x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
0	0	1	0	∞	1	∞
00° 00′ 10″	0.00004848	1.00000000	0.000048481	20626.48061	1.000000001	20626.48063
00° 00′ 20″	0.00009696	1.00000000	0.000096963	10313.24028	1.000000005	10313.24033
00° 00′ 30″	0.00014544	0.99999999	0.000145444	6875.493493	1.00000011	6875.493566
00° 00′ 40″	0.00019393	0.99999998	0.000193925	5156.620092	1.000000019	5156.620188
00° 00′ 50″	0.00024241	0.99999997	0.000242407	4125.296044	1.000000029	4125.296165
00° 01′ 00″	0.00029089	0.99999996	0.000290888	3437.746674	1.000000042	3437.746819
00° 01′ 10″	0.00033937	0.99999994	0.000339370	2946.639976	1.000000058	2946.640146
00° 01′ 20″	0.00038785	0.99999992	0.000387851	2578.309949	1.000000075	2578.310143
00° 01′ 30″	0.00043633	0.99999990	0.000436332	2291.831035	1.000000095	2291.831253
00° 01′ 40″	0.00048481	0.99999988	0.000484814	2062.647901	1.000000118	2062.648143
00° 01′ 50″	0.00053330	0.99999986	0.000533295	1875.134424	1.00000142	1875.134691
00° 02′ 00″	0.00058178	0.99999983	0.000581776	1718.873191	1.000000169	1718.873482
00° 02′ 10″	0.00063026	0.99999980	0.000630258	1586.652146	1.00000199	1586.652461
00° 02′ 20″	0.00067874	0.99999977	0.000678739	1473.319818	1.000000230	1473.320158
00° 02′ 30″	0.00072722	0.99999974	0.000727221	1375.098466	1.000000264	1375.098830
00° 02′ 40″	0.00077570	0.99999970	0.000775702	1289.154780	1.000000301	1289.155168
00° 02′ 50″	0.00082418	0.99999966	0.000824183	1213.322115	1.00000340	1213.322527
00° 03′ 00″	0.00087266	0.99999962	0.000872665	1145.915299	1.000000381	1145.915736
00° 03′ 10″	0.00092115	0.99999958	0.000921146	1085.603936	1.000000424	1085.604397
00° 03′ 20″	0.00096963	0.99999953	0.000969628	1031.323708	1.000000470	1031.324193
00° 03′ 30″	0.00101811	0.99999948	0.001018109	982.2130237	1.000000518	982.2135328
00° 03′ 40″	0.00106659	0.99999943	0.001066591	937.5669456	1.000000569	937.5674789
00° 03′ 50″	0.00111507	0.99999938	0.001115072	896.8031337	1.000000622	896.8036913
00° 04′ 00″	0.00116355	0.99999932	0.001163553	859.4363048	1.000000677	859.4368866
00° 04′ 10″	0.00121203	0.99999927	0.001212035	825.0588210	1.000000735	825.0594270
00° 04′ 20″	0.00126052	0.99999921	0.001260516	793.3257577	1.000000794	793.3263880
00° 04′ 30″	0.00130900	0.99999914	0.001308998	763.9432905	1.000000857	763.9439450
00° 04′ 40″	0.00135748	0.99999908	0.001357479	736.6595698	1.000000921	736.6602486
00° 04′ 50″	0.00140596	0.99999901	0.001405961	711.2574839	1.000000988	711.2581869
00° 05′ 00″	0.00145444	0.99999894	0.001454442	687.5488693	1.000001058	687.5495966
00° 05′ 10″	0.00150292	0.99999887	0.001502924	665.3698418	1.000001129	665.3705932
00° 05′ 20″	0.00155140	0.99999880	0.001551405	644.5770024	1.000001203	644.5777781
00° 05′ 30″	0.00159988	0.99999872	0.001599887	625.0443341	1.000001280	625.0451341
00° 05′ 40″	0.00164837	0.99999864	0.001648368	606.6606454	1.000001359	606.6614696
00° 05′ 50″	0.00169685	0.99999856	0.001696850	589.3274522	1.000001440	589.3283007
00° 06′ 00″	0.00174533	0.99999848	0.001745331	572.9572134	1.000001523	572.9580860
00° 06′ 10″	0.00179381	0.99999839	0.001793813	557.4718514	1.000001609	557.4727483
00° 06′ 20″	0.00184229	0.99999830	0.001842294	542.8015076	1.000001697	542.8024288
00° 06′ 30″	0.00189077	0.99999821	0.001890776	528.8834883	1.000001788	528.8844337
00° 06′ 40″	0.00193925	0.99999812	0.001939257	515.6613692	1.000001880	515.6623388
00° 06′ 50″	0.00198773	0.99999802	0.001987739	503.0842307	1.000001976	503.0852246
00° 07′ 00″	0.00203622	0.99999793	0.002036220	491.1060028	1.000002073	491.1070209
00° 07′ 10″	0.00208470	0.99999783	0.002084702	479.6849010	1.000002173	479.6859434
00° 07′ 20″	0.00213318	0.99999772	0.002133183	468.7829395	1.000002275	468.7840061
00° 07′ 30″	0.00218166	0.99999762	0.002181665	458.3655089	1.000002380	458.3665997
00° 07′ 40″	0.00223014	0.99999751	0.002230147	448.4010093	1.000002487	448.4021244
