

## 三角函數值表的查法

利用角度換算,可將任意角化為銳角,即可利用  $0^\circ \sim 90^\circ$  ( $1^\circ = 60'$ ,以 10' 為單位)的函數值表求其值。由餘角關係  $\sin = \cos (90^\circ - \theta)$ ,  $\tan = \cot (90^\circ - \theta)$ , sec =  $\csc (90^\circ - \theta)$ ,列出左邊角度為  $0^\circ \sim 45^\circ$ ,右邊角度為  $45^\circ \sim 90^\circ$ 。

角度	sin	cos	tan	cot	sec	csc	
21°00′							
10'							
20′							
30′							
40′ –		→ .9293					
50′							
							50′
							40′
							30′
				1.343			20'
							10'
							53°00′
	cos	sin	cot	tan	csc	sec	角度

例如: 查表可得 cos21°40′= 0.9293

 $\tan 53^{\circ}20' = 1.343$ 

【註】口訣:左上配、右下配

附表 三角函數值表

角度	sin	cos	tan	cot	sec	csc	
0°00' 10' 20'	.0000 .0029 .0058	1.0000 1.0000 1.0000	.0000 .0029 .0058	343.8 171.9	1.000 1.000 1.000	343.8 171.9	90°00' 50' 40'
30'	.0087	1.0000	.0087	114.6	1.000	114.6	30'
40'	.0116	.9999	.0116	85.94	1.000	85.95	20'
50'	.0145	.9999	.0145	68.75	1.000	68.76	10'
1°00' 10'	.0175	.9998 .9998	.0175	57.29 49.10	1.000	57.30 49.11	89°00' 50'
20' 30' 40'	.0204 .0233 .0262 .0291	.9998 .9997 .9997	.0204 .0233 .0262 .0291	42.96 38.19 34.37	1.000 1.000 1.000 1.000	42.98 38.20 34.38	40' 30' 20'
50' 2°00'	.0320	.9995	.0320	31.24	1.001	31.26 28.65	10' 88°00'
10'	.0378	.9993	.0378	26.43	1.001	26.45	50'
20'	.0407	.9992	.0407	24.54	1.001	24.56	40'
30'	.0436	.9990	.0437	22.90	1.001	22.93	30'
40'	.0465	.9989	.0466	21.47	1.001	21.49	20'
50'	.0494	.9988	.0495	20.21	1.001	20.23	10'
3°00'	.0523	.9986	.0524	19.08	1.001	19.11	87°00'
10'	.0552	.9985	.0553	18.07	1.002	18.10	50'
20'	.0581	.9983	.0582	17.17	1.002	17.20	40'
30' 40' 50'	.0610 .0640 .0669	.9981 .9980 .9978	.0612 .0641 .0670	16.35 15.60 14.92	1.002 1.002 1.002 1.002	16.38 15.64 14.96	30' 20' 10'
4°00' 10'	.0698	.9976 .9974	.0699	14.30 13.73	1.002 1.002 1.003	14.34 13.76	86°00' 50'
20'	.0756	.9971	.0758	13.20	1.003	13.23	40'
30'	.0785	.9969	.0787	12.71	1.003	12.75	30'
40'	.0814	.9967	.0816	12.25	1.003	12.29	20'
50'	.0843	.9964	.0846	11.83	1.004	11.87	10'
5°00'		.9962	.0875	11.43	1.004	11.47	85°00'
10'	.0901	.9959	.0904	11.06	1.004	11.10	50'
20'	.0929	.9957	.0934	10.71	1.004	10.76	40'
30'	.0958	.9954	.0963	10.39	1.005	10.43	30'
40'	.0987	.9951	.0992	10.08	1.005	10.13	20'
50'	.1016	.9948	.1022	9.788	1.005	9.839	10'
6°00'	.1045	.9945	.1051	9.514	1.006	9.567	84°00'
10'	.1074	.9942	.1080	9.255	1.006	9.309	50'
20'	.1103	.9939	.1110	9.010	1.006	9.065	40'
30'	.1132	.9936	.1139	8.777	1.006	8.834	30'
40'	.1161	.9932	.1169	8.556	1.007	8.614	20'
50'	.1190	.9929	.1198	8.345	1.007	8.405	10'
7°00'	.1219	.9925	.1228	8.144	1.008	8.206	83°00'
10'	.1248	.9922	.1257	7.953	1.008	8.016	50'
20'	.1276	.9918	.1287	7.770	1.008	7.834	40'
30' 40'	.1305	.9914 .9911	.1317	7.596 7.429	1.009 1.009	7.661 7.496	30' 20'
8°00'	.1392	.9903	.1405	7.115	1.010	7.185	82°00'
10'	.1421	.9899	.1435	6.968	1.010	7.040	50'
20'	.1449	.9894	.1465	6.827	1.011	6.900	40'
30'	.1478	.9890	.1495	6.691	1.011	6.765	30'
40'	.1507	.9886	.1524	6.561	1.012	6.636	20'
