9.974 8207		0.025 1793	9.861 7099		.660	
		81		152			72		
341	9.836 5387		9.974 8359		0.025 1641	9.861 7027		659	
342	9.836 5467	80	9.974 8511	152	0.025 1489	9.861 6956	71	658	
343	9.836 5547	80	9.974 8663	152	0.025 1337	9.861 6884	72	657	
		80		152			71		
344	9.836 5627		9.974 8815		0.025 1185	9.861 6813		656	
345	9.836 5708	81	9.974 8967	152	0.025 1033	9.861 6741	72	655	
346	9.836 5788	80	9.974 9119	152	0.025 0881	9.861 6670	71	654	
		80		151			72		
347	9.836 5868		9.974 9270		0.025 0730	9.861 6598		653	
348	9.836 5949	81	9.974 9422	152	0.025 0578	9.861 6526	72	652	
349	9.836 6029	80	9.974 9574	152	0.025 0426	9.861 6455	71	651	
		80		152			72		
.350	9.836 6109		9.974 9726		0.025 0274	9.861 6383		.650	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	81	80
1	8.1	8.0
2	16.2	16.0
3	24.3	24.0
4	32.4	32.0
5	40.5	40.0
6	48.6	48.0
7	56.7	56.0
8	64.8	64.0
9	72.9	72.0

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

	71
1	7.1
2	14.2
3	21.3
4	28.4
5	35.5
6	42.6
7	49.7
8	56.8
9	63.9

46°.700 — 46°.650

43°.350 — 43°.400

43°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.836 6109		9.974 9726		0.025 0274	9.861 6383		.650	
		81		152			71		
351	9.836 6190		9.974 9878		0.025 0122	9.861 6312		649	
352	9.836 6270	80	9.975 0030	152	0.024 9970	9.861 6240	72	648	
353	9.836 6350	80	9.975 0181	151	0.024 9819	9.861 6169	71	647	
		80		152			72		
354	9.836 6430		9.975 0333		0.024 9667	9.861 6097		646	
355	9.836 6511	81	9.975 0485	152	0.024 9515	9.861 6026	71	645	
356	9.836 6591	80	9.975 0637	152	0.024 9363	9.861 5954	72	644	
		80		152			72		
357	9.836 6671		9.975 0789		0.024 9211	9.861 5882		643	
358	9.836 6752	81	9.975 0941	152	0.024 9059	9.861 5811	71	642	
359	9.836 6832	80	9.975 1093	152	0.024 8907	9.861 5739	72	641	
		80		151			71		
.360	9.836 6912		9.975 1244		0.024 8756	9.861 5668		.640	
		80		152			72		
361	9.836 6992		9.975 1396		0.024 8604	9.861 5596		639	
362	9.836 7073	81	9.975 1548	152	0.024 8452	9.861 5525	71	638	
363	9.836 7153	80	9.975 1700	152	0.024 8300	9.861 5453	72	637	
		80		152			72		
364	9.836 7233		9.975 1852		0.024 8148	9.861 5381		636	
365	9.836 7313	80	9.975 2004	152	0.024 7996	9.861 5310	71	635	
366	9.836 7394	81	9.975 2155	151	0.024 7845	9.861 5238	72	634	
		80		152			71		
367	9.836 7474		9.975 2307		0.024 7693	9.861 5167		633	
368	9.836 7554	80	9.975 2459	152	0.024 7541	9.861 5095	72	632	
369	9.836 7634	80	9.975 2611	152	0.024 7389	9.861 5023	72	631	
		81		152			71		
.370	9.836 7715		9.975 2763		0.024 7237	9.861 4952		.630	
		80		152			72		
371	9.836 7795		9.975 2915		0.024 7085	9.861 4880		629	
372	9.836 7875	80	9.975 3067	152	0.024 6933	9.861 4809	71	628	
373	9.836 7955	80	9.975 3218	151	0.024 6782	9.861 4737	72	627	
		81		152			72		
374	9.836 8036		9.975 3370		0.024 6630	9.861 4665		626	
375	9.836 8116	80	9.975 3522	152	0.024 6478	9.861 4594	71	625	
376	9.836 8196	80	9.975 3674	152	0.024 6326	9.861 4522	72	624	
		80		152			72		
377	9.836 8276		9.975 3826		0.024 6174	9.861 4450		623	
378	9.836 8356	80	9.975 3978	152	0.024 6022	9.861 4379	71	622	
379	9.836 8437	81	9.975 4129	151	0.024 5871	9.861 4307	72	621	
		80		152			71		
.380	9.836 8517		9.975 4281		0.024 5719	9.861 4236		.620	
		80		152			72		
381	9.836 8597		9.975 4433		0.024 5567	9.861 4164		619	
382	9.836 8677	80	9.975 4585	152	0.024 5415	9.861 4092	72	618	
383	9.836 8758	81	9.975 4737	152	0.024 5263	9.861 4021	71	617	
		80		152			72		
384	9.836 8838		9.975 4889		0.024 5111	9.861 3949		616	
385	9.836 8918	80	9.975 5040	151	0.024 4960	9.861 3877	72	615	
386	9.836 8998	80	9.975 5192	152	0.024 4808	9.861 3806	71	614	
		80		152			72		
387	9.836 9078		9.975 5344		0.024 4656	9.861 3734		613	
388	9.836 9158	80	9.975 5496	152	0.024 4504	9.861 3663	71	612	
389	9.836 9239	81	9.975 5648	152	0.024 4352	9.861 3591	72	611	
		80		152			72		
.390	9.836 9319		9.975 5800		0.024 4200	9.861 3519		.610	
		80		151			71		
391	9.836 9399		9.975 5951		0.024 4049	9.861 3448		609	
392	9.836 9479	80	9.975 6103	152	0.024 3897	9.861 3376	72	608	
393	9.836 9559	80	9.975 6255	152	0.024 3745	9.861 3304	72	607	
		81		152			71		
394	9.836 9640		9.975 6407		0.024 3593	9.861 3233		606	
395	9.836 9720	80	9.975 6559	152	0.024 3441	9.861 3161	72	605	
396	9.836 9800	80	9.975 6711	152	0.024 3289	9.861 3089	72	604	
		80		152			71		
397	9.836 9880		9.975 6863		0.024 3137	9.861 3018		603	
398	9.836 9960	80	9.975 7014	151	0.024 2986	9.861 2946	72	602	
399	9.837 0040	80	9.975 7166	152	0.024 2834	9.861 2874	72	601	
		81		152			71		
.400	9.837 0121		9.975 7318		0.024 2682	9.861 2803		.600	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	81	80
1	8.1	8.0
2	16.2	16.0
3	24.3	24.0
4	32.4	32.0
5	40.5	40.0
6	48.6	48.0
7	56.7	56.0
8	64.8	64.0
9	72.9	72.0

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

	71
1	7.1
2	14.2
3	21.3
4	28.4
5	35.5
6	42.6
7	49.7
8	56.8
9	63.9

46°.650 — 46°.600

43°.400 — 43°.450

43°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.837 0121		9.975 7318		0.024 2682	9.861 2803		.600	
		80		152			72		
401	9.837 0201		9.975 7470		0.024 2530	9.861 2731		599	
402	9.837 0281	80	9.975 7622	152	0.024 2378	9.861 2659	72	598	
403	9.837 0361	80	9.975 7774	152	0.024 2226	9.861 2587	72	597	
		80		151			71		
404	9.837 0441		9.975 7925		0.024 2075	9.861 2516		596	
405	9.837 0521	80	9.975 8077	152	0.024 1923	9.861 2444	72	595	
406	9.837 0601	80	9.975 8229	152	0.024 1771	9.861 2372	72	594	
		81		152			71		
407	9.837 0682		9.975 8381		0.024 1619	9.861 2301		593	
408	9.837 0762	80	9.975 8533	152	0.024 1467	9.861 2229	72	592	
409	9.837 0842	80	9.975 8685	152	0.024 1315	9.861 2157	72	591	
		80		151			71		
.410	9.837 0922		9.975 8836		0.024 1164	9.861 2086		.590	
		80		152			72		
411	9.837 1002		9.975 8988		0.024 1012	9.861 2014		589	
412	9.837 1082	80	9.975 9140	152	0.024 0860	9.861 1942	72	588	
413	9.837 1162	80	9.975 9292	152	0.024 0708	9.861 1870	72	587	
		80		152			71		
414	9.837 1242		9.975 9444		0.024 0556	9.861 1799		586	
415	9.837 1323	81	9.975 9595	151	0.024 0405	9.861 1727	72	585	
416	9.837 1403	80	9.975 9747	152	0.024 0253	9.861 1655	72	584	
		80		152			71		
417	9.837 1483		9.975 9899		0.024 0101	9.861 1584		583	
418	9.837 1563	80	9.976 0051	152	0.023 9949	9.861 1512	72	582	
419	9.837 1643	80	9.976 0203	152	0.023 9797	9.861 1440	72	581	
		80		152			72		
.420	9.837 1723		9.976 0355		0.023 9645	9.861 1368		.580	
		80		151			71		
421	9.837 1803		9.976 0506		0.023 9494	9.861 1297		579	
422	9.837 1883	80	9.976 0658	152	0.023 9342	9.861 1225	72	578	
423	9.837 1963	80	9.976 0810	152	0.023 9190	9.861 1153	72	577	
		80		152			71		
424	9.837 2043		9.976 0962		0.023 9038	9.861 1082		576	
425	9.837 2124	81	9.976 1114	152	0.023 8886	9.861 1010	72	575	
426	9.837 2204	80	9.976 1266	152	0.023 8734	9.861 0938	72	574	
		80		151			72		
427	9.837 2284		9.976 1417		0.023 8583	9.861 0866		573	
428	9.837 2364	80	9.976 1569	152	0.023 8431	9.861 0795	71	572	
429	9.837 2444	80	9.976 1721	152	0.023 8279	9.861 0723	72	571	
		80		152			72		
.430	9.837 2524		9.976 1873		0.023 8127	9.861 0651		.570	
		80		152			72		
431	9.837 2604		9.976 2025		0.023 7975	9.861 0579		569	
432	9.837 2684	80	9.976 2177	152	0.023 7823	9.861 0508	71	568	
433	9.837 2764	80	9.976 2328	151	0.023 7672	9.861 0436	72	567	
		80		152			72		
434	9.837 2844		9.976 2480		0.023 7520	9.861 0364		566	
435	9.837 2924	80	9.976 2632	152	0.023 7368	9.861 0292	72	565	
436	9.837 3004	80	9.976 2784	152	0.023 7216	9.861 0220	72	564	
		80		152			71		
437	9.837 3084		9.976 2936		0.023 7064	9.861 0149		563	
438	9.837 3164	80	9.976 3087	151	0.023 6913	9.861 0077	72	562	
439	9.837 3244	80	9.976 3239	152	0.023 6761	9.861 0005	72	561	
		80		152			72		
.440	9.837 3324		9.976 3391		0.023 6609	9.860 9933		.560	
		81		152			71		
441	9.837 3405		9.976 3543		0.023 6457	9.860 9862		559	
442	9.837 3485	80	9.976 3695	152	0.023 6305	9.860 9790	72	558	
443	9.837 3565	80	9.976 3847	152	0.023 6153	9.860 9718	72	557	
		80		151			72		
444	9.837 3645		9.976 3998		0.023 6002	9.860 9646		556	
445	9.837 3725	80	9.976 4150	152	0.023 5850	9.860 9574	72	555	
446	9.837 3805	80	9.976 4302	152	0.023 5698	9.860 9503	71	554	
		80		152			72		
447	9.837 3885		9.976 4454		0.023 5546	9.860 9431		553	
448	9.837 3965	80	9.976 4606	152	0.023 5394	9.860 9359	72	552	
449	9.837 4045	80	9.976 4758	152	0.023 5242	9.860 9287	72	551	
		80		151			72		
.450	9.837 4125		9.976 4909		0.023 5091	9.860 9215		.550	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	81	80
1	8.1	8.0
2	16.2	16.0
3	24.3	24.0
4	32.4	32.0
5	40.5	40.0
6	48.6	48.0
7	56.7	56.0
8	64.8	64.0
9	72.9	72.0

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

	71
1	7.1
2	14.2
3	21.3
4	28.4
5	35.5
6	42.6
7	49.7
8	56.8
9	63.9

46°.600 — 46°.550

43°.450 — 43°.500

43°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.837 4125		9.976 4909		0.023 5091	9.860 9215		·550	
		80		152			71		
451	9.837 4205	80	9.976 5061	152	0.023 4939	9.860 9144	72	549	
452	9.837 4285	80	9.976 5213	152	0.023 4787	9.860 9072	72	548	
453	9.837 4365	80	9.976 5365	152	0.023 4635	9.860 9000	72	547	
454	9.837 4445	80	9.976 5517	151	0.023 4483	9.860 8928	72	546	
455	9.837 4525	80	9.976 5668	152	0.023 4332	9.860 8856	72	545	
456	9.837 4605	80	9.976 5820	152	0.023 4180	9.860 8785	71	544	
457	9.837 4685	80	9.976 5972	152	0.023 4028	9.860 8713	72	543	
458	9.837 4765	80	9.976 6124	152	0.023 3876	9.860 8641	72	542	
459	9.837 4845	80	9.976 6276	152	0.023 3724	9.860 8569	72	541	
·460	9.837 4925	80	9.976 6428	151	0.023 3572	9.860 8497	72	·540	
461	9.837 5005	80	9.976 6579	152	0.023 3421	9.860 8425	72	539	
462	9.837 5085	80	9.976 6731	152	0.023 3269	9.860 8354	71	538	
463	9.837 5165	80	9.976 6883	152	0.023 3117	9.860 8282	72	537	
464	9.837 5245	80	9.976 7035	152	0.023 2965	9.860 8210	72	536	
465	9.837 5325	80	9.976 7187	151	0.023 2813	9.860 8138	72	535	
466	9.837 5405	80	9.976 7338	152	0.023 2662	9.860 8066	72	534	
467	9.837 5485	80	9.976 7490	152	0.023 2510	9.860 7994	72	533	
468	9.837 5565	80	9.976 7642	152	0.023 2358	9.860 7923	71	532	
469	9.837 5645	80	9.976 7794	152	0.023 2206	9.860 7851	72	531	
·470	9.837 5725	79	9.976 7946	151	0.023 2054	9.860 7779	72	·530	
471	9.837 5804	80	9.976 8097	152	0.023 1903	9.860 7707	72	529	
472	9.837 5884	80	9.976 8249	152	0.023 1751	9.860 7635	72	528	
473	9.837 5964	80	9.976 8401	152	0.023 1599	9.860 7563	72	527	
474	9.837 6044	80	9.976 8553	152	0.023 1447	9.860 7491	71	526	
475	9.837 6124	80	9.976 8705	152	0.023 1295	9.860 7420	72	525	
476	9.837 6204	80	9.976 8857	151	0.023 1143	9.860 7348	72	524	
477	9.837 6284	80	9.976 9008	152	0.023 0992	9.860 7276	72	523	
478	9.837 6364	80	9.976 9160	152	0.023 0840	9.860 7204	72	522	
479	9.837 6444	80	9.976 9312	152	0.023 0688	9.860 7132	72	521	
·480	9.837 6524	80	9.976 9464	152	0.023 0536	9.860 7060	72	·520	
481	9.837 6604	80	9.976 9616	151	0.023 0384	9.860 6988	72	519	
482	9.837 6684	80	9.976 9767	152	0.023 0233	9.860 6916	72	518	
483	9.837 6764	80	9.976 9919	152	0.023 0081	9.860 6845	71	517	
484	9.837 6844	80	9.977 0071	152	0.022 9929	9.860 6773	72	516	
485	9.837 6924	80	9.977 0223	152	0.022 9777	9.860 6701	72	515	
486	9.837 7004	80	9.977 0375	152	0.022 9625	9.860 6629	72	514	
487	9.837 7083	79	9.977 0526	151	0.022 9474	9.860 6557	72	513	
488	9.837 7163	80	9.977 0678	152	0.022 9322	9.860 6485	72	512	
489	9.837 7243	80	9.977 0830	152	0.022 9170	9.860 6413	72	511	
·490	9.837 7323	80	9.977 0982	152	0.022 9018	9.860 6341	72	·510	
491	9.837 7403	80	9.977 1134	152	0.022 8866	9.860 6269	72	509	
492	9.837 7483	80	9.977 1286	151	0.022 8714	9.860 6197	72	508	
493	9.837 7563	80	9.977 1437	152	0.022 8563	9.860 6126	71	507	
494	9.837 7643	80	9.977 1589	152	0.022 8411	9.860 6054	72	506	
495	9.837 7723	80	9.977 1741	152	0.022 8259	9.860 5982	72	505	
496	9.837 7803	79	9.977 1893	152	0.022 8107	9.860 5910	72	504	
497	9.837 7882	80	9.977 2045	151	0.022 7955	9.860 5838	72	503	
498	9.837 7962	80	9.977 2196	152	0.022 7804	9.860 5766	72	502	
499	9.837 8042	80	9.977 2348	152	0.022 7652	9.860 5694	72	501	
·500	9.837 8122		9.977 2500		0.022 7500	9.860 5622		·500	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	80	79
1	8.0	7.9
2	16.0	15.8
3	24.0	23.7
4	32.0	31.6
5	40.0	39.5
6	48.0	47.4
7	56.0	55.3
8	64.0	63.2
9	72.0	71.1

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

	71
1	7.1
2	14.2
3	21.3
4	28.4
5	35.5
6	42.6
7	49.7
8	56.8
9	63.9

46°.550 — 46°.500

43°.500 — 43°.550

43°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.837 8122		9.977 2500		0.022 7500	9.860 5622		.500	
		80		152			72		
501	9.837 8202		9.977 2652		0.022 7348	9.860 5550		499	
502	9.837 8282	80	9.977 2804	152	0.022 7196	9.860 5478	72	498	
503	9.837 8362	80	9.977 2955	151	0.022 7045	9.860 5406	72	497	
504	9.837 8442	80	9.977 3107	152	0.022 6893	9.860 5334	72	496	
505	9.837 8521	79	9.977 3259	152	0.022 6741	9.860 5262	72	495	
506	9.837 8601	80	9.977 3411	152	0.022 6589	9.860 5190	72	494	
507	9.837 8681	80	9.977 3563	152	0.022 6437	9.860 5118	72	493	
508	9.837 8761	80	9.977 3714	151	0.022 6286	9.860 5047	71	492	
509	9.837 8841	80	9.977 3866	152	0.022 6134	9.860 4975	72	491	
.510	9.837 8921		9.977 4018	152	0.022 5982	9.860 4903	72	.490	
		79		152			72		
511	9.837 9000		9.977 4170		0.022 5830	9.860 4831		489	
512	9.837 9080	80	9.977 4322	152	0.022 5678	9.860 4759	72	488	
513	9.837 9160	80	9.977 4473	151	0.022 5527	9.860 4687	72	487	
514	9.837 9240	80	9.977 4625	152	0.022 5375	9.860 4615	72	486	
515	9.837 9320	80	9.977 4777	152	0.022 5223	9.860 4543	72	485	
516	9.837 9400	80	9.977 4929	152	0.022 5071	9.860 4471	72	484	
517	9.837 9480	80	9.977 5081	152	0.022 4919	9.860 4399	72	483	
518	9.837 9559	79	9.977 5232	151	0.022 4768	9.860 4327	72	482	
519	9.837 9639	80	9.977 5384	152	0.022 4616	9.860 4255	72	481	
.520	9.837 9719	80	9.977 5536	152	0.022 4464	9.860 4183	72	.480	
		80		152			72		
521	9.837 9799		9.977 5688		0.022 4312	9.860 4111		479	
522	9.837 9879	80	9.977 5840	152	0.022 4160	9.860 4039	72	478	
523	9.837 9958	79	9.977 5991	151	0.022 4009	9.860 3967	72	477	
524	9.838 0038	80	9.977 6143	152	0.022 3857	9.860 3895	72	476	
525	9.838 0118	80	9.977 6295	152	0.022 3705	9.860 3823	72	475	
526	9.838 0198	80	9.977 6447	152	0.022 3553	9.860 3751	72	474	
527	9.838 0278	80	9.977 6599	152	0.022 3401	9.860 3679	72	473	
528	9.838 0357	79	9.977 6750	151	0.022 3250	9.860 3607	72	472	
529	9.838 0437	80	9.977 6902	152	0.022 3098	9.860 3535	72	471	
.530	9.838 0517	80	9.977 7054	152	0.022 2946	9.860 3463	72	.470	
		80		152			72		
531	9.838 0597		9.977 7206		0.022 2794	9.860 3391		469	
532	9.838 0677	80	9.977 7358	152	0.022 2642	9.860 3319	72	468	
533	9.838 0756	79	9.977 7509	151	0.022 2491	9.860 3247	72	467	
534	9.838 0836	80	9.977 7661	152	0.022 2339	9.860 3175	72	466	
535	9.838 0916	80	9.977 7813	152	0.022 2187	9.860 3103	72	465	
536	9.838 0996	80	9.977 7965	152	0.022 2035	9.860 3031	72	464	
537	9.838 1076	80	9.977 8117	152	0.022 1883	9.860 2959	72	463	
538	9.838 1155	79	9.977 8268	151	0.022 1732	9.860 2887	72	462	
539	9.838 1235	80	9.977 8420	152	0.022 1580	9.860 2815	72	461	
.540	9.838 1315	80	9.977 8572	152	0.022 1428	9.860 2743	72	.460	
		80		152			72		
541	9.838 1395		9.977 8724		0.022 1276	9.860 2671		459	
542	9.838 1474	79	9.977 8876	152	0.022 1124	9.860 2599	72	458	
543	9.838 1554	80	9.977 9027	151	0.022 0973	9.860 2527	72	457	
544	9.838 1634	80	9.977 9179	152	0.022 0821	9.860 2455	72	456	
545	9.838 1714	80	9.977 9331	152	0.022 0669	9.860 2383	72	455	
546	9.838 1793	79	9.977 9483	152	0.022 0517	9.860 2311	72	454	
547	9.838 1873	80	9.977 9635	152	0.022 0365	9.860 2239	72	453	
548	9.838 1953	80	9.977 9786	151	0.022 0214	9.860 2167	72	452	
549	9.838 2033	80	9.977 9938	152	0.022 0062	9.860 2094	73	451	
.550	9.838 2112	79	9.978 0090	152	0.021 9910	9.860 2022	72	.450	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	80	79
1	8.0	7.9
2	16.0	15.8
3	24.0	23.7
4	32.0	31.6
5	40.0	39.5
6	48.0	47.4
7	56.0	55.3
8	64.0	63.2
9	72.0	71.1