00° 07′ 50″	0.00227862	0.99999740	0.002278628	438.8605303	1.000002596	438.8616697

00° 07′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
00° 08′ 00″	0.00232710	0.99999729	0.002327110	429.7175706	1.000002708	429.7187342
00° 08′ 10″	0.00237558	0.99999718	0.002375592	420.9477923	1.000002822	420.9489801
00° 08′ 20″	0.00242407	0.99999706	0.002424073	412.5288045	1.000002938	412.5300165
00° 08′ 30″	0.00247255	0.99999694	0.002472555	404.4399724	1.000003057	404.4412087
00° 08′ 40″	0.00252103	0.99999682	0.002521036	396.6622486	1.000003178	396.6635091
00° 08′ 50″	0.00256951	0.99999670	0.002569518	389.1780232	1.000003301	389.1793080
00° 09′ 00″	0.00261799	0.99999657	0.002618000	381.9709908	1.000003427	381.9722998
00° 09′ 10″	0.00266647	0.99999644	0.002666482	375.0260316	1.000003555	375.0273649
00° 09′ 20″	0.00271495	0.99999631	0.002714963	368.3291062	1.000003686	368.3304636
00° 09′ 30″	0.00276343	0.99999618	0.002763445	361.8671600	1.000003818	361.8685417
00° 09′ 40″	0.00281192	0.99999605	0.002811927	355.6280390	1.000003953	355.6294449
00° 09′ 50″	0.00286040	0.99999591	0.002860409	349.6004131	1.000004091	349.6018433
00° 10′ 00″	0.00290888	0.99999577	0.002908890	343.7737075	1.000004231	343.7751619
00° 10′ 10″	0.00295736	0.99999563	0.002957372	338.1380408	1.000004373	338.1395195
00° 10′ 20″	0.00300584	0.99999548	0.003005854	332.6841694	1.000004518	332.6856723
00° 10′ 30″	0.00305432	0.99999534	0.003054336	327.4034363	1.000004664	327.4049634
00° 10′ 40″	0.00310280	0.99999519	0.003102818	322.2877255	1.000004814	322.2892769
00° 10′ 50″	0.00315128	0.99999503	0.003151299	317.3294207	1.000004965	317.3309964
00° 11′ 00″	0.00319976	0.99999488	0.003199781	312.5213671	1.000005119	312.5229670
00° 11′ 10″	0.00324825	0.99999472	0.003248263	307.8568370	1.000005276	307.8584611
00° 11′ 20″	0.00329673	0.99999457	0.003296745	303.3294985	1.000005434	303.3311469
00° 11′ 30″	0.00334521	0.99999440	0.003345227	298.9333867	1.000005595	298.9350593
00° 11′ 40″	0.00339369	0.99999424	0.003393709	294.6628777	1.000005759	294.6645745
00° 11′ 50″	0.00344217	0.99999408	0.003442191	290.5126642	1.000005924	290.5143853
00° 12′ 00″	0.00349065	0.99999391	0.003490673	286.4777340	1.000006092	286.4794793
00° 12′ 10″	0.00353913	0.99999374	0.003539155	282.5533494	1.000006263	282.5551190
00° 12′ 20″	0.00358761	0.99999356	0.003587637	278.7350288	1.000006436	278.7368226
00° 12′ 30″	0.00363609	0.99999339	0.003636119	275.0185296	1.000006611	275.0203477
00° 12′ 40″	0.00368458	0.99999321	0.003684601	271.3998327	1.000006788	271.4016749
00° 12′ 50″	0.00373306	0.99999303	0.003733083	267.8751274	1.000006968	267.8769939
00° 13′ 00″	0.00378154	0.99999285	0.003781565	264.4407988	1.000007150	264.4426895
00° 13′ 10″	0.00383002	0.99999267	0.003830047	261.0934148	1.000007335	261.0953298
00° 13′ 20″	0.00387850	0.99999248	0.003878529	257.8297150	1.000007521	257.8316542
00° 13′ 30″	0.00392698	0.99999229	0.003927011	254.6465999	1.000007711	254.6485634
00° 13′ 40″	0.00397546	0.99999210	0.003975493	251.5411215	1.000007902	251.5431092
00° 13′ 50″	0.00402394	0.99999190	0.004023975	248.5104734	1.000008096	248.5124854
00° 14′ 00″	0.00407242	0.99999171	0.004072457	245.5519833	1.000008292	245.5540195
00° 14′ 10″	0.00412090	0.99999151	0.004120940	242.6631043	1.000008491	242.6651648
00° 14′ 20″	0.00416939	0.99999131	0.004169422	239.8414082	1.000008692	239.8434929
00° 14′ 30″	0.00421787	0.99999110	0.004217904	237.0845782	1.000008895	237.0866872
00° 14′ 40″	0.00426635	0.99999090	0.004266386	234.3904032	1.000009101	234.3925363
00° 14′ 50″	0.00431483	0.99999069	0.004314869	231.7567710	1.000009309	231.7589284
00° 15′ 00″	0.00436331	0.99999048	0.004363351	229.1816636	1.000009519	229.1838453
00° 15′ 10″	0.00441179	0.99999027	0.004411833	226.6631516	1.000009732	226.6653576
00° 15′ 20″	0.00446027	0.99999005	0.004460315	224.1993896	1.000009947	224.2016197
00° 15′ 30″	0.00450875	0.99998984	0.004508798	221.7886113	1.000010165	221.7908657