50'	.1536	.9881	.1554	6.435	1.012	6.512	10'
9°00'	.1564	.9877	.1584	6.314	1.012	6.392	81°00'
	cos	sin	cot	tan	csc	sec	角度

角度	sin	cos	tan	cot	sec	csc	
9°00'	.1564	.9877	.1584	6.314	1.012	6.392	81°00'
10'	.1593	.9872	.1614	6.197	1.013	6.277	50'
20'	.1622	.9868	.1644	6.084	1.013	6.166	40'
30'	.1650	.9863	.1673	5.976	1.014	6.059	30'
40'	.1679	.9858	.1703	5.871	1.014	5.955	20'
50' 10°00'	.1708	.9853 .9848	.1733	5.769 5.671	1.015 1.015	5.855 5.759	10' 80°00'
10'	.1765	.9843	.1793	5.576	1.016	5.665	50'
20'	.1794	.9838	.1823	5.485	1.016	5.575	40'
30'	.1822	.9833	.1853	5.396	1.017	5.487	30'
40'	.1851	.9827	.1883	5.309	1.018	5.403	20'
50'	.1880	.9822	.1914	5.226	1.018	5.320	10'
11°00'	.1908	.9816	.1944	5.145	1.019	5.241	79°00'
10'	.1937	.9811	.1974	5.066	1.019	5.164	50'
20'	.1965	.9805	.2004	4.989	1.020	5.089	40'
30'	.1994	.9799	.2035	4.915	1.020	5.016	30'
40'	.2022	.9793	.2065	4.843	1.021	4.945	20'
50' 12°00'	.2051	.9787 .9781	.2095	4.773	1.022	4.876 4.810	10' 78°00'
10'	.2108	.9775	.2156	4.638	1.023	4.745	50'
20'	.2136	.9769	.2186	4.574	1.024	4.682	40'
30'	.2164	.9763	.2217	4.511	1.024	4.620	30'
40'	.2193	.9757	.2247	4.449	1.025	4.560	20'
50'	.2221	.9750	.2278	4.390	1.026	4.502	10'
13°00'	.2250	.9744	.2309	4.331	1.026	4.445	77°00'
10'	.2278	.9737	.2339	4.275	1.027	4.390	50'
20'	.2306	.9730	.2370	4.219	1.028	4.336	40'
30'	.2334	.9724	.2401	4.165	1.028	4.284	30'
40'	.2363	.9717	.2432	4.113	1.029	4.232	20'
50' 14°00'	.2391	.9710 .9703	.2462	4.061	1.030	4.182	10' 76°00'
10'	.2447	.9696	.2524	3.962	1.031	4.086	50'
20'	.2476	.9689	.2555	3.914	1.032	4.039	40'
30'	.2504	.9681	.2586	3.867	1.033	3.994	30'
40'	.2532	.9674	.2617	3.821	1.034	3.950	20'
50'	.2560	.9667	.2648	3.776	1.034	3.906	10'
15°00'	.2588	.9659	.2679	3.732	1.035	3.864	75°00'
10'	.2616	.9652	.2711	3.689	1.036	3.822	50'
20'	.2644	.9644	.2742	3.647	1.037	3.782	40'
30'	.2672	.9636	.2773	3.606	1.038	3.742	30'
40'	.2700	.9628	.2805	3.566	1.039	3.703	20'
50' 16°00'	.2728	.9621	.2836	3.526	1.039	3.665 3.628	10' 74°00'
10'	.2784	.9605	.2899	3.450	1.041	3.592	50'
20'	.2812	.9596	.2931	3.412	1.042	3.556	40'
30'	.2840	.9588	.2962	3.376	1.043	3.521	30'
40'	.2868	.9580	.2994	3.340	1.044	3.487	20'
50'	.2896	.9572	.3026	3.305	1.045	3.453	10'
17°00'	.2924	.9563	.3057	3.271	1.046	3.420	73°00'
10'	.2952	.9555	.3089	3.237	1.047	3.388	50'
20'	.2979	.9546	.3121	3.204	1.048	3.356	40'
30'	.3007	.9537	.3153	3.172	1.049	3.326	30'
40'	.3035	.9528	.3185	3.140	1.049	3.295	20'
50' 18°00'	.3062	.9520 .9511	.3217	3.108 3.078	1.050 1.051	3.265 3.236	10' 72°00'
	cos	sin	cot	tan	csc	sec	角度