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

	71
1	7.1
2	14.2
3	21.3
4	28.4
5	35.5
6	42.6
7	49.7
8	56.8
9	63.9

46°.500 — 46°.450

43°.550 — 43°.600

43°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.838 2112		9.978 0090		0.021 9910	9.860 2022		.450	
		80		152			72		
551	9.838 2192		9.978 0242		0.021 9758	9.860 1950		449	
552	9.838 2272	80	9.978 0393	151	0.021 9607	9.860 1878	72	448	
553	9.838 2352	80	9.978 0545	152	0.021 9455	9.860 1806	72	447	
		79		152			72		
554	9.838 2431		9.978 0697		0.021 9303	9.860 1734		446	
555	9.838 2511	80	9.978 0849	152	0.021 9151	9.860 1662	72	445	
556	9.838 2591	80	9.978 1001	152	0.021 8999	9.860 1590	72	444	
		79		151			72		
557	9.838 2670		9.978 1152		0.021 8848	9.860 1518		443	
558	9.838 2750	80	9.978 1304	152	0.021 8696	9.860 1446	72	442	
559	9.838 2830	80	9.978 1456	152	0.021 8544	9.860 1374	72	441	
		80		152			72		
.560	9.838 2910		9.978 1608		0.021 8392	9.860 1302		.440	
		79		152			72		
561	9.838 2989		9.978 1760		0.021 8240	9.860 1230		439	
562	9.838 3069	80	9.978 1911	151	0.021 8089	9.860 1158	72	438	
563	9.838 3149	80	9.978 2063	152	0.021 7937	9.860 1085	73	437	
		79		152			72		
564	9.838 3228		9.978 2215		0.021 7785	9.860 1013		436	
565	9.838 3308	80	9.978 2367	152	0.021 7633	9.860 0941	72	435	
566	9.838 3388	80	9.978 2519	152	0.021 7481	9.860 0869	72	434	
		79		151			72		
567	9.838 3467		9.978 2670		0.021 7330	9.860 0797		433	
568	9.838 3547	80	9.978 2822	152	0.021 7178	9.860 0725	72	432	
569	9.838 3627	80	9.978 2974	152	0.021 7026	9.860 0653	72	431	
		79		152			72		
.570	9.838 3706		9.978 3126		0.021 6874	9.860 0581		.430	
		80		151			72		
571	9.838 3786		9.978 3277		0.021 6723	9.860 0509		429	
572	9.838 3866	80	9.978 3429	152	0.021 6571	9.860 0437	72	428	
573	9.838 3945	79	9.978 3581	152	0.021 6419	9.860 0364	73	427	
		80		152			72		
574	9.838 4025		9.978 3733		0.021 6267	9.860 0292		426	
575	9.838 4105	80	9.978 3885	152	0.021 6115	9.860 0220	72	425	
576	9.838 4184	79	9.978 4036	151	0.021 5964	9.860 0148	72	424	
		80		152			72		
577	9.838 4264		9.978 4188		0.021 5812	9.860 0076		423	
578	9.838 4344	80	9.978 4340	152	0.021 5660	9.860 0004	72	422	
579	9.838 4423	79	9.978 4492	152	0.021 5508	9.859 9932	72	421	
		80		152			72		
.580	9.838 4503		9.978 4644		0.021 5356	9.859 9860		.420	
		80		151			73		
581	9.838 4583		9.978 4795		0.021 5205	9.859 9787		419	
582	9.838 4662	79	9.978 4947	152	0.021 5053	9.859 9715	72	418	
583	9.838 4742	80	9.978 5099	152	0.021 4901	9.859 9643	72	417	
		80		152			72		
584	9.838 4822		9.978 5251		0.021 4749	9.859 9571		416	
585	9.838 4901	79	9.978 5402	151	0.021 4598	9.859 9499	72	415	
586	9.838 4981	80	9.978 5554	152	0.021 4446	9.859 9427	72	414	
		80		152			72		
587	9.838 5061		9.978 5706		0.021 4294	9.859 9355		413	
588	9.838 5140	79	9.978 5858	152	0.021 4142	9.859 9282	73	412	
589	9.838 5220	80	9.978 6010	152	0.021 3990	9.859 9210	72	411	
		80		151			72		
.590	9.838 5300		9.978 6161		0.021 3839	9.859 9138		.410	
		79		152			72		
591	9.838 5379		9.978 6313		0.021 3687	9.859 9066		409	
592	9.838 5459	80	9.978 6465	152	0.021 3535	9.859 8994	72	408	
593	9.838 5538	79	9.978 6617	152	0.021 3383	9.859 8922	72	407	
		80		151			72		
594	9.838 5618		9.978 6768		0.021 3232	9.859 8850		406	
595	9.838 5698	80	9.978 6920	152	0.021 3080	9.859 8777	73	405	
596	9.838 5777	79	9.978 7072	152	0.021 2928	9.859 8705	72	404	
		80		152			72		
597	9.838 5857		9.978 7224		0.021 2776	9.859 8633		403	
598	9.838 5936	79	9.978 7376	152	0.021 2624	9.859 8561	72	402	
599	9.838 6016	80	9.978 7527	151	0.021 2473	9.859 8489	72	401	
		80		152			73		
.600	9.838 6096		9.978 7679		0.021 2321	9.859 8416		.400	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	80	79
1	8.0	7.9
2	16.0	15.8
3	24.0	23.7
4	32.0	31.6
5	40.0	39.5
6	48.0	47.4
7	56.0	55.3
8	64.0	63.2
9	72.0	71.1

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

46°.450 — 46°.400

43°.600 — 43°.650

43°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.838 6096		9.978 7679		0.021 2321	9.859 8416		.400	
		79		152			72		
601	9.838 6175		9.978 7831		0.021 2169	9.859 8344		399	
602	9.838 6255	80	9.978 7983	152	0.021 2017	9.859 8272	72	398	
603	9.838 6334	79	9.978 8134	151	0.021 1866	9.859 8200	72	397	
		80		152			72		
604	9.838 6414		9.978 8286		0.021 1714	9.859 8128		396	
605	9.838 6494	80	9.978 8438	152	0.021 1562	9.859 8056	72	395	
606	9.838 6573	79	9.978 8590	152	0.021 1410	9.859 7983	73	394	
		80		152			72		
607	9.838 6653		9.978 8742		0.021 1258	9.859 7911		393	
608	9.838 6732	79	9.978 8893	151	0.021 1107	9.859 7839	72	392	
609	9.838 6812	80	9.978 9045	152	0.021 0955	9.859 7767	72	391	
		79		152			72		
.610	9.838 6891		9.978 9197		0.021 0803	9.859 7695		.390	
		80		152			73		
611	9.838 6971		9.978 9349		0.021 0651	9.859 7622		389	
612	9.838 7051	80	9.978 9500	151	0.021 0500	9.859 7550	72	388	
613	9.838 7130	79	9.978 9652	152	0.021 0348	9.859 7478	72	387	
		80		152			72		
614	9.838 7210		9.978 9804		0.021 0196	9.859 7406		386	
615	9.838 7289	79	9.978 9956	152	0.021 0044	9.859 7333	73	385	
616	9.838 7369	80	9.979 0108	152	0.020 9892	9.859 7261	72	384	
		79		151			72		
617	9.838 7448		9.979 0259		0.020 9741	9.859 7189		383	
618	9.838 7528	80	9.979 0411	152	0.020 9589	9.859 7117	72	382	
619	9.838 7607	79	9.979 0563	152	0.020 9437	9.859 7045	72	381	
		80		152			73		
.620	9.838 7687		9.979 0715		0.020 9285	9.859 6972		.380	
		80		151			72		
621	9.838 7767		9.979 0866		0.020 9134	9.859 6900		379	
622	9.838 7846	79	9.979 1018	152	0.020 8982	9.859 6828	72	378	
623	9.838 7926	80	9.979 1170	152	0.020 8830	9.859 6756	72	377	
		79		152			73		
624	9.838 8005		9.979 1322		0.020 8678	9.859 6683		376	
625	9.838 8085	80	9.979 1474	152	0.020 8526	9.859 6611	72	375	
626	9.838 8164	79	9.979 1625	151	0.020 8375	9.859 6539	72	374	
		80		152			72		
627	9.838 8244		9.979 1777		0.020 8223	9.859 6467		373	
628	9.838 8323	79	9.979 1929	152	0.020 8071	9.859 6394	73	372	
629	9.838 8403	80	9.979 2081	152	0.020 7919	9.859 6322	72	371	
		79		151			72		
.630	9.838 8482		9.979 2232		0.020 7768	9.859 6250		.370	
		80		152			72		
631	9.838 8562		9.979 2384		0.020 7616	9.859 6178		369	
632	9.838 8641	79	9.979 2536	152	0.020 7464	9.859 6105	73	368	
633	9.838 8721	80	9.979 2688	152	0.020 7312	9.859 6033	72	367	
		79		151			72		
634	9.838 8800		9.979 2839		0.020 7161	9.859 5961		366	
635	9.838 8880	80	9.979 2991	152	0.020 7009	9.859 5889	72	365	
636	9.838 8959	79	9.979 3143	152	0.020 6857	9.859 5816	73	364	
		80		152			72		
637	9.838 9039		9.979 3295		0.020 6705	9.859 5744		363	
638	9.838 9118	79	9.979 3447	152	0.020 6553	9.859 5672	72	362	
639	9.838 9198	80	9.979 3598	151	0.020 6402	9.859 5599	73	361	
		79		152			72		
.640	9.838 9277		9.979 3750		0.020 6250	9.859 5527		.360	
		80		152			72		
641	9.838 9357		9.979 3902		0.020 6098	9.859 5455		359	
642	9.838 9436	79	9.979 4054	152	0.020 5946	9.859 5383	72	358	
643	9.838 9516	80	9.979 4205	151	0.020 5795	9.859 5310	73	357	
		79		152			72		
644	9.838 9595		9.979 4357		0.020 5643	9.859 5238		356	
645	9.838 9675	80	9.979 4509	152	0.020 5491	9.859 5166	72	355	
646	9.838 9754	79	9.979 4661	152	0.020 5339	9.859 5093	73	354	
		80		151			72		
647	9.838 9834		9.979 4812		0.020 5188	9.859 5021		353	
648	9.838 9913	79	9.979 4964	152	0.020 5036	9.859 4949	72	352	
649	9.838 9992	79	9.979 5116	152	0.020 4884	9.859 4877	72	351	
		80		152			73		
.650	9.839 0072		9.979 5268		0.020 4732	9.859 4804		.350	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	80	79
1	8.0	7.9
2	16.0	15.8
3	24.0	23.7
4	32.0	31.6
5	40.0	39.5
6	48.0	47.4
7	56.0	55.3
8	64.0	63.2
9	72.0	71.1

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

46°.400 — 46°.350

43°.650 — 43°.700

43°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.839 0072		9.979 5268		0.020 4732	9.859 4804		.350	
		79		152			72		
651	9.839 0151		9.979 5420		0.020 4580	9.859 4732		349	
652	9.839 0231	80	9.979 5571	151	0.020 4429	9.859 4660	72	348	
653	9.839 0310	79	9.979 5723	152	0.020 4277	9.859 4587	73	347	
		80		152			72		
654	9.839 0390		9.979 5875		0.020 4125	9.859 4515		346	
655	9.839 0469	79	9.979 6027	152	0.020 3973	9.859 4443	72	345	
656	9.839 0549	80	9.979 6178	151	0.020 3822	9.859 4370	73	344	
		79		152			72		
657	9.839 0628		9.979 6330		0.020 3670	9.859 4298		343	
658	9.839 0708	80	9.979 6482	152	0.020 3518	9.859 4226	72	342	
659	9.839 0787	79	9.979 6634	152	0.020 3366	9.859 4153	73	341	
		79		151			72		
.660	9.839 0866		9.979 6785		0.020 3215	9.859 4081		.340	
		80		152			72		
661	9.839 0946		9.979 6937		0.020 3063	9.859 4009		339	
662	9.839 1025	79	9.979 7089	152	0.020 2911	9.859 3936	73	338	
663	9.839 1105	80	9.979 7241	152	0.020 2759	9.859 3864	72	337	
		79		151			72		
664	9.839 1184		9.979 7392		0.020 2608	9.859 3792		336	
665	9.839 1264	80	9.979 7544	152	0.020 2456	9.859 3719	73	335	
666	9.839 1343	79	9.979 7696	152	0.020 2304	9.859 3647	72	334	
		79		152			72		
667	9.839 1422		9.979 7848		0.020 2152	9.859 3575		333	
668	9.839 1502	80	9.979 8000	152	0.020 2000	9.859 3502	73	332	
669	9.839 1581	79	9.979 8151	151	0.020 1849	9.859 3430	72	331	
		80		152			72		
.670	9.839 1661		9.979 8303		0.020 1697	9.859 3358		.330	
		79		152			73		
671	9.839 1740		9.979 8455		0.020 1545	9.859 3285		329	
672	9.839 1819	79	9.979 8607	152	0.020 1393	9.859 3213	72	328	
673	9.839 1899	80	9.979 8758	151	0.020 1242	9.859 3140	73	327	
		79		152			72		
674	9.839 1978		9.979 8910		0.020 1090	9.859 3068		326	
675	9.839 2058	80	9.979 9062	152	0.020 0938	9.859 2996	72	325	
676	9.839 2137	79	9.979 9214	152	0.020 0786	9.859 2923	73	324	
		79		151			72		
677	9.839 2216		9.979 9365		0.020 0635	9.859 2851		323	
678	9.839 2296	80	9.979 9517	152	0.020 0483	9.859 2779	72	322	
679	9.839 2375	79	9.979 9669	152	0.020 0331	9.859 2706	73	321	
		79		152			72		
.680	9.839 2454		9.979 9821		0.020 0179	9.859 2634		.320	
		80		151			73		
681	9.839 2534		9.979 9972		0.020 0028	9.859 2561		319	
682	9.839 2613	79	9.980 0124	152	0.019 9876	9.859 2489	72	318	
683	9.839 2693	80	9.980 0276	152	0.019 9724	9.859 2417	72	317	
		79		152			73		
684	9.839 2772		9.980 0428		0.019 9572	9.859 2344		316	
685	9.839 2851	79	9.980 0579	151	0.019 9421	9.859 2272	72	315	
686	9.839 2931	80	9.980 0731	152	0.019 9269	9.859 2199	73	314	
		79		152			72		
687	9.839 3010		9.980 0883		0.019 9117	9.859 2127		313	
688	9.839 3089	79	9.980 1035	152	0.019 8965	9.859 2055	72	312	
689	9.839 3169	80	9.980 1186	151	0.019 8814	9.859 1982	73	311	
		79		152			72		
.690	9.839 3248		9.980 1338		0.019 8662	9.859 1910		.310	
		79		152			73		
691	9.839 3327		9.980 1490		0.019 8510	9.859 1837		309	
692	9.839 3407	80	9.980 1642	152	0.019 8358	9.859 1765	72	308	
693	9.839 3486	79	9.980 1793	151	0.019 8207	9.859 1693	72	307	
		79		152			73		
694	9.839 3565		9.980 1945		0.019 8055	9.859 1620		306	
695	9.839 3645	80	9.980 2097	152	0.019 7903	9.859 1548	72	305	
696	9.839 3724	79	9.980 2249	152	0.019 7751	9.859 1475	73	304	
		79		151			72		
697	9.839 3803		9.980 2400		0.019 7600	9.859 1403		303	
698	9.839 3883	80	9.980 2552	152	0.019 7448	9.859 1330	73	302	
699	9.839 3962	79	9.980 2704	152	0.019 7296	9.859 1258	72	301	
		79		152			72		
.700	9.839 4041		9.980 2856		0.019 7144	9.859 1186		.300	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	80	79
1	8.0	7.9
2	16.0	15.8
3	24.0	23.7
4	32.0	31.6
5	40.0	39.5
6	48.0	47.4
7	56.0	55.3
8	64.0	63.2
9	72.0	71.1

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

46°.350 — 46°.300

43°.700 — 43°.750

43°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.839 4041		9.980 2856		0.019 7144	9.859 1186		.300	
		80		151			73		
701	9.839 4121		9.980 3007		0.019 6993	9.859 1113		299	
702	9.839 4200	79	9.980 3159	152	0.019 6841	9.859 1041	72	298	
703	9.839 4279	79	9.980 3311	152	0.019 6689	9.859 0968	73	297	
		80		152			72		
704	9.839 4359		9.980 3463		0.019 6537	9.859 0896		296	
705	9.839 4438	79	9.980 3615	152	0.019 6385	9.859 0823	73	295	
706	9.839 4517	79	9.980 3766	151	0.019 6234	9.859 0751	72	294	
		80		152			72		
707	9.839 4597		9.980 3918		0.019 6082	9.859 0679		293	
708	9.839 4676	79	9.980 4070	152	0.019 5930	9.859 0606	73	292	
709	9.839 4755	79	9.980 4222	152	0.019 5778	9.859 0534	72	291	
		79		151			73		
.710	9.839 4834		9.980 4373		0.019 5627	9.859 0461		.290	
		80		152			72		
711	9.839 4914		9.980 4525		0.019 5475	9.859 0389		289	
712	9.839 4993	79	9.980 4677	152	0.019 5323	9.859 0316	73	288	
713	9.839 5072	79	9.980 4829	152	0.019 5171	9.859 0244	72	287	
		80		151			73		
714	9.839 5152		9.980 4980		0.019 5020	9.859 0171		286	
715	9.839 5231	79	9.980 5132	152	0.019 4868	9.859 0099	72	285	
716	9.839 5310	79	9.980 5284	152	0.019 4716	9.859 0026	73	284	
		79		152			72		
717	9.839 5389		9.980 5436		0.019 4564	9.858 9954		283	
718	9.839 5469	80	9.980 5587	151	0.019 4413	9.858 9881	73	282	
719	9.839 5548	79	9.980 5739	152	0.019 4261	9.858 9809	72	281	
		79		152			73		
.720	9.839 5627		9.980 5891		0.019 4109	9.858 9736		.280	
		79		152			72		
721	9.839 5706		9.980 6043		0.019 3957	9.858 9664		279	
722	9.839 5786	80	9.980 6194	151	0.019 3806	9.858 9591	73	278	
723	9.839 5865	79	9.980 6346	152	0.019 3654	9.858 9519	72	277	
		79		152			73		
724	9.839 5944		9.980 6498		0.019 3502	9.858 9446		276	
725	9.839 6023	79	9.980 6650	152	0.019 3350	9.858 9374	72	275	
726	9.839 6103	80	9.980 6801	151	0.019 3199	9.858 9301	73	274	
		79		152			72		
727	9.839 6182		9.980 6953		0.019 3047	9.858 9229		273	
728	9.839 6261	79	9.980 7105	152	0.019 2895	9.858 9156	73	272	
729	9.839 6340	79	9.980 7256	151	0.019 2744	9.858 9084	72	271	
		80		152			73		
.730	9.839 6420		9.980 7408		0.019 2592	9.858 9011		.270	
		79		152			72		
731	9.839 6499		9.980 7560		0.019 2440	9.858 8939		269	
732	9.839 6578	79	9.980 7712	152	0.019 2288	9.858 8866	73	268	
733	9.839 6657	79	9.980 7863	151	0.019 2137	9.858 8794	72	267	
		80		152			73		
734	9.839 6737		9.980 8015		0.019 1985	9.858 8721		266	
735	9.839 6816	79	9.980 8167	152	0.019 1833	9.858 8649	72	265	
736	9.839 6895	79	9.980 8319	152	0.019 1681	9.858 8576	73	264	
		79		151			72		
737	9.839 6974		9.980 8470		0.019 1530	9.858 8504		263	
738	9.839 7053	79	9.980 8622	152	0.019 1378	9.858 8431	73	262	
739	9.839 7133	80	9.980 8774	152	0.019 1226	9.858 8359	72	261	
		79		152			73		
.740	9.839 7212		9.980 8926		0.019 1074	9.858 8286		.260	
		79		151			72		
741	9.839 7291		9.980 9077		0.019 0923	9.858 8214		259	
742	9.839 7370	79	9.980 9229	152	0.019 0771	9.858 8141	73	258	
743	9.839 7450	80	9.980 9381	152	0.019 0619	9.858 8069	72	257	
		79		152			73		
744	9.839 7529		9.980 9533		0.019 0467	9.858 7996		256	
745	9.839 7608	79	9.980 9684	151	0.019 0316	9.858 7923	73	255	
746	9.839 7687	79	9.980 9836	152	0.019 0164	9.858 7851	72	254	
		79		152			73		
747	9.839 7766		9.980 9988		0.019 0012	9.858 7778		253	
748	9.839 7845	79	9.981 0140	152	0.018 9860	9.858 7706	72	252	
749	9.839 7925	80	9.981 0291	151	0.018 9709	9.858 7633	73	251	
		79		152			72		
.750	9.839 8004		9.981 0443		0.018 9557	9.858 7561		.250	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	80	79
1	8.0	7.9
2	16.0	15.8
3	24.0	23.7
4	32.0	31.6
5	40.0	39.5
6	48.0	47.4
7	56.0	55.3
8	64.0	63.2
9	72.0	71.1

