

N.	0	1	2	3	4	5	6	7	8	9	D.
940	973128	3174	3220	3266	3313	3359	3405	3451	3497	3543	46
941	3590	3636	3682	3728	3774	3820	3866	3913	3959	4005	46
942	4051	4097	4143	4189	4235	4281	4327	4374	4420	4466	46
943	4512	4558	4604	4650	4696	4742	4788	4834	4880	4926	46
944	4972	5018	5064	5110	5156	5202	5248	5294	5340	5386	46
945	5432	5478	5524	5570	5616	5662	5707	5753	5799	5845	46
946	5891	5937	5983	6029	6075	6121	6167	6212	6258	6304	46
947	6350	6396	6442	6488	6533	6579	6625	6671	6717	6763	46
948	6808	6854	6900	6946	6992	7037	7083	7129	7175	7220	46
949	7266	7312	7358	7403	7449	7495	7541	7586	7632	7678	46
950	77724	7769	7815	7861	7906	7952	7998	8043	8089	8135	46
951	8181	8226	8272	8317	8363	8409	8454	8500	8546	8591	46
952	8637	8683	8728	8774	8819	8865	8911	8956	9002	9047	46
953	9093	9138	9184	9230	9275	9321	9366	9412	9457	9503	46
954	9548	9594	9639	9685	9730	9776	9821	9867	9912	9958	46
955	980003	0049	0094	0140	0185	0231	0276	0322	0367	0412	45
956	0458	0503	0549	0594	0640	0685	0730	0776	0821	0867	45
957	0912	0957	1003	1048	1093	1139	1184	1229	1275	1320	45
958	1366	1411	1456	1501	1547	1592	1637	1683	1728	1773	45
959	1819	1864	1909	1954	2000	2045	2090	2135	2181	2226	45
960	982271	2316	2362	2407	2452	2497	2543	2588	2633	2678	45
961	2723	2769	2814	2859	2904	2949	2994	3040	3085	3130	45
962	3175	3220	3265	3310	3356	3401	3446	3491	3536	3581	45
963	3626	3671	3716	3762	3807	3852	3897	3942	3987	4032	45
964	4077	4122	4167	4212	4257	4302	4347	4392	4437	4482	45
965	4527	4572	4617	4662	4707	4752	4797	4842	4887	4932	45
966	4977	5022	5067	5112	5157	5202	5247	5292	5337	5382	45
967	5426	5471	5516	5561	5606	5651	5696	5741	5786	5830	45
968	5875	5920	5965	6010	6055	6100	6144	6189	6234	6279	45
969	6324	6369	6413	6458	6503	6548	6593	6637	6682	6727	45
970	986772	6817	6861	6906	6951	6996	7040	7085	7130	7175	45
971	7219	7264	7309	7353	7398	7443	7488	7532	7577	7622	45
972	7666	7711	7756	7800	7845	7890	7934	7979	8024	8068	45
973	8113	8157	8202	8247	8291	8336	8381	8425	8470	8514	45
974	8559	8604	8648	8693	8737	8782	8826	8871	8916	8960	45
975	9005	9049	9094	9138	9183	9227	9272	9316	9361	9405	45
976	9450	9494	9539	9583	9628	9672	9717	9761	9806	9850	44
977	9895	9939	9983	••28	••72	•117	•161	•206	•250	•294	44
978	990339	0383	0428	0472	0516	0561	0605	0650	0694	0738	44
979	0783	0827	0871	0916	0960	1004	1049	1093	1137	1182	44
980	991226	1270	1315	1359	1403	1448	1492	1536	1580	1625	44
981	1669	1713	1758	1802	1846	1890	1935	1979	2023	2067	44
982	2111	2156	2200	2244	2288	2333	2377	2421	2465	2509	44
983	2554	2598	2642	2686	2730	2774	2819	2863	2907	2951	44
984	2995	3039	3083	3127	3172	3216	3260	3304	3348	3392	44
985	3436	3480	3524	3568	3613	3657	3701	3745	3789	3833	44
986	3877	3921	3965	4009	4053	4097	4141	4185	4229	4273	44
987	4317	4361	4405	4449	4493	4537	4581	4625	4669	4713	44
988	4757	4801	4845	4889	4933	4977	5021	5065	5108	5152	44
989	5196	5240	5284	5328	5372	5416	5460	5504	5547	5591	44
990	995635	5679	5723	5767	5811	5854	5898	5942	5986	6030	44
991	6074	6117	6161	6205	6249	6293	6337	6380	6424	6468	44
992	6512	6555	6599	6643	6687	6731	6774	6818	6862	6906	44
993	6949	6993	7037	7080	7124	7168	7212	7255	7299	7343	44
994	7386	7430	7474	7517	7561	7605	7648	7692	7736	7779	44
995	7823	7867	7910	7954	7998	8041	8085	8129	8172	8216	44
996	8259	8303	8347	8390	8434	8477	8521	8564	8608	8652	44
997	8695	8739	8782	8826	8869	8913	8956	9000	9043	9087	44
998	9131	9174	9218	9261	9305	9348	9392	9435	9479	9522	44
999	9565	9609	9652	9696	9739	9783	9826	9870	9913	9957	43
N.	0	1	2	3	4	5	6	7	8	9	D.

A TABLE  
OF  
LOGARITHMIC  
SINES AND TANGENTS  
FOR EVERY  
DEGREE AND MINUTE  
OF THE QUADRANT.

REMARK. The minutes in the left-hand column of each page, increasing downwards, belong to the degrees at the top; and those increasing upwards, in the right-hand column, belong to the degrees below.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	0.00000		10.00000		0.00000		Infinite.	60
1	6.463726	5017.17	000000	.00	6.463726	5017.17	13.536274	59
2	764756	2934.85	000000	.00	764756	2934.83	235244	58
3	940847	2082.31	000000	.00	940847	2082.31	059153	57
4	7.065786	1615.17	000000	.00	7.065786	1615.17	12.934214	56
5	162696	1319.68	000000	.00	162696	1319.69	837304	55
6	241877	1115.75	9.999999	.01	241878	1115.78	758122	54
7	308824	966.53	9.999999	.01	308825	966.53	691175	53
8	366816	852.54	9.999999	.01	366817	852.54	633183	52
9	417968	762.63	9.999999	.01	417970	762.63	582030	51
10	463725	689.88	9.999998	.01	463727	689.88	536273	50
11	7.505118	629.81	9.999998	.01	7.505120	629.81	12.494880	49
12	542906	579.36	9.999997	.01	542909	579.33	457091	48
13	577668	536.41	9.999997	.01	577672	536.42	422328	47
14	609853	499.38	9.999996	.01	609857	499.39	390143	46
15	639816	467.14	9.999996	.01	639820	467.15	360180	45
16	667845	438.81	9.999995	.01	667849	438.82	332151	44
17	694173	413.72	9.999995	.01	694179	413.73	305821	43
18	718997	391.35	9.999994	.01	719004	391.36	280997	42
19	742477	371.27	9.999993	.01	742484	371.28	257916	41
20	764754	353.15	9.999993	.01	764761	351.36	235239	40
21	7.785943	336.72	9.999992	.01	7.785951	336.73	12.214049	39
22	806146	321.75	9.999991	.01	806155	321.76	193845	38
23	825451	308.05	9.999990	.01	825460	308.06	174540	37
24	843034	295.47	9.999989	.02	843044	295.49	156056	36
25	861662	283.88	9.999988	.02	861674	283.90	138326	35
26	878695	273.17	9.999988	.02	878708	273.18	121292	34
27	895085	263.23	9.999987	.02	895099	263.25	104901	33
28	910879	253.99	9.999986	.02	910894	254.01	889106	32
29	926119	245.38	9.999985	.02	926134	245.40	738661	31
30	940842	237.33	9.999983	.02	940858	237.35	599142	30
31	7.955082	229.80	9.999982	.02	7.955100	229.81	12.044900	29
32	968870	222.73	9.999981	.02	968889	222.75	031111	28
33	982233	216.08	9.999980	.02	982253	216.10	017747	27
34	995198	209.81	9.999979	.02	995219	209.83	004781	26
35	8.007787	203.90	9.999977	.02	8.007809	203.92	11.992191	25
36	020021	198.31	9.999976	.02	020045	198.33	979955	24
37	031919	193.02	9.999975	.02	031945	193.05	968055	23
38	043501	188.01	9.999973	.02	043527	188.03	956473	22
39	054781	183.25	9.999972	.02	054809	183.27	945191	21
40	065776	178.72	9.999971	.02	065806	178.74	934194	20
41	8.076500	174.41	9.999969	.02	8.076531	174.44	11.923469	19
42	086965	170.31	9.999968	.02	086997	170.34	913003	18
43	097183	166.39	9.999966	.02	097217	166.42	902783	17
44	107167	162.65	9.999964	.03	107202	162.68	892797	16
45	116926	159.08	9.999963	.03	116963	159.10	883037	15
46	126471	155.66	9.999961	.03	126510	155.68	873490	14
47	135810	152.38	9.999959	.03	135851	152.41	864149	13
48	144953	149.24	9.999958	.03	144996	149.27	855004	12
49	153907	146.22	9.999956	.03	153952	146.27	846048	11
50	162681	143.33	9.999954	.03	162727	143.36	837273	10
51	8.171280	140.54	9.999952	.03	8.171328	140.57	11.828672	9
52	179713	137.86	9.999950	.03	179763	137.90	820237	8