18*00'   3090   9511   3249   3.078   1.051   3.236   7.2*00'   10*1   3.118   9592   3.314   3.018   1.053   3.179   40°   3.00*1   3.173   9483   3.346   2.989   1.054   3.152   30°   40°   3.201   9474   3.378   2.990   1.056   3.124   2.0°   3.26*1   3.22*1   9474   3.378   2.990   1.056   3.124   2.0°   3.22*1   3.23*1   3.43*2   2.990   1.056   3.124   2.0°   3.22*1   3.23*3   9446   3.476   2.877   1.059   3.098   10°   10°   3.283   9.446   3.476   2.877   1.059   3.046   50°   3.313   3.338   9.426   3.541   2.824   1.061   2.996   30°   3.333   9.426   3.541   2.824   1.061   2.996   30°   3.333   9.426   3.541   2.824   1.061   2.996   30°   3.333   9.426   3.541   2.824   1.061   2.996   30°   3.333   9.426   3.541   2.824   1.061   2.997   20°   50°   3.393   9.407   3.607   2.773   1.063   2.947   10°   2.900   3.0°   3.348   9.327   3.640   2.747   1.064   2.924   70°00°   3.420   9.397   3.640   2.747   1.064   2.924   70°00°   2.0°   3.475   9.3377   3.706   2.699   1.066   2.878   40°   3.522   9.356   3.772   2.651   1.069   2.833   2.0°   2.0°   3.475   9.337   3.706   2.699   1.066   2.878   40°   3.522   9.356   3.772   2.651   1.069   2.833   2.0°   2.0°   3.557   9.346   3.805   2.628   1.070   2.812   10°   2.10°   3.614   3.932   3.563   3.813   2.605   1.071   2.790   6.9°00°   3.0°   3.363   9.315   3.906   2.550   1.074   2.749   40°   3.629   9.933   3.933   3.930   2.539   1.075   2.729   3.0°   40°   3.643   9.315   3.906   2.550   1.074   2.749   40°   3.629   9.933   3.973   2.517   1.076   2.709   2.0°   3.643   9.315   3.906   2.550   1.074   2.749   40°   3.629   9.933   3.933   3.9406   2.550   1.074   2.749   40°   3.629   9.933   3.933   3.930   2.539   1.075   2.729   3.0°   3.0°   3.802   9.933   3.933   2.517   1.076   2.709   2.0°   3.608   3.818   9.216   4.210   2.375   1.099   2.669   6.8°00°   3.0°   3.881   9.216   4.210   2.375   1.099   2.249   1.096   2.475   1.097   2.669   6.8°00°   3.0°   3.881   9.216   4.210   2.375   1.095   2.459   6.6°00°   3.0°   3.	角度	sin	cos	tan	cot	sec	csc	
19°00'   3.2856	10'	.3118	.9502	.3281	3.047	1.052	3.207	50'
	20'	.3145	.9492	.3314	3.018	1.053	3.179	40'
	30'	.3173	.9483	.3346	2.989	1.054	3.152	30'
	40'	.3201	.9474	.3378	2.960	1.056	3.124	20'
20°00	19°00' 10' 20' 30' 40'	.3256 .3283 .3311 .3338 .3365	.9455 .9446 .9436 .9426 .9417	.3443 .3476 .3508 .3541 .3574	2.904 2.877 2.850 2.824 2.798	1.058 1.059 1.060 1.061	3.072 3.046 3.021 2.996 2.971	71°00' 50' 40' 30'
21°00'         .3584         .9336         .3839         2.605         1.071         2.790         69°00'           10'         .3611         .9325         .3872         2.583         1.072         2.769         50'           20'         .3638         .9315         .3906         2.560         1.074         2.749         40'           30'         .3665         .9304         .3939         2.539         1.075         2.729         30'           40'         .3692         .9293         .3973         2.517         1.076         2.709         20'           50'         .3719         .9283         .4006         2.496         1.077         2.689         10'           22°00'         .3746         .9272         .4040         2.475         1.079         2.669         68°00'           10'         .3737         .9261         .4076         2.455         1.080         2.650         50'           20'         .3800         .9250         .4108         2.434         1.081         2.632         40'           30'         .3827         .9239         .4142         2.414         1.082         2.613         30'           30'	20°00'	.3420	.9397	.3640	2.747	1.064	2.924	70°00'