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

46°.300 — 46°.250

43°.750 — 43°.800

43°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.839 8004		9.981 0443		0.018 9557	9.858 7561		.250	
		79		152			73		
751	9.839 8083		9.981 0595		0.018 9405	9.858 7488		249	
752	9.839 8162	79	9.981 0747	152	0.018 9253	9.858 7416	72	248	
753	9.839 8241	79	9.981 0898	151	0.018 9102	9.858 7343	73	247	
		80		152			73		
754	9.839 8321		9.981 1050		0.018 8950	9.858 7270		246	
755	9.839 8400	79	9.981 1202	152	0.018 8798	9.858 7198	72	245	
756	9.839 8479	79	9.981 1354	152	0.018 8646	9.858 7125	73	244	
		79		151			72		
757	9.839 8558		9.981 1505		0.018 8495	9.858 7053		243	
758	9.839 8637	79	9.981 1657	152	0.018 8343	9.858 6980	73	242	
759	9.839 8716	79	9.981 1809	152	0.018 8191	9.858 6908	72	241	
		80		152			73		
.760	9.839 8796		9.981 1961		0.018 8039	9.858 6835		.240	
		79		151			73		
761	9.839 8875		9.981 2112		0.018 7888	9.858 6762		239	
762	9.839 8954	79	9.981 2264	152	0.018 7736	9.858 6690	72	238	
763	9.839 9033	79	9.981 2416	152	0.018 7584	9.858 6617	73	237	
		79		151			72		
764	9.839 9112		9.981 2567		0.018 7433	9.858 6545		236	
765	9.839 9191	79	9.981 2719	152	0.018 7281	9.858 6472	73	235	
766	9.839 9270	79	9.981 2871	152	0.018 7129	9.858 6399	73	234	
		80		152			72		
767	9.839 9350		9.981 3023		0.018 6977	9.858 6327		233	
768	9.839 9429	79	9.981 3174	151	0.018 6826	9.858 6254	73	232	
769	9.839 9508	79	9.981 3326	152	0.018 6674	9.858 6182	72	231	
		79		152			73		
.770	9.839 9587		9.981 3478		0.018 6522	9.858 6109		.230	
		79		152			73		
771	9.839 9666		9.981 3630		0.018 6370	9.858 6036		229	
772	9.839 9745	79	9.981 3781	151	0.018 6219	9.858 5964	72	228	
773	9.839 9824	79	9.981 3933	152	0.018 6067	9.858 5891	73	227	
		79		152			72		
774	9.839 9903		9.981 4085		0.018 5915	9.858 5819		226	
775	9.839 9982	79	9.981 4237	152	0.018 5763	9.858 5746	73	225	
776	9.840 0062	80	9.981 4388	151	0.018 5612	9.858 5673	73	224	
		79		152			72		
777	9.840 0141		9.981 4540		0.018 5460	9.858 5601		223	
778	9.840 0220	79	9.981 4692	152	0.018 5308	9.858 5528	73	222	
779	9.840 0299	79	9.981 4844	152	0.018 5156	9.858 5455	73	221	
		79		151			72		
.780	9.840 0378		9.981 4995		0.018 5005	9.858 5383		.220	
		79		152			73		
781	9.840 0457		9.981 5147		0.018 4853	9.858 5310		219	
782	9.840 0536	79	9.981 5299	152	0.018 4701	9.858 5237	73	218	
783	9.840 0615	79	9.981 5450	151	0.018 4550	9.858 5165	72	217	
		79		152			73		
784	9.840 0694		9.981 5602		0.018 4398	9.858 5092		216	
785	9.840 0773	79	9.981 5754	152	0.018 4246	9.858 5020	72	215	
786	9.840 0853	80	9.981 5906	152	0.018 4094	9.858 4947	73	214	
		79		151			73		
787	9.840 0932		9.981 6057		0.018 3943	9.858 4874		213	
788	9.840 1011	79	9.981 6209	152	0.018 3791	9.858 4802	72	212	
789	9.840 1090	79	9.981 6361	152	0.018 3639	9.858 4729	73	211	
		79		152			73		
.790	9.840 1169		9.981 6513		0.018 3487	9.858 4656		.210	
		79		151			72		
791	9.840 1248		9.981 6664		0.018 3336	9.858 4584		209	
792	9.840 1327	79	9.981 6816	152	0.018 3184	9.858 4511	73	208	
793	9.840 1406	79	9.981 6968	152	0.018 3032	9.858 4438	73	207	
		79		152			72		
794	9.840 1485		9.981 7120		0.018 2880	9.858 4366		206	
795	9.840 1564	79	9.981 7271	151	0.018 2729	9.858 4293	73	205	
796	9.840 1643	79	9.981 7423	152	0.018 2577	9.858 4220	73	204	
		79		152			72		
797	9.840 1722		9.981 7575		0.018 2425	9.858 4148		203	
798	9.840 1801	79	9.981 7726	151	0.018 2274	9.858 4075	73	202	
799	9.840 1880	79	9.981 7878	152	0.018 2122	9.858 4002	73	201	
		79		152			73		
.800	9.840 1959		9.981 8030		0.018 1970	9.858 3929		.200	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	80	79
1	8.0	7.9
2	16.0	15.8
3	24.0	23.7
4	32.0	31.6
5	40.0	39.5
6	48.0	47.4
7	56.0	55.3
8	64.0	63.2
9	72.0	71.1

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

46°.250 — 46°.200

43°.800 — 43°.850

43°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.840 1959		9.981 8030		0.018 1970	9.858 3929		**.200**	
		79		152			72		
801	9.840 2038		9.981 8182		0.018 1818	9.858 3857		199	
802	9.840 2117	79	9.981 8333	151	0.018 1667	9.858 3784	73	198	
803	9.840 2197	80	9.981 8485	152	0.018 1515	9.858 3711	73	197	
		79		152			72		
804	9.840 2276		9.981 8637		0.018 1363	9.858 3639		196	
805	9.840 2355	79	9.981 8789	152	0.018 1211	9.858 3566	73	195	
806	9.840 2434	79	9.981 8940	151	0.018 1060	9.858 3493	73	194	
		79		152			72		
807	9.840 2513		9.981 9092		0.018 0908	9.858 3421		193	
808	9.840 2592	79	9.981 9244	152	0.018 0756	9.858 3348	73	192	
809	9.840 2671	79	9.981 9395	151	0.018 0605	9.858 3275	73	191	
		79		152			73		
.810	9.840 2750		9.981 9547		0.018 0453	9.858 3202		**.190**	
		79		152			72		
811	9.840 2829		9.981 9699		0.018 0301	9.858 3130		189	
812	9.840 2908	79	9.981 9851	152	0.018 0149	9.858 3057	73	188	
813	9.840 2987	79	9.982 0002	151	0.017 9998	9.858 2984	73	187	
		79		152			72		
814	9.840 3066		9.982 0154		0.017 9846	9.858 2912		186	
815	9.840 3145	79	9.982 0306	152	0.017 9694	9.858 2839	73	185	
816	9.840 3224	79	9.982 0458	152	0.017 9542	9.858 2766	73	184	
		79		151			73		
817	9.840 3303		9.982 0609		0.017 9391	9.858 2693		183	
818	9.840 3382	79	9.982 0761	152	0.017 9239	9.858 2621	72	182	
819	9.840 3461	79	9.982 0913	152	0.017 9087	9.858 2548	73	181	
		79		151			73		
.820	9.840 3540		9.982 1064		0.017 8936	9.858 2475		**.180**	
		79		152			73		
821	9.840 3619		9.982 1216		0.017 8784	9.858 2402		179	
822	9.840 3698	79	9.982 1368	152	0.017 8632	9.858 2330	72	178	
823	9.840 3777	79	9.982 1520	152	0.017 8480	9.858 2257	73	177	
		79		151			73		
824	9.840 3856		9.982 1671		0.017 8329	9.858 2184		176	
825	9.840 3935	79	9.982 1823	152	0.017 8177	9.858 2111	73	175	
826	9.840 4014	79	9.982 1975	152	0.017 8025	9.858 2039	72	174	
		79		152			73		
827	9.840 4093		9.982 2127		0.017 7873	9.858 1966		173	
828	9.840 4171	78	9.982 2278	151	0.017 7722	9.858 1893	73	172	
829	9.840 4250	79	9.982 2430	152	0.017 7570	9.858 1820	73	171	
		79		152			72		
.830	9.840 4329		9.982 2582		0.017 7418	9.858 1748		**.170**	
		79		151			73		
831	9.840 4408		9.982 2733		0.017 7267	9.858 1675		169	
832	9.840 4487	79	9.982 2885	152	0.017 7115	9.858 1602	73	168	
833	9.840 4566	79	9.982 3037	152	0.017 6963	9.858 1529	73	167	
		79		152			72		
834	9.840 4645		9.982 3189		0.017 6811	9.858 1457		166	
835	9.840 4724	79	9.982 3340	151	0.017 6660	9.858 1384	73	165	
836	9.840 4803	79	9.982 3492	152	0.017 6508	9.858 1311	73	164	
		79		152			73		
837	9.840 4882		9.982 3644		0.017 6356	9.858 1238		163	
838	9.840 4961	79	9.982 3796	152	0.017 6204	9.858 1165	73	162	
839	9.840 5040	79	9.982 3947	151	0.017 6053	9.858 1093	72	161	
		79		152			73		
.840	9.840 5119		9.982 4099		0.017 5901	9.858 1020		**.160**	
		79		152			73		
841	9.840 5198		9.982 4251		0.017 5749	9.858 0947		159	
842	9.840 5277	79	9.982 4402	151	0.017 5598	9.858 0874	73	158	
843	9.840 5356	79	9.982 4554	152	0.017 5446	9.858 0802	72	157	
		79		152			73		
844	9.840 5435		9.982 4706		0.017 5294	9.858 0729		156	
845	9.840 5514	79	9.982 4858	152	0.017 5142	9.858 0656	73	155	
846	9.840 5592	78	9.982 5009	151	0.017 4991	9.858 0583	73	154	
		79		152			73		
847	9.840 5671		9.982 5161		0.017 4839	9.858 0510		153	
848	9.840 5750	79	9.982 5313	152	0.017 4687	9.858 0438	72	152	
849	9.840 5829	79	9.982 5464	151	0.017 4536	9.858 0365	73	151	
		79		152			73		
.850	9.840 5908		9.982 5616		0.017 4384	9.858 0292		**.150**	
	cos	d	cotg	d	tang	sin	d	**46°**	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	80	79
1	8.0	7.9
2	16.0	15.8
3	24.0	23.7
4	32.0	31.6
5	40.0	39.5
6	48.0	47.4
7	56.0	55.3
8	64.0	63.2
9	72.0	71.1

	78
1	7.8
2	15.6
3	23.4
4	31.2
5	39.0
6	46.8
7	54.6
8	62.4
9	70.2

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

46°.200 — 46°.150

43°.850 — 43°.900

43°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.840 5908		9.982 5616		0.017 4384	9.858 0292		.150	
		79		152			73		
851	9.840 5987		9.982 5768		0.017 4232	9.858 0219		149	
852	9.840 6066	79	9.982 5920	152	0.017 4080	9.858 0146	73	148	
853	9.840 6145	79	9.982 6071	151	0.017 3929	9.858 0073	73	147	
		79		152			72		
854	9.840 6224		9.982 6223		0.017 3777	9.858 0001		146	
855	9.840 6303	79	9.982 6375	152	0.017 3625	9.857 9928	73	145	
856	9.840 6381	78	9.982 6526	151	0.017 3474	9.857 9855	73	144	
		79		152			73		
857	9.840 6460		9.982 6678		0.017 3322	9.857 9782		143	
858	9.840 6539	79	9.982 6830	152	0.017 3170	9.857 9709	73	142	
859	9.840 6618	79	9.982 6982	152	0.017 3018	9.857 9636	73	141	
		79		151			72		
.860	9.840 6697		9.982 7133		0.017 2867	9.857 9564		.140	
		79		152			73		
861	9.840 6776		9.982 7285		0.017 2715	9.857 9491		139	
862	9.840 6855	79	9.982 7437	152	0.017 2563	9.857 9418	73	138	
863	9.840 6934	79	9.982 7589	152	0.017 2411	9.857 9345	73	137	
		78		151			73		
864	9.840 7012		9.982 7740		0.017 2260	9.857 9272		136	
865	9.840 7091	79	9.982 7892	152	0.017 2108	9.857 9199	73	135	
866	9.840 7170	79	9.982 8044	152	0.017 1956	9.857 9127	72	134	
		79		151			73		
867	9.840 7249		9.982 8195		0.017 1805	9.857 9054		133	
868	9.840 7328	79	9.982 8347	152	0.017 1653	9.857 8981	73	132	
869	9.840 7407	79	9.982 8499	152	0.017 1501	9.857 8908	73	131	
		79		152			73		
.870	9.840 7486		9.982 8651		0.017 1349	9.857 8835		.130	
		78		151			73		
871	9.840 7564		9.982 8802		0.017 1198	9.857 8762		129	
872	9.840 7643	79	9.982 8954	152	0.017 1046	9.857 8689	73	128	
873	9.840 7722	79	9.982 9106	152	0.017 0894	9.857 8616	73	127	
		79		151			72		
874	9.840 7801		9.982 9257		0.017 0743	9.857 8544		126	
875	9.840 7880	79	9.982 9409	152	0.017 0591	9.857 8471	73	125	
876	9.840 7959	79	9.982 9561	152	0.017 0439	9.857 8398	73	124	
		78		152			73		
877	9.840 8037		9.982 9713		0.017 0287	9.857 8325		123	
878	9.840 8116	79	9.982 9864	151	0.017 0136	9.857 8252	73	122	
879	9.840 8195	79	9.983 0016	152	0.016 9984	9.857 8179	73	121	
		79		152			73		
.880	9.840 8274		9.983 0168		0.016 9832	9.857 8106		.120	
		79		151			73		
881	9.840 8353		9.983 0319		0.016 9681	9.857 8033		119	
882	9.840 8432	79	9.983 0471	152	0.016 9529	9.857 7960	73	118	
883	9.840 8510	78	9.983 0623	152	0.016 9377	9.857 7888	72	117	
		79		152			73		
884	9.840 8589		9.983 0775		0.016 9225	9.857 7815		116	
885	9.840 8668	79	9.983 0926	151	0.016 9074	9.857 7742	73	115	
886	9.840 8747	79	9.983 1078	152	0.016 8922	9.857 7669	73	114	
		79		152			73		
887	9.840 8826		9.983 1230		0.016 8770	9.857 7596		113	
888	9.840 8904	78	9.983 1381	151	0.016 8619	9.857 7523	73	112	
889	9.840 8983	79	9.983 1533	152	0.016 8467	9.857 7450	73	111	
		79		152			73		
.890	9.840 9062		9.983 1685		0.016 8315	9.857 7377		.110	
		79		152			73		
891	9.840 9141		9.983 1837		0.016 8163	9.857 7304		109	
892	9.840 9220	79	9.983 1988	151	0.016 8012	9.857 7231	73	108	
893	9.840 9298	78	9.983 2140	152	0.016 7860	9.857 7158	73	107	
		79		152			72		
894	9.840 9377		9.983 2292		0.016 7708	9.857 7086		106	
895	9.840 9456	79	9.983 2443	151	0.016 7557	9.857 7013	73	105	
896	9.840 9535	79	9.983 2595	152	0.016 7405	9.857 6940	73	104	
		79		152			73		
897	9.840 9614		9.983 2747		0.016 7253	9.857 6867		103	
898	9.840 9692	78	9.983 2898	151	0.016 7102	9.857 6794	73	102	
899	9.840 9771	79	9.983 3050	152	0.016 6950	9.857 6721	73	101	
		79		152			73		
.900	9.840 9850		9.983 3202		0.016 6798	9.857 6648		.100	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	79	78
1	7.9	7.8
2	15.8	15.6
3	23.7	23.4
4	31.6	31.2
5	39.5	39.0
6	47.4	46.8
7	55.3	54.6
8	63.2	62.4
9	71.1	70.2

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

46°.150 — 46°.100

43°.900 — 43°.950

43°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.840 9850		9.983 3202		0.016 6798	9.857 6648		.100	
		79		152			73		
901	9.840 9929		9.983 3354		0.016 6646	9.857 6575		099	
902	9.841 0007	78	9.983 3505	151	0.016 6495	9.857 6502	73	098	
903	9.841 0086	79	9.983 3657	152	0.016 6343	9.857 6429	73	097	
		79		152			73		
904	9.841 0165		9.983 3809		0.016 6191	9.857 6356		096	
905	9.841 0244	79	9.983 3960	151	0.016 6040	9.857 6283	73	095	
906	9.841 0322	78	9.983 4112	152	0.016 5888	9.857 6210	73	094	
		79		152			73		
907	9.841 0401		9.983 4264		0.016 5736	9.857 6137		093	
908	9.841 0480	79	9.983 4416	152	0.016 5584	9.857 6064	73	092	
909	9.841 0559	79	9.983 4567	151	0.016 5433	9.857 5991	73	091	
		78		152			73		
.910	9.841 0637		9.983 4719		0.016 5281	9.857 5918		.090	
		79		152			73		
911	9.841 0716		9.983 4871		0.016 5129	9.857 5845		089	
912	9.841 0795	79	9.983 5022	151	0.016 4978	9.857 5772	73	088	
913	9.841 0874	79	9.983 5174	152	0.016 4826	9.857 5699	73	087	
		78		152			73		
914	9.841 0952		9.983 5326		0.016 4674	9.857 5626		086	
915	9.841 1031	79	9.983 5478	152	0.016 4522	9.857 5553	73	085	
916	9.841 1110	79	9.983 5629	151	0.016 4371	9.857 5481	72	084	
		78		152			73		
917	9.841 1188		9.983 5781		0.016 4219	9.857 5408		083	
918	9.841 1267	79	9.983 5933	152	0.016 4067	9.857 5335	73	082	
919	9.841 1346	79	9.983 6084	151	0.016 3916	9.857 5262	73	081	
		79		152			73		
.920	9.841 1425		9.983 6236		0.016 3764	9.857 5189		.080	
		78		152			73		
921	9.841 1503		9.983 6388		0.016 3612	9.857 5116		079	
922	9.841 1582	79	9.983 6539	151	0.016 3461	9.857 5043	73	078	
923	9.841 1661	79	9.983 6691	152	0.016 3309	9.857 4970	73	077	
		78		152			73		
924	9.841 1739		9.983 6843		0.016 3157	9.857 4897		076	
925	9.841 1818	79	9.983 6995	152	0.016 3005	9.857 4824	73	075	
926	9.841 1897	79	9.983 7146	151	0.016 2854	9.857 4751	73	074	
		79		152			73		
927	9.841 1976		9.983 7298		0.016 2702	9.857 4678		073	
928	9.841 2054	78	9.983 7450	152	0.016 2550	9.857 4605	73	072	
929	9.841 2133	79	9.983 7601	151	0.016 2399	9.857 4532	73	071	
		79		152			74		
.930	9.841 2212		9.983 7753		0.016 2247	9.857 4458		.070	
		78		152			73		
931	9.841 2290		9.983 7905		0.016 2095	9.857 4385		069	
932	9.841 2369	79	9.983 8056	151	0.016 1944	9.857 4312	73	068	
933	9.841 2448	79	9.983 8208	152	0.016 1792	9.857 4239	73	067	
		78		152			73		
934	9.841 2526		9.983 8360		0.016 1640	9.857 4166		066	
935	9.841 2605	79	9.983 8512	152	0.016 1488	9.857 4093	73	065	
936	9.841 2684	79	9.983 8663	151	0.016 1337	9.857 4020	73	064	
		78		152			73		
937	9.841 2762		9.983 8815		0.016 1185	9.857 3947		063	
938	9.841 2841	79	9.983 8967	152	0.016 1033	9.857 3874	73	062	
939	9.841 2920	79	9.983 9118	151	0.016 0882	9.857 3801	73	061	
		78		152			73		
.940	9.841 2998		9.983 9270		0.016 0730	9.857 3728		.060	
		79		152			73		
941	9.841 3077		9.983 9422		0.016 0578	9.857 3655		059	
942	9.841 3156	79	9.983 9574	152	0.016 0426	9.857 3582	73	058	
943	9.841 3234	78	9.983 9725	151	0.016 0275	9.857 3509	73	057	
		79		152			73		
944	9.841 3313		9.983 9877		0.016 0123	9.857 3436		056	
945	9.841 3392	79	9.984 0029	152	0.015 9971	9.857 3363	73	055	
946	9.841 3470	78	9.984 0180	151	0.015 9820	9.857 3290	73	054	
		79		152			73		
947	9.841 3549		9.984 0332		0.015 9668	9.857 3217		053	
948	9.841 3627	78	9.984 0484	152	0.015 9516	9.857 3144	73	052	
949	9.841 3706	79	9.984 0635	151	0.015 9365	9.857 3071	73	051	
		79		152			73		
.950	9.841 3785		9.984 0787		0.015 9213	9.857 2998		.050	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	79	78
1	7.9	7.8
2	15.8	15.6
3	23.7	23.4
4	31.6	31.2
5	39.5	39.0
6	47.4	46.8
7	55.3	54.6
8	63.2	62.4
9	71.1	70.2