53	187985	135.29	9.999948	.03	188036	135.32	811964	7
54	196102	132.80	9.999946	.03	196156	132.84	803844	6
55	204070	130.41	9.999944	.03	204126	130.44	795874	5
56	211895	128.10	9.999942	.04	211953	128.14	788047	4
57	219581	125.87	9.999940	.04	219641	125.90	780359	3
58	227134	123.72	9.999938	.04	227195	123.76	772805	2
59	234537	121.64	9.999936	.04	234621	121.68	765379	1
60	241855	119.63	9.999934	.04	241921	119.67	758079	0
	Cosine	D.	Sine	89°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	8.241855	119.63	9.999934	.04	8.241921	119.67	11.758079	60
1	249033	117.68	9.999932	.04	249103	117.72	750898	59
2	250094	115.80	9.999929	.04	250165	115.84	743835	58
3	263042	113.98	9.999927	.04	263115	114.02	736885	57
4	269881	112.21	9.999925	.04	269956	112.25	730044	56
5	276614	110.50	9.999922	.04	276691	110.54	723309	55
6	283243	108.83	9.999920	.04	283323	108.87	716677	54
7	289773	107.21	9.999918	.04	289856	107.26	710144	53
8	296207	105.65	9.999915	.04	296292	105.70	703708	52
9	302546	104.13	9.999913	.04	302634	104.18	697366	51
10	308794	102.66	9.999910	.04	308884	102.70	691116	50
11	8.314904	101.22	9.999907	.04	8.315046	101.26	11.684654	49
12	321207	99.82	9.999905	.04	321172	99.87	678878	48
13	327016	98.47	9.999902	.04	327114	98.51	672886	47
14	332924	97.14	9.999899	.05	332925	97.19	666975	46
15	338753	95.86	9.999897	.05	338856	95.90	661144	45
16	344504	94.60	9.999894	.05	344510	94.65	655390	44
17	350181	93.38	9.999891	.05	350289	93.43	649711	43
18	355783	92.19	9.999888	.05	355895	92.24	644105	42
19	361315	91.03	9.999885	.05	361430	91.08	638570	41
20	366777	89.90	9.999882	.05	366895	89.95	633105	40
21	8.372171	88.80	9.999879	.05	8.372292	88.85	11.627708	39
22	372499	87.72	9.999876	.05	372622	87.77	622378	38
23	382762	86.67	9.999873	.05	382889	86.72	617111	37
24	387962	85.64	9.999870	.05	388092	85.70	611908	36
25	393101	84.64	9.999867	.05	393234	84.70	606766	35
26	398179	83.66	9.999864	.05	398315	83.71	601685	34
27	403199	82.71	9.999861	.05	403338	82.76	596662	33
28	408161	81.77	9.999858	.05	408304	81.82	591696	32
29	413068	80.86	9.999854	.05	413213	80.91	586787	31
30	417919	79.96	9.999851	.06	418068	80.02	581932	30
31	8.422717	79.09	9.999848	.06	8.422869	79.14	11.577131	29
32	427462	78.23	9.999844	.06	427618	78.30	572382	28
33	432156	77.40	9.999841	.06	432315	77.45	567685	27
34	436800	76.57	9.999838	.06	436962	76.63	563038	26
35	441394	75.77	9.999834	.06	441560	75.83	558440	25
36	445941	74.99	9.999831	.06	446110	75.05	553820	24
37	450440	74.22	9.999827	.06	450613	74.28	549387	23
38	454893	73.46	9.999823	.06	455070	73.52	544930	22
39	459301	72.73	9.999820	.06	459481	72.79	540519	21
40	463665	72.00	9.999816	.06	463849	72.06	536151	20
41	8.467985	71.29	9.999812	.06	8.468172	71.35	11.531828	19
42	472263	70.60	9.999809	.06	472454	70.66	527546	18
43	476698	69.91	9.999805	.06	476993	69.98	523307	17
44	480693	69.24	9.999801	.06	480892	69.31	519108	16
45	484848	68.59	9.999797	.07	485050	68.65	514950	15
46	488963	67.94	9.999793	.07	489170	68.01	510830	14
47	493040	67.31	9.999790	.07	493250	67.38	506750	13
48	497078	66.69	9.999786	.07	497293	66.76	502707	12
49	501086	66.08	9.999782	.07	501298	66.15	498702	11
50	505055	65.48	9.999778	.07	505267	65.55	494733	10
51	8.508974	64.89	9.999774	.07	8.509200	64.96	11.490800	9
52	512867	64.31	9.999769	.07	513098	64.3		

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	8.542819	60.04	9.999735	-07	8.543084	60.12	11.456916	60
1	346422	59.55	999731	-07	546691	59.62	453309	59
2	349995	59.06	999726	-07	550268	59.14	449732	58
3	353339	58.58	999722	-08	553817	58.66	446183	57
4	557054	58.11	999717	-08	557336	58.19	442664	56
5	560540	57.65	999713	-08	560828	57.73	439172	55
6	563999	57.19	999708	-08	564291	57.27	435709	54
7	567431	56.74	999704	-08	567727	56.82	432273	53
8	570836	56.30	999699	-08	571137	56.38	428863	52
9	574214	55.87	999694	-08	574520	55.95	425480	51
10	577566	55.44	999689	-08	577877	55.52	422123	50
11	8.580892	55.02	9.999685	-08	8.581208	55.10	11.418792	49
12	584193	54.60	999680	-08	584514	54.68	415486	48
13	587469	54.19	999675	-08	587795	54.27	412205	47
14	590721	53.79	999670	-08	591051	53.87	408949	46
15	593948	53.39	999665	-08	594283	53.47	405717	45
16	597152	53.00	999660	-08	597492	53.08	402508	44
17	600332	52.61	999655	-08	600677	52.70	399323	43
18	603489	52.23	999650	-08	603839	52.32	396161	42
19	606623	51.86	999645	-09	606978	51.94	393022	41
20	609734	51.49	999640	-09	610094	51.58	389906	40
21	8.612823	51.12	9.999635	-09	8.613189	51.21	11.386811	39
22	615891	50.76	999629	-09	616262	50.85	383738	38
23	618937	50.41	999624	-09	619313	50.50	380687	37
24	621962	50.06	999619	-09	622343	50.15	377657	36
25	624965	49.72	999614	-09	625352	49.81	374648	35
26	627948	49.38	999608	-09	628340	49.47	371660	34
27	630911	49.04	999603	-09	631308	49.13	368692	33
28	633854	48.71	999597	-09	634256	48.80	365744	32
29	636776	48.39	999592	-09	637184	48.48	362816	31
30	639680	48.06	999586	-09	640093	48.16	359907	30
31	8.642563	47.75	9.999581	-09	8.642982	47.84	11.357018	29
32	645428	47.43	999575	-09	645853	47.53	355147	28
33	648274	47.12	999570	-09	648704	47.22	351299	27
34	651102	46.82	999564	-09	651537	46.91	348463	26
35	653911	46.52	999558	-10	654352	46.61	345648	25
36	656702	46.22	999553	-10	657149	46.31	342851	24
37	659475	45.92	999547	-10	659928	46.02	340072	23
38	662230	45.63	999541	-10	662689	45.73	337311	22
39	664968	45.35	999535	-10	665433	45.44	334567	21
40	667689	45.06	999529	-10	668160	45.26	331840	20
41	8.670393	44.79	9.999524	-10	8.670870	44.88	11.329130	19
42	673080	44.51	999518	-10	673563	44.61	326437	18
43	675751	44.24	999512	-10	676239	44.34	323761	17
44	678405	43.97	999506	-10	678900	44.17	321100	16
45	681043	43.70	999500	-10	681544	43.80	318456	15
46	683665	43.44	999493	-10	684172	43.54	315828	14
47	686272	43.18	999487	-10	686784	43.28	313216	13
48	688863	42.92	999481	-10	689381	43.03	310619	12
49	691438	42.67	999475	-10	691963	42.77	308037	11
50	693998	42.42	999469	-10	694529	42.52	305471	10
51	8.696943	42.17	9.999463	-11	8.697081	42.28	11.302919	9
52	699973	41.92	999456	-11	699617	42.03	300383	8
53	701589	41.68	999450	-11	702139	41.79	297861	7
54	704090	41.44	999443	-11	704646	41.55	295354	6
55	706577	41.21	999437	-11	707140	41.32	292860	5
56	709049	40.97	999431	-11	709618	41.08	290382	4
57	711507	40.74	999424	-11	712083	40.85	287917	3
58	713952	40.51	999418	-11	714534	40.62	285465	2
59	716383	40.29	999411	-11	716972	40.40	283028	1
60	718800	40.06	999404	-11	719396	40.17	280604	0

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	8.718800	40.06	9.999404	-11	8.719396	40.17	11.280604	60
1	721204	39.84	999398	-11	721806	39.95	278194	59
2	723595	39.62	999391	-11	724204	39.74	275796	58
3	725972	39.41	999384	-11	726588	39.52	273412	57