	10'	.3448	.9387	.3673	2.723	1.065	2.901	50'
	20'	.3475	.9377	.3706	2.699	1.066	2.878	40'
	30'	.3502	.9367	.3739	2.675	1.068	2.855	30'
	40'	.3529	.9356	.3772	2.651	1.069	2.833	20'
22°00'         .3746         .9272         .4040         2.475         1.079         2.669         68°00'           10'         .3773         .9261         .4076         2.455         1.080         2.650         50'           20'         .3800         .9250         .4108         2.434         1.081         2.632         40'           30'         .3827         .9239         .4142         2.414         1.082         2.613         30'           40'         .3854         .9228         .4176         2.394         1.084         2.595         20'           50'         .3881         .9216         .4210         2.375         1.085         2.577         10'           23°00'         .3907         .9205         .4245         2.356         1.086         2.559         6°00'           10'         .3934         .9194         .4279         2.337         1.088         2.542         50'           20'         .3961         .9182         .4314         2.318         1.089         2.525         40'           30'         .3987         .9171         .4348         2.300         1.090         2.508         30'           40'         .	21°00'	.3584	.9336	.3839	2.605	1.071	2.790	69°00'
	10'	.3611	.9325	.3872	2.583	1.072	2.769	50'
	20'	.3638	.9315	.3906	2.560	1.074	2.749	40'
	30'	.3665	.9304	.3939	2.539	1.075	2.729	30'
	40'	.3692	.9293	.3973	2.517	1.076	2.709	20'
23°00'         .3907         .9205         .4245         2.356         1.086         2.559         67°00'           10'         .3934         .9194         .4279         2.337         1.088         2.542         50'           20'         .3961         .9182         .4314         2.318         1.089         2.525         40'           30'         .3987         .9171         .4348         2.300         1.090         2.508         30'           40'         .4014         .9159         .4383         2.282         1.092         2.491         20'           50'         .4041         .9147         .4417         2.264         1.093         2.475         10'           24°00'         .4067         .9135         .4452         2.246         1.093         2.459         66°00'           10'         .4094         .9124         .4487         2.229         1.096         2.443         50'           20'         .4120         .9112         .4522         2.211         1.097         2.427         40'           30'         .4147         .9008         .4592         2.177         1.100         2.366         20'           50'	22°00'	.3746	.9272	.4040	2.475	1.079	2.669	68°00'