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

	72
1	7.2
2	14.4
3	21.6
4	28.8
5	36.0
6	43.2
7	50.4
8	57.6
9	64.8

46°.100 — 46°.050

43°.950 — 44°.000

43°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.841 3785		9.984 0787		0.015 9213	9.857 2998		.050	
		78		152			73		
951	9.841 3863		9.984 0939		0.015 9061	9.857 2925		049	
952	9.841 3942	79	9.984 1091	152	0.015 8909	9.857 2851	74	048	
953	9.841 4021	79	9.984 1242	151	0.015 8758	9.857 2778	73	047	
		78		152			73		
954	9.841 4099		9.984 1394		0.015 8606	9.857 2705		046	
955	9.841 4178	79	9.984 1546	152	0.015 8454	9.857 2632	73	045	
956	9.841 4256	78	9.984 1697	151	0.015 8303	9.857 2559	73	044	
		79		152			73		
957	9.841 4335		9.984 1849		0.015 8151	9.857 2486		043	
958	9.841 4414	79	9.984 2001	152	0.015 7999	9.857 2413	73	042	
959	9.841 4492	78	9.984 2152	151	0.015 7848	9.857 2340	73	041	
		79		152			73		
.960	9.841 4571		9.984 2304		0.015 7696	9.857 2267		.040	
		78		152			73		
961	9.841 4649		9.984 2456		0.015 7544	9.857 2194		039	
962	9.841 4728	79	9.984 2607	151	0.015 7393	9.857 2121	73	038	
963	9.841 4807	79	9.984 2759	152	0.015 7241	9.857 2047	74	037	
		78		152			73		
964	9.841 4885		9.984 2911		0.015 7089	9.857 1974		036	
965	9.841 4964	79	9.984 3063	152	0.015 6937	9.857 1901	73	035	
966	9.841 5042	78	9.984 3214	151	0.015 6786	9.857 1828	73	034	
		79		152			73		
967	9.841 5121		9.984 3366		0.015 6634	9.857 1755		033	
968	9.841 5200	79	9.984 3518	152	0.015 6482	9.857 1682	73	032	
969	9.841 5278	78	9.984 3669	151	0.015 6331	9.857 1609	73	031	
		79		152			73		
.970	9.841 5357		9.984 3821		0.015 6179	9.857 1536		.030	
		78		152			73		
971	9.841 5435		9.984 3973		0.015 6027	9.857 1463		029	
972	9.841 5514	79	9.984 4124	151	0.015 5876	9.857 1389	74	028	
973	9.841 5592	78	9.984 4276	152	0.015 5724	9.857 1316	73	027	
		79		152			73		
974	9.841 5671		9.984 4428		0.015 5572	9.857 1243		026	
975	9.841 5750	79	9.984 4580	152	0.015 5420	9.857 1170	73	025	
976	9.841 5828	78	9.984 4731	151	0.015 5269	9.857 1097	73	024	
		79		152			73		
977	9.841 5907		9.984 4883		0.015 5117	9.857 1024		023	
978	9.841 5985	78	9.984 5035	152	0.015 4965	9.857 0951	73	022	
979	9.841 6064	79	9.984 5186	151	0.015 4814	9.857 0877	74	021	
		78		152			73		
.980	9.841 6142		9.984 5338		0.015 4662	9.857 0804		.020	
		79		152			73		
981	9.841 6221		9.984 5490		0.015 4510	9.857 0731		019	
982	9.841 6299	78	9.984 5641	151	0.015 4359	9.857 0658	73	018	
983	9.841 6378	79	9.984 5793	152	0.015 4207	9.857 0585	73	017	
		79		152			73		
984	9.841 6457		9.984 5945		0.015 4055	9.857 0512		016	
985	9.841 6535	78	9.984 6096	151	0.015 3904	9.857 0439	73	015	
986	9.841 6614	79	9.984 6248	152	0.015 3752	9.857 0365	74	014	
		78		152			73		
987	9.841 6692		9.984 6400		0.015 3600	9.857 0292		013	
988	9.841 6771	79	9.984 6552	152	0.015 3448	9.857 0219	73	012	
989	9.841 6849	78	9.984 6703	151	0.015 3297	9.857 0146	73	011	
		79		152			73		
.990	9.841 6928		9.984 6855		0.015 3145	9.857 0073		.010	
		78		152			73		
991	9.841 7006		9.984 7007		0.015 2993	9.857 0000		009	
992	9.841 7085	79	9.984 7158	151	0.015 2842	9.856 9926	74	008	
993	9.841 7163	78	9.984 7310	152	0.015 2690	9.856 9853	73	007	
		79		152			73		
994	9.841 7242		9.984 7462		0.015 2538	9.856 9780		006	
995	9.841 7320	78	9.984 7613	151	0.015 2387	9.856 9707	73	005	
996	9.841 7399	79	9.984 7765	152	0.015 2235	9.856 9634	73	004	
		78		152			74		
997	9.841 7477		9.984 7917		0.015 2083	9.856 9560		003	
998	9.841 7556	79	9.984 8068	151	0.015 1932	9.856 9487	73	002	
999	9.841 7634	78	9.984 8220	152	0.015 1780	9.856 9414	73	001	
		79		152			73		
*.000	9.841 7713		9.984 8372		0.015 1628	9.856 9341		.000	
	cos	d	cotg	d	tang	sin	d	46°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	79	78
1	7.9	7.8
2	15.8	15.6
3	23.7	23.4
4	31.6	31.2
5	39.5	39.0
6	47.4	46.8
7	55.3	54.6
8	63.2	62.4
9	71.1	70.2

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

46°.050 — 46°.000

44°.000 — 44°.050

44°	sin	d	tang	d	cotg	cos	d		P.P.
.000	9.841 7713		9.984 8372		0.015 1628	9.856 9341		*000	
		78		152			73		
001	9.841 7791		9.984 8524		0.015 1476	9.856 9268		999	
002	9.841 7870	79	9.984 8675	151	0.015 1325	9.856 9194	74	998	
003	9.841 7948	78	9.984 8827	152	0.015 1173	9.856 9121	73	997	
		79		152			73		
004	9.841 8027		9.984 8979		0.015 1021	9.856 9048		996	
005	9.841 8105	78	9.984 9130	151	0.015 0870	9.856 8975	73	995	
006	9.841 8184	79	9.984 9282	152	0.015 0718	9.856 8902	73	994	
		78		152			74		
007	9.841 8262		9.984 9434		0.015 0566	9.856 8828		993	
008	9.841 8341	79	9.984 9585	151	0.015 0415	9.856 8755	73	992	
009	9.841 8419	78	9.984 9737	152	0.015 0263	9.856 8682	73	991	
		79		152			73		
.010	9.841 8498		9.984 9889		0.015 0111	9.856 8609		.990	
		78		151			73		
011	9.841 8576		9.985 0040		0.014 9960	9.856 8536		989	
012	9.841 8654	78	9.985 0192	152	0.014 9808	9.856 8462	74	988	
013	9.841 8733	79	9.985 0344	152	0.014 9656	9.856 8389	73	987	
		78		151			73		
014	9.841 8811		9.985 0495		0.014 9505	9.856 8316		986	
015	9.841 8890	79	9.985 0647	152	0.014 9353	9.856 8243	73	985	
016	9.841 8968	78	9.985 0799	152	0.014 9201	9.856 8169	74	984	
		79		152			73		
017	9.841 9047		9.985 0951		0.014 9049	9.856 8096		983	
018	9.841 9125	78	9.985 1102	151	0.014 8898	9.856 8023	73	982	
019	9.841 9204	79	9.985 1254	152	0.014 8746	9.856 7950	73	981	
		78		152			74		
.020	9.841 9282		9.985 1406		0.014 8594	9.856 7876		.980	
		78		151			73		
021	9.841 9360		9.985 1557		0.014 8443	9.856 7803		979	
022	9.841 9439	79	9.985 1709	152	0.014 8291	9.856 7730	73	978	
023	9.841 9517	78	9.985 1861	152	0.014 8139	9.856 7657	73	977	
		79		151			74		
024	9.841 9596		9.985 2012		0.014 7988	9.856 7583		976	
025	9.841 9674	78	9.985 2164	152	0.014 7836	9.856 7510	73	975	
026	9.841 9753	79	9.985 2316	152	0.014 7684	9.856 7437	73	974	
		78		151			73		
027	9.841 9831		9.985 2467		0.014 7533	9.856 7364		973	74
028	9.841 9909	78	9.985 2619	152	0.014 7381	9.856 7290	74	972	1 7.4
029	9.841 9988	79	9.985 2771	152	0.014 7229	9.856 7217	73	971	2 14.8
		78		151			73		3 22.2
.030	9.842 0066		9.985 2922		0.014 7078	9.856 7144		.970	4 29.6
		79		152			73		5 37.0
031	9.842 0145		9.985 3074		0.014 6926	9.856 7071		969	6 44.4
032	9.842 0223	78	9.985 3226	152	0.014 6774	9.856 6997	74	968	7 51.8
033	9.842 0301	78	9.985 3377	151	0.014 6623	9.856 6924	73	967	8 59.2
		79		152			73		9 66.6
034	9.842 0380		9.985 3529		0.014 6471	9.856 6851		966	
035	9.842 0458	78	9.985 3681	152	0.014 6319	9.856 6777	74	965	
036	9.842 0537	79	9.985 3833	152	0.014 6167	9.856 6704	73	964	
		78		151			73		
037	9.842 0615		9.985 3984		0.014 6016	9.856 6631		963	
038	9.842 0693	78	9.985 4136	152	0.014 5864	9.856 6558	73	962	
039	9.842 0772	79	9.985 4288	152	0.014 5712	9.856 6484	74	961	73
		78		151			73		
.040	9.842 0850		9.985 4439		0.014 5561	9.856 6411		.960	1 7.3
		79		152			73		2 14.6
041	9.842 0929		9.985 4591		0.014 5409	9.856 6338		959	3 21.9
042	9.842 1007	78	9.985 4743	152	0.014 5257	9.856 6264	74	958	4 29.2
043	9.842 1085	78	9.985 4894	151	0.014 5106	9.856 6191	73	957	5 36.5
		79		152			73		6 43.8
044	9.842 1164		9.985 5046		0.014 4954	9.856 6118		956	7 51.1
045	9.842 1242	78	9.985 5198	152	0.014 4802	9.856 6044	74	955	8 58.4
046	9.842 1320	78	9.985 5349	151	0.014 4651	9.856 5971	73	954	9 65.7
		79		152			73		
047	9.842 1399		9.985 5501		0.014 4499	9.856 5898		953	
048	9.842 1477	78	9.985 5653	152	0.014 4347	9.856 5824	74	952	
049	9.842 1556	79	9.985 5804	151	0.014 4196	9.856 5751	73	951	
		78		152			73		
.050	9.842 1634		9.985 5956		0.014 4044	9.856 5678		.950	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	79	78
1	7.9	7.8
2	15.8	15.6
3	23.7	23.4
4	31.6	31.2
5	39.5	39.0
6	47.4	46.8
7	55.3	54.6
8	63.2	62.4
9	71.1	70.2

46°.000 — 45°.950

44°.050 — 44°.100

44°	sin	d	tang	d	cotg	cos	d		P.P.
.050	9.842 1634		9.985 5956		0.014 4044	9.856 5678		**.950**	
		78		152			74		
051	9.842 1712		9.985 6108		0.014 3892	9.856 5604		949	
052	9.842 1791	79	9.985 6259	151	0.014 3741	9.856 5531	73	948	
053	9.842 1869	78	9.985 6411	152	0.014 3589	9.856 5458	73	947	
		78		152			74		
054	9.842 1947		9.985 6563		0.014 3437	9.856 5384		946	
055	9.842 2026	79	9.985 6714	151	0.014 3286	9.856 5311	73	945	
056	9.842 2104	78	9.985 6866	152	0.014 3134	9.856 5238	73	944	
		78		152			74		
057	9.842 2182		9.985 7018		0.014 2982	9.856 5164		943	
058	9.842 2261	79	9.985 7170	152	0.014 2830	9.856 5091	73	942	
059	9.842 2339	78	9.985 7321	151	0.014 2679	9.856 5018	73	941	
		78		152			74		
.060	9.842 2417		9.985 7473		0.014 2527	9.856 4944		**.940**	
		79		152			73		
061	9.842 2496		9.985 7625		0.014 2375	9.856 4871		939	
062	9.842 2574	78	9.985 7776	151	0.014 2224	9.856 4798	73	938	
063	9.842 2652	78	9.985 7928	152	0.014 2072	9.856 4724	74	937	
		79		152			73		
064	9.842 2731		9.985 8080		0.014 1920	9.856 4651		936	
065	9.842 2809	78	9.985 8231	151	0.014 1769	9.856 4578	73	935	
066	9.842 2887	78	9.985 8383	152	0.014 1617	9.856 4504	74	934	
		79		152			73		
067	9.842 2966		9.985 8535		0.014 1465	9.856 4431		933	
068	9.842 3044	78	9.985 8686	151	0.014 1314	9.856 4358	73	932	
069	9.842 3122	78	9.985 8838	152	0.014 1162	9.856 4284	74	931	
		78		152			73		
.070	9.842 3200		9.985 8990		0.014 1010	9.856 4211		**.930**	
		79		151			74		
071	9.842 3279		9.985 9141		0.014 0859	9.856 4137		929	
072	9.842 3357	78	9.985 9293	152	0.014 0707	9.856 4064	73	928	
073	9.842 3435	78	9.985 9445	152	0.014 0555	9.856 3991	73	927	
		79		151			74		
074	9.842 3514		9.985 9596		0.014 0404	9.856 3917		926	
075	9.842 3592	78	9.985 9748	152	0.014 0252	9.856 3844	73	925	
076	9.842 3670	78	9.985 9900	152	0.014 0100	9.856 3770	74	924	
		78		151			73		
077	9.842 3748		9.986 0051		0.013 9949	9.856 3697		923	
078	9.842 3827	79	9.986 0203	152	0.013 9797	9.856 3624	73	922	
079	9.842 3905	78	9.986 0355	152	0.013 9645	9.856 3550	74	921	
		78		151			73		
.080	9.842 3983		9.986 0506		0.013 9494	9.856 3477		**.920**	
		79		152			74		
081	9.842 4062		9.986 0658		0.013 9342	9.856 3403		919	
082	9.842 4140	78	9.986 0810	152	0.013 9190	9.856 3330	73	918	
083	9.842 4218	78	9.986 0961	151	0.013 9039	9.856 3257	73	917	
		78		152			74		
084	9.842 4296		9.986 1113		0.013 8887	9.856 3183		916	
085	9.842 4375	79	9.986 1265	152	0.013 8735	9.856 3110	73	915	
086	9.842 4453	78	9.986 1416	151	0.013 8584	9.856 3036	74	914	
		78		152			73		
087	9.842 4531		9.986 1568		0.013 8432	9.856 2963		913	
088	9.842 4609	78	9.986 1720	152	0.013 8280	9.856 2890	73	912	
089	9.842 4688	79	9.986 1872	152	0.013 8128	9.856 2816	74	911	
		78		151			73		
.090	9.842 4766		9.986 2023		0.013 7977	9.856 2743		**.910**	
		78		152			74		
091	9.842 4844		9.986 2175		0.013 7825	9.856 2669		909	
092	9.842 4922	78	9.986 2327	152	0.013 7673	9.856 2596	73	908	
093	9.842 5001	79	9.986 2478	151	0.013 7522	9.856 2522	74	907	
		78		152			73		
094	9.842 5079		9.986 2630		0.013 7370	9.856 2449		906	
095	9.842 5157	78	9.986 2782	152	0.013 7218	9.856 2376	73	905	
096	9.842 5235	78	9.986 2933	151	0.013 7067	9.856 2302	74	904	
		79		152			73		
097	9.842 5314		9.986 3085		0.013 6915	9.856 2229		903	
098	9.842 5392	78	9.986 3237	152	0.013 6763	9.856 2155	74	902	
099	9.842 5470	78	9.986 3388	151	0.013 6612	9.856 2082	73	901	
		78		152			74		
.100	9.842 5548		9.986 3540		0.013 6460	9.856 2008		**.900**	
	cos	d	cotg	d	tang	sin	d	**45°**	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	79	78
1	7.9	7.8
2	15.8	15.6
3	23.7	23.4
4	31.6	31.2
5	39.5	39.0
6	47.4	46.8
7	55.3	54.6
8	63.2	62.4
9	71.1	70.2

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

45°.950 — 45°.900

44°.100 — 44°.150

44°	sin	d	tang	d	cotg	cos	d		P.P.
.100	9.842 5548		9.986 3540		0.013 6460	9.856 2008		.900	
		78		152			73		
101	9.842 5626		9.986 3692		0.013 6308	9.856 1935		899	
102	9.842 5705	79	9.986 3843	151	0.013 6157	9.856 1861	74	898	
103	9.842 5783	78	9.986 3995	152	0.013 6005	9.856 1788	73	897	
		78		152			74		
104	9.842 5861		9.986 4147		0.013 5853	9.856 1714		896	
105	9.842 5939	78	9.986 4298	151	0.013 5702	9.856 1641	73	895	
106	9.842 6017	78	9.986 4450	152	0.013 5550	9.856 1568	73	894	
		79		152			74		
107	9.842 6096		9.986 4602		0.013 5398	9.856 1494		893	
108	9.842 6174	78	9.986 4753	151	0.013 5247	9.856 1421	73	892	
109	9.842 6252	78	9.986 4905	152	0.013 5095	9.856 1347	74	891	
		78		152			73		
.110	9.842 6330		9.986 5057		0.013 4943	9.856 1274		.890	
		78		151			74		
111	9.842 6408		9.986 5208		0.013 4792	9.856 1200		889	
112	9.842 6487	79	9.986 5360	152	0.013 4640	9.856 1127	73	888	
113	9.842 6565	78	9.986 5512	152	0.013 4488	9.856 1053	74	887	
		78		151			73		
114	9.842 6643		9.986 5663		0.013 4337	9.856 0980		886	
115	9.842 6721	78	9.986 5815	152	0.013 4185	9.856 0906	74	885	
116	9.842 6799	78	9.986 5967	152	0.013 4033	9.856 0833	73	884	
		79		151			74		
117	9.842 6878		9.986 6118		0.013 3882	9.856 0759		883	
118	9.842 6956	78	9.986 6270	152	0.013 3730	9.856 0686	73	882	
119	9.842 7034	78	9.986 6422	152	0.013 3578	9.856 0612	74	881	
		78		151			73		
.120	9.842 7112		9.986 6573		0.013 3427	9.856 0539		.880	
		78		152			74		
121	9.842 7190		9.986 6725		0.013 3275	9.856 0465		879	
122	9.842 7268	78	9.986 6877	152	0.013 3123	9.856 0392	73	878	
123	9.842 7347	79	9.986 7028	151	0.013 2972	9.856 0318	74	877	
		78		152			73		
124	9.842 7425		9.986 7180		0.013 2820	9.856 0245		876	
125	9.842 7503	78	9.986 7332	152	0.013 2668	9.856 0171	74	875	
126	9.842 7581	78	9.986 7483	151	0.013 2517	9.856 0098	73	874	
		78		152			74		
127	9.842 7659		9.986 7635		0.013 2365	9.856 0024		873	
128	9.842 7737	78	9.986 7787	152	0.013 2213	9.855 9951	73	872	
129	9.842 7815	78	9.986 7938	151	0.013 2062	9.855 9877	74	871	
		79		152			73		
.130	9.842 7894		9.986 8090		0.013 1910	9.855 9804		.870	
		78		152			74		
131	9.842 7972		9.986 8242		0.013 1758	9.855 9730		869	
132	9.842 8050	78	9.986 8393	151	0.013 1607	9.855 9656	74	868	
133	9.842 8128	78	9.986 8545	152	0.013 1455	9.855 9583	73	867	
		78		152			74		
134	9.842 8206		9.986 8697		0.013 1303	9.855 9509		866	
135	9.842 8284	78	9.986 8848	151	0.013 1152	9.855 9436	73	865	
136	9.842 8362	78	9.986 9000	152	0.013 1000	9.855 9362	74	864	
		78		152			73		
137	9.842 8440		9.986 9152		0.013 0848	9.855 9289		863	
138	9.842 8519	79	9.986 9303	151	0.013 0697	9.855 9215	74	862	
139	9.842 8597	78	9.986 9455	152	0.013 0545	9.855 9142	73	861	
		78		152			74		
.140	9.842 8675		9.986 9607		0.013 0393	9.855 9068		.860	
		78		151			73		
141	9.842 8753		9.986 9758		0.013 0242	9.855 8995		859	
142	9.842 8831	78	9.986 9910	152	0.013 0090	9.855 8921	74	858	
143	9.842 8909	78	9.987 0062	152	0.012 9938	9.855 8847	74	857	
		78		151			73		
144	9.842 8987		9.987 0213		0.012 9787	9.855 8774		856	
145	9.842 9065	78	9.987 0365	152	0.012 9635	9.855 8700	74	855	
146	9.842 9143	78	9.987 0517	152	0.012 9483	9.855 8627	73	854	
		78		151			74		
147	9.842 9221		9.987 0668		0.012 9332	9.855 8553		853	
148	9.842 9300	79	9.987 0820	152	0.012 9180	9.855 8480	73	852	
149	9.842 9378	78	9.987 0972	152	0.012 9028	9.855 8406	74	851	
		78		151			74		
.150	9.842 9456		9.987 1123		0.012 8877	9.855 8332		.850	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	79	78
1	7.9	7.8
2	15.8	15.6
3	23.7	23.4
4	31.6	31.2
5	39.5	39.0
6	47.4	46.8
7	55.3	54.6
8	63.2	62.4
9	71.1	70.2