4	728337	39.19	999378	-11	728959	39.30	271041	56
5	730688	38.98	999371	-11	731317	39.09	268683	55
6	733027	38.77	999364	-12	733663	38.80	266337	54
7	735354	38.57	999357	-12	735996	38.68	264004	53
8	737667	38.36	999350	-12	738317	38.48	261683	52
9	739966	38.16	999343	-12	740626	38.27	259374	51
10	742253	37.95	999336	-12	742922	38.07	257078	50
11	8.742536	37.76	9.999329	-12	8.745207	37.87	11.254793	49
12	746802	37.56	999322	-12	747479	37.68	252521	48
13	749055	37.37	999315	-12	749740	37.49	250260	47
14	751297	37.17	999308	-12	751989	37.29	248011	46
15	753528	36.98	999301	-12	754227	37.10	245773	45
16	755747	36.79	999294	-12	756453	36.92	243547	44
17	757955	36.61	999286	-12	758668	36.73	241332	43
18	760151	36.42	999279	-12	760872	36.55	239128	42
19	762337	36.24	999272	-12	763065	36.36	236935	41
20	764511	36.06	999265	-12	765246	36.18	234754	40
21	8.766675	35.88	9.999257	-12	8.767417	36.00	11.232583	39
22	768828	35.70	999250	-13	769578	35.83	230422	38
23	770970	35.53	999242	-13	771727	35.65	228273	37
24	773101	35.35	999235	-13	773866	35.48	226134	36
25	775223	35.18	999227	-13	775995	35.31	224005	35
26	777333	35.01	999220	-13	778114	35.14	221886	34
27	779434	34.84	999212	-13	780222	34.97	219778	33
28	781524	34.67	999205	-13	782320	34.80	217680	32
29	783605	34.51	999197	-13	784408	34.64	215592	31
30	785675	34.34	999189	-13	786486	34.47	213514	30
31	8.787736	34.18	9.999181	-13	8.788554	34.31	11.211446	29
32	789787	34.02	999174	-13	790613	34.15	209387	28
33	791828	33.86	999166	-13	792662	33.99	207338	27
34	793859	33.70	999158	-13	794701	33.83	205299	26
35	795881	33.54	999150	-13	796731	33.68	203269	25
36	797894	33.39	999142	-13	798752	33.52	201248	24
37	799897	33.23	999134	-13	800763	33.37	199237	23
38	801892	33.08	999126	-13	802765	33.22	197235	22
39	803876	32.93	999118	-13	804758	33.07	195242	21
40	805852	32.78	999110	-13	806742	32.92	193258	20
41	8.807819	32.63	9.999102	-13	8.808717	32.78	11.191283	19
42	809777	32.49	999094	-14	810683	32.62	189317	18
43	811726	32.34	999086	-14	812641	32.48	187359	17
44	813667	32.19	999077	-14	814589	32.33	185411	16
45	815599	32.05	999069	-14	816529	32.19	183471	15
46	817522	31.91	999061	-14	818461	32.05	181539	14
47	819436	31.77	999053	-14	820384	31.91	179616	13
48	821343	31.63	999044	-14	822298	31.77	177702	12
49	823240	31.49	999036	-14	824205	31.63	175795	11
50	825130	31.35	999027	-14	826103	31.50	173897	10
51	8.827011	31.22	9.999019	-14	8.827992	31.36	11.172008	9
52	828884	31.08	999010	-14	828974	31.23	170126	8
53	830749	30.95	999002	-14	831748	31.10	168252	7
54	832607	30.82	998993	-14	833613	30.96	166387	6
55	834456	30.69	998984	-14	835471	30.83	164529	5
56	836297	30.56	998976	-14	837321	30.70	162679	4
57	838130	30.43	998967	-15	839163	30.57	160837	3
58	839956	30.30	998958	-15	840998	30.45	159002	2
59	841774	30.17	998950	-15	842825	30.32	157175	1
60	843585	30.00	998941	-15	844644	30.19	155356	0

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	8.843585	30.05	9.998941	.15	8.844644	30.19	11.155356	60
1	845387	29.02	998932	.15	846455	30.07	153545	59
2	847183	20.80	998923	.15	848260	29.95	151740	58
3	848971	29.67	998914	.15	850057	29.82	149943	57
4	850751	29.55	998905	.15	851846	29.70	148154	56
5	852525	29.43	998896	.15	853628	29.58	146372	55
6	854291	29.31	998887	.15	855403	29.46	144597	54
7	856049	29.19	998878	.15	857171	29.35	142829	53
8	857801	29.07	998869	.15	858932	29.23	141068	52
9	859546	28.96	998860	.15	860686	29.11	139314	51
10	861283	28.84	998851	.15	862433	29.00	137567	50
11	8.863014	28.73	9.998841	.15	8.864173	28.88	11.135827	49
12	864738	28.61	998832	.15	865906	28.77	134094	48
13	866455	28.50	998823	.16	867632	28.66	132368	47
14	868165	28.39	998813	.16	869351	28.54	130649	46
15	869868	28.28	998804	.16	871064	28.43	128936	45
16	871565	28.17	998795	.16	872770	28.32	127230	44
17	873255	28.06	998785	.16	874469	28.21	125531	43
18	874938	27.95	998776	.16	876162	28.11	123838	42
19	876615	27.86	998766	.16	877849	28.00	122151	41
20	878285	27.73	998757	.16	879529	27.89	120471	40
21	8.879949	27.63	9.998747	.16	8.881202	27.79	11.118798	39
22	881607	27.52	998738	.16	882869	27.68	117131	38
23	883258	27.42	998728	.16	884530	27.58	115470	37
24	884903	27.31	998718	.16	886185	27.47	113815	36
25	886542	27.21	998708	.16	887833	27.37	112167	35
26	888174	27.11	998699	.16	889476	27.27	110524	34
27	889801	27.00	998689	.16	891112	27.17	108888	33
28	891421	26.90	998679	.16	892742	27.07	107258	32
29	893035	26.80	998669	.17	894366	26.97	105634	31
30	894643	26.70	998659	.17	895984	26.87	104016	30
31	8.896246	26.60	9.998649	.17	8.897396	26.77	11.102404	29
32	897842	26.51	998639	.17	899203	26.67	100797	28
33	899432	26.41	998629	.17	900803	26.58	999197	27
34	901017	26.31	998619	.17	902398	26.48	997602	26
35	902596	26.22	998609	.17	903987	26.38	996013	25
36	904169	26.12	998599	.17	905570	26.29	994430	24
37	905736	26.03	998589	.17	907147	26.20	992853	23
38	907297	25.93	998578	.17	908719	26.10	991281	22
39	908853	25.84	998568	.17	910285	26.01	989715	21
40	910404	25.75	998558	.17	911846	25.92	988154	20
41	8.911049	25.65	9.998548	.17	8.913401	25.83	11.986599	19
42	913488	25.56	998537	.17	914951	25.74	985049	18
43	915022	25.47	998527	.17	916495	25.65	983505	17
44	916550	25.38	998516	.18	918034	25.56	981966	16
45	918073	25.29	998506	.18	919568	25.47	980432	15
46	919591	25.20	998495	.18	921096	25.38	978904	14
47	921103	25.12	998485	.18	922619	25.30	977381	13
48	922610	25.03	998474	.18	924136	25.21	975864	12
49	924112	24.94	998464	.18	925649	25.12	974351	11
50	925609	24.86	998453	.18	927156	25.03	972844	10
51	8.927100	24.77	9.998442	.18	8.928658	24.95	11.971342	9
52	928587	24.69	998431	.18	930155	24.86	966845	8
53	930068	24.60	998421	.18	931647	24.78	965353	7
54	931544	24.52	998410	.18	933134	24.70	963866	6
55	933015	24.43	998399	.18	934616	24.61	962384	5
56	934481	24.35	998388	.18	936093	24.53	960907	4
57	935942	24.27	998377	.18	937565	24.45	962435	3
58	937398	24.19	998366	.18	939032	24.37	960968	2
59	938850	24.11	998355	.18	940494	24.30	959506	1
60	940296	24.03	998344	.18	941952	24.21	958048	0
	Cosine	D.	Sine	85°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	8.940296	24.03	9.998344	.19	8.941952	24.21	11.058048	60
1	941738	23.94	998333	.19	943404	24.13	056566	59
2	943174	23.87	998322	.19	944852	24.05	055148	58
3	944606	23.79	998311	.19	946295	23.97	053705	57
4	946034	23.71	998300	.19	947734	23.90	052266	56
5	947456	23.63	998289	.19	949168	23.82	050832	55
6	948874	23.55	998277	.19	950597	23.74	049403	54
7	950287	23.48	998266	.19	952021	23.66	047979	53
8	951696	23.40	998255	.19	953441	23.60	046559	52
9	953100	23.32	998243	.19	954856	23.51	045144	51
10	954499	23.25	998232	.19	956267	23.44	043733	50
11	8.955894	23.17	9.998220	.19	8.957674	23.37	11.042326	49
12	957284	23.10	998209	.19	959075	23.29	042320	48