	10'	.3773	.9261	.4076	2.455	1.080	2.650	50'
	20'	.3800	.9250	.4108	2.434	1.081	2.632	40'
	30'	.3827	.9239	.4142	2.414	1.082	2.613	30'
	40'	.3854	.9228	.4176	2.394	1.084	2.595	20'
10'         .4094         .9124         .4487         2.229         1.096         2.443         50'           20'         .4120         .9112         .4522         2.211         1.097         2.427         40'           30'         .4147         .9100         .4557         2.194         1.099         2.411         30'           40'         .4173         .9088         .4592         2.177         1.100         2.396         20'           50'         .4200         .9075         .4628         2.161         1.102         2.381         10'           25°00'         .4226         .9063         .4663         2.145         1.103         2.366         65°00'           10'         .4253         .9051         .4699         2.128         1.105         2.352         50'           20'         .4279         .9038         .4734         2.112         1.106         2.337         40'           30'         .4305         .9026         .4770         2.097         1.108         2.323         30'           40'         .4331         .9013         .4806         2.081         1.109         2.309         20'           50'         .4358<	10' 20' 30' 40'	.3907 .3934 .3961 .3987 .4014	.9194 .9182 .9171 .9159	.4279 .4314 .4348 .4383	2.337 2.318 2.300 2.282	1.086 1.088 1.089 1.090 1.092	2.542 2.525 2.508 2.491	50' 40' 30' 20'
10'         .4253         .9051         .4699         2.128         1.105         2.352         50'           20'         .4279         .9038         .4734         2.112         1.106         2.337         40'           30'         .4305         .9026         .4770         2.097         1.108         2.323         30'           40'         .4331         .9013         .4806         2.081         1.109         2.309         20'           50'         .4358         .9001         .4841         2.066         1.111         2.295         10'           26°00'         .4384         .8988         .4877         2.050         1.113         2.281         64°00'           10'         .4410         .8975         .4913         2.035         1.114         2.268         50'           20'         .4436         .8962         .4950         2.020         1.116         2.254         40'           30'         .4462         .8949         .4986         2.006         1.117         2.241         30'           40'         .4488         .8936         .5022         1.991         1.119         2.228         20'           50'         .4514<	10'	.4094	.9124	.4487	2.229	1.096	2.443	50'
	20'	.4120	.9112	.4522	2.211	1.097	2.427	40'
	30'	.4147	.9100	.4557	2.194	1.099	2.411	30'