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

45°.900 — 45°.850

44°.150 — 44°.200

44°	sin	d	tang	d	cotg	cos	d		P.P.
.150	9.842 9456		9.987 1123		0.012 8877	9.855 8332		.850	
		78		152			73		
151	9.842 9534		9.987 1275		0.012 8725	9.855 8259		849	
152	9.842 9612	78	9.987 1427	152	0.012 8573	9.855 8185	74	848	
153	9.842 9690	78	9.987 1578	151	0.012 8422	9.855 8112	73	847	
		78		152			74		
154	9.842 9768		9.987 1730		0.012 8270	9.855 8038		846	
155	9.842 9846	78	9.987 1882	152	0.012 8118	9.855 7964	74	845	
156	9.842 9924	78	9.987 2033	151	0.012 7967	9.855 7891	73	844	
		78		152			74		
157	9.843 0002		9.987 2185		0.012 7815	9.855 7817		843	
158	9.843 0080	78	9.987 2337	152	0.012 7663	9.855 7744	73	842	
159	9.843 0158	78	9.987 2488	151	0.012 7512	9.855 7670	74	841	
		78		152			74		
.160	9.843 0236		9.987 2640		0.012 7360	9.855 7596		.840	
		78		152			73		
161	9.843 0314		9.987 2792		0.012 7208	9.855 7523		839	
162	9.843 0393	79	9.987 2943	151	0.012 7057	9.855 7449	74	838	
163	9.843 0471	78	9.987 3095	152	0.012 6905	9.855 7376	73	837	
		78		152			74		
164	9.843 0549		9.987 3247		0.012 6753	9.855 7302		836	
165	9.843 0627	78	9.987 3398	151	0.012 6602	9.855 7228	74	835	
166	9.843 0705	78	9.987 3550	152	0.012 6450	9.855 7155	73	834	
		78		152			74		
167	9.843 0783		9.987 3702		0.012 6298	9.855 7081		833	
168	9.843 0861	78	9.987 3853	151	0.012 6147	9.855 7007	74	832	
169	9.843 0939	78	9.987 4005	152	0.012 5995	9.855 6934	73	831	
		78		152			74		
.170	9.843 1017		9.987 4157		0.012 5843	9.855 6860		.830	
		78		151			73		
171	9.843 1095		9.987 4308		0.012 5692	9.855 6787		829	
172	9.843 1173	78	9.987 4460	152	0.012 5540	9.855 6713	74	828	
173	9.843 1251	78	9.987 4612	152	0.012 5388	9.855 6639	74	827	
		78		151			73		
174	9.843 1329		9.987 4763		0.012 5237	9.855 6566		826	
175	9.843 1407	78	9.987 4915	152	0.012 5085	9.855 6492	74	825	
176	9.843 1485	78	9.987 5067	152	0.012 4933	9.855 6418	74	824	
		78		151			73		
177	9.843 1563		9.987 5218		0.012 4782	9.855 6345		823	
178	9.843 1641	78	9.987 5370	152	0.012 4630	9.855 6271	74	822	
179	9.843 1719	78	9.987 5522	152	0.012 4478	9.855 6197	74	821	
		78		151			73		
.180	9.843 1797		9.987 5673		0.012 4327	9.855 6124		.820	
		78		152			74		
181	9.843 1875		9.987 5825		0.012 4175	9.855 6050		819	
182	9.843 1953	78	9.987 5976	151	0.012 4024	9.855 5976	74	818	
183	9.843 2031	78	9.987 6128	152	0.012 3872	9.855 5903	73	817	
		78		152			74		
184	9.843 2109		9.987 6280		0.012 3720	9.855 5829		816	
185	9.843 2187	78	9.987 6431	151	0.012 3569	9.855 5755	74	815	
186	9.843 2265	78	9.987 6583	152	0.012 3417	9.855 5682	73	814	
		78		152			74		
187	9.843 2343		9.987 6735		0.012 3265	9.855 5608		813	
188	9.843 2421	78	9.987 6886	151	0.012 3114	9.855 5534	74	812	
189	9.843 2499	78	9.987 7038	152	0.012 2962	9.855 5461	73	811	
		78		152			74		
.190	9.843 2577		9.987 7190		0.012 2810	9.855 5387		.810	
		78		151			74		
191	9.843 2655		9.987 7341		0.012 2659	9.855 5313		809	
192	9.843 2733	78	9.987 7493	152	0.012 2507	9.855 5240	73	808	
193	9.843 2811	78	9.987 7645	152	0.012 2355	9.855 5166	74	807	
		78		151			74		
194	9.843 2889		9.987 7796		0.012 2204	9.855 5092		806	
195	9.843 2967	78	9.987 7948	152	0.012 2052	9.855 5019	73	805	
196	9.843 3045	78	9.987 8100	152	0.012 1900	9.855 4945	74	804	
		78		151			74		
197	9.843 3123		9.987 8251		0.012 1749	9.855 4871		803	
198	9.843 3201	78	9.987 8403	152	0.012 1597	9.855 4797	74	802	
199	9.843 3278	77	9.987 8555	152	0.012 1445	9.855 4724	73	801	
		78		151			74		
.200	9.843 3356		9.987 8706		0.012 1294	9.855 4650		.800	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	79	78
1	7.9	7.8
2	15.8	15.6
3	23.7	23.4
4	31.6	31.2
5	39.5	39.0
6	47.4	46.8
7	55.3	54.6
8	63.2	62.4
9	71.1	70.2

	77
1	7.7
2	15.4
3	23.1
4	30.8
5	38.5
6	46.2
7	53.9
8	61.6
9	69.3

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

45°.850 — 45°.800

44°.200 — 44°.250

44°	sin	d	tang	d	cotg	cos	d		P.P.
.200	9.843 3356		9.987 8706		0.012 1294	9.855 4650		.800	
		78		152			74		
201	9.843 3434		9.987 8858		0.012 1142	9.855 4576		799	
202	9.843 3512	78	9.987 9010	152	0.012 0990	9.855 4503	73	798	
203	9.843 3590	78	9.987 9161	151	0.012 0839	9.855 4429	74	797	
		78		152			74		
204	9.843 3668		9.987 9313		0.012 0687	9.855 4355		796	
205	9.843 3746	78	9.987 9465	152	0.012 0535	9.855 4281	74	795	
206	9.843 3824	78	9.987 9616	151	0.012 0384	9.855 4208	73	794	
		78		152			74		
207	9.843 3902		9.987 9768		0.012 0232	9.855 4134		793	
208	9.843 3980	78	9.987 9920	152	0.012 0080	9.855 4060	74	792	
209	9.843 4058	78	9.988 0071	151	0.011 9929	9.855 3987	73	791	
		78		152			74		
.210	9.843 4136		9.988 0223		0.011 9777	9.855 3913		.790	
		78		152			74		
211	9.843 4214		9.988 0375		0.011 9625	9.855 3839		789	
212	9.843 4292	78	9.988 0526	151	0.011 9474	9.855 3765	74	788	
213	9.843 4369	77	9.988 0678	152	0.011 9322	9.855 3692	73	787	
		78		152			74		
214	9.843 4447		9.988 0830		0.011 9170	9.855 3618		786	
215	9.843 4525	78	9.988 0981	151	0.011 9019	9.855 3544	74	785	
216	9.843 4603	78	9.988 1133	152	0.011 8867	9.855 3470	74	784	
		78		151			73		
217	9.843 4681		9.988 1284		0.011 8716	9.855 3397		783	
218	9.843 4759	78	9.988 1436	152	0.011 8564	9.855 3323	74	782	
219	9.843 4837	78	9.988 1588	152	0.011 8412	9.855 3249	74	781	
		78		151			74		
.220	9.843 4915		9.988 1739		0.011 8261	9.855 3175		.780	
		78		152			73		
221	9.843 4993		9.988 1891		0.011 8109	9.855 3102		779	
222	9.843 5071	78	9.988 2043	152	0.011 7957	9.855 3028	74	778	
223	9.843 5148	77	9.988 2194	151	0.011 7806	9.855 2954	74	777	
		78		152			74		
224	9.843 5226		9.988 2346		0.011 7654	9.855 2880		776	
225	9.843 5304	78	9.988 2498	152	0.011 7502	9.855 2806	74	775	
226	9.843 5382	78	9.988 2649	151	0.011 7351	9.855 2733	73	774	
		78		152			74		
227	9.843 5460		9.988 2801		0.011 7199	9.855 2659		773	
228	9.843 5538	78	9.988 2953	152	0.011 7047	9.855 2585	74	772	
229	9.843 5616	78	9.988 3104	151	0.011 6896	9.855 2511	74	771	
		78		152			73		
.230	9.843 5694		9.988 3256		0.011 6744	9.855 2438		.770	
		77		152			74		
231	9.843 5771		9.988 3408		0.011 6592	9.855 2364		769	
232	9.843 5849	78	9.988 3559	151	0.011 6441	9.855 2290	74	768	
233	9.843 5927	78	9.988 3711	152	0.011 6289	9.855 2216	74	767	
		78		152			74		
234	9.843 6005		9.988 3863		0.011 6137	9.855 2142		766	
235	9.843 6083	78	9.988 4014	151	0.011 5986	9.855 2069	73	765	
236	9.843 6161	78	9.988 4166	152	0.011 5834	9.855 1995	74	764	
		78		152			74		
237	9.843 6239		9.988 4318		0.011 5682	9.855 1921		763	
238	9.843 6316	77	9.988 4469	151	0.011 5531	9.855 1847	74	762	
239	9.843 6394	78	9.988 4621	152	0.011 5379	9.855 1773	74	761	
		78		151			73		
.240	9.843 6472		9.988 4772		0.011 5228	9.855 1700		.760	
		78		152			74		
241	9.843 6550		9.988 4924		0.011 5076	9.855 1626		759	
242	9.843 6628	78	9.988 5076	152	0.011 4924	9.855 1552	74	758	
243	9.843 6706	78	9.988 5227	151	0.011 4773	9.855 1478	74	757	
		77		152			74		
244	9.843 6783		9.988 5379		0.011 4621	9.855 1404		756	
245	9.843 6861	78	9.988 5531	152	0.011 4469	9.855 1330	74	755	
246	9.843 6939	78	9.988 5682	151	0.011 4318	9.855 1257	73	754	
		78		152			74		
247	9.843 7017		9.988 5834		0.011 4166	9.855 1183		753	
248	9.843 7095	78	9.988 5986	152	0.011 4014	9.855 1109	74	752	
249	9.843 7172	77	9.988 6137	151	0.011 3863	9.855 1035	74	751	
		78		152			74		
.250	9.843 7250		9.988 6289		0.011 3711	9.855 0961		.750	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	78	77
1	7.8	7.7
2	15.6	15.4
3	23.4	23.1
4	31.2	30.8
5	39.0	38.5
6	46.8	46.2
7	54.6	53.9
8	62.4	61.6
9	70.2	69.3

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

45°.800 — 45°.750

44°.250 — 44°.300

44°	sin	d	tang	d	cotg	cos	d		P.P.
.250	9.843 7250		9.988 6289		0.011 3711	9.855 0961		.750	
		78		152			74		
251	9.843 7328		9.988 6441		0.011 3559	9.855 0887		749	
252	9.843 7406	78	9.988 6592	151	0.011 3408	9.855 0814	73	748	
253	9.843 7484	78	9.988 6744	152	0.011 3256	9.855 0740	74	747	
		77		152			74		
254	9.843 7561		9.988 6896		0.011 3104	9.855 0666		746	
255	9.843 7639	78	9.988 7047	151	0.011 2953	9.855 0592	74	745	
256	9.843 7717	78	9.988 7199	152	0.011 2801	9.855 0518	74	744	
		78		152			74		
257	9.843 7795		9.988 7351		0.011 2649	9.855 0444		743	
258	9.843 7873	78	9.988 7502	151	0.011 2498	9.855 0370	74	742	
259	9.843 7950	77	9.988 7654	152	0.011 2346	9.855 0297	73	741	
		78		151			74		
.260	9.843 8028		9.988 7805		0.011 2195	9.855 0223		.740	
		78		152			74		
261	9.843 8106		9.988 7957		0.011 2043	9.855 0149		739	
262	9.843 8184	78	9.988 8109	152	0.011 1891	9.855 0075	74	738	
263	9.843 8262	78	9.988 8260	151	0.011 1740	9.855 0001	74	737	
		77		152			74		
264	9.843 8339		9.988 8412		0.011 1588	9.854 9927		736	
265	9.843 8417	78	9.988 8564	152	0.011 1436	9.854 9853	74	735	
266	9.843 8495	78	9.988 8715	151	0.011 1285	9.854 9780	73	734	
		78		152			74		
267	9.843 8573		9.988 8867		0.011 1133	9.854 9706		733	
268	9.843 8650	77	9.988 9019	152	0.011 0981	9.854 9632	74	732	
269	9.843 8728	78	9.988 9170	151	0.011 0830	9.854 9558	74	731	
		78		152			74		
.270	9.843 8806		9.988 9322		0.011 0678	9.854 9484		.730	
		78		152			74		
271	9.843 8884		9.988 9474		0.011 0526	9.854 9410		729	
272	9.843 8961	77	9.988 9625	151	0.011 0375	9.854 9336	74	728	
273	9.843 9039	78	9.988 9777	152	0.011 0223	9.854 9262	74	727	
		78		152			74		
274	9.843 9117		9.988 9929		0.011 0071	9.854 9188		726	
275	9.843 9195	78	9.989 0080	151	0.010 9920	9.854 9114	74	725	
276	9.843 9272	77	9.989 0232	152	0.010 9768	9.854 9041	73	724	
		78		151			74		
277	9.843 9350		9.989 0383		0.010 9617	9.854 8967		723	
278	9.843 9428	78	9.989 0535	152	0.010 9465	9.854 8893	74	722	
279	9.843 9506	78	9.989 0687	152	0.010 9313	9.854 8819	74	721	
		77		151			74		
.280	9.843 9583		9.989 0838		0.010 9162	9.854 8745		.720	
		78		152			74		
281	9.843 9661		9.989 0990		0.010 9010	9.854 8671		719	
282	9.843 9739	78	9.989 1142	152	0.010 8858	9.854 8597	74	718	
283	9.843 9817	78	9.989 1293	151	0.010 8707	9.854 8523	74	717	
		77		152			74		
284	9.843 9894		9.989 1445		0.010 8555	9.854 8449		716	
285	9.843 9972	78	9.989 1597	152	0.010 8403	9.854 8375	74	715	
286	9.844 0050	78	9.989 1748	151	0.010 8252	9.854 8301	74	714	
		77		152			74		
287	9.844 0127		9.989 1900		0.010 8100	9.854 8227		713	
288	9.844 0205	78	9.989 2052	152	0.010 7948	9.854 8154	73	712	
289	9.844 0283	78	9.989 2203	151	0.010 7797	9.854 8080	74	711	
		77		152			74		
.290	9.844 0360		9.989 2355		0.010 7645	9.854 8006		.710	
		78		151			74		
291	9.844 0438		9.989 2506		0.010 7494	9.854 7932		709	
292	9.844 0516	78	9.989 2658	152	0.010 7342	9.854 7858	74	708	
293	9.844 0594	78	9.989 2810	152	0.010 7190	9.854 7784	74	707	
		77		151			74		
294	9.844 0671		9.989 2961		0.010 7039	9.854 7710		706	
295	9.844 0749	78	9.989 3113	152	0.010 6887	9.854 7636	74	705	
296	9.844 0827	78	9.989 3265	152	0.010 6735	9.854 7562	74	704	
		77		151			74		
297	9.844 0904		9.989 3416		0.010 6584	9.854 7488		703	
298	9.844 0982	78	9.989 3568	152	0.010 6432	9.854 7414	74	702	
299	9.844 1060	78	9.989 3720	152	0.010 6280	9.854 7340	74	701	
		77		151			74		
.300	9.844 1137		9.989 3871		0.010 6129	9.854 7266		.700	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	78	77
1	7.8	7.7
2	15.6	15.4
3	23.4	23.1
4	31.2	30.8
5	39.0	38.5
6	46.8	46.2
7	54.6	53.9
8	62.4	61.6
9	70.2	69.3

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

	73
1	7.3
2	14.6
3	21.9
4	29.2
5	36.5
6	43.8
7	51.1
8	58.4
9	65.7

45°.750 — 45°.700

44°.300 — 44°.350

44°	sin	d	tang	d	cotg	cos	d		P.P.
.300	9.844 1137		9.989 3871		0.010 6129	9.854 7266		.700	
		78		152			74		
301	9.844 1215		9.989 4023		0.010 5977	9.854 7192		699	
302	9.844 1293	78	9.989 4175	152	0.010 5825	9.854 7118	74	698	
303	9.844 1370	77	9.989 4326	151	0.010 5674	9.854 7044	74	697	
		78		152			74		
304	9.844 1448		9.989 4478		0.010 5522	9.854 6970		696	
305	9.844 1526	78	9.989 4629	151	0.010 5371	9.854 6896	74	695	
306	9.844 1603	77	9.989 4781	152	0.010 5219	9.854 6822	74	694	
		78		152			74		
307	9.844 1681		9.989 4933		0.010 5067	9.854 6748		693	
308	9.844 1759	78	9.989 5084	151	0.010 4916	9.854 6674	74	692	
309	9.844 1836	77	9.989 5236	152	0.010 4764	9.854 6600	74	691	
		78		152			74		
.310	9.844 1914		9.989 5388		0.010 4612	9.854 6526		.690	
		78		151			74		
311	9.844 1992		9.989 5539		0.010 4461	9.854 6452		689	
312	9.844 2069	77	9.989 5691	152	0.010 4309	9.854 6378	74	688	
313	9.844 2147	78	9.989 5843	152	0.010 4157	9.854 6304	74	687	
		78		151			74		
314	9.844 2225		9.989 5994		0.010 4006	9.854 6230		686	
315	9.844 2302	77	9.989 6146	152	0.010 3854	9.854 6156	74	685	
316	9.844 2380	78	9.989 6298	152	0.010 3702	9.854 6082	74	684	
		77		151			74		
317	9.844 2457		9.989 6449		0.010 3551	9.854 6008		683	
318	9.844 2535	78	9.989 6601	152	0.010 3399	9.854 5934	74	682	
319	9.844 2613	78	9.989 6752	151	0.010 3248	9.854 5860	74	681	
		77		152			74		
.320	9.844 2690		9.989 6904		0.010 3096	9.854 5786		.680	
		78		152			74		
321	9.844 2768		9.989 7056		0.010 2944	9.854 5712		679	
322	9.844 2846	78	9.989 7207	151	0.010 2793	9.854 5638	74	678	
323	9.844 2923	77	9.989 7359	152	0.010 2641	9.854 5564	74	677	
		78		152			74		
324	9.844 3001		9.989 7511		0.010 2489	9.854 5490		676	
325	9.844 3078	77	9.989 7662	151	0.010 2338	9.854 5416	74	675	
326	9.844 3156	78	9.989 7814	152	0.010 2186	9.854 5342	74	674	
		78		152			74		
327	9.844 3234		9.989 7966		0.010 2034	9.854 5268		673	
328	9.844 3311	77	9.989 8117	151	0.010 1883	9.854 5194	74	672	
329	9.844 3389	78	9.989 8269	152	0.010 1731	9.854 5120	74	671	
		77		151			74		
.330	9.844 3466		9.989 8420		0.010 1580	9.854 5046		.670	
		78		152			74		
331	9.844 3544		9.989 8572		0.010 1428	9.854 4972		669	
332	9.844 3622	78	9.989 8724	152	0.010 1276	9.854 4898	74	668	
333	9.844 3699	77	9.989 8875	151	0.010 1125	9.854 4824	74	667	
		78		152			74		
334	9.844 3777		9.989 9027		0.010 0973	9.854 4750		666	
335	9.844 3854	77	9.989 9179	152	0.010 0821	9.854 4676	74	665	
336	9.844 3932	78	9.989 9330	151	0.010 0670	9.854 4602	74	664	
		77		152			75		
337	9.844 4009		9.989 9482		0.010 0518	9.854 4527		663	
338	9.844 4087	78	9.989 9634	152	0.010 0366	9.854 4453	74	662	
339	9.844 4165	78	9.989 9785	151	0.010 0215	9.854 4379	74	661	
		77		152			74		
.340	9.844 4242		9.989 9937		0.010 0063	9.854 4305		.660	
		78		152			74		
341	9.844 4320		9.990 0089		0.009 9911	9.854 4231		659	
342	9.844 4397	77	9.990 0240	151	0.009 9760	9.854 4157	74	658	
343	9.844 4475	78	9.990 0392	152	0.009 9608	9.854 4083	74	657	
		77		151			74		
344	9.844 4552		9.990 0543		0.009 9457	9.854 4009		656	
345	9.844 4630	78	9.990 0695	152	0.009 9305	9.854 3935	74	655	
346	9.844 4707	77	9.990 0847	152	0.009 9153	9.854 3861	74	654	
		78		151			74		
347	9.844 4785		9.990 0998		0.009 9002	9.854 3787		653	
348	9.844 4863	78	9.990 1150	152	0.009 8850	9.854 3713	74	652	
349	9.844 4940	77	9.990 1302	152	0.009 8698	9.854 3639	74	651	
		78		151			75		
.350	9.844 5018		9.990 1453		0.009 8547	9.854 3564		.650	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	78	77
1	7.8	7.7
2	15.6	15.4
3	23.4	23.1
4	31.2	30.8
5	39.0	38.5
6	46.8	46.2
7	54.6	53.9
8	62.4	61.6
9	70.2	69.3

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

45°.700 — 45°.650

44°.350 — 44°.400

44°	sin	d	tang	d	cotg	cos	d		P.P.
.350	9.844 5018		9.990 1453		0.009 8547	9.854 3564		.650	
		77		152			74		
351	9.844 5095		9.990 1605		0.009 8395	9.854 3490		649	
352	9.844 5173	78	9.990 1757	152	0.009 8243	9.854 3416	74	648	
353	9.844 5250	77	9.990 1908	151	0.009 8092	9.854 3342	74	647	
		78		152			74		
354	9.844 5328		9.990 2060		0.009 7940	9.854 3268		646	
355	9.844 5405	77	9.990 2211	151	0.009 7789	9.854 3194	74	645	
356	9.844 5483	78	9.990 2363	152	0.009 7637	9.854 3120	74	644	
		77		152			74		
357	9.844 5560		9.990 2515		0.009 7485	9.854 3046		643	
358	9.844 5638	78	9.990 2666	151	0.009 7334	9.854 2972	74	642	
359	9.844 5715	77	9.990 2818	152	0.009 7182	9.854 2897	75	641	
		78		152			74		
.360	9.844 5793		9.990 2970		0.009 7030	9.854 2823		.640	
		77		151			74		
361	9.844 5870		9.990 3121		0.009 6879	9.854 2749		639	
362	9.844 5948	78	9.990 3273	152	0.009 6727	9.854 2675	74	638	
363	9.844 6025	77	9.990 3425	152	0.009 6575	9.854 2601	74	637	
		78		151			74		
364	9.844 6103		9.990 3576		0.009 6424	9.854 2527		636	
365	9.844 6180	77	9.990 3728	152	0.009 6272	9.854 2453	74	635	
366	9.844 6258	78	9.990 3879	151	0.009 6121	9.854 2379	74	634	
		77		152			75		
367	9.844 6335		9.990 4031		0.009 5969	9.854 2304		633	
368	9.844 6413	78	9.990 4183	152	0.009 5817	9.854 2230	74	632	
369	9.844 6490	77	9.990 4334	151	0.009 5666	9.854 2156	74	631	
		78		152			74		
.370	9.844 6568		9.990 4486		0.009 5514	9.854 2082		.630	
		77		152			74		
371	9.844 6645		9.990 4638		0.009 5362	9.854 2008		629	
372	9.844 6723	78	9.990 4789	151	0.009 5211	9.854 1934	74	628	
373	9.844 6800	77	9.990 4941	152	0.009 5059	9.854 1859	75	627	
		78		151			74		
374	9.844 6878		9.990 5092		0.009 4908	9.854 1785		626	
375	9.844 6955	77	9.990 5244	152	0.009 4756	9.854 1711	74	625	
376	9.844 7033	78	9.990 5396	152	0.009 4604	9.854 1637	74	624	
		77		151			74		
377	9.844 7110		9.990 5547		0.009 4453	9.854 1563		623	
378	9.844 7188	78	9.990 5699	152	0.009 4301	9.854 1489	74	622	
379	9.844 7265	77	9.990 5851	152	0.009 4149	9.854 1414	75	621	
		78		151			74		
.380	9.844 7343		9.990 6002		0.009 3998	9.854 1340		.620	
		77		152			74		
381	9.844 7420		9.990 6154		0.009 3846	9.854 1266		619	
382	9.844 7497	77	9.990 6306	152	0.009 3694	9.854 1192	74	618	
383	9.844 7575	78	9.990 6457	151	0.009 3543	9.854 1118	74	617	
		77		152			74		
384	9.844 7652		9.990 6609		0.009 3391	9.854 1044		616	
385	9.844 7730	78	9.990 6760	151	0.009 3240	9.854 0969	75	615	
386	9.844 7807	77	9.990 6912	152	0.009 3088	9.854 0895	74	614	
		78		152			74		
387	9.844 7885		9.990 7064		0.009 2936	9.854 0821		613	
388	9.844 7962	77	9.990 7215	151	0.009 2785	9.854 0747	74	612	
389	9.844 8040	78	9.990 7367	152	0.009 2633	9.854 0673	74	611	
		77		152			75		
.390	9.844 8117		9.990 7519		0.009 2481	9.854 0598		.610	
		77		151			74		
391	9.844 8194		9.990 7670		0.009 2330	9.854 0524		609	
392	9.844 8272	78	9.990 7822	152	0.009 2178	9.854 0450	74	608	
393	9.844 8349	77	9.990 7974	152	0.009 2026	9.854 0376	74	607	
		78		151			74		
394	9.844 8427		9.990 8125		0.009 1875	9.854 0302		606	
395	9.844 8504	77	9.990 8277	152	0.009 1723	9.854 0227	75	605	
396	9.844 8582	78	9.990 8428	151	0.009 1572	9.854 0153	74	604	
		77		152			74		
397	9.844 8659		9.990 8580		0.009 1420	9.854 0079		603	
398	9.844 8736	77	9.990 8732	152	0.009 1268	9.854 0005	74	602	
399	9.844 8814	78	9.990 8883	151	0.009 1117	9.853 9930	75	601	
		77		152			74		
.400	9.844 8891		9.990 9035		0.009 0965	9.853 9856		.600	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	78	77
1	7.8	7.7
2	15.6	15.4
3	23.4	23.1
4	31.2	30.8
5	39.0	38.5
6	46.8	46.2
7	54.6	53.9
8	62.4	61.6
9	70.2	69.3