13	958670	23.02	998197	.19	960473	23.23	039527	47
14	960052	22.95	998186	.19	961866	23.14	038134	46
15	961429	22.88	998174	.19	963255	23.07	036745	45
16	962801	22.80	998163	.19	964639	23.00	035361	44
17	964170	22.73	998151	.19	966019	22.93	033981	43
18	965534	22.66	998139	.20	967394	22.86	032606	42
19	966893	22.59	998128	.20	968766	22.79	031234	41
20	968249	22.52	998116	.20	970133	22.71	029867	40
21	8.969600	22.44	9.998104	.20	8.971496	22.65	11.028504	39
22	970947	22.38	998092	.20	972855	22.57	027145	38
23	972289	22.31	998080	.20	974209	22.51	025791	37
24	973628	22.24	998068	.20	975560	22.44	024440	36
25	974962	22.17	998056	.20	976906	22.37	023094	35
26	976293	22.10	998044	.20	978248	22.30	021752	34
27	977619	22.03	998032	.20	979586	22.23	020414	33
28	978941	21.97	998020	.20	980921	22.17	019079	32
29	980259	21.90	998008	.20	982251	22.10	017749	31
30	981573	21.83	997996	.20	983577	22.04	016423	30
31	8.982883	21.77	9.997985	.20	8.984899	21.97	11.015101	29
32	984189	21.70	997972	.20	986217	21.91	013783	28
33	985491	21.63	997959	.20	987532	21.84	012468	27
34	986789	21.57	997947	.20	988842	21.78	011158	26
35	988083	21.50	997935	.21	990149	21.71	009851	25
36	989374	21.44	997922	.21	991451	21.65	008549	24
37	990660	21.38	997910	.21	992750	21.58	007250	23
38	991943	21.31	997897	.21	994045	21.52	005955	22
39	993222	21.25	997885	.21	995337	21.46	004663	21
40	994497	21.19	997872	.21	996624	21.40	003376	20
41	8.995768	21.12	9.997860	.21	8.997908	21.34	11.002092	19
42	997036	21.06	997847	.21	999188	21.27	000812	18
43	998299	21.00	997835	.21	9.000463	21.21	10.999535	17
44	999560	20.94	997822	.21	001738	21.15	998262	16
45	9.000816	20.87	997809	.21	003007	21.09	996993	15
46	002069	20.82	997797	.21	004272	21.03	995728	14
47	003318	20.76	997784	.21	005534	20.97	994466	13
48	004563	20.70	997771	.21	006792	20.91	993208	12
49	005805	20.64	997758	.21	008047	20.85	991953	11
50	007044	20.58	997745	.21	009298	20.80	990702	10
51	9.008278	20.52	9.997732	.21	9.010546	20.74	10.989454	9
52	009510	20.46	997719	.21	011790	20.68	988210	8
53	010737	20.40	997706	.21	013031	20.62	986969	7
54	011962	20.34	997693	.22	014268	20.56	985732	6
55	013182	20.29	997680	.22	015502	20.51	984498	5
56	014400	20.23	997667	.22	016732	20.45	983268	4
57	015613	20.17	997654	.22	017956	20.40	982041	3
58	016824	20.12	997641	.22	019183	20.33	980817	2
59	018031	20.06	997628	.22	020403	20.28	979597	1
60	019235	20.00	997614	.22	021620	20.23	978380	0
	Cosine	D.	Sine	84°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	019235	20-00	9-997614	-22	9-021620	20-23	10-978380	60
1	020435	19-05	997601	-22	022834	20-17	977166	59
2	021632	19-09	997588	-22	024044	20-11	975956	58
3	022825	19-84	997574	-22	025251	20-06	974749	57
4	024016	19-78	997561	-22	026455	20-00	973545	56
5	025203	19-73	997547	-22	027655	19-95	972345	55
6	026386	19-67	997534	-23	028852	19-90	971148	54
7	027567	19-62	997520	-23	030046	19-85	969954	53
8	028744	19-57	997507	-23	031237	19-79	968763	52
9	029918	19-51	997493	-23	032425	19-74	967575	51
10	031089	19-47	997480	-23	033609	19-69	966391	50
11	9-032257	19-41	9-997466	-23	9-034791	19-64	10-965209	49
12	033421	19-36	997452	-23	035969	19-58	964031	48
13	034582	19-30	997439	-23	037144	19-53	962856	47
14	035741	19-25	997425	-23	038316	19-48	961684	46
15	036896	19-20	997411	-23	039485	19-43	960515	45
16	038048	19-15	997397	-23	040651	19-38	959349	44
17	039197	19-10	997383	-23	041813	19-33	958187	43
18	040342	19-05	997369	-23	042973	19-28	957027	42
19	041485	18-99	997355	-23	044130	19-23	955870	41
20	042625	18-94	997341	-23	045284	19-18	954716	40
21	9-043762	18-89	9-997327	-24	9-046434	19-13	10-953566	39
22	044895	18-84	997313	-24	047582	19-08	952418	38
23	046026	18-79	997299	-24	048727	19-03	951273	37
24	047154	18-75	997285	-24	049869	18-98	950131	36
25	048279	18-70	997271	-24	051008	18-93	948992	35
26	049400	18-65	997257	-24	052144	18-89	947856	34
27	050519	18-60	997242	-24	053277	18-84	946723	33
28	051635	18-55	997228	-24	054407	18-79	945593	32
29	052749	18-50	997214	-24	055535	18-74	944465	31
30	053859	18-45	997199	-24	056659	18-70	943341	30
31	9-054966	18-41	9-997185	-24	9-057781	18-65	10-942219	29
32	056071	18-36	997170	-24	058900	18-60	941100	28
33	057172	18-31	997156	-24	060016	18-55	939984	27
34	058271	18-27	997141	-24	061130	18-51	938870	26
35	059367	18-22	997127	-24	062240	18-46	937760	25
36	060460	18-17	997112	-24	063348	18-42	936652	24
37	061551	18-13	997098	-24	064453	18-37	935547	23
38	062639	18-08	997083	-25	065556	18-33	934444	22
39	063724	18-04	997068	-25	066655	18-28	933345	21
40	064806	17-99	997053	-25	067752	18-24	932248	20
41	9-065885	17-94	9-997039	-25	9-068846	18-19	10-931154	19
42	066962	17-90	997024	-25	069938	18-15	930062	18
43	068036	17-86	997009	-25	071027	18-10	928973	17
44	069107	17-81	996994	-25	072113	18-06	927887	16
45	070176	17-77	996979	-25	073197	18-02	926803	15
46	071242	17-72	996964	-25	074278	17-97	925722	14
47	072306	17-68	996949	-25	075356	17-93	924644	13
48	073366	17-63	996934	-25	076432	17-89	923568	12
49	074424	17-59	996919	-25	077505	17-84	922495	11
50	075480	17-55	996904	-25	078576	17-80	921424	10
51	9-076533	17-50	9-996889	-25	9-079644	17-76	10-920356	9
52	077583	17-46	996874	-25	080710	17-72	919290	8
53	078631	17-42	996858	-25	081773	17-67	918227	7
54	079676	17-38	996843	-25	082833	17-63	917167	6
55	080719	17-33	996828	-25	083891	17-59	916109	5
56	081759	17-29	996812	-26	084947	17-55	915053	4
57	082797	17-25	996797	-26	086000	17-51	914000	3
58	083832	17-21	996782	-26	087050	17-47	912950	2
59	084864	17-17	996766	-26	088098	17-43	911902	1
60	085894	17-13	996751	-26	089144	17-38	910856	0
	Cosine	D.	Sine	83°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	9-085894	17-13	9-996751	-26	9-089144	17-38	10-910856	60
1	086922	17-09	996735	-26	090187	17-34	909813	59
2	087947	17-04	996720	-26	091228	17-30	908772	58
3	088970	17-00	996704	-26	092266	17-27	907734	57
4	089990	16-96	996688	-26	093302	17-22	906698	56
5	091008	16-92	996673	-26	094336	17-19	905664	55
6	092024	16-88	996657	-26	095367	17-15	904633	54
7	093037	16-84	996641	-26	096395	17-11	903605	53
8	094047	16-80	996625	-26	097422	17-07	902578	52
9	095056	16-76	996610	-26	098446	17-03	901554	51
10	096062	16-73	996594	-26	099468	16-99	900532	50
11	9-097065	16-68	9-996578	-27	9-100487	16-95	10-899513	49
12	098066	16-65	996562	-27	101504	16-91	898496	48
13	099065	16-61	996546	-27	102519	16-87	897481	47
14	100062	16-57	996530	-27	103532	16-84	896468	46
15	101056	16-53	996514	-27	104542	16-80	895458	45
16	102048	16-49	996498	-27	105550	16-76	894450	44
17	103037	16-45	996482	-27	106556	16-72	893444	43
18	104023	16-41	996465	-27	107559	16-69	892441	42
19	105010	16-38	996449	-27	108560	16-65	891440	41
20	105992	16-34	996433	-27	109559	16-61	890441	40