00° 15′ 40″ 00° 15′ 50″	0.00455723	0.99998962	0.004557280	219.4291259	1.000010384	219.4314045
00 15 50"	0.00460571	0.77770737	0.004605763	217.1193134	1.000010606	217.1216163

00° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
00° 16′ 00″	0.00465419	0.99998917	0.004654245	214.8576218	1.000010831	214.8599489
00° 16′ 10″	0.00470268	0.99998894	0.004702727	212.6425626	1.000011058	212.6449139
00° 16′ 20″	0.00475116	0.99998871	0.004751210	210.4727084	1.000011287	210.4750840
00° 16′ 30″	0.00479964	0.99998848	0.004799692	208.3466893	1.000011518	208.3490891
00° 16′ 40″	0.00484812	0.99998825	0.004848175	206.2631902	1.000011752	206.2656143
00° 16′ 50″	0.00489660	0.99998801	0.004896657	204.2209482	1.000011989	204.2233965
00° 17′ 00″	0.00494508	0.99998777	0.004945140	202.2187499	1.000012227	202.2212225
00° 17′ 10″	0.00499356	0.99998753	0.004993622	200.2554289	1.000012468	200.2579257
00° 17′ 20″	0.00504204	0.99998729	0.005042105	198.3298638	1.000012711	198.3323848
00° 17′ 30″	0.00509052	0.99998704	0.005090588	196.4409758	1.000012957	196.4435210
00° 17′ 40″	0.00513900	0.99998680	0.005139070	194.5877268	1.000013205	194.5902964
00° 17′ 50″	0.00518748	0.99998654	0.005187553	192.7691178	1.000013455	192.7717115
00° 18′ 00″	0.00523596	0.99998629	0.005236036	190.9841864	1.000013708	190.9868044
00° 18′ 10″	0.00528444	0.99998604	0.005284518	189.2320057	1.000013963	189.2346479
00° 18′ 20″	0.00533293	0.99998578	0.005333001	187.5116826	1.000014220	187.5143491
00° 18′ 30″	0.00538141	0.99998552	0.005381484	185.8223560	1.000014480	185.8250467
00° 18′ 40″	0.00542989	0.99998526	0.005429967	184.1631956	1.000014742	184.1659106
00° 18′ 50″	0.00547837	0.99998499	0.005478449	182.5334006	1.000015007	182.5361398
00° 19′ 00″	0.00552685	0.99998473	0.005526932	180.9321983	1.000015273	180.9349617
00° 19′ 10″	0.00557533	0.99998446	0.005575415	179.3588426	1.000015543	179.3616303
00° 19′ 20″	0.00562381	0.99998419	0.005623898	177.8126135	1.000015814	177.8154255
00° 19′ 30″	0.00567229	0.99998391	0.005672381	176.2928154	1.000016088	176.2956516
00° 19′ 40″	0.00572077	0.99998364	0.005720864	174.7987763	1.000016364	174.8016367
00° 19′ 50″	0.00576925	0.99998336	0.005769347	173.3298469	1.000016643	173.3327315
00° 20′ 00″	0.00581773	0.99998308	0.005817830	171.8853993	1.000016923	171.8883082
00° 20′ 10″	0.00586621	0.99998279	0.005866313	170.4648266	1.000017207	170.4677597
00° 20′ 20″	0.00591469	0.99998251	0.005914796	169.0675417	1.000017492	169.0704991
00° 20′ 30″	0.00596317	0.99998222	0.005963279	167.6929767	1.000017780	167.6959583
00° 20′ 40″	0.00601165	0.99998193	0.006011762	166.3405818	1.000018070	166.3435876
00° 20′ 50″	0.00606013	0.99998164	0.006060245	165.0098249	1.000018363	165.0128550
00° 21′ 00″	0.00610861	0.99998134	0.006108728	163.7001910	1.000018658	163.7032453
00° 21′ 10″	0.00615709	0.99998104	0.006157212	162.4111809	1.000018955	162.4142595
00° 21′ 20″	0.00620558	0.99998075	0.006205695	161.1423113	1.000019255	161.1454142
00° 21′ 30″	0.00625406	0.99998044	0.006254178	159.8931139	1.000019557	159.8962410
00° 21′ 40″	0.00630254	0.99998014	0.006302661	158.6631347	1.000019862	158.6662860
00° 21′ 50″	0.00635102	0.99997983	0.006351145	157.4519335	1.000020168	157.4551091
00° 22′ 00″	0.00639950	0.99997952	0.006399628	156.2590837	1.000020477	156.2622834
00° 22′ 10″	0.00644798	0.99997921	0.006448111	155.0841711	1.000020789	155.0873952
00° 22′ 20″	0.00649646	0.99997890	0.006496595	153.9267944	1.000021103	153.9300426
00° 22′ 30″	0.00654494	0.99997858	0.006545078	152.7865637	1.000021419	152.7898362
00° 22′ 40″	0.00659342	0.99997826	0.006593562	151.6631009	1.000021737	151.6663976
00° 22′ 50″	0.00664190	0.99997794	0.006642045	150.5560387	1.000022058	150.5593597
00° 23′ 00″	0.00669038	0.99997762	0.006690529	149.4650208	1.000022381	149.4683660
00° 23′ 10″	0.00673886	0.99997729	0.006739012	148.3897006	1.000022707	148.3930701