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

45°.650 — 45°.600

44°.400 — 44°.450

44°	sin	d	tang	d	cotg	cos	d		P.P.
.400	9.844 8891		9.990 9035		0.009 0965	9.853 9856		.600	
		78		152			74		
401	9.844 8969		9.990 9187		0.009 0813	9.853 9782		599	
402	9.844 9046	77	9.990 9338	151	0.009 0662	9.853 9708	74	598	
403	9.844 9123	77	9.990 9490	152	0.009 0510	9.853 9634	74	597	
		78		151			75		
404	9.844 9201		9.990 9641		0.009 0359	9.853 9559		596	
405	9.844 9278	77	9.990 9793	152	0.009 0207	9.853 9485	74	595	
406	9.844 9356	78	9.990 9945	152	0.009 0055	9.853 9411	74	594	
		77		151			74		
407	9.844 9433		9.991 0096		0.008 9904	9.853 9337		593	
408	9.844 9510	77	9.991 0248	152	0.008 9752	9.853 9262	75	592	
409	9.844 9588	78	9.991 0400	152	0.008 9600	9.853 9188	74	591	
		77		151			74		
.410	9.844 9665		9.991 0551		0.008 9449	9.853 9114		.590	
		77		152			74		
411	9.844 9742		9.991 0703		0.008 9297	9.853 9040		589	
412	9.844 9820	78	9.991 0854	151	0.008 9146	9.853 8965	75	588	
413	9.844 9897	77	9.991 1006	152	0.008 8994	9.853 8891	74	587	
		78		152			74		
414	9.844 9975		9.991 1158		0.008 8842	9.853 8817		586	
415	9.845 0052	77	9.991 1309	151	0.008 8691	9.853 8743	74	585	
416	9.845 0129	77	9.991 1461	152	0.008 8539	9.853 8668	75	584	
		78		152			74		
417	9.845 0207		9.991 1613		0.008 8387	9.853 8594		583	
418	9.845 0284	77	9.991 1764	151	0.008 8236	9.853 8520	74	582	
419	9.845 0361	77	9.991 1916	152	0.008 8084	9.853 8445	75	581	
		78		152			74		
.420	9.845 0439		9.991 2068		0.008 7932	9.853 8371		.580	
		77		151			74		
421	9.845 0516		9.991 2219		0.008 7781	9.853 8297		579	
422	9.845 0593	77	9.991 2371	152	0.008 7629	9.853 8223	74	578	
423	9.845 0671	78	9.991 2522	151	0.008 7478	9.853 8148	75	577	
		77		152			74		
424	9.845 0748		9.991 2674		0.008 7326	9.853 8074		576	
425	9.845 0825	77	9.991 2826	152	0.008 7174	9.853 8000	74	575	
426	9.845 0903	78	9.991 2977	151	0.008 7023	9.853 7925	75	574	
		77		152			74		
427	9.845 0980		9.991 3129		0.008 6871	9.853 7851		573	
428	9.845 1057	77	9.991 3281	152	0.008 6719	9.853 7777	74	572	
429	9.845 1135	78	9.991 3432	151	0.008 6568	9.853 7703	74	571	
		77		152			75		
.430	9.845 1212		9.991 3584		0.008 6416	9.853 7628		.570	
		77		151			74		
431	9.845 1289		9.991 3735		0.008 6265	9.853 7554		569	
432	9.845 1367	78	9.991 3887	152	0.008 6113	9.853 7480	74	568	
433	9.845 1444	77	9.991 4039	152	0.008 5961	9.853 7405	75	567	
		77		151			74		
434	9.845 1521		9.991 4190		0.008 5810	9.853 7331		566	
435	9.845 1599	78	9.991 4342	152	0.008 5658	9.853 7257	74	565	
436	9.845 1676	77	9.991 4494	152	0.008 5506	9.853 7182	75	564	
		77		151			74		
437	9.845 1753		9.991 4645		0.008 5355	9.853 7108		563	
438	9.845 1831	78	9.991 4797	152	0.008 5203	9.853 7034	74	562	
439	9.845 1908	77	9.991 4948	151	0.008 5052	9.853 6959	75	561	
		77		152			74		
.440	9.845 1985		9.991 5100		0.008 4900	9.853 6885		.560	
		77		152			74		
441	9.845 2062		9.991 5252		0.008 4748	9.853 6811		559	
442	9.845 2140	78	9.991 5403	151	0.008 4597	9.853 6736	75	558	
443	9.845 2217	77	9.991 5555	152	0.008 4445	9.853 6662	74	557	
		77		152			74		
444	9.845 2294		9.991 5707		0.008 4293	9.853 6588		556	
445	9.845 2372	78	9.991 5858	151	0.008 4142	9.853 6513	75	555	
446	9.845 2449	77	9.991 6010	152	0.008 3990	9.853 6439	74	554	
		77		151			74		
447	9.845 2526		9.991 6161		0.008 3839	9.853 6365		553	
448	9.845 2603	77	9.991 6313	152	0.008 3687	9.853 6290	75	552	
449	9.845 2681	78	9.991 6465	152	0.008 3535	9.853 6216	74	551	
		77		151			74		
.450	9.845 2758		9.991 6616		0.008 3384	9.853 6142		.550	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	78	77
1	7.8	7.7
2	15.6	15.4
3	23.4	23.1
4	31.2	30.8
5	39.0	38.5
6	46.8	46.2
7	54.6	53.9
8	62.4	61.6
9	70.2	69.3

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

45°.600 — 45°.550

$44^\circ.450 - 44^\circ.500$

44°	sin	d	tang	d	cotg	cos	d		P.P.
·450	9.845 2758		9.991 6616		0.008 3384	9.853 6142		·550	
		77		152			75		
451	9.845 2835		9.991 6768		0.008 3232	9.853 6067		549	
452	9.845 2913	78	9.991 6920	152	0.008 3080	9.853 5993	74	548	
453	9.845 2990	77	9.991 7071	151	0.008 2929	9.853 5919	74	547	
		77		152			75		
454	9.845 3067		9.991 7223		0.008 2777	9.853 5844		546	
455	9.845 3144	77	9.991 7374	151	0.008 2626	9.853 5770	74	545	
456	9.845 3222	78	9.991 7526	152	0.008 2474	9.853 5695	75	544	
		77		152			74		
457	9.845 3299		9.991 7678		0.008 2322	9.853 5621		543	
458	9.845 3376	77	9.991 7829	151	0.008 2171	9.853 5547	74	542	
459	9.845 3453	77	9.991 7981	152	0.008 2019	9.853 5472	75	541	
		78		152			74		
·460	9.845 3531		9.991 8133		0.008 1867	9.853 5398		·540	
		77		151			74		
461	9.845 3608		9.991 8284		0.008 1716	9.853 5324		539	
462	9.845 3685	77	9.991 8436	152	0.008 1564	9.853 5249	75	538	
463	9.845 3762	77	9.991 8587	151	0.008 1413	9.853 5175	74	537	
		77		152			75		
464	9.845 3839		9.991 8739		0.008 1261	9.853 5100		536	
465	9.845 3917	78	9.991 8891	152	0.008 1109	9.853 5026	74	535	
466	9.845 3994	77	9.991 9042	151	0.008 0958	9.853 4952	74	534	
		77		152			75		
467	9.845 4071		9.991 9194		0.008 0806	9.853 4877		533	
468	9.845 4148	77	9.991 9346	152	0.008 0654	9.853 4803	74	532	
469	9.845 4226	78	9.991 9497	151	0.008 0503	9.853 4728	75	531	
		77		152			74		
·470	9.845 4303		9.991 9649		0.008 0351	9.853 4654		·530	
		77		151			74		
471	9.845 4380		9.991 9800		0.008 0200	9.853 4580		529	
472	9.845 4457	77	9.991 9952	152	0.008 0048	9.853 4505	75	528	
473	9.845 4534	77	9.992 0104	152	0.007 9896	9.853 4431	74	527	
		78		151			75		
474	9.845 4612		9.992 0255		0.007 9745	9.853 4356		526	
475	9.845 4689	77	9.992 0407	152	0.007 9593	9.853 4282	74	525	
476	9.845 4766	77	9.992 0559	152	0.007 9441	9.853 4207	75	524	
		77		151			74		
477	9.845 4843		9.992 0710		0.007 9290	9.853 4133		523	
478	9.845 4920	77	9.992 0862	152	0.007 9138	9.853 4059	74	522	
479	9.845 4998	78	9.992 1013	151	0.007 8987	9.853 3984	75	521	
		77		152			74		
·480	9.845 5075		9.992 1165		0.007 8835	9.853 3910		·520	
		77		152			75		
481	9.845 5152		9.992 1317		0.007 8683	9.853 3835		519	
482	9.845 5229	77	9.992 1468	151	0.007 8532	9.853 3761	74	518	
483	9.845 5306	77	9.992 1620	152	0.007 8380	9.853 3686	75	517	
		78		152			74		
484	9.845 5384		9.992 1772		0.007 8228	9.853 3612		516	
485	9.845 5461	77	9.992 1923	151	0.007 8077	9.853 3538	74	515	
486	9.845 5538	77	9.992 2075	152	0.007 7925	9.853 3463	75	514	
		77		151			74		
487	9.845 5615		9.992 2226		0.007 7774	9.853 3389		513	
488	9.845 5692	77	9.992 2378	152	0.007 7622	9.853 3314	75	512	
489	9.845 5769	77	9.992 2530	152	0.007 7470	9.853 3240	74	511	
		78		151			75		
·490	9.845 5847		9.992 2681		0.007 7319	9.853 3165		·510	
		77		152			74		
491	9.845 5924		9.992 2833		0.007 7167	9.853 3091		509	
492	9.845 6001	77	9.992 2984	151	0.007 7016	9.853 3016	75	508	
493	9.845 6078	77	9.992 3136	152	0.007 6864	9.853 2942	74	507	
		77		152			75		
494	9.845 6155		9.992 3288		0.007 6712	9.853 2867		506	
495	9.845 6232	77	9.992 3439	151	0.007 6561	9.853 2793	74	505	
496	9.845 6309	77	9.992 3591	152	0.007 6409	9.853 2718	75	504	
		78		152			74		
497	9.845 6387		9.992 3743		0.007 6257	9.853 2644		503	
498	9.845 6464	77	9.992 3894	151	0.007 6106	9.853 2570	74	502	
499	9.845 6541	77	9.992 4046	152	0.007 5954	9.853 2495	75	501	
		77		151			74		
·500	9.845 6618		9.992 4197		0.007 5803	9.853 2421		·500	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	78	77
1	7.8	7.7
2	15.6	15.4
3	23.4	23.1
4	31.2	30.8
5	39.0	38.5
6	46.8	46.2
7	54.6	53.9
8	62.4	61.6
9	70.2	69.3

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

$45^\circ.550 - 45^\circ.500$

44°.500 — 44°.550

44°	sin	d	tang	d	cotg	cos	d		P.P.
.500	9.845 6618		9.992 4197		0.007 5803	9.853 2421		.500	
		77		152			75		
501	9.845 6695		9.992 4349		0.007 5651	9.853 2346		499	
502	9.845 6772	77	9.992 4501	152	0.007 5499	9.853 2272	74	498	
503	9.845 6849	77	9.992 4652	151	0.007 5348	9.853 2197	75	497	
		78		152			74		
504	9.845 6927		9.992 4804		0.007 5196	9.853 2123		496	
505	9.845 7004	77	9.992 4956	152	0.007 5044	9.853 2048	75	495	
506	9.845 7081	77	9.992 5107	151	0.007 4893	9.853 1974	74	494	
		77		152			75		
507	9.845 7158		9.992 5259		0.007 4741	9.853 1899		493	
508	9.845 7235	77	9.992 5410	151	0.007 4590	9.853 1825	74	492	
509	9.845 7312	77	9.992 5562	152	0.007 4438	9.853 1750	75	491	
		77		152			74		
.510	9.845 7389		9.992 5714		0.007 4286	9.853 1676		.490	
		77		151			75		
511	9.845 7466		9.992 5865		0.007 4135	9.853 1601		489	
512	9.845 7543	77	9.992 6017	152	0.007 3983	9.853 1527	74	488	
513	9.845 7621	78	9.992 6169	152	0.007 3831	9.853 1452	75	487	
		77		151			75		
514	9.845 7698		9.992 6320		0.007 3680	9.853 1377		486	
515	9.845 7775	77	9.992 6472	152	0.007 3528	9.853 1303	74	485	
516	9.845 7852	77	9.992 6623	151	0.007 3377	9.853 1228	75	484	
		77		152			74		
517	9.845 7929		9.992 6775		0.007 3225	9.853 1154		483	
518	9.845 8006	77	9.992 6927	152	0.007 3073	9.853 1079	75	482	
519	9.845 8083	77	9.992 7078	151	0.007 2922	9.853 1005	74	481	
		77		152			75		
.520	9.845 8160		9.992 7230		0.007 2770	9.853 0930		.480	
		77		151			74		
521	9.845 8237		9.992 7381		0.007 2619	9.853 0856		479	
522	9.845 8314	77	9.992 7533	152	0.007 2467	9.853 0781	75	478	
523	9.845 8391	77	9.992 7685	152	0.007 2315	9.853 0707	74	477	
		77		151			75		
524	9.845 8468		9.992 7836		0.007 2164	9.853 0632		476	
525	9.845 8545	77	9.992 7988	152	0.007 2012	9.853 0558	74	475	
526	9.845 8623	78	9.992 8140	152	0.007 1860	9.853 0483	75	474	
		77		151			75		
527	9.845 8700		9.992 8291		0.007 1709	9.853 0408		473	
528	9.845 8777	77	9.992 8443	152	0.007 1557	9.853 0334	74	472	
529	9.845 8854	77	9.992 8594	151	0.007 1406	9.853 0259	75	471	
		77		152			74		
.530	9.845 8931		9.992 8746		0.007 1254	9.853 0185		.470	
		77		152			75		
531	9.845 9008		9.992 8898		0.007 1102	9.853 0110		469	
532	9.845 9085	77	9.992 9049	151	0.007 0951	9.853 0036	74	468	
533	9.845 9162	77	9.992 9201	152	0.007 0799	9.852 9961	75	467	
		77		152			75		
534	9.845 9239		9.992 9353		0.007 0647	9.852 9886		466	
535	9.845 9316	77	9.992 9504	151	0.007 0496	9.852 9812	74	465	
536	9.845 9393	77	9.992 9656	152	0.007 0344	9.852 9737	75	464	
		77		151			74		
537	9.845 9470		9.992 9807		0.007 0193	9.852 9663		463	
538	9.845 9547	77	9.992 9959	152	0.007 0041	9.852 9588	75	462	
539	9.845 9624	77	9.993 0111	152	0.006 9889	9.852 9514	74	461	
		77		151			75		
.540	9.845 9701		9.993 0262		0.006 9738	9.852 9439		.460	
		77		152			75		
541	9.845 9778		9.993 0414		0.006 9586	9.852 9364		459	
542	9.845 9855	77	9.993 0565	151	0.006 9435	9.852 9290	74	458	
543	9.845 9932	77	9.993 0717	152	0.006 9283	9.852 9215	75	457	
		77		152			74		
544	9.846 0009		9.993 0869		0.006 9131	9.852 9141		456	
545	9.846 0086	77	9.993 1020	151	0.006 8980	9.852 9066	75	455	
546	9.846 0163	77	9.993 1172	152	0.006 8828	9.852 8991	75	454	
		77		152			74		
547	9.846 0240		9.993 1324		0.006 8676	9.852 8917		453	
548	9.846 0317	77	9.993 1475	151	0.006 8525	9.852 8842	75	452	
549	9.846 0394	77	9.993 1627	152	0.006 8373	9.852 8768	74	451	
		77		151			75		
.550	9.846 0471		9.993 1778		0.006 8222	9.852 8693		.450	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	78	77
1	7.8	7.7
2	15.6	15.4
3	23.4	23.1
4	31.2	30.8
5	39.0	38.5
6	46.8	46.2
7	54.6	53.9
8	62.4	61.6
9	70.2	69.3

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

45°.500 — 45°.450

44°.550 — 44°.600

44°	sin	d	tang	d	cotg	cos	d		P.P.
.550	9.846 0471		9.993 1778		0.006 8222	9.852 8693		.450	
		77		152			75		
551	9.846 0548		9.993 1930		0.006 8070	9.852 8618		449	
552	9.846 0625	77	9.993 2082	152	0.006 7918	9.852 8544	74	448	
553	9.846 0702	77	9.993 2233	151	0.006 7767	9.852 8469	75	447	
		77		152			75		
554	9.846 0779		9.993 2385		0.006 7615	9.852 8394		446	
555	9.846 0856	77	9.993 2536	151	0.006 7464	9.852 8320	74	445	
556	9.846 0933	77	9.993 2688	152	0.006 7312	9.852 8245	75	444	
		77		152			74		
557	9.846 1010		9.993 2840		0.006 7160	9.852 8171		443	
558	9.846 1087	77	9.993 2991	151	0.006 7009	9.852 8096	75	442	
559	9.846 1164	77	9.993 3143	152	0.006 6857	9.852 8021	75	441	
		77		152			74		
.560	9.846 1241		9.993 3295		0.006 6705	9.852 7947		.440	
		77		151			75		
561	9.846 1318		9.993 3446		0.006 6554	9.852 7872		439	
562	9.846 1395	77	9.993 3598	152	0.006 6402	9.852 7797	75	438	
563	9.846 1472	77	9.993 3749	151	0.006 6251	9.852 7723	74	437	
		77		152			75		
564	9.846 1549		9.993 3901		0.006 6099	9.852 7648		436	
565	9.846 1626	77	9.993 4053	152	0.006 5947	9.852 7573	75	435	
566	9.846 1703	77	9.993 4204	151	0.006 5796	9.852 7499	74	434	
		77		152			75		
567	9.846 1780		9.993 4356		0.006 5644	9.852 7424		433	
568	9.846 1857	77	9.993 4507	151	0.006 5493	9.852 7349	75	432	
569	9.846 1934	77	9.993 4659	152	0.006 5341	9.852 7275	74	431	
		77		152			75		
.570	9.846 2011		9.993 4811		0.006 5189	9.852 7200		.430	
		77		151			75		
571	9.846 2088		9.993 4962		0.006 5038	9.852 7125		429	
572	9.846 2165	77	9.993 5114	152	0.006 4886	9.852 7051	74	428	
573	9.846 2242	77	9.993 5266	152	0.006 4734	9.852 6976	75	427	
		77		151			75		
574	9.846 2319		9.993 5417		0.006 4583	9.852 6901		426	
575	9.846 2395	76	9.993 5569	152	0.006 4431	9.852 6827	74	425	
576	9.846 2472	77	9.993 5720	151	0.006 4280	9.852 6752	75	424	
		77		152			75		
577	9.846 2549		9.993 5872		0.006 4128	9.852 6677		423	
578	9.846 2626	77	9.993 6024	152	0.006 3976	9.852 6603	74	422	
579	9.846 2703	77	9.993 6175	151	0.006 3825	9.852 6528	75	421	
		77		152			75		
.580	9.846 2780		9.993 6327		0.006 3673	9.852 6453		.420	
		77		151			74		
581	9.846 2857		9.993 6478		0.006 3522	9.852 6379		419	
582	9.846 2934	77	9.993 6630	152	0.006 3370	9.852 6304	75	418	
583	9.846 3011	77	9.993 6782	152	0.006 3218	9.852 6229	75	417	
		77		151			75		
584	9.846 3088		9.993 6933		0.006 3067	9.852 6154		416	
585	9.846 3165	77	9.993 7085	152	0.006 2915	9.852 6080	74	415	
586	9.846 3242	77	9.993 7237	152	0.006 2763	9.852 6005	75	414	
		76		151			75		
587	9.846 3318		9.993 7388		0.006 2612	9.852 5930		413	
588	9.846 3395	77	9.993 7540	152	0.006 2460	9.852 5856	74	412	
589	9.846 3472	77	9.993 7691	151	0.006 2309	9.852 5781	75	411	
		77		152			75		
.590	9.846 3549		9.993 7843		0.006 2157	9.852 5706		.410	
		77		152			75		
591	9.846 3626		9.993 7995		0.006 2005	9.852 5631		409	
592	9.846 3703	77	9.993 8146	151	0.006 1854	9.852 5557	74	408	
593	9.846 3780	77	9.993 8298	152	0.006 1702	9.852 5482	75	407	
		77		151			75		
594	9.846 3857		9.993 8449		0.006 1551	9.852 5407		406	
595	9.846 3934	77	9.993 8601	152	0.006 1399	9.852 5333	74	405	
596	9.846 4010	76	9.993 8753	152	0.006 1247	9.852 5258	75	404	
		77		151			75		
597	9.846 4087		9.993 8904		0.006 1096	9.852 5183		403	
598	9.846 4164	77	9.993 9056	152	0.006 0944	9.852 5108	75	402	
599	9.846 4241	77	9.993 9207	151	0.006 0793	9.852 5034	74	401	
		77		152			75		
.600	9.846 4318		9.993 9359		0.006 0641	9.852 4959		.400	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	77	76
1	7.7	7.6
2	15.4	15.2
3	23.1	22.8
4	30.8	30.4
5	38.5	38.0
6	46.2	45.6
7	53.9	53.2
8	61.6	60.8
9	69.3	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