21	9-106973	16-30	9-996417	-27	9-110556	16-58	10-889444	39
22	107951	16-27	996400	-27	111551	16-54	888449	38
23	108927	16-23	996384	-27	112543	16-50	887457	37
24	109901	16-19	996368	-27	113533	16-46	886467	36
25	110873	16-16	996351	-27	114521	16-43	885479	35
26	111842	16-12	996335	-27	115507	16-39	884493	34
27	112809	16-08	996318	-27	116491	16-36	883509	33
28	113774	16-05	996302	-28	117472	16-32	882528	32
29	114737	16-01	996285	-28	118452	16-29	881548	31
30	115698	15-97	996269	-28	119429	16-25	880571	30
31	9-116656	15-94	9-996252	-28	9-120404	16-22	10-879596	29
32	117613	15-90	996235	-28	121377	16-18	878623	28
33	118567	15-87	996219	-28	122348	16-15	877652	27
34	119519	15-83	996202	-28	123317	16-11	876683	26
35	120469	15-80	996185	-28	124284	16-07	875716	25
36	121417	15-76	996168	-28	125249	16-04	874751	24
37	122362	15-73	996151	-28	126211	16-01	873789	23
38	123306	15-69	996134	-28	127172	15-97	872828	22
39	124248	15-66	996117	-28	128130	15-94	871870	21
40	125187	15-62	996100	-28	129087	15-91	870913	20
41	9-126125	15-59	9-996083	-29	9-130041	15-87	10-869959	19
42	127060	15-56	996066	-29	130994	15-84	869006	18
43	127993	15-52	996049	-29	131944	15-81	868056	17
44	128925	15-49	996032	-29	132893	15-77	867107	16
45	129854	15-45	996015	-29	133839	15-74	866161	15
46	130781	15-42	995998	-29	134784	15-71	865216	14
47	131706	15-39	995980	-29	135726	15-67	864274	13
48	132630	15-35	995963	-29	136667	15-64	863333	12
49	133551	15-32	995946	-29	137605	15-61	862395	11
50	134470	15-29	995928	-29	138542	15-58	861458	10
51	9-135387	15-25	9-995911	-29	9-139476	15-55	10-860524	9
52	136303	15-22	995894	-29	140409	15-51	859591	8
53	137216	15-19	995876	-29	141340	15-48	858660	7
54	138128	15-16	995859	-29	142269	15-45	857731	6
55	139037	15-12	995841	-29	143196	15-42	856804	5
56	139944	15-09	995823	-29	144121	15-39	855879	4
57	140850	15-06	995806	-29	145044	15-35	854956	3
58	141754	15-03	995788	-29	145966	15-32	854034	2
59	142655	15-00	995771	-29	146885	15-29	853115	1
60	143555	14-96	995753	-29	147803	15-26	852197	0
	Cosine	D.	Sine	82°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	
0	9.143555	14.96	9.995753	.30	9.147803	15.26	10.852197	6e
1	144453	14.93	995735	.30	148718	15.23	851282	59
2	145349	14.90	995717	.30	149632	15.20	850368	58
3	146243	14.87	995699	.30	150344	15.17	849456	57
4	147136	14.84	995681	.30	151454	15.14	848546	56
5	148026	14.81	995664	.30	152363	15.11	847637	55
6	148915	14.78	995646	.30	153269	15.08	846731	54
7	149802	14.75	995628	.30	154174	15.05	845826	53
8	150686	14.72	995610	.30	155077	15.02	844923	52
9	151569	14.69	995591	.30	155978	14.99	844022	51
10	152451	14.66	995573	.30	156877	14.96	843123	50
11	9.153330	14.63	9.995555	.30	9.157773	14.93	10.842225	49
12	154208	14.60	995537	.30	158671	14.90	841329	48
13	155083	14.57	995519	.30	159565	14.87	840435	47
14	155957	14.54	995501	.31	160457	14.84	839543	46
15	156830	14.51	995482	.31	161347	14.81	838653	45
16	157700	14.48	995464	.31	162236	14.79	837764	44
17	158569	14.45	995446	.31	163123	14.76	836877	43
18	159435	14.42	995427	.31	164008	14.73	835992	42
19	160301	14.39	995409	.31	164892	14.70	835108	41
20	161164	14.36	995390	.31	165774	14.67	834226	40
21	9.162025	14.33	9.995372	.31	9.166654	14.64	10.833346	39
22	162885	14.30	995353	.31	167532	14.61	832468	38
23	163743	14.27	995334	.31	168409	14.58	831591	37
24	164600	14.24	995316	.31	169284	14.55	830716	36
25	165454	14.22	995297	.31	170157	14.53	829843	35
26	166307	14.19	995278	.31	171029	14.50	828971	34
27	167159	14.16	995260	.31	171899	14.47	828101	33
28	168008	14.13	995241	.32	172767	14.44	827233	32
29	168856	14.10	995222	.32	173634	14.42	826366	31
30	169702	14.07	995203	.32	174499	14.39	825501	30
31	9.170547	14.05	9.995184	.32	9.175362	14.36	10.824638	29
32	171359	14.02	995165	.32	176224	14.33	823776	28
33	172230	13.99	995146	.32	177084	14.31	822916	27
34	173070	13.96	995127	.32	177942	14.28	822058	26
35	173908	13.94	995108	.32	178799	14.25	821201	25
36	174744	13.91	995089	.32	179653	14.23	820345	24
37	175578	13.88	995070	.32	180508	14.20	819492	23
38	176411	13.86	995051	.32	181360	14.17	818640	22
39	177242	13.83	995032	.32	182211	14.15	817789	21
40	178072	13.80	995013	.32	183059	14.12	816941	20
41	9.178900	13.77	9.994993	.32	9.183907	14.09	10.816093	19
42	179726	13.74	994974	.32	184752	14.07	815248	18
43	180551	13.72	994955	.32	185597	14.04	814403	17
44	181374	13.69	994935	.32	186439	14.02	813561	16
45	182196	13.66	994916	.33	187280	13.99	812720	15
46	183016	13.64	994896	.33	188120	13.96	811880	14
47	183834	13.61	994877	.33	188958	13.93	811042	13
48	184651	13.59	994857	.33	189794	13.91	810206	12
49	185466	13.56	994838	.33	190629	13.89	809371	11
50	186286	13.53	994818	.33	191462	13.86	808538	10
51	9.187092	13.51	9.994798	.33	9.192294	13.84	10.807706	9
52	187903	13.48	994779	.33	193124	13.81	806876	8
53	188712	13.46	994759	.33	193953	13.79	806047	7
54	189519	13.43	994739	.33	194780	13.76	805220	6
55	190325	13.41	994719	.33	195606	13.74	804394	5
56	191130	13.38	994700	.33	196430	13.71	803570	4
57	191933	13.36	994680	.33	197253	13.69	802747	3
58	192734	13.33	994660	.33	198074	13.66	801926	2
59	193534	13.30	994640	.33	198894	13.64	801106	1
60	194332	13.28	994620	.33	199713	13.61	800287	0

Cosine D. Sine 81° Cotang. D. Tang. M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	
0	9.194332	13.28	9.994620	.33	9.199713	13.61	10.800287	60
1	195129	13.26	994600	.33	200529	13.59	799471	59
2	195925	13.23	994580	.33	201345	13.56	798655	58
3	196719	13.21	994560	.34	202159	13.54	797841	57
4	197511	13.18	994540	.34	202971	13.52	797029	56
5	198302	13.16	994519	.34	203782	13.49	796218	55
6	199091	13.13	994499	.34	204592	13.47	795408	54
7	199879	13.11	994479	.34	205400	13.45	794600	53
8	200666	13.08	994459	.34	206207	13.42	793793	52
9	201451	13.06	994438	.34	207013	13.40	792987	51
10	202234	13.04	994418	.34	207817	13.38	792183	50
11	9.203017	13.01	9.994397	.34	9.208619	13.35	10.791381	49
12	203797	12.99	994377	.34	209420	13.33	790580	48
13	204577	12.96	994357	.34	210220	13.31	789780	47
14	205354	12.94	994336	.34	211018	13.28	788982	46
15	206131	12.92	994316	.34	211815	13.26	788185	45
16	206906	12.89	994295	.34	212611	13.24	787389	44
17	207679	12.87	994274	.35	213405	13.21	786595	43
18	208452	12.85	994254	.35	214198	13.19	785802	42
19	209222	12.82	994233	.35	214989	13.17	785011	41
20	209992	12.80	994212	.35	215780	13.15	784220	40
21	9.210760	12.78	9.994191	.35	9.216568	13.12	10.783432	39
22	211526	12.75	994171	.35	216566	13.10	782644	38
23	212291	12.73	994150	.35	217442	13.08	781858	37
24	213055	12.71	994129	.35	218326	13.05	781074	36
25	213818	12.68	994108	.35	219210	13.03	780290	35
26	214579	12.66	994087	.35	220092	13.01	779508	34
27	215338	12.64	994066	.35	220972	12.99	778728	33
28	216097	12.61	994045	.35	221852	12.97	777948	32