	40'	.4173	.9088	.4592	2.177	1.100	2.396	20'
10'     .4410     .8975     .4913     2.035     1.114     2.268     50'       20'     .4436     .8962     .4950     2.020     1.116     2.254     40'       30'     .4462     .8949     .4986     2.006     1.117     2.241     30'       40'     .4488     .8936     .5022     1.991     1.119     2.228     20'       50'     .4514     .8923     .5059     1.977     1.121     2.215     10'	10'	.4253	.9051	.4699	2.128	1.105	2.352	50'
	20'	.4279	.9038	.4734	2.112	1.106	2.337	40'
	30'	.4305	.9026	.4770	2.097	1.108	2.323	30'
	40'	.4331	.9013	.4806	2.081	1.109	2.309	20'
	10'	.4410	.8975	.4913	2.035	1.114	2.268	50'
	20'	.4436	.8962	.4950	2.020	1.116	2.254	40'
	30'	.4462	.8949	.4986	2.006	1.117	2.241	30'
	40'	.4488	.8936	.5022	1.991	1.119	2.228	20'
27°00'	27°00'							

角度	sin	cos	tan	cot	sec	csc	
27°00' 10' 20'	.4540 .4566 .4592	.8910 .8897 .8884	.5095 .5132 .5169	1.963 1.949 1.935	1.122 1.124 1.126	2.203 2.190 2.178	63°00' 50' 40'
30' 40' 50'	.4617 .4643 .4669	.8870 .8857 .8843	.5206 .5243 .5280	1.921 1.907 1.894	1.127 1.129 1.131	2.166 2.154 2.142	30' 20' 10'
28°00' 10' 20' 30' 40'	.4695 .4720 .4746 .4772 .4797	.8829 .8816 .8802 .8788 .8774	.5317 .5354 .5392 .5430 .5467	1.881 1.868 1.855 1.842 1.829	1.133 1.134 1.136 1.138 1.140	2.130 2.118 2.107 2.096 2.085	62°00' 50' 40' 30' 20'
50' 29°00' 10' 20' 30' 40'	.4823 .4848 .4874 .4899 .4924 .4950	.8746 .8746 .8732 .8718 .8704	.5505 .5543 .5581 .5619 .5658 .5696	1.816 1.804 1.792 1.780 1.767 1.756	1.142 1.143 1.145 1.147 1.149 1.151	2.074 2.063 2.052 2.041 2.031 2.020	10' 61°00' 50' 40' 30' 20'
50' 30°00' 10' 20' 30' 40' 50'	.4975 .5000 .5025 .5050 .5075 .5100	.8675 .8660 .8646 .8631 .8616 .8601	.5735 .5774 .5812 .5851 .5890 .5930	1.744 1.732 1.720 1.709 1.698 1.686 1.675	1.153 1.155 1.157 1.159 1.161 1.163 1.165	2.010 2.000 1.990 1.980 1.970 1.961 1.951	10' 60°00' 50' 40' 30' 20'
31°00' 10' 20' 30' 40' 50'	.5123 .5150 .5175 .5200 .5225 .5250	.8572 .8557 .8542 .8526 .8511 .8496	.6009 .6048 .6088 .6128 .6168	1.673 1.664 1.653 1.643 1.632 1.621 1.611	1.163 1.167 1.169 1.171 1.173 1.175	1.942 1.932 1.923 1.914 1.905 1.896	59°00' 50' 40' 30' 20'
32°00' 10' 20' 30' 40' 50'	.5299 .5324 .5348 .5373 .5398 .5422	.8480 .8465 .8450 .8434 .8418	.6249 .6289 .6330 .6371 .6412	1.600 1.590 1.580 1.570 1.560 1.550	1.179 1.181 1.184 1.186 1.188 1.190	1.887 1.878 1.870 1.861 1.853 1.844	58°00' 50' 40' 30' 20' 10'
33°00' 10' 20' 30' 40' 50'	.5446 .5471 .5495 .5519 .5544	.8387 .8371 .8355 .8339 .8323 .8307	.6494 .6536 .6577 .6619 .6661	1.540 1.530 1.520 1.511 1.501 1.492	1.192 1.195 1.197 1.199 1.202 1.204	1.836 1.828 1.820 1.812 1.804 1.796	57°00' 50' 40' 30' 20' 10'
34°00' 10' 20' 30' 40' 50'	.5592 .5616 .5640 .5664 .5688 .5712	.8290 .8274 .8258 .8241 .8225 .8208	.6745 .6787 .6830 .6873 .6916	1.483 1.473 1.464 1.455 1.446 1.437	1.206 1.209 1.211 1.213 1.216 1.218	1.788 1.781 1.773 1.766 1.758 1.751	56°00' 50' 40' 30' 20' 10'