00° 23′ 20″	0.00678734	0.99997697	0.006787496	147.3297420	1.000023035	147.3331357
00° 23′ 30″	0.00683582	0.99997664	0.006835979	146.2848180	1.000023365	146.2882359
00° 23′ 40″ 00° 23′ 50″	0.00688430	0.99997630 0.99997597	0.006884463	145.2546110	1.000023698	145.2580532
	0.00693278	0.7777/37/	0.006932947	144.2388123	1.000024033	144.2422787

00° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
00° 24′ 00″	0.00698126	0.99997563	0.006981430	143.2371217	1.000024370	143.2406123
00° 24′ 10″	0.00702974	0.99997529	0.007029914	142.2492472	1.000024710	142.2527622
00° 24′ 20″	0.00707822	0.99997495	0.007078398	141.2749051	1.000025052	141.2784443
00° 24′ 30″	0.00712670	0.99997460	0.007126882	140.3138191	1.000025396	140.3173825
00° 24′ 40″	0.00717518	0.99997426	0.007175366	139.3657206	1.000025743	139.3693082
00° 24′ 50″	0.00722366	0.99997391	0.007223850	138.4303480	1.000026092	138.4339598
00° 25′ 00″	0.00727214	0.99997356	0.007272333	137.5074468	1.000026443	137.5110829
00° 25′ 10″	0.00732062	0.99997320	0.007320817	136.5967692	1.000026797	136.6004296
00° 25′ 20″	0.00736910	0.99997285	0.007369301	135.6980740	1.000027153	135.7017586
00° 25′ 30″	0.00741758	0.99997249	0.007417785	134.8111263	1.000027511	134.8148351
00° 25′ 40″	0.00746606	0.99997213	0.007466269	133.9356972	1.000027872	133.9394302
00° 25′ 50″	0.00751454	0.99997177	0.007514754	133.0715637	1.000028235	133.0753210
00° 26′ 00″	0.00756302	0.99997140	0.007563238	132.2185086	1.000028601	132.2222902
00° 26′ 10″	0.00761150	0.99997103	0.007611722	131.3763203	1.000028969	131.3801261
00° 26′ 20″	0.00765998	0.99997066	0.007660206	130.5447924	1.000029339	130.5486224
00° 26′ 30″	0.00770846	0.99997029	0.007708690	129.7237237	1.000029712	129.7275780
00° 26′ 40″	0.00775694	0.99996991	0.007757174	128.9129182	1.000030086	128.9167967
00° 26′ 50″	0.00780542	0.99996954	0.007805659	128.1121846	1.000030464	128.1160874
00° 27′ 00″	0.00785390	0.99996916	0.007854143	127.3213365	1.000030843	127.3252635
00° 27′ 10″	0.00790238	0.99996878	0.007902628	126.5401918	1.000031225	126.5441430
00° 27′ 20″	0.00795086	0.99996839	0.007951112	125.7685730	1.000031610	125.7725485
00° 27′ 30″	0.00799934	0.99996800	0.007999596	125.0063070	1.000031996	125.0103067
00° 27′ 40″	0.00804782	0.99996762	0.008048081	124.2532247	1.000032385	124.2572487
00° 27′ 50″	0.00809630	0.99996722	0.008096565	123.5091612	1.000032777	123.5132094
00° 28′ 00″	0.00814478	0.99996683	0.008145050	122.7739554	1.000033170	122.7780279
00° 28′ 10″	0.00819326	0.99996643	0.008193535	122.0474501	1.000033566	122.0515468
00° 28′ 20″	0.00824174	0.99996604	0.008242019	121.3294917	1.000033965	121.3336126
00° 28′ 30″	0.00829022	0.99996564	0.008290504	120.6199303	1.000034366	120.6240754
00° 28′ 40″	0.00833870	0.99996523	0.008338989	119.9186194	1.000034769	119.9227888
00° 28′ 50″	0.00838718	0.99996483	0.008387473	119.2254159	1.000035174	119.2296096
00° 29′ 00″	0.00843566	0.99996442	0.008435958	118.5401802	1.000035582	118.5443981
00° 29′ 10″	0.00848414	0.99996401	0.008484443	117.8627755	1.000035992	117.8670176
00° 29′ 20″	0.00853262	0.99996360	0.008532928	117.1930684	1.000036405	117.1973348
00° 29′ 30″	0.00858110	0.99996318	0.008581413	116.5309284	1.000036820	116.5352191
00° 29′ 40″	0.00862958	0.99996276	0.008629898	115.8762281	1.000037237	115.8805429
00° 29′ 50″	0.00867806	0.99996234	0.008678383	115.2288426	1.000037656	115.2331817
00° 30′ 00″	0.00872654	0.99996192	0.008726868	114.5886501	1.000038078	114.5930135
00° 30′ 10″	0.00877502	0.99996150	0.008775353	113.9555314	1.000038503	113.9599190
00° 30′ 20″	0.00882349	0.99996107	0.008823838	113.3293699	1.000038929	113.3337817
00° 30′ 30″	0.00887197	0.99996064	0.008872323	112.7100515	1.000039358	112.7144876
00° 30′ 40″	0.00892045	0.99996021	0.008920808	112.0974646	1.000039790	112.1019250
00° 30′ 50″	0.00896893	0.99995978	0.008969294	111.4915002	1.000040223	111.4959847
00° 31′ 00″	0.00901741	0.99995934	0.009017779	110.8920513	1.000040659	110.8965601