29	216854	12.59	994024	.35	222730	12.94	777170	31
30	217609	12.57	994003	.35	223606	12.92	776394	30
31	9.218363	12.55	9.993981	.35	9.224382	12.90	10.775618	29
32	219116	12.53	993960	.35	225456	12.88	774844	28
33	219868	12.50	993939	.35	226329	12.86	774071	27
34	220618	12.48	993918	.35	227200	12.84	773300	26
35	221367	12.46	993896	.36	228069	12.81	772529	25
36	222115	12.44	993875	.36	228939	12.79	771761	24
37	222861	12.42	993854	.36	229807	12.77	770993	23
38	223606	12.39	993832	.36	230673	12.75	770227	22
39	224349	12.37	993811	.36	231539	12.73	769461	21
40	225092	12.35	993789	.36	232402	12.71	768698	20
41	9.225833	12.33	9.993768	.36	9.232065	12.69	10.767935	19
42	226573	12.31	993746	.36	232826	12.67	767174	18
43	227311	12.28	993725	.36	233686	12.65	766414	17
44	228048	12.26	993703	.36	234545	12.62	765655	16
45	228784	12.24	993681	.36	235403	12.60	764897	15
46	229518	12.22	993660	.36	236259	12.58	764141	14
47	230252	12.20	993638	.36	237114	12.56	763386	13
48	230988	12.18	993616	.36	237968	12.54	762632	12
49	231714	12.16	993594	.37	238820	12.52	761880	11
50	232444	12.14	993572	.37	239672	12.50	761128	10
51	9.233172	12.12	9.993550	.37	9.239622	12.48	10.760378	9
52	233899	12.09	993528	.37	240521	12.46	759629	8
53	234625	12.07	993506	.37	241418	12.44	758882	7
54	235349	12.05	993484	.37	242313	12.42	758135	6
55	236073	12.03	993462	.37	243206	12.40	757390	5
56	236795	12.01	993440	.37	244097	12.38	756646	4
57	237515	11.99	993418	.37	244997	12.36	755903	3
58	238235	11.97	993396	.37	245893	12.34	755161	2
59	238953	11.95	993374	.37	246787	12.32	754421	1
60	239670	11.93	993351	.37	247679	12.30	753681	0

Cosine D. Sine 80° Cotang. D. Tang. M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	9.236670	11.93	9.993351	-37	9.246319	12.30	10.753681	6c
1	246386	11.91	993329	-37	247057	12.28	752943	59
2	241101	11.89	993307	-37	247794	12.26	752206	58
3	241814	11.87	993285	-37	248530	12.24	751470	57
4	242526	11.85	993262	-37	249264	12.22	750736	56
5	243237	11.83	993240	-37	249998	12.20	750002	55
6	243947	11.81	993217	-38	250730	12.18	749270	54
7	244656	11.79	993195	-38	251461	12.17	748539	53
8	245363	11.77	993172	-38	252191	12.15	747809	52
9	246069	11.75	993149	-38	252920	12.13	747080	51
10	246775	11.73	993127	-38	253648	12.11	746352	50
11	9.247478	11.71	9.993104	-38	9.254374	12.09	10.745626	49
12	248181	11.69	993081	-38	255100	12.07	744900	48
13	248883	11.67	993059	-38	255824	12.05	744176	47
14	249583	11.65	993036	-38	256547	12.03	743453	46
15	250282	11.63	993013	-38	257269	12.01	742731	45
16	250980	11.61	992990	-38	257990	12.00	742010	44
17	251677	11.59	992967	-38	258710	11.98	741290	43
18	252373	11.58	992944	-38	259429	11.96	740571	42
19	253067	11.56	992921	-38	260146	11.94	739854	41
20	253761	11.54	992898	-38	260863	11.92	739137	40
21	9.254453	11.52	9.992875	-38	9.261578	11.90	10.738422	39
22	255144	11.50	992852	-38	262292	11.89	737708	38
23	255834	11.48	992829	-39	263005	11.87	736995	37
24	256523	11.46	992806	-39	263717	11.85	736283	36
25	257211	11.44	992783	-39	264428	11.83	735572	35
26	257898	11.42	992759	-39	265138	11.81	734862	34
27	258583	11.41	992736	-39	265847	11.79	734153	33
28	259268	11.39	992713	-39	266555	11.78	733445	32
29	259951	11.37	992690	-39	267261	11.76	732739	31
30	260633	11.35	992666	-39	267967	11.74	732033	30
31	9.261314	11.33	9.992643	-39	9.268671	11.72	10.731329	29
32	261994	11.31	992619	-39	268675	11.70	730625	28
33	262673	11.30	992596	-39	269375	11.69	729923	27
34	263351	11.28	992572	-39	270079	11.67	729221	26
35	264027	11.26	992549	-39	270779	11.65	728521	25
36	264703	11.24	992525	-39	271479	11.64	727822	24
37	265377	11.22	992501	-39	272178	11.62	727124	23
38	266051	11.20	992478	-40	272876	11.60	726427	22
39	266723	11.19	992454	-40	273573	11.58	725731	21
40	267395	11.17	992430	-40	274269	11.57	725036	20
41	9.268065	11.15	9.992406	-40	9.275558	11.55	10.724342	19
42	268734	11.13	992382	-40	275351	11.53	723649	18
43	269402	11.11	992359	-40	276043	11.51	722957	17
44	270069	11.10	992335	-40	276734	11.50	722266	16
45	270735	11.08	992311	-40	277424	11.48	721576	15
46	271400	11.06	992287	-40	278113	11.47	720887	14
47	272064	11.05	992263	-40	278801	11.45	720199	13
48	272726	11.03	992239	-40	279488	11.43	719512	12
49	273388	11.01	992214	-40	280174	11.41	718826	11
50	274049	10.99	992190	-40	280858	11.40	718142	10
51	9.274708	10.98	9.992166	-40	9.282542	11.38	10.717458	9
52	275367	10.96	992142	-40	283225	11.36	716775	8
53	276024	10.94	992117	-41	283907	11.35	716093	7
54	276681	10.92	992093	-41	284588	11.33	715412	6
55	277337	10.91	992069	-41	285268	11.31	714732	5
56	277991	10.89	992044	-41	285947	11.30	714053	4
57	278644	10.87	992020	-41	286624	11.28	713376	3
58	279297	10.86	991996	-41	287301	11.26	712699	2
59	279948	10.84	991971	-41	287977	11.25	712023	1
60	280599	10.82	991947	-41	288652	11.23	711348	0
	Cosine	D.	Sine	79°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	9.280599	10.82	9.991947	-41	9.288652	11.23	10.711348	60
1	281248	10.81	991922	-41	289326	11.22	710674	59
2	281897	10.79	991897	-41	289999	11.20	710001	58
3	282544	10.77	991873	-41	290671	11.18	709329	57
4	283190	10.76	991848	-41	291342	11.17	708658	56
5	283836	10.74	991823	-41	292013	11.15	707987	55
6	284480	10.72	991799	-41	292682	11.14	707318	54
7	285124	10.71	991774	-42	293350	11.12	706650	53
8	285766	10.69	991749	-42	294017	11.11	705983	52
9	286408	10.67	991724	-42	294684	11.09	705316	51
10	287048	10.66	991699	-42	295349	11.07	704651	50
11	9.287687	10.64	9.991674	-42	9.296013	11.06	10.703987	49
12	288286	10.63	991649	-42	295677	11.04	703323	48
13	288964	10.61	991624	-42	296339	11.03	702661	47
14	289600	10.59	991599	-42	296999	11.01	701999	46
15	290236	10.58	991574	-42	297656	11.00	701338	45
16	290870	10.56	991549	-42	298312	10.98	700678	44
17	291504	10.54	991524	-42	298968	10.96	700020	43
18	292137	10.53	991498	-42	299623	10.95	699362	42
19	292768	10.51	991473	-42	300275	10.93	698705	41
20	293399	10.50	991448	-42	300925	10.92	698049	40
21	9.294029	10.48	9.991422	-42	9.302607	10.90	10.697393	39
22	294658	10.46	991397	-42	303261	10.89	696739	38
23	295286	10.45	991372	-43	303914	10.87	696086	37
24	295913	10.43	991346	-43	304567	10.86	695433	36
25	296539	10.42	991321	-43	305218	10.84	694782	35
26	297164	10.40	991295	-43	305869	10.83	694131	34
27	297788	10.39	991270	-43	306519	10.81	693481	33
28	298412	10.37	991244	-43	307168	10.80	692832	32
29	299034	10.36	991218	-43	307815	10.78	692185	31
30	299655	10.34	991193	-43	308463	10.77	691537	30
31	9.300276	10.32	9.991167	-43	9.309109	10.75	10.690891	29
32	300895	10.31	991141	-43	309754	10.74	690246	28
33	301514	10.29	991115	-43	310398	10.73	689600	27
34	302132	10.28	991090	-43	311042	10.71	688958	26
35	302748	10.26	991064	-43	311685	10.70	688315	25