35°00' 10' 20' 30' 40' 50'	.5736 .5760 .5783 .5807 .5831 .5854	.8192 .8175 .8158 .8141 .8124 .8107	.7002 .7046 .7089 .7133 .7177 .7221	1.428 1.419 1.411 1.402 1.393 1.383	1.221 1.223 1.226 1.228 1.231 1.233	1.743 1.736 1.729 1.722 1.715 1.708	55°00' 50' 40' 30' 20' 10'
36°00'	.5878	.8090	.7265	1.376	1.236	1.701	54°00'
	cos	sin	cot	tan	csc	sec	角度

角度	sin	cos	tan	cot	sec	csc	
36°00'	.5878	.8090	.7265	1.376	1.236	1.701	54°00'
10'	.5901	.8073	.7310	1.368	1.239	1.695	50'
20'	.5925	.8056	.7355	1.360	1.241	1.688	40'
30'	.5948	.8039	.7400	1.351	1.244	1.681	30'
40'	.5972	.8021	.7445	1.343	1.247	1.675	20'
50'	.5995	.8004	.7490	1.335	1.249	1.668	10'
37°00' 10' 20' 30' 40' 50'	.6018 .6041 .6065 .6088 .6111	.7986 .7969 .7951 .7934 .7916 .7898	.7536 .7581 .7627 .7673 .7720 .7766	1.327 1.319 1.311 1.303 1.295 1.288	1.252 1.255 1.258 1.260 1.263 1.266	1.662 1.655 1.649 1.643 1.636 1.630	53°00' 50' 40' 30' 20' 10'
38°00' 10' 20' 30' 40' 50'	.6157 .6180 .6202 .6225 .6248	.7880 .7862 .7844 .7826 .7808 .7790	.7813 .7860 .7907 .7954 .8002 .8050	1.280 1.272 1.265 1.257 1.250 1.242	1.269 1.272 1.275 1.278 1.281 1.284	1.624 1.618 1.612 1.606 1.601 1.595	52°00' 50' 40' 30' 20' 10'
39°00'	.6293	.7771	.8098	1.235	1.287	1.589	51°00'
10'	.6316	.7753	.8146	1.228	1.290	1.583	50'
20'	.6338	.7735	.8195	1.220	1.293	1.578	40'
30'	.6361	.7716	.8243	1.213	1.296	1.572	30'
40'	.6383	.7698	.8292	1.206	1.299	1.567	20'
50'	.6406	.7679	.8342	1.199	1.302	1.561	10'
40°00'	.6428	.7660	.8391	1.192	1.305	1.556	50°00'
10'	.6450	.7642	.8441	1.185	1.309	1.550	50'
20'	.6472	.7623	.8491	1.178	1.312	1.545	40'
30'	.6494	.7604	.8541	1.171	1.315	1.540	30'
40'	.6517	.7585	.8591	1.164	1.318	1.535	20'
50'	.6539	.7566	.8642	1.157	1.322	1.529	10'
41°00' 10' 20' 30' 40' 50'	.6561 .6583 .6604 .6626 .6648	.7547 .7528 .7509 .7490 .7470 .7451	.8693 .8744 .8796 .8847 .8899 .8952	1.150 1.144 1.137 1.130 1.124 1.117	1.325 1.328 1.332 1.335 1.339 1.342	1.524 1.519 1.514 1.509 1.504 1.499	49°00' 50' 40' 30' 20' 10'
42°00'	.6691	.7431	.9004	1.111	1.346	1.494	48°00'
10'	.6713	.7412	.9057	1.104	1.349	1.490	50'
20'	.6734	.7392	.9110	1.098	1.353	1.485	40'
30'	.6756	.7373	.9163	1.091	1.356	1.480	30'
40'	.6777	.7353	.9217	1.085	1.360	1.476	20'
50'	.6799	.7333	.9271	1.079	1.364	1.471	10'
43°00'	.6820	.7314	.9325	1.072	1.367	1.466	47°00'
10'	.6841	.7294	.9380	1.066	1.371	1.462	50'
20'	.6862	.7274	.9435	1.060	1.375	1.457	40'
30'	.6884	.7254	.9490	1.054	1.379	1.453	30'
40'	.6905	.7234	.9545	1.048	1.382	1.448	20'
50'	.6926	.7214	.9601	1.042	1.386	1.444	10'
44°00'	.6947	.7193	.9657	1.036	1.390	1.440	46°00'
10'	.6967	.7173	.9713	1.030	1.394	1.435	50'
20'	.6988	.7153	.9770	1.024	1.398	1.431	40'
30'	.7009	.7133	.9827	1.018	1.402	1.427	30'
40'	.7030	.7112	.9884	1.012	1.406	1.423	20'
50'	.7050	.7092	.9942	1.006	1.410	1.418	10'
45°00'	.7071	.7071	1.000	1.000	1.414	1.414	45°00'
	cos	sin	cot	tan	csc	sec	角度