00° 31′ 10″ 00° 31′ 20″	0.00906589	0.99995890	0.009066264	110.2990134	1.000041098	110.3035464
	0.00911437	0.99995846	0.009114750	109.7122843	1.000041538	109.7168416
00° 31′ 30″	0.00916285	0.99995802	0.009163235	109.1317638	1.000041982	109.1363453
00° 31′ 40″ 00° 31′ 50″	0.00921133	0.99995757	0.009211720	108.5573538	1.000042427	108.5619596
=======================================	0.00925981	0.99995713	0.009260206	107.9889585	1.000042875	107.9935885

00° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
00° 32′ 00″	0.00930829	0.99995668	0.009308692	107.4264838	1.000043325	107.4311380
00° 32′ 10″	0.00935677	0.99995622	0.009357177	106.8698376	1.000043777	106.8745161
00° 32′ 20″	0.00940525	0.99995577	0.009405663	106.3189299	1.000044232	106.3236327
00° 32′ 30″	0.00945373	0.99995531	0.009454148	105.7736724	1.000044689	105.7783994
00° 32′ 40″	0.00950221	0.99995485	0.009502634	105.2339786	1.000045149	105.2387298
00° 32′ 50″	0.00955068	0.99995439	0.009551120	104.6997637	1.000045611	104.7045392
00° 33′ 00″	0.00959916	0.99995393	0.009599606	104.1709448	1.000046075	104.1757445
00° 33′ 10″	0.00964764	0.99995346	0.009648092	103.6474405	1.000046542	103.6522644
00° 33′ 20″	0.00969612	0.99995299	0.009696578	103.1291710	1.000047011	103.1340192
00° 33′ 30″	0.00974460	0.99995252	0.009745063	102.6160583	1.000047482	102.6209307
00° 33′ 40″	0.00979308	0.99995205	0.009793549	102.1080258	1.000047956	102.1129224
00° 33′ 50″	0.00984156	0.99995157	0.009842035	101.6049983	1.000048432	101.6099192
00° 34′ 00″	0.00989004	0.99995109	0.009890522	101.1069024	1.000048910	101.1118475
00° 34′ 10″	0.00993852	0.99995061	0.009939008	100.6136657	1.000049391	100.6186351
00° 34′ 20″	0.00998700	0.99995013	0.009987494	100.1252176	1.000049874	100.1302113
00° 34′ 30″	0.01003547	0.99994964	0.010035980	99.64148870	1.000050359	99.64650656
00° 34′ 40″	0.01008395	0.99994916	0.010084466	99.16241084	1.000050847	99.16745294
00° 34′ 50″	0.01013243	0.99994867	0.010132953	98.68791730	1.000051337	98.69298364
00° 35′ 00″	0.01018091	0.99994817	0.010181439	98.21794259	1.000051830	98.22303318
00° 35′ 10″	0.01022939	0.99994768	0.010229926	97.75242246	1.000052324	97.75753729
00° 35′ 20″	0.01027787	0.99994718	0.010278412	97.29129389	1.000052821	97.29643296
00° 35′ 30″	0.01032635	0.99994668	0.010326898	96.83449500	1.000053321	96.83965832
00° 35′ 40″	0.01037483	0.99994618	0.010375385	96.38196512	1.000053823	96.38715267
00° 35′ 50″	0.01042331	0.99994568	0.010423872	95.93364466	1.000054327	95.93885646
00° 36′ 00″	0.01047178	0.99994517	0.010472358	95.48947517	1.000054834	95.49471121
00° 36′ 10″	0.01052026	0.99994466	0.010520845	95.04939926	1.000055343	95.05465954
00° 36′ 20″	0.01056874	0.99994415	0.010569332	94.61336059	1.000055854	94.61864511
00° 36′ 30″	0.01061722	0.99994364	0.010617819	94.18130387	1.000056367	94.18661263
00° 36′ 40″	0.01066570	0.99994312	0.010666305	93.75317479	1.000056883	93.75850779
00° 36′ 50″	0.01071418	0.99994260	0.010714792	93.32892003	1.000057402	93.33427727
00° 37′ 00″	0.01076266	0.99994208	0.010763279	92.90848724	1.000057922	92.91386872
00° 37′ 10″	0.01081113	0.99994156	0.010811766	92.49182500	1.000058445	92.49723073
00° 37′ 20″	0.01085961	0.99994103	0.010860253	92.07888282	1.000058971	92.08431278
00° 37′ 30″	0.01090809	0.99994051	0.010908741	91.66961109	1.000059499	91.67506530
00° 37′ 40″	0.01095657	0.99993997	0.010957228	91.26396109	1.000060029	91.26943954
00° 37′ 50″	0.01100505	0.99993944	0.011005715	90.86188496	1.000060561	90.86738765
00° 38′ 00″	0.01105353	0.99993891	0.011054202	90.46333567	1.000061096	90.46886260
00° 38′ 10″	0.01110201	0.99993837	0.011102689	90.06826702	1.000061633	90.07381819
00° 38′ 20″	0.01115048	0.99993783	0.011151177	89.67663361	1.000062172	89.68220902
00° 38′ 30″	0.01119896	0.99993729	0.011199664	89.28839082	1.000062714	89.29399048
00° 38′ 40″	0.01124744	0.99993675	0.011248152	88.90349481	1.000063258	88.90911871