36	303364	10.25	991038	-43	312327	10.68	687673	24
37	303979	10.23	991012	-43	312969	10.67	687033	23
38	304593	10.22	990986	-43	313608	10.65	686392	22
39	305207	10.20	990960	-43	314247	10.64	685753	21
40	305819	10.19	990934	-44	314885	10.62	685115	20
41	9.306430	10.17	9.990908	-44	9.315523	10.61	10.684477	19
42	307041	10.16	990882	-44	316159	10.60	683841	18
43	307650	10.14	990855	-44	316795	10.58	683205	17
44	308259	10.13	990829	-44	317430	10.57	682570	16
45	308867	10.11	990803	-44	318064	10.55	681936	15
46	309474	10.10	990777	-44	318697	10.54	681303	14
47	310080	10.08	990750	-44	319329	10.53	680671	13
48	310685	10.07	990724	-44	319961	10.51	680039	12
49	311289	10.05	990697	-44	320592	10.50	679408	11
50	311893	10.04	990671	-44	321222	10.48	678778	10
51	9.312495	10.03	9.990644	-44	9.321851	10.47	10.678149	9
52	313097	10.01	990618	-44	322479	10.45	677521	8
53	313698	10.00	990591	-44	323106	10.44	676894	7
54	314297	9.98	990565	-44	323733	10.43	676267	6
55	314897	9.97	990538	-44	324358	10.41	675642	5
56	315495	9.96	990511	-45	324983	10.40	675017	4
57	316092	9.94	990485	-45	325607	10.39	674393	3
58	316689	9.93	990458	-45	326231	10.37	673769	2
59	317284	9.91	990431	-45	326853	10.36	673147	1
60	317879	9.90	990404	-45	327475	10.35	672525	0
	Cosine	D.	Sine	78°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	9.317879	9.00	9.990404	.45	9.327474	10.35	10.672526	60
1	318473	9.88	990378	.45	328095	10.33	671905	59
2	319066	9.87	990351	.45	328715	10.32	671285	58
3	319658	9.86	990324	.45	329334	10.30	670666	57
4	320249	9.84	990297	.45	329953	10.29	670047	56
5	320840	9.83	990270	.45	330570	10.28	669430	55
6	321430	9.82	990243	.45	331187	10.26	668813	54
7	322019	9.80	990215	.45	331803	10.25	668197	53
8	322607	9.79	990188	.45	332418	10.24	667582	52
9	323194	9.77	990161	.45	333033	10.23	666967	51
10	323780	9.76	990134	.45	333646	10.21	666354	50
11	9.324366	9.75	9.990107	.46	9.334259	10.20	10.665741	49
12	324950	9.73	990079	.46	334871	10.19	665129	48
13	325534	9.72	990052	.46	335482	10.17	664518	47
14	326117	9.70	990025	.46	336093	10.16	663907	46
15	326700	9.69	989997	.46	336702	10.15	663298	45
16	327281	9.68	989970	.46	337311	10.13	662689	44
17	327862	9.66	989942	.46	337919	10.12	662081	43
18	328442	9.65	989915	.46	338527	10.11	661473	42
19	329021	9.64	989887	.46	339133	10.10	660867	41
20	329599	9.62	989860	.46	339739	10.08	660261	40
21	9.330176	9.61	9.989832	.46	9.340344	10.07	10.659656	39
22	330753	9.60	989804	.46	340948	10.06	659052	38
23	331322	9.58	989777	.46	341552	10.04	658448	37
24	331903	9.57	989749	.47	342155	10.03	657845	36
25	332478	9.56	989721	.47	342757	10.02	657243	35
26	333051	9.54	989693	.47	343358	10.00	656642	34
27	333624	9.53	989665	.47	343958	9.99	656042	33
28	334195	9.52	989637	.47	344558	9.98	655442	32
29	334766	9.50	989609	.47	345157	9.97	654843	31
30	335337	9.49	989582	.47	345755	9.96	654245	30
31	9.335906	9.48	9.989553	.47	9.346353	9.94	10.653647	29
32	336475	9.46	989525	.47	346949	9.93	653051	28
33	337043	9.45	989497	.47	347545	9.92	652455	27
34	337610	9.44	989469	.47	348141	9.91	651859	26
35	338176	9.43	989441	.47	348735	9.90	651265	25
36	338742	9.41	989413	.47	349329	9.88	650671	24
37	339306	9.40	989384	.47	349922	9.87	650078	23
38	339871	9.39	989356	.47	350514	9.86	649486	22
39	340434	9.37	989328	.47	351106	9.85	648894	21
40	340996	9.36	989300	.47	351697	9.83	648303	20
41	9.341558	9.35	9.989271	.47	9.352287	9.82	10.647713	19
42	342119	9.34	989243	.47	352876	9.81	647124	18
43	342679	9.32	989214	.47	353465	9.80	646535	17
44	343239	9.31	989186	.47	354053	9.79	645947	16
45	343797	9.30	989157	.47	354640	9.77	645360	15
46	344355	9.29	989128	.48	355227	9.76	644773	14
47	344912	9.27	989100	.48	355813	9.75	644187	13
48	345469	9.26	989071	.48	356398	9.74	643602	12
49	346024	9.25	989042	.48	356982	9.73	643018	11
50	346579	9.24	989014	.48	357566	9.71	642434	10
51	9.347134	9.22	9.988985	.48	9.358149	9.70	10.641851	9
52	347687	9.21	988956	.48	358731	9.69	641869	8
53	348240	9.20	988927	.48	359313	9.68	640687	7
54	348792	9.19	988898	.48	359893	9.67	640107	6
55	349343	9.17	988869	.48	360474	9.66	639526	5
56	349893	9.16	988840	.48	361053	9.65	638947	4
57	350443	9.15	988811	.49	361632	9.63	638368	3
58	350992	9.14	988782	.49	362210	9.62	637790	2
59	351540	9.13	988753	.49	362787	9.61	637211	1
60	352088	9.11	988724	.49	363364	9.60	636636	0
	Cosine	D.	Sine	77°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	9.352088	9.11	9.988724	.49	9.363364	9.60	10.636636	60
1	352635	9.10	988695	.49	363940	9.59	636060	59
2	353181	9.09	988666	.49	364515	9.58	635485	58
3	353726	9.08	988636	.49	365090	9.57	634910	57
4	354271	9.07	988607	.49	365664	9.55	634336	56
5	354815	9.05	988578	.49	366237	9.54	633763	55
6	355358	9.04	988548	.49	366810	9.53	633190	54
7	355901	9.03	988519	.49	367382	9.52	632618	53
8	356443	9.02	988489	.49	367953	9.51	632047	52
9	356984	9.01	988460	.49	368524	9.50	631476	51
10	357524	8.99	988430	.49	369094	9.49	630906	50
11	9.358064	8.98	9.988401	.49	9.369663	9.48	10.630337	49
12	358603	8.97	988371	.49	370232	9.40	629768	48
13	359141	8.96	988342	.49	370799	9.45	629201	47
14	359678	8.95	988312	.50	371367	9.44	628633	46
15	360215	8.93	988282	.50	371933	9.43	628067	45
16	360752	8.92	988252	.50	372499	9.42	627501	44
17	361287	8.91	988223	.50	373064	9.41	626936	43
18	361822	8.90	988193	.50	373629	9.40	626371	42
19	362356	8.89	988163	.50	374193	9.39	625807	41
20	362889	8.88	988133	.50	374756	9.38	625244	40
21	9.363422	8.87	9.988103	.50	9.375319	9.37	10.624681	39
22	363954	8.85	988073	.50	375881	9.35	624119	38
23	364485	8.84	988043	.50	376442	9.34	623558	37
24	365016	8.83	988013	.50	377003	9.33	622997	36
25	365546	8.82	987983	.50	377563	9.32	622437	35
26	366075	8.81	987953	.50	378122	9.31	621878	34
27	366604	8.80	987922	.50	378681	9.30	621319	33
28	367131	8.79	987892	.50	379239	9.29	620761	32
29	367659	8.77	987862	.50	379797	9.28	620203	31
30	368185	8.76	987832	.51	380354	9.27	619646	30
31	9.368711	8.75	9.987801	.51	9.380910	9.26	10.619090	29
32	369236	8.74	987771	.51	381466	9.25	618534	28
33	369761	8.73	987740	.51	382020	9.24	617980	27
34	370285	8.72	987710	.51	382575	9.23	617425	26
35	370808	8.71	987679	.51	383129	9.22	616871	25
36	371330	8.70	987649	.51	383682	9.21	616318	24
37	371852	8.69	987618	.51	384234	9.20	615766	23
38	372373	8.67	987588	.51	384786	9.19	615214	22
39	372894	8.66	987557	.51	385337	9.18	614663	21
40	373414	8.65	987526	.51	385888	9.17	614112	20
41	9.373933	8.64	9.987496	.51	9.386438	9.15	10.613562	19
42	374452	8.63	987465	.51	386987	9.14	613013	18
43	374970	8.62	987434	.51	387536	9.13	612464	17
44	375487	8.61	987403	.52	388084	9.12	611916	16
45	376003	8.60	987372	.52	388631	9.11	611369	15
46	376519	8.59	987341	.52	389178	9.10	610822	14
47	377035	8.58	987310	.52	389724	9.09	610276	13