45°.450 — 45°.400

44°.600 — 44°.650

44°	sin	d	tang	d	cotg	cos	d		P.P.
.600	9.846 4318		9.993 9359		0.006 0641	9.852 4959		.400	
		77		152			75		
601	9.846 4395		9.993 9511		0.006 0489	9.852 4884		399	
602	9.846 4472	77	9.993 9662	151	0.006 0338	9.852 4809	75	398	
603	9.846 4548	76	9.993 9814	152	0.006 0186	9.852 4735	74	397	
		77		152			75		
604	9.846 4625		9.993 9966		0.006 0034	9.852 4660		396	
605	9.846 4702	77	9.994 0117	151	0.005 9883	9.852 4585	75	395	
606	9.846 4779	77	9.994 0269	152	0.005 9731	9.852 4510	75	394	
		77		151			74		
607	9.846 4856		9.994 0420		0.005 9580	9.852 4436		393	
608	9.846 4933	77	9.994 0572	152	0.005 9428	9.852 4361	75	392	
609	9.846 5010	77	9.994 0724	152	0.005 9276	9.852 4286	75	391	
		76		151			75		
.610	9.846 5086		9.994 0875		0.005 9125	9.852 4211		.390	
		77		152			75		
611	9.846 5163		9.994 1027		0.005 8973	9.852 4136		389	
612	9.846 5240	77	9.994 1178	151	0.005 8822	9.852 4062	74	388	
613	9.846 5317	77	9.994 1330	152	0.005 8670	9.852 3987	75	387	
		77		152			75		
614	9.846 5394		9.994 1482		0.005 8518	9.852 3912		386	
615	9.846 5471	77	9.994 1633	151	0.005 8367	9.852 3837	75	385	
616	9.846 5547	76	9.994 1785	152	0.005 8215	9.852 3763	74	384	
		77		151			75		
617	9.846 5624		9.994 1936		0.005 8064	9.852 3688		383	
618	9.846 5701	77	9.994 2088	152	0.005 7912	9.852 3613	75	382	
619	9.846 5778	77	9.994 2240	152	0.005 7760	9.852 3538	75	381	
		77		151			75		
.620	9.846 5855		9.994 2391		0.005 7609	9.852 3463		.380	
		76		152			74		
621	9.846 5931		9.994 2543		0.005 7457	9.852 3389		379	
622	9.846 6008	77	9.994 2695	152	0.005 7305	9.852 3314	75	378	
623	9.846 6085	77	9.994 2846	151	0.005 7154	9.852 3239	75	377	
		77		152			75		
624	9.846 6162		9.994 2998		0.005 7002	9.852 3164		376	
625	9.846 6239	77	9.994 3149	151	0.005 6851	9.852 3089	75	375	
626	9.846 6315	76	9.994 3301	152	0.005 6699	9.852 3014	75	374	
		77		152			74		
627	9.846 6392		9.994 3453		0.005 6547	9.852 2940		373	
628	9.846 6469	77	9.994 3604	151	0.005 6396	9.852 2865	75	372	
629	9.846 6546	77	9.994 3756	152	0.005 6244	9.852 2790	75	371	
		77		151			75		
.630	9.846 6623		9.994 3907		0.005 6093	9.852 2715		.370	
		76		152			75		
631	9.846 6699		9.994 4059		0.005 5941	9.852 2640		369	
632	9.846 6776	77	9.994 4211	152	0.005 5789	9.852 2566	74	368	
633	9.846 6853	77	9.994 4362	151	0.005 5638	9.852 2491	75	367	
		77		152			75		
634	9.846 6930		9.994 4514		0.005 5486	9.852 2416		366	
635	9.846 7006	76	9.994 4665	151	0.005 5335	9.852 2341	75	365	
636	9.846 7083	77	9.994 4817	152	0.005 5183	9.852 2266	75	364	
		77		152			75		
637	9.846 7160		9.994 4969		0.005 5031	9.852 2191		363	
638	9.846 7237	77	9.994 5120	151	0.005 4880	9.852 2117	74	362	
639	9.846 7314	77	9.994 5272	152	0.005 4728	9.852 2042	75	361	
		76		152			75		
.640	9.846 7390		9.994 5424		0.005 4576	9.852 1967		.360	
		77		151			75		
641	9.846 7467		9.994 5575		0.005 4425	9.852 1892		359	
642	9.846 7544	77	9.994 5727	152	0.005 4273	9.852 1817	75	358	
643	9.846 7621	77	9.994 5878	151	0.005 4122	9.852 1742	75	357	
		76		152			75		
644	9.846 7697		9.994 6030		0.005 3970	9.852 1667		356	
645	9.846 7774	77	9.994 6182	152	0.005 3818	9.852 1593	74	355	
646	9.846 7851	77	9.994 6333	151	0.005 3667	9.852 1518	75	354	
		77		152			75		
647	9.846 7928		9.994 6485		0.005 3515	9.852 1443		353	
648	9.846 8004	76	9.994 6636	151	0.005 3364	9.852 1368	75	352	
649	9.846 8081	77	9.994 6788	152	0.005 3212	9.852 1293	75	351	
		77		152			75		
.650	9.846 8158		9.994 6940		0.005 3060	9.852 1218		.350	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	77	76
1	7.7	7.6
2	15.4	15.2
3	23.1	22.8
4	30.8	30.4
5	38.5	38.0
6	46.2	45.6
7	53.9	53.2
8	61.6	60.8
9	69.3	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

45°.400 — 45°.350

44°.650 — 44°.700

44°	sin	d	tang	d	cotg	cos	d		P.P.
.650	9.846 8158		9.994 6940		0.005 3060	9.852 1218		.350	
		76		151			75		
651	9.846 8234		9.994 7091		0.005 2909	9.852 1143		349	
652	9.846 8311	77	9.994 7243	152	0.005 2757	9.852 1068	75	348	
653	9.846 8388	77	9.994 7394	151	0.005 2606	9.852 0994	74	347	
		77		152			75		
654	9.846 8465		9.994 7546		0.005 2454	9.852 0919		346	
655	9.846 8541	76	9.994 7698	152	0.005 2302	9.852 0844	75	345	
656	9.846 8618	77	9.994 7849	151	0.005 2151	9.852 0769	75	344	
		77		152			75		
657	9.846 8695		9.994 8001		0.005 1999	9.852 0694		343	
658	9.846 8772	77	9.994 8152	151	0.005 1848	9.852 0619	75	342	
659	9.846 8848	76	9.994 8304	152	0.005 1696	9.852 0544	75	341	
		77		152			75		
.660	9.846 8925		9.994 8456		0.005 1544	9.852 0469		.340	
		77		151			75		
661	9.846 9002		9.994 8607		0.005 1393	9.852 0394		339	
662	9.846 9078	76	9.994 8759	152	0.005 1241	9.852 0319	75	338	
663	9.846 9155	77	9.994 8911	152	0.005 1089	9.852 0245	74	337	
		77		151			75		
664	9.846 9232		9.994 9062		0.005 0938	9.852 0170		336	
665	9.846 9308	76	9.994 9214	152	0.005 0786	9.852 0095	75	335	
666	9.846 9385	77	9.994 9365	151	0.005 0635	9.852 0020	75	334	
		77		152			75		
667	9.846 9462		9.994 9517		0.005 0483	9.851 9945		333	
668	9.846 9538	76	9.994 9669	152	0.005 0331	9.851 9870	75	332	
669	9.846 9615	77	9.994 9820	151	0.005 0180	9.851 9795	75	331	
		77		152			75		
.670	9.846 9692		9.994 9972		0.005 0028	9.851 9720		.330	
		77		151			75		
671	9.846 9769		9.995 0123		0.004 9877	9.851 9645		329	
672	9.846 9845	76	9.995 0275	152	0.004 9725	9.851 9570	75	328	
673	9.846 9922	77	9.995 0427	152	0.004 9573	9.851 9495	75	327	
		77		151			75		
674	9.846 9999		9.995 0578		0.004 9422	9.851 9420		326	
675	9.847 0075	76	9.995 0730	152	0.004 9270	9.851 9345	75	325	
676	9.847 0152	77	9.995 0881	151	0.004 9119	9.851 9270	75	324	
		77		152			75		
677	9.847 0229		9.995 1033		0.004 8967	9.851 9195		323	
678	9.847 0305	76	9.995 1185	152	0.004 8815	9.851 9121	74	322	
679	9.847 0382	77	9.995 1336	151	0.004 8664	9.851 9046	75	321	
		76		152			75		
.680	9.847 0458		9.995 1488		0.004 8512	9.851 8971		.320	
		77		151			75		
681	9.847 0535		9.995 1639		0.004 8361	9.851 8896		319	
682	9.847 0612	77	9.995 1791	152	0.004 8209	9.851 8821	75	318	
683	9.847 0688	76	9.995 1943	152	0.004 8057	9.851 8746	75	317	
		77		151			75		
684	9.847 0765		9.995 2094		0.004 7906	9.851 8671		316	
685	9.847 0842	77	9.995 2246	152	0.004 7754	9.851 8596	75	315	
686	9.847 0918	76	9.995 2397	151	0.004 7603	9.851 8521	75	314	
		77		152			75		
687	9.847 0995		9.995 2549		0.004 7451	9.851 8446		313	
688	9.847 1072	77	9.995 2701	152	0.004 7299	9.851 8371	75	312	
689	9.847 1148	76	9.995 2852	151	0.004 7148	9.851 8296	75	311	
		77		152			75		
.690	9.847 1225		9.995 3004		0.004 6996	9.851 8221		.310	
		76		152			75		
691	9.847 1301		9.995 3156		0.004 6844	9.851 8146		309	
692	9.847 1378	77	9.995 3307	151	0.004 6693	9.851 8071	75	308	
693	9.847 1455	77	9.995 3459	152	0.004 6541	9.851 7996	75	307	
		76		151			75		
694	9.847 1531		9.995 3610		0.004 6390	9.851 7921		306	
695	9.847 1608	77	9.995 3762	152	0.004 6238	9.851 7846	75	305	
696	9.847 1685	77	9.995 3914	152	0.004 6086	9.851 7771	75	304	
		76		151			75		
697	9.847 1761		9.995 4065		0.004 5935	9.851 7696		303	
698	9.847 1838	77	9.995 4217	152	0.004 5783	9.851 7621	75	302	
699	9.847 1914	76	9.995 4368	151	0.004 5632	9.851 7546	75	301	
		77		152			75		
.700	9.847 1991		9.995 4520		0.004 5480	9.851 7471		.300	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	77	76
1	7.7	7.6
2	15.4	15.2
3	23.1	22.8
4	30.8	30.4
5	38.5	38.0
6	46.2	45.6
7	53.9	53.2
8	61.6	60.8
9	69.3	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

	74
1	7.4
2	14.8
3	22.2
4	29.6
5	37.0
6	44.4
7	51.8
8	59.2
9	66.6

45°.350 — 45°.300

44°.700 — 44°.750

44°	sin	d	tang	d	cotg	cos	d		P.P.
.700	9.847 1991		9.995 4520		0.004 5480	9.851 7471		.300	
		77		152			75		
701	9.847 2068		9.995 4672		0.004 5328	9.851 7396		299	
702	9.847 2144	76	9.995 4823	151	0.004 5177	9.851 7321	75	298	
703	9.847 2221	77	9.995 4975	152	0.004 5025	9.851 7246	75	297	
		76		151			75		
704	9.847 2297		9.995 5126		0.004 4874	9.851 7171		296	
705	9.847 2374	77	9.995 5278	152	0.004 4722	9.851 7096	75	295	
706	9.847 2450	76	9.995 5430	152	0.004 4570	9.851 7021	75	294	
		77		151			75		
707	9.847 2527		9.995 5581		0.004 4419	9.851 6946		293	
708	9.847 2604	77	9.995 5733	152	0.004 4267	9.851 6871	75	292	
709	9.847 2680	76	9.995 5884	151	0.004 4116	9.851 6796	75	291	
		77		152			75		
.710	9.847 2757		9.995 6036		0.004 3964	9.851 6721		.290	
		76		152			75		
711	9.847 2833		9.995 6188		0.004 3812	9.851 6646		289	
712	9.847 2910	77	9.995 6339	151	0.004 3661	9.851 6571	75	288	
713	9.847 2986	76	9.995 6491	152	0.004 3509	9.851 6496	75	287	
		77		151			75		
714	9.847 3063		9.995 6642		0.004 3358	9.851 6421		286	
715	9.847 3140	77	9.995 6794	152	0.004 3206	9.851 6346	75	285	
716	9.847 3216	76	9.995 6946	152	0.004 3054	9.851 6270	76	284	
		77		151			75		
717	9.847 3293		9.995 7097		0.004 2903	9.851 6195		283	
718	9.847 3369	76	9.995 7249	152	0.004 2751	9.851 6120	75	282	
719	9.847 3446	77	9.995 7400	151	0.004 2600	9.851 6045	75	281	
		76		152			75		
.720	9.847 3522		9.995 7552		0.004 2448	9.851 5970		.280	
		77		152			75		
721	9.847 3599		9.995 7704		0.004 2296	9.851 5895		279	
722	9.847 3675	76	9.995 7855	151	0.004 2145	9.851 5820	75	278	
723	9.847 3752	77	9.995 8007	152	0.004 1993	9.851 5745	75	277	
		76		151			75		
724	9.847 3828		9.995 8158		0.004 1842	9.851 5670		276	
725	9.847 3905	77	9.995 8310	152	0.004 1690	9.851 5595	75	275	
726	9.847 3982	77	9.995 8462	152	0.004 1538	9.851 5520	75	274	
		76		151			75		
727	9.847 4058		9.995 8613		0.004 1387	9.851 5445		273	
728	9.847 4135	77	9.995 8765	152	0.004 1235	9.851 5370	75	272	
729	9.847 4211	76	9.995 8916	151	0.004 1084	9.851 5295	75	271	
		77		152			75		
.730	9.847 4288		9.995 9068		0.004 0932	9.851 5220		.270	
		76		152			76		
731	9.847 4364		9.995 9220		0.004 0780	9.851 5144		269	
732	9.847 4441	77	9.995 9371	151	0.004 0629	9.851 5069	75	268	
733	9.847 4517	76	9.995 9523	152	0.004 0477	9.851 4994	75	267	
		77		152			75		
734	9.847 4594		9.995 9675		0.004 0325	9.851 4919		266	
735	9.847 4670	76	9.995 9826	151	0.004 0174	9.851 4844	75	265	
736	9.847 4747	77	9.995 9978	152	0.004 0022	9.851 4769	75	264	
		76		151			75		
737	9.847 4823		9.996 0129		0.003 9871	9.851 4694		263	
738	9.847 4900	77	9.996 0281	152	0.003 9719	9.851 4619	75	262	
739	9.847 4976	76	9.996 0433	152	0.003 9567	9.851 4544	75	261	
		77		151			75		
.740	9.847 5053		9.996 0584		0.003 9416	9.851 4469		.260	
		76		152			76		
741	9.847 5129		9.996 0736		0.003 9264	9.851 4393		259	
742	9.847 5206	77	9.996 0887	151	0.003 9113	9.851 4318	75	258	
743	9.847 5282	76	9.996 1039	152	0.003 8961	9.851 4243	75	257	
		77		152			75		
744	9.847 5359		9.996 1191		0.003 8809	9.851 4168		256	
745	9.847 5435	76	9.996 1342	151	0.003 8658	9.851 4093	75	255	
746	9.847 5512	77	9.996 1494	152	0.003 8506	9.851 4018	75	254	
		76		151			75		
747	9.847 5588		9.996 1645		0.003 8355	9.851 3943		253	
748	9.847 5664	76	9.996 1797	152	0.003 8203	9.851 3868	75	252	
749	9.847 5741	77	9.996 1949	152	0.003 8051	9.851 3792	76	251	
		76		151			75		
.750	9.847 5817		9.996 2100		0.003 7900	9.851 3717		.250	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	77	76
1	7.7	7.6
2	15.4	15.2
3	23.1	22.8
4	30.8	30.4
5	38.5	38.0
6	46.2	45.6
7	53.9	53.2
8	61.6	60.8
9	69.3	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

45°.300 — 45°.250

44°.750 — 44°.800

44°	sin	d	tang	d	cotg	cos	d		P.P.
.750	9.847 5817		9.996 2100		0.003 7900	9.851 3717		.250	
		77		152			75		
751	9.847 5894		9.996 2252		0.003 7748	9.851 3642		249	
752	9.847 5970	76	9.996 2403	151	0.003 7597	9.851 3567	75	248	
753	9.847 6047	77	9.996 2555	152	0.003 7445	9.851 3492	75	247	
		76		152			75		
754	9.847 6123		9.996 2707		0.003 7293	9.851 3417		246	
755	9.847 6200	77	9.996 2858	151	0.003 7142	9.851 3342	75	245	
756	9.847 6276	76	9.996 3010	152	0.003 6990	9.851 3266	76	244	
		77		151			75		
757	9.847 6353		9.996 3161		0.003 6839	9.851 3191		243	
758	9.847 6429	76	9.996 3313	152	0.003 6687	9.851 3116	75	242	
759	9.847 6505	76	9.996 3465	152	0.003 6535	9.851 3041	75	241	
		77		151			75		
.760	9.847 6582		9.996 3616		0.003 6384	9.851 2966		.240	
		76		152			75		
761	9.847 6658		9.996 3768		0.003 6232	9.851 2891		239	
762	9.847 6735	77	9.996 3919	151	0.003 6081	9.851 2815	76	238	
763	9.847 6811	76	9.996 4071	152	0.003 5929	9.851 2740	75	237	
		77		152			75		
764	9.847 6888		9.996 4223		0.003 5777	9.851 2665		236	
765	9.847 6964	76	9.996 4374	151	0.003 5626	9.851 2590	75	235	
766	9.847 7040	76	9.996 4526	152	0.003 5474	9.851 2515	75	234	
		77		151			76		
767	9.847 7117		9.996 4677		0.003 5323	9.851 2439		233	
768	9.847 7193	76	9.996 4829	152	0.003 5171	9.851 2364	75	232	
769	9.847 7270	77	9.996 4981	152	0.003 5019	9.851 2289	75	231	
		76		151			75		
.770	9.847 7346		9.996 5132		0.003 4868	9.851 2214		.230	
		77		152			75		
771	9.847 7423		9.996 5284		0.003 4716	9.851 2139		229	
772	9.847 7499	76	9.996 5435	151	0.003 4565	9.851 2064	75	228	
773	9.847 7575	76	9.996 5587	152	0.003 4413	9.851 1988	76	227	
		77		152			75		
774	9.847 7652		9.996 5739		0.003 4261	9.851 1913		226	
775	9.847 7728	76	9.996 5890	151	0.003 4110	9.851 1838	75	225	
776	9.847 7805	77	9.996 6042	152	0.003 3958	9.851 1763	75	224	
		76		151			75		
777	9.847 7881		9.996 6193		0.003 3807	9.851 1688		223	
778	9.847 7957	76	9.996 6345	152	0.003 3655	9.851 1612	76	222	
779	9.847 8034	77	9.996 6497	152	0.003 3503	9.851 1537	75	221	
		76		151			75		
.780	9.847 8110		9.996 6648		0.003 3352	9.851 1462		.220	
		76		152			75		
781	9.847 8186		9.996 6800		0.003 3200	9.851 1387		219	
782	9.847 8263	77	9.996 6951	151	0.003 3049	9.851 1311	76	218	
783	9.847 8339	76	9.996 7103	152	0.003 2897	9.851 1236	75	217	
		77		152			75		
784	9.847 8416		9.996 7255		0.003 2745	9.851 1161		216	
785	9.847 8492	76	9.996 7406	151	0.003 2594	9.851 1086	75	215	
786	9.847 8568	76	9.996 7558	152	0.003 2442	9.851 1011	75	214	
		77		151			76		
787	9.847 8645		9.996 7709		0.003 2291	9.851 0935		213	
788	9.847 8721	76	9.996 7861	152	0.003 2139	9.851 0860	75	212	
789	9.847 8797	76	9.996 8013	152	0.003 1987	9.851 0785	75	211	
		77		151			75		
.790	9.847 8874		9.996 8164		0.003 1836	9.851 0710		.210	
		76		152			76		
791	9.847 8950		9.996 8316		0.003 1684	9.851 0634		209	
792	9.847 9027	77	9.996 8467	151	0.003 1533	9.851 0559	75	208	
793	9.847 9103	76	9.996 8619	152	0.003 1381	9.851 0484	75	207	
		76		152			75		
794	9.847 9179		9.996 8771		0.003 1229	9.851 0409		206	
795	9.847 9256	77	9.996 8922	151	0.003 1078	9.851 0333	76	205	
796	9.847 9332	76	9.996 9074	152	0.003 0926	9.851 0258	75	204	
		76		151			75		
797	9.847 9408		9.996 9225		0.003 0775	9.851 0183		203	
798	9.847 9485	77	9.996 9377	152	0.003 0623	9.851 0108	75	202	
799	9.847 9561	76	9.996 9529	152	0.003 0471	9.851 0032	76	201	
		76		151			75		
.800	9.847 9637		9.996 9680		0.003 0320	9.850 9957		.200	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	77	76
1	7.7	7.6
2	15.4	15.2
3	23.1	22.8
4	30.8	30.4
5	38.5	38.0
6	46.2	45.6
7	53.9	53.2
8	61.6	60.8
9	69.3	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