00° 38′ 50″	0.01129592	0.99993620	0.011296639	88.52190250	1.000063805	88.52755064
00° 39′ 00″	0.01134440	0.99993565	0.011345127	88.14357152	1.000064354	88.14924390
00° 39′ 10″	0.01139288	0.99993510	0.011393614	87.76846024	1.000064905	87.77415686
00° 39′ 20″	0.01144135	0.99993455	0.011442102	87.39652773	1.000065459	87.40224859
00° 39′ 30″	0.01148983	0.99993399	0.011490590	87.02773376	1.000066015	87.03347886
00° 39′ 40″ 00° 39′ 50″	0.01153831	0.99993343	0.011539078	86.66203876	1.000066573	86.66780810
<u> </u>	0.01158679	0.99993287	0.011587566	86.29940383	1.000067134	86.30519742

5 00° 39′ 50″

	• ()	()				
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
00° 40′ 00″	0.01163527	0.99993231	0.011636053	85.93979073	1.000067697	85.94560855
00° 40′ 10″	0.01168374	0.99993174	0.011684541	85.58316183	1.000068262	85.58900390
00° 40′ 20″	0.01173222	0.99993118	0.011733029	85.22948014	1.000068830	85.23534646
00° 40′ 30″	0.01178070	0.99993061	0.011781518	84.87870929	1.000069400	84.88459984
00° 40′ 40″	0.01182918	0.99993003	0.011830006	84.53081347	1.000069972	84.53672827
00° 40′ 50″	0.01187766	0.99992946	0.011878494	84.18575749	1.000070547	84.19169652
00° 41′ 00″	0.01192613	0.99992888	0.011926982	83.84350670	1.000071124	83.84946998
00° 41′ 10″	0.01197461	0.99992830	0.011975470	83.50402705	1.000071703	83.51001457
00° 41′ 20″	0.01202309	0.99992772	0.012023959	83.16728501	1.000072285	83.17329677
00° 41′ 30″	0.01207157	0.99992714	0.012072447	82.83324759	1.000072869	82.83928360
00° 41′ 40″	0.01212005	0.99992655	0.012120936	82.50188235	1.000073456	82.50794259
00° 41′ 50″	0.01216852	0.99992596	0.012169424	82.17315733	1.000074045	82.17924182
00° 42′ 00″	0.01221700	0.99992537	0.012217913	81.84704111	1.000074636	81.85314984
00° 42′ 10″	0.01226548	0.99992478	0.012266401	81.52350277	1.000075229	81.52963574
00° 42′ 20″	0.01231396	0.99992418	0.012314890	81.20251184	1.000075825	81.20866905
00° 42′ 30″	0.01236243	0.99992358	0.012363379	80.88403835	1.000076424	80.89021981
00° 42′ 40″	0.01241091	0.99992298	0.012411868	80.56805282	1.000077024	80.57425852
00° 42′ 50″	0.01245939	0.99992238	0.012460356	80.25452619	1.000077627	80.26075613
00° 43′ 00″	0.01250787	0.99992177	0.012508845	79.94342988	1.000078233	79.94968406
00° 43′ 10″	0.01255634	0.99992117	0.012557334	79.63473573	1.000078840	79.64101415
00° 43′ 20″	0.01260482	0.99992056	0.012605823	79.32841602	1.000079450	79.33471869
00° 43′ 30″	0.01265330	0.99991994	0.012654312	79.02444347	1.000080063	79.03077038
00° 43′ 40″	0.01270178	0.99991933	0.012702802	78.72279120	1.000080677	78.72914234
00° 43′ 50″	0.01275025	0.99991871	0.012751291	78.42343274	1.000081294	78.42980812
00° 44′ 00″	0.01279873	0.99991809	0.012799780	78.12634202	1.000081914	78.13274165
00° 44′ 10″	0.01284721	0.99991747	0.012848269	77.83149337	1.000082536	77.83791724
00° 44′ 20″	0.01289569	0.99991685	0.012896759	77.53886151	1.000083160	77.54530963
00° 44′ 30″	0.01294416	0.99991622	0.012945248	77.24842153	1.000083786	77.25489389
00° 44′ 40″	0.01299264	0.99991559	0.012993738	76.96014889	1.000084415	76.96664549
00° 44′ 50″	0.01304112	0.99991496	0.013042227	76.67401942	1.000085046	76.68054026
00° 45′ 00″	0.01308960	0.99991433	0.013090717	76.39000931	1.000085680	76.39655439
00° 45′ 10″	0.01313807	0.99991369	0.013139207	76.10809510	1.000086316	76.11466442
00° 45′ 20″	0.01318655	0.99991305	0.013187697	75.82825366	1.000086954	75.83484722
00° 45′ 30″	0.01323503	0.99991241	0.013236186	75.55046223	1.000087594	75.55708003
00° 45′ 40″	0.01328350	0.99991177	0.013284676	75.27469835	1.000088237	75.28134040
00° 45′ 50″	0.01333198	0.99991113	0.013333166	75.00093991	1.000088883	75.00760620
00° 46′ 00″	0.01338046	0.99991048	0.013381656	74.72916511	1.000089530	74.73585564
00° 46′ 10″	0.01342894	0.99990983	0.013430146	74.45935247	1.000090180	74.46606724
00° 46′ 20″	0.01347741	0.99990918	0.013478636	74.19148081	1.000090833	74.19821982