48	377549	8.57	987279	.52	390270	9.08	609730	12
49	378063	8.56	987248	.52	390815	9.07	609185	11
50	378577	8.54	987217	.52	391360	9.06	608640	10
51	9.379089	8.53	9.987186	.52	9.391903	9.05	10.608097	9
52	379601	8.52	987155	.52	392447	9.04	607553	8
53	380113	8.51	987124	.52	392989	9.03	607011	7
54	380624	8.50	987092	.52	393531	9.02	606469	6
55	381134	8.49	987061	.52	394073	9.01	605927	5
56	381643	8.48	987030	.52	394614	9.00	605386	4
57	382152	8.47	986998	.52	395154	8.99	604846	3
58	382661	8.46	986967	.52	395694	8.98	604306	2
59	383168	8.45	986936	.52	396233	8.97	603767	1
60	383675	8.44	986904	.52	396771	8.96	603229	0
	Cosine	D.	Sine	76°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	9.383675	8.44	9.986904	.52	9.396771	8.96	10.603229	60
1	384182	8.43	986873	.53	397309	8.96	602991	59
2	384687	8.42	986841	.53	397846	8.95	602154	58
3	385192	8.41	986809	.53	398383	8.94	601617	57
4	385697	8.40	986778	.53	398919	8.93	601081	56
5	386201	8.39	986746	.53	399455	8.92	600545	55
6	386704	8.38	986714	.53	399990	8.91	600010	54
7	387207	8.37	986683	.53	400524	8.90	599476	53
8	387709	8.36	986651	.53	401058	8.89	598942	52
9	388210	8.35	986619	.53	401591	8.88	598409	51
10	388711	8.34	986587	.53	402124	8.87	597876	50
11	9.389211	8.33	9.986555	.53	9.402656	8.86	10.597344	49
12	389711	8.32	986523	.53	403187	8.85	596813	48
13	390210	8.31	986491	.53	403718	8.84	596282	47
14	390708	8.30	986459	.53	404249	8.83	595751	46
15	391206	8.28	86427	.53	404778	8.82	595222	45
16	391703	8.27	986395	.53	405308	8.81	594692	44
17	392199	8.26	986363	.54	405836	8.80	594164	43
18	392695	8.25	986331	.54	406364	8.79	593636	42
19	393191	8.24	986299	.54	406892	8.78	593108	41
20	393685	8.23	986266	.54	407419	8.77	592581	40
21	9.394179	8.22	9.986234	.54	9.407945	8.76	10.592055	39
22	394673	8.21	986202	.54	408471	8.75	591529	38
23	395166	8.20	986169	.54	408997	8.74	591003	37
24	395658	8.19	986137	.54	409521	8.74	590479	36
25	396150	8.18	986104	.54	410045	8.73	589955	35
26	396641	8.17	986072	.54	410569	8.72	589431	34
27	397132	8.17	986039	.54	411092	8.71	588908	33
28	397621	8.16	986007	.54	411615	8.70	588385	32
29	398111	8.15	985974	.54	412137	8.69	587863	31
30	398600	8.14	985942	.54	412658	8.68	587342	30
31	9.399088	8.13	9.985909	.55	9.413179	8.67	10.586821	29
32	399575	8.12	985876	.55	413699	8.66	586831	28
33	400062	8.11	985843	.55	414219	8.65	586301	27
34	400549	8.10	985811	.55	414738	8.64	585781	26
35	401035	8.09	985778	.55	415257	8.64	585262	25
36	401520	8.08	985745	.55	415775	8.63	584743	24
37	402005	8.07	985712	.55	416293	8.62	584225	23
38	402489	8.06	985679	.55	416810	8.61	583707	22
39	402972	8.05	985646	.55	417326	8.60	583190	21
40	403455	8.04	985613	.55	417842	8.59	582674	20
41	9.403938	8.03	9.985580	.55	9.418358	8.58	10.581642	19
42	404420	8.02	985547	.55	418873	8.57	581127	18
43	404901	8.01	985514	.55	419387	8.56	580613	17
44	405382	8.00	985480	.55	419901	8.55	580099	16
45	405862	7.99	985447	.55	420415	8.55	579585	15
46	406341	7.98	985414	.56	420927	8.54	579073	14
47	406820	7.97	985380	.56	421440	8.53	578560	13
48	407299	7.96	985347	.56	421952	8.52	578048	12
49	407777	7.95	985314	.56	422463	8.51	577537	11
50	408254	7.94	985280	.56	422974	8.50	577026	10
51	9.408731	7.94	9.985247	.56	9.423484	8.49	10.576516	9
52	409207	7.93	985213	.56	423993	8.48	576507	8
53	409682	7.92	985180	.56	424503	8.48	575997	7
54	410157	7.91	985146	.56	425011	8.47	575489	6
55	410632	7.90	985113	.56	425519	8.46	574981	5
56	411106	7.89	985079	.56	426027	8.45	574473	4
57	411579	7.88	985045	.56	426534	8.44	573966	3
58	412052	7.87	985011	.56	427041	8.43	573459	2
59	412524	7.86	984978	.56	427547	8.43	572953	1
60	412996	7.85	984944	.56	428052	8.42	572448	0
	Cosine	D.	Sine	75°	Cotang.	D.	Tang.	M.

M.	Sine	D.	Cosine	D.	Tang.	D.	Cotang.	M.
0	9.412996	7.85	9.984944	.57	9.428052	8.42	10.571948	60
1	413467	7.84	984910	.57	428557	8.41	571443	59
2	413938	7.83	984876	.57	429062	8.40	570938	58
3	414408	7.83	984842	.57	429566	8.39	570434	57
4	414878	7.82	984808	.57	430070	8.38	569930	56
5	415347	7.81	984774	.57	430573	8.38	569427	55
6	415815	7.80	984740	.57	431075	8.37	568925	54
7	416283	7.79	984706	.57	431577	8.36	568423	53
8	416751	7.78	984672	.57	432079	8.35	567921	52
9	417217	7.77	984637	.57	432580	8.34	567420	51
10	417684	7.76	984603	.57	433080	8.33	566920	50
11	9.418150	7.75	9.984569	.57	9.433580	8.32	10.566420	49
12	418615	7.74	984535	.57	434080	8.32	565920	48
13	419079	7.73	984500	.57	434579	8.31	565421	47
14	419544	7.73	984466	.57	435078	8.30	564922	46
15	420007	7.72	984432	.58	435576	8.29	564424	45
16	420470	7.71	984397	.58	436073	8.28	563927	44
17	420933	7.70	984363	.58	436570	8.28	563430	43
18	421395	7.69	984328	.58	437067	8.27	562933	42
19	421857	7.68	984294	.58	437563	8.26	562437	41
20	422318	7.67	984259	.58	438059	8.25	561941	40
21	9.422778	7.67	9.984224	.58	9.438554	8.24	10.561446	39
22	423238	7.66	984190	.58	439048	8.23	560952	38
23	423697	7.65	984155	.58	439543	8.23	560457	37
24	424156	7.64	984120	.58	440036	8.22	559964	36
25	424615	7.63	984085	.58	440529	8.21	559471	35
26	425073	7.62	984050	.58	441022	8.20	558978	34
27	425530	7.61	984015	.58	441514	8.19	558486	33
28	425987	7.60	983981	.58	442006	8.19	557994	32
29	426443	7.60	983946	.58	442497	8.18	557503	31
30	426899	7.59	983911	.58	442988	8.17	557012	30
31	9.427354	7.58	9.983875	.58	9.443479	8.16	10.556521	29
32	427809	7.57	983840	.59	443968	8.16	556532	28
33	428263	7.56	983805	.59	444458	8.15	555542	27
34	428717	7.55	983770	.59	444947	8.14	554553	26
35	429170	7.54	983735	.59	445435	8.13	553565	25
36	429623	7.53	983700	.59	445923	8.12	552577	24
37	430075	7.52	983664	.59	446411	8.12	551589	23
38	430527	7.52	983629	.59	446898	8.11	551102	22
39	430978	7.51	983594	.59	447384	8.10	550616	21
40	431429	7.50	983558	.59	447870	8.09	550130	20
41	9.431879	7.49	9.983523	.59	9.448356	8.09	10.551644	19
42	432329	7.49	983487	.59	448841	8.08	551159	18
43	432778	7.48	983452	.59	449326	8.07	550674	17
44	433226	7.47	983416	.59	449810	8.06	550190	16
45	433675	7.46	983381	.59	450294	8.06	549706	15
46	434122	7.45	983345	.59	450777	8.05	549223	14
47	434569	7.44	983309	.59	451260	8.04	548740	13
48	435016	7.44	983273	.59	451743	8.03	548257	12
49	435462	7.43	983238	.60	452225	8.02	547775	11
50	435908	7.42	983202	.60	452706	8.02	547294	10
51	9.436353	7.41	9.983166	.60	9.453187	8.01	10.546813	9
52	436798	7.40	983130	.60	453668	8.00	546332	8
53	437242	7.40	983094	.60	454148	7.99	545852	7
54	437686	7.39	983058	.60	454628	7.99	545372	6
55	438129	7.38	983022	.60	455107	7.98	544893	5
56	438572	7.37	982986	.60	455586	7.97	544414	4
57	439014	7.36	982950	.60	456064	7.96	543936	3
58	439456	7.36	982914	.60	456542	7.96	543458	2
59	439897	7.35	982878	.60	457019	7.95	542981	1
60	440338	7.34	982842	.60	457496	7.94	542504	0
	Cosine	D.	Sine	74°	Cotang.	D.	Tang.	M.