45°.250 — 45°.200

44°.800 — 44°.850

44°	sin	d	tang	d	cotg	cos	d		P.P.
.800	9.847 9637		9.996 9680		0.003 0320	9.850 9957		.200	
		77		152			75		
801	9.847 9714		9.996 9832		0.003 0168	9.850 9882		199	
802	9.847 9790	76	9.996 9983	151	0.003 0017	9.850 9806	76	198	
803	9.847 9866	76	9.997 0135	152	0.002 9865	9.850 9731	75	197	
		77		152			75		
804	9.847 9943		9.997 0287		0.002 9713	9.850 9656		196	
805	9.848 0019	76	9.997 0438	151	0.002 9562	9.850 9581	75	195	
806	9.848 0095	76	9.997 0590	152	0.002 9410	9.850 9505	76	194	
		76		151			75		
807	9.848 0171		9.997 0741		0.002 9259	9.850 9430		193	
808	9.848 0248	77	9.997 0893	152	0.002 9107	9.850 9355	75	192	
809	9.848 0324	76	9.997 1045	152	0.002 8955	9.850 9279	76	191	
		76		151			75		
.810	9.848 0400		9.997 1196		0.002 8804	9.850 9204		.190	
		77		152			75		
811	9.848 0477		9.997 1348		0.002 8652	9.850 9129		189	
812	9.848 0553	76	9.997 1499	151	0.002 8501	9.850 9054	75	188	
813	9.848 0629	76	9.997 1651	152	0.002 8349	9.850 8978	76	187	
		77		152			75		
814	9.848 0706		9.997 1803		0.002 8197	9.850 8903		186	
815	9.848 0782	76	9.997 1954	151	0.002 8046	9.850 8828	75	185	
816	9.848 0858	76	9.997 2106	152	0.002 7894	9.850 8752	76	184	
		76		151			75		
817	9.848 0934		9.997 2257		0.002 7743	9.850 8677		183	
818	9.848 1011	77	9.997 2409	152	0.002 7591	9.850 8602	75	182	
819	9.848 1087	76	9.997 2561	152	0.002 7439	9.850 8526	76	181	
		76		151			75		
.820	9.848 1163		9.997 2712		0.002 7288	9.850 8451		.180	
		77		152			75		
821	9.848 1240		9.997 2864		0.002 7136	9.850 8376		179	
822	9.848 1316	76	9.997 3015	151	0.002 6985	9.850 8300	76	178	
823	9.848 1392	76	9.997 3167	152	0.002 6833	9.850 8225	75	177	
		76		152			75		
824	9.848 1468		9.997 3319		0.002 6681	9.850 8150		176	
825	9.848 1545	77	9.997 3470	151	0.002 6530	9.850 8074	76	175	
826	9.848 1621	76	9.997 3622	152	0.002 6378	9.850 7999	75	174	
		76		151			75		
827	9.848 1697		9.997 3773		0.002 6227	9.850 7924		173	
828	9.848 1773	76	9.997 3925	152	0.002 6075	9.850 7848	76	172	
829	9.848 1850	77	9.997 4077	152	0.002 5923	9.850 7773	75	171	
		76		151			75		
.830	9.848 1926		9.997 4228		0.002 5772	9.850 7698		.170	
		76		152			76		
831	9.848 2002		9.997 4380		0.002 5620	9.850 7622		169	
832	9.848 2078	76	9.997 4531	151	0.002 5469	9.850 7547	75	168	
833	9.848 2155	77	9.997 4683	152	0.002 5317	9.850 7472	75	167	
		76		152			76		
834	9.848 2231		9.997 4835		0.002 5165	9.850 7396		166	
835	9.848 2307	76	9.997 4986	151	0.002 5014	9.850 7321	75	165	
836	9.848 2383	76	9.997 5138	152	0.002 4862	9.850 7245	76	164	
		77		151			75		
837	9.848 2460		9.997 5289		0.002 4711	9.850 7170		163	
838	9.848 2536	76	9.997 5441	152	0.002 4559	9.850 7095	75	162	
839	9.848 2612	76	9.997 5593	152	0.002 4407	9.850 7019	76	161	
		76		151			75		
.840	9.848 2688		9.997 5744		0.002 4256	9.850 6944		.160	
		77		152			75		
841	9.848 2765		9.997 5896		0.002 4104	9.850 6869		159	
842	9.848 2841	76	9.997 6047	151	0.002 3953	9.850 6793	76	158	
843	9.848 2917	76	9.997 6199	152	0.002 3801	9.850 6718	75	157	
		76		152			76		
844	9.848 2993		9.997 6351		0.002 3649	9.850 6642		156	
845	9.848 3069	76	9.997 6502	151	0.002 3498	9.850 6567	75	155	
846	9.848 3146	77	9.997 6654	152	0.002 3346	9.850 6492	75	154	
		76		151			76		
847	9.848 3222		9.997 6805		0.002 3195	9.850 6416		153	
848	9.848 3298	76	9.997 6957	152	0.002 3043	9.850 6341	75	152	
849	9.848 3374	76	9.997 7109	152	0.002 2891	9.850 6266	75	151	
		76		151			76		
.850	9.848 3450		9.997 7260		0.002 2740	9.850 6190		.150	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	77	76
1	7.7	7.6
2	15.4	15.2
3	23.1	22.8
4	30.8	30.4
5	38.5	38.0
6	46.2	45.6
7	53.9	53.2
8	61.6	60.8
9	69.3	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

45°.200 — 45°.150

44°.850 — 44°.900

44°	sin	d	tang	d	cotg	cos	d		P.P.
.850	9.848 3450		9.997 7260		0.002 2740	9.850 6190		.150	
		77		152			75		
851	9.848 3527		9.997 7412		0.002 2588	9.850 6115		149	
852	9.848 3603	76	9.997 7563	151	0.002 2437	9.850 6039	76	148	
853	9.848 3679	76	9.997 7715	152	0.002 2285	9.850 5964	75	147	
		76		152			76		
854	9.848 3755		9.997 7867		0.002 2133	9.850 5888		146	
855	9.848 3831	76	9.997 8018	151	0.002 1982	9.850 5813	75	145	
856	9.848 3908	77	9.997 8170	152	0.002 1830	9.850 5738	75	144	
		76		151			76		
857	9.848 3984		9.997 8321		0.002 1679	9.850 5662		143	
858	9.848 4060	76	9.997 8473	152	0.002 1527	9.850 5587	75	142	
859	9.848 4136	76	9.997 8625	152	0.002 1375	9.850 5511	76	141	
		76		151			75		
.860	9.848 4212		9.997 8776		0.002 1224	9.850 5436		.140	
		76		152			75		
861	9.848 4288		9.997 8928		0.002 1072	9.850 5361		139	
862	9.848 4365	77	9.997 9079	151	0.002 0921	9.850 5285	76	138	
863	9.848 4441	76	9.997 9231	152	0.002 0769	9.850 5210	75	137	
		76		152			76		
864	9.848 4517		9.997 9383		0.002 0617	9.850 5134		136	
865	9.848 4593	76	9.997 9534	151	0.002 0466	9.850 5059	75	135	
866	9.848 4669	76	9.997 9686	152	0.002 0314	9.850 4983	76	134	
		76		151			75		
867	9.848 4745		9.997 9837		0.002 0163	9.850 4908		133	
868	9.848 4822	77	9.997 9989	152	0.002 0011	9.850 4832	76	132	
869	9.848 4898	76	9.998 0141	152	0.001 9859	9.850 4757	75	131	
		76		151			75		
.870	9.848 4974		9.998 0292		0.001 9708	9.850 4682		.130	
		76		152			76		
871	9.848 5050		9.998 0444		0.001 9556	9.850 4606		129	
872	9.848 5126	76	9.998 0595	151	0.001 9405	9.850 4531	75	128	
873	9.848 5202	76	9.998 0747	152	0.001 9253	9.850 4455	76	127	
		76		152			75		
874	9.848 5278		9.998 0899		0.001 9101	9.850 4380		126	
875	9.848 5354	76	9.998 1050	151	0.001 8950	9.850 4304	76	125	
876	9.848 5431	77	9.998 1202	152	0.001 8798	9.850 4229	75	124	
		76		151			76		
877	9.848 5507		9.998 1353		0.001 8647	9.850 4153		123	
878	9.848 5583	76	9.998 1505	152	0.001 8495	9.850 4078	75	122	
879	9.848 5659	76	9.998 1657	152	0.001 8343	9.850 4002	76	121	
		76		151			75		
.880	9.848 5735		9.998 1808		0.001 8192	9.850 3927		.120	
		76		152			76		
881	9.848 5811		9.998 1960		0.001 8040	9.850 3851		119	
882	9.848 5887	76	9.998 2111	151	0.001 7889	9.850 3776	75	118	
883	9.848 5963	76	9.998 2263	152	0.001 7737	9.850 3700	76	117	
		77		152			75		
884	9.848 6040		9.998 2415		0.001 7585	9.850 3625		116	
885	9.848 6116	76	9.998 2566	151	0.001 7434	9.850 3549	76	115	
886	9.848 6192	76	9.998 2718	152	0.001 7282	9.850 3474	75	114	
		76		151			76		
887	9.848 6268		9.998 2869		0.001 7131	9.850 3398		113	
888	9.848 6344	76	9.998 3021	152	0.001 6979	9.850 3323	75	112	
889	9.848 6420	76	9.998 3173	152	0.001 6827	9.850 3247	76	111	
		76		151			75		
.890	9.848 6496		9.998 3324		0.001 6676	9.850 3172		.110	
		76		152			76		
891	9.848 6572		9.998 3476		0.001 6524	9.850 3096		109	
892	9.848 6648	76	9.998 3627	151	0.001 6373	9.850 3021	75	108	
893	9.848 6724	76	9.998 3779	152	0.001 6221	9.850 2945	76	107	
		76		152			75		
894	9.848 6800		9.998 3931		0.001 6069	9.850 2870		106	
895	9.848 6877	77	9.998 4082	151	0.001 5918	9.850 2794	76	105	
896	9.848 6953	76	9.998 4234	152	0.001 5766	9.850 2719	75	104	
		76		151			76		
897	9.848 7029		9.998 4385		0.001 5615	9.850 2643		103	
898	9.848 7105	76	9.998 4537	152	0.001 5463	9.850 2568	75	102	
899	9.848 7181	76	9.998 4689	152	0.001 5311	9.850 2492	76	101	
		76		151			75		
.900	9.848 7257		9.998 4840		0.001 5160	9.850 2417		.100	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	77	76
1	7.7	7.6
2	15.4	15.2
3	23.1	22.8
4	30.8	30.4
5	38.5	38.0
6	46.2	45.6
7	53.9	53.2
8	61.6	60.8
9	69.3	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

45°.150 — 45°.100

44°.900 — 44°.950

44°	sin	d	tang	d	cotg	cos	d		P.P.
.900	9.848 7257		9.998 4840		0.001 5160	9.850 2417		.100	
		76		152			76		
901	9.848 7333		9.998 4992		0.001 5008	9.850 2341		099	
902	9.848 7409	76	9.998 5143	151	0.001 4857	9.850 2266	75	098	
903	9.848 7485	76	9.998 5295	152	0.001 4705	9.850 2190	76	097	
		76		152			75		
904	9.848 7561		9.998 5447		0.001 4553	9.850 2115		096	
905	9.848 7637	76	9.998 5598	151	0.001 4402	9.850 2039	76	095	
906	9.848 7713	76	9.998 5750	152	0.001 4250	9.850 1963	76	094	
		76		151			75		
907	9.848 7789		9.998 5901		0.001 4099	9.850 1888		093	
908	9.848 7865	76	9.998 6053	152	0.001 3947	9.850 1812	76	092	
909	9.848 7941	76	9.998 6205	152	0.001 3795	9.850 1737	75	091	
		76		151			76		
.910	9.848 8017		9.998 6356		0.001 3644	9.850 1661		.090	
		76		152			75		
911	9.848 8093		9.998 6508		0.001 3492	9.850 1586		089	
912	9.848 8169	76	9.998 6659	151	0.001 3341	9.850 1510	76	088	
913	9.848 8246	77	9.998 6811	152	0.001 3189	9.850 1435	75	087	
		76		152			76		
914	9.848 8322		9.998 6963		0.001 3037	9.850 1359		086	
915	9.848 8398	76	9.998 7114	151	0.001 2886	9.850 1283	76	085	
916	9.848 8474	76	9.998 7266	152	0.001 2734	9.850 1208	75	084	
		76		151			76		
917	9.848 8550		9.998 7417		0.001 2583	9.850 1132		083	
918	9.848 8626	76	9.998 7569	152	0.001 2431	9.850 1057	75	082	
919	9.848 8702	76	9.998 7721	152	0.001 2279	9.850 0981	76	081	
		76		151			76		
.920	9.848 8778		9.998 7872		0.001 2128	9.850 0905		.080	
		76		152			75		
921	9.848 8854		9.998 8024		0.001 1976	9.850 0830		079	
922	9.848 8930	76	9.998 8175	151	0.001 1825	9.850 0754	76	078	
923	9.848 9006	76	9.998 8327	152	0.001 1673	9.850 0679	75	077	
		76		152			76		
924	9.848 9082		9.998 8479		0.001 1521	9.850 0603		076	
925	9.848 9158	76	9.998 8630	151	0.001 1370	9.850 0527	76	075	
926	9.848 9234	76	9.998 8782	152	0.001 1218	9.850 0452	75	074	
		76		151			76		
927	9.848 9310		9.998 8933		0.001 1067	9.850 0376		073	
928	9.848 9386	76	9.998 9085	152	0.001 0915	9.850 0301	75	072	
929	9.848 9462	76	9.998 9237	152	0.001 0763	9.850 0225	76	071	
		76		151			76		
.930	9.848 9538		9.998 9388		0.001 0612	9.850 0149		.070	
		76		152			75		
931	9.848 9614		9.998 9540		0.001 0460	9.850 0074		069	
932	9.848 9690	76	9.998 9691	151	0.001 0309	9.849 9998	76	068	
933	9.848 9766	76	9.998 9843	152	0.001 0157	9.849 9923	75	067	
		76		152			76		
934	9.848 9842		9.998 9995		0.001 0005	9.849 9847		066	
935	9.848 9918	76	9.999 0146	151	0.000 9854	9.849 9771	76	065	
936	9.848 9993	75	9.999 0298	152	0.000 9702	9.849 9696	75	064	
		76		151			76		
937	9.849 0069		9.999 0449		0.000 9551	9.849 9620		063	
938	9.849 0145	76	9.999 0601	152	0.000 9399	9.849 9544	76	062	
939	9.849 0221	76	9.999 0753	152	0.000 9247	9.849 9469	75	061	
		76		151			76		
.940	9.849 0297		9.999 0904		0.000 9096	9.849 9393		.060	
		76		152			75		
941	9.849 0373		9.999 1056		0.000 8944	9.849 9318		059	
942	9.849 0449	76	9.999 1207	151	0.000 8793	9.849 9242	76	058	
943	9.849 0525	76	9.999 1359	152	0.000 8641	9.849 9166	76	057	
		76		152			75		
944	9.849 0601		9.999 1511		0.000 8489	9.849 9091		056	
945	9.849 0677	76	9.999 1662	151	0.000 8338	9.849 9015	76	055	
946	9.849 0753	76	9.999 1814	152	0.000 8186	9.849 8939	76	054	
		76		151			75		
947	9.849 0829		9.999 1965		0.000 8035	9.849 8864		053	
948	9.849 0905	76	9.999 2117	152	0.000 7883	9.849 8788	76	052	
949	9.849 0981	76	9.999 2269	152	0.000 7731	9.849 8712	76	051	
		76		151			75		
.950	9.849 1057		9.999 2420		0.000 7580	9.849 8637		.050	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	77	76
1	7.7	7.6
2	15.4	15.2
3	23.1	22.8
4	30.8	30.4
5	38.5	38.0
6	46.2	45.6
7	53.9	53.2
8	61.6	60.8
9	69.3	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

45°.100 — 45°.050

44°.950 — 45°.000

44°	sin	d	tang	d	cotg	cos	d		P.P.
.950	9.849 1057		9.999 2420		0.000 7580	9.849 8637		.050	
		76		152			76		
951	9.849 1133		9.999 2572		0.000 7428	9.849 8561		049	
952	9.849 1209	76	9.999 2723	151	0.000 7277	9.849 8485	76	048	
953	9.849 1285	76	9.999 2875	152	0.000 7125	9.849 8410	75	047	
		75		152			76		
954	9.849 1360		9.999 3027		0.000 6973	9.849 8334		046	
955	9.849 1436	76	9.999 3178	151	0.000 6822	9.849 8258	76	045	
956	9.849 1512	76	9.999 3330	152	0.000 6670	9.849 8183	75	044	
		76		151			76		
957	9.849 1588		9.999 3481		0.000 6519	9.849 8107		043	
958	9.849 1664	76	9.999 3633	152	0.000 6367	9.849 8031	76	042	
959	9.849 1740	76	9.999 3785	152	0.000 6215	9.849 7956	75	041	
		76		151			76		
.960	9.849 1816		9.999 3936		0.000 6064	9.849 7880		.040	
		76		152			76		
961	9.849 1892		9.999 4088		0.000 5912	9.849 7804		039	
962	9.849 1968	76	9.999 4239	151	0.000 5761	9.849 7728	76	038	
963	9.849 2044	76	9.999 4391	152	0.000 5609	9.849 7653	75	037	
		76		151			76		
964	9.849 2120		9.999 4542		0.000 5458	9.849 7577		036	
965	9.849 2195	75	9.999 4694	152	0.000 5306	9.849 7501	76	035	
966	9.849 2271	76	9.999 4846	152	0.000 5154	9.849 7426	75	034	
		76		151			76		
967	9.849 2347		9.999 4997		0.000 5003	9.849 7350		033	
968	9.849 2423	76	9.999 5149	152	0.000 4851	9.849 7274	76	032	
969	9.849 2499	76	9.999 5300	151	0.000 4700	9.849 7199	75	031	
		76		152			76		
.970	9.849 2575		9.999 5452		0.000 4548	9.849 7123		.030	
		76		152			76		
971	9.849 2651		9.999 5604		0.000 4396	9.849 7047		029	
972	9.849 2727	76	9.999 5755	151	0.000 4245	9.849 6971	76	028	
973	9.849 2802	75	9.999 5907	152	0.000 4093	9.849 6896	75	027	
		76		151			76		
974	9.849 2878		9.999 6058		0.000 3942	9.849 6820		026	
975	9.849 2954	76	9.999 6210	152	0.000 3790	9.849 6744	76	025	
976	9.849 3030	76	9.999 6362	152	0.000 3638	9.849 6668	76	024	
		76		151			75		
977	9.849 3106		9.999 6513		0.000 3487	9.849 6593		023	
978	9.849 3182	76	9.999 6665	152	0.000 3335	9.849 6517	76	022	
979	9.849 3258	76	9.999 6816	151	0.000 3184	9.849 6441	76	021	
		76		152			76		
.980	9.849 3334		9.999 6968		0.000 3032	9.849 6365		.020	
		75		152			75		
981	9.849 3409		9.999 7120		0.000 2880	9.849 6290		019	
982	9.849 3485	76	9.999 7271	151	0.000 2729	9.849 6214	76	018	
983	9.849 3561	76	9.999 7423	152	0.000 2577	9.849 6138	76	017	
		76		151			76		
984	9.849 3637		9.999 7574		0.000 2426	9.849 6062		016	
985	9.849 3713	76	9.999 7726	152	0.000 2274	9.849 5987	75	015	
986	9.849 3789	76	9.999 7878	152	0.000 2122	9.849 5911	76	014	
		75		151			76		
987	9.849 3864		9.999 8029		0.000 1971	9.849 5835		013	
988	9.849 3940	76	9.999 8181	152	0.000 1819	9.849 5759	76	012	
989	9.849 4016	76	9.999 8332	151	0.000 1668	9.849 5684	75	011	
		76		152			76		
.990	9.849 4092		9.999 8484		0.000 1516	9.849 5608		.010	
		76		152			76		
991	9.849 4168		9.999 8636		0.000 1364	9.849 5532		009	
992	9.849 4244	76	9.999 8787	151	0.000 1213	9.849 5456	76	008	
993	9.849 4319	75	9.999 8939	152	0.000 1061	9.849 5381	75	007	
		76		151			76		
994	9.849 4395		9.999 9090		0.000 0910	9.849 5305		006	
995	9.849 4471	76	9.999 9242	152	0.000 0758	9.849 5229	76	005	
996	9.849 4547	76	9.999 9394	152	0.000 0606	9.849 5153	76	004	
		76		151			76		
997	9.849 4623		9.999 9545		0.000 0455	9.849 5077		003	
998	9.849 4698	75	9.999 9697	152	0.000 0303	9.849 5002	75	002	
999	9.849 4774	76	9.999 9848	151	0.000 0152	9.849 4926	76	001	
		76		152			76		
*.000	9.849 4850		0.000 0000		0.000 0000	9.849 4850		.000	
	cos	d	cotg	d	tang	sin	d	45°	P.P.

	152	151
1	15.2	15.1
2	30.4	30.2
3	45.6	45.3
4	60.8	60.4
5	76.0	75.5
6	91.2	90.6
7	106.4	105.7
8	121.6	120.8
9	136.8	135.9

	76
1	7.6
2	15.2
3	22.8
4	30.4
5	38.0
6	45.6
7	53.2
8	60.8
9	68.4

	75
1	7.5
2	15.0
3	22.5
4	30.0
5	37.5
6	45.0
7	52.5
8	60.0
9	67.5

45°.050 — 45°.000