00° 46′ 30″	0.01352589	0.99990852	0.013527127	73.92552926	1.000091487	73.93229251
00° 46′ 40″	0.01357437	0.99990786	0.013575617	73.66147725	1.000092144	73.66826474
00° 46′ 50″	0.01362284	0.99990720	0.013624107	73.39930450	1.000092804	73.40611623
00° 47′ 00″ 00° 47′ 10″	0.01367132	0.99990654	0.013672598	73.13899101	1.000093466	73.14582699
00° 47′ 10″ 00° 47′ 20″	0.01371980 0.01376827	0.99990588 0.99990521	0.013721088 0.013769579	72.88051708 72.62386328	1.000094130 1.000094796	72.88737730
00° 47′ 20″ 00° 47′ 30″		0.99990521				72.63074774
00° 47′ 30″ 00° 47′ 40″	0.01381675	0.99990454	0.013818069 0.013866560	72.36901044 72.11593968	1.000095465 1.000096136	72.37591914
00° 47′ 40″ 00° 47′ 50″	0.01386523	0.99990320	0.013866560	71.86463236	1.000096136	72.12287262 71.87158955
	0.013/13/0	0.77770320	0.013/13031	/ 1.00+03236	1.0000/0010	/ 1.0/ 130/33

6 00° 47′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
00° 48′ 00″	0.01396218	0.99990252	0.013963541	71.61507012	1.000097485	71.62205155
00° 48′ 10″	0.01401066	0.99990185	0.014012032	71.36723484	1.000098164	71.37424052
00° 48′ 20″	0.01405913	0.99990117	0.014060523	71.12110866	1.000098844	71.12813858
00° 48′ 30″	0.01410761	0.99990048	0.014109014	70.87667396	1.000099527	70.88372812
00° 48′ 40″	0.01415609	0.99989980	0.014157505	70.63391336	1.000100212	70.64099176
00° 48′ 50″	0.01420456	0.99989911	0.014205996	70.39280972	1.000100900	70.39991236
00° 49′ 00″	0.01425304	0.99989842	0.014254488	70.15334612	1.000101590	70.16047301
00° 49′ 10″	0.01430152	0.99989773	0.014302979	69.91550590	1.000102282	69.92265703
00° 49′ 20″	0.01434999	0.99989703	0.014351470	69.67927260	1.000102977	69.68644797
00° 49′ 30″	0.01439847	0.99989634	0.014399962	69.44462999	1.000103674	69.45182960
00° 49′ 40″	0.01444695	0.99989564	0.014448453	69.21156205	1.000104373	69.21878590
00° 49′ 50″	0.01449542	0.99989494	0.014496945	68.98005299	1.000105075	68.98730108
00° 50′ 00″	0.01454390	0.99989423	0.014545436	68.75008721	1.000105779	68.75735954
00° 50′ 10″	0.01459237	0.99989353	0.014593928	68.52164934	1.000106486	68.52894591
00° 50′ 20″	0.01464085	0.99989282	0.014642419	68.29472419	1.000107194	68.30204501
00° 50′ 30″	0.01468933	0.99989211	0.014690911	68.06929679	1.000107906	68.07664185
00° 50′ 40″	0.01473780	0.99989139	0.014739403	67.84535236	1.000108619	67.85272166
00° 50′ 50″	0.01478628	0.99989068	0.014787895	67.62287632	1.000109335	67.63026986
00° 51′ 00″	0.01483475	0.99988996	0.014836387	67.40185426	1.000110053	67.40927204
00° 51′ 10″	0.01488323	0.99988924	0.014884879	67.18227197	1.000110774	67.18971400
00° 51′ 20″	0.01493171	0.99988852	0.014933371	66.96411544	1.000111497	66.97158171
00° 51′ 30″	0.01498018	0.99988779	0.014981864	66.74737083	1.000112222	66.75486134
00° 51′ 40″	0.01502866	0.99988706	0.015030356	66.53202446	1.000112949	66.53953921
00° 51′ 50″	0.01507713	0.99988633	0.015078848	66.31806285	1.000113679	66.32560184
00° 52′ 00″	0.01512561	0.99988560	0.015127341	66.10547268	1.000114412	66.11303592
00° 52′ 10″	0.01517409	0.99988487	0.015175833	65.89424082	1.000115146	65.90182830
00° 52′ 20″	0.01522256	0.99988413	0.015224326	65.68435428	1.000115883	65.69196600
00° 52′ 30″	0.01527104	0.99988339	0.015272818	65.47580025	1.000116623	65.48343621
00° 52′ 40″	0.01531951	0.99988265	0.015321311	65.26856608	1.000117364	65.27622628
00° 52′ 50″	0.01536799	0.99988191	0.015369804	65.06263928	1.000118108	65.07032373
00° 53′ 00″	0.01541646	0.99988116	0.015418297	64.85800751	1.000118855	64.86571620
00° 53′ 10″	0.01546494	0.99988041	0.015466790	64.65465860	1.000119604	64.66239154
00° 53′ 20″	0.01551342	0.99987966	0.015515283	64.45258052	1.000120355	64.46033770
00° 53′ 30″	0.01556189	0.99987891	0.015563776	64.25176140	1.000121108	64.25954281
00° 53′ 40″	0.01561037	0.99987815	0.015612269	64.05218949	1.000121864	64.05999515
00° 53′ 50″	0.01565884	0.99987739	0.015660762	63.85385323	1.000122622	63.86168313
00° 54′ 00″	0.01570732	0.99987663	0.015709255	63.65674116	1.000123383	63.66459531
00° 54′ 10″	0.01575579	0.99987587	0.015757749	63.46084199	1.000124146	63.46872038
00° 54′ 20″	0.01580427	0.99987510	0.015806242	63.26614456	1.000124911	63.27404719
00° 54′ 30″	0.01585274	0.99987434	0.015854736	63.07263784	1.000125678	63.08056471
00° 54′ 40″	0.01590122	0.99987357	0.015903229	62.88031094	1.000126448	62.88826205
00° 54′ 50″	0.01594969	0.99987280	0.015951723	62.68915310	1.000127221	62.69712846
00° 55′ 00″	0.01599817	0.99987202	0.016000217	62.49915370	1.000127995	62.50715330
00° 55′ 10″	0.01604664	0.99987124	0.016048710	62.31030223	1.000128772	62.31832607
00° 55′ 20″	0.01609512	0.99987047	0.016097204	62.12258832	1.000129552	62.13063641
00° 55′ 30″	0.01614359	0.99986968	0.016145698	61.93600173	1.000130333	61.94407406
00° 55′ 40″	0.01619207	0.99986890	0.016194192	61.75053233	1.000131117	61.75862889
00° 55′ 50″	0.01624054	0.99986811	0.016242686	61.56617011	1.000131904	61.57429091

00° 55′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
00° 56′ 00″	0.01628902	0.99986733	0.016291181	61.38290518	1.000132692	61.39105023
00° 56′ 10″	0.01633749	0.99986653	0.016339675	61.20072779	1.000133484	61.20889708
00° 56′ 20″	0.01638597	0.99986574	0.016388169	61.01962827	1.000134277	61.02782181
00° 56′ 30″	0.01643444	0.99986495	0.016436664	60.83959710	1.000135073	60.84781487
00° 56′ 40″	0.01648292	0.99986415	0.016485158	60.66062483	1.000135871	60.66886685
00° 56′ 50″	0.01653139	0.99986335	0.016533653	60.48270216	1.000136671	60.49096842
00° 57′ 00″	0.01657987	0.99986254	0.016582147	60.30581988	1.000137474	60.31411038
00° 57′ 10″	0.01662834	0.99986174	0.016630642	60.12996889	1.000138280	60.13828363
00° 57′ 20″	0.01667682	0.99986093	0.016679137	59.95514019	1.000139087	59.96347918
00° 57′ 30″	0.01672529	0.99986012	0.016727632	59.78132490	1.000139897	59.78968813
00° 57′ 40″	0.01677377	0.99985931	0.016776127	59.60851423	1.000140709	59.61690170
00° 57′ 50″	0.01682224	0.99985850	0.016824622	59.43669949	1.000141524	59.44511121
00° 58′ 00″	0.01687072	0.99985768	0.016873117	59.26587210	1.000142341	59.27430806
00° 58′ 10″	0.01691919	0.99985686	0.016921612	59.09602357	1.000143160	59.10448377
00° 58′ 20″	0.01696766	0.99985604	0.016970108	58.92714552	1.000143982	58.93562996
00° 58′ 30″	0.01701614	0.99985522	0.017018603	58.75922964	1.000144806	58.76773832
00° 58′ 40″	0.01706461	0.99985439	0.017067098	58.59226773	1.000145632	58.60080066
00° 58′ 50″	0.01711309	0.99985356	0.017115594	58.42625169	1.000146461	58.43480886
00° 59′ 00″	0.01716156	0.99985273	0.017164090	58.26117351	1.000147292	58.26975492
00° 59′ 10″	0.01721004	0.99985190	0.017212585	58.09702525	1.000148126	58.10563090
00° 59′ 20″	0.01725851	0.99985106	0.017261081	57.93379908	1.000148961	57.94242898
00° 59′ 30″	0.01730698	0.99985022	0.017309577	57.77148725	1.000149800	57.78014139
00° 59′ 40″	0.01735546	0.99984938	0.017358073	57.61008211	1.000150640	57.61876049
00° 59′ 50″	0.01740393	0.99984854	0.017406569	57.44957606	1.000151483	57.45827869
01° 00′ 00″	0.01745241	0.99984770	0.017455065	57.28996163	1.000152328	57.29868850
01° 00′ 10″	0.01750088	0.99984685	0.017503561	57.13123140	1.000153176	57.13998251
01° 00′ 20″	0.01754935	0.99984600	0.017552057	56.97337804	1.000154025	56.98215339
01° 00′ 30″	0.01759783	0.99984515	0.017600554	56.81639431	1.000154878	56.82519390
01° 00′ 40″	0.01764630	0.99984429	0.017649050	56.66027303	1.000155732	56.66909687
01° 00′ 50″	0.01769478	0.99984344	0.017697547	56.50500713	1.000156589	56.51385521
01° 01′ 00″	0.01774325	0.99984258	0.017746043	56.35058959	1.000157449	56.35946191
01° 01′ 10″	0.01779172	0.99984171	0.017794540	56.19701347	1.000158310	56.20591003
01° 01′ 20″	0.01784020	0.99984085	0.017843037	56.04427191	1.000159174	56.05319272
01° 01′ 30″	0.01788867	0.99983998	0.017891534	55.89235814	1.000160041	55.90130319
01° 01′ 40″	0.01793714	0.99983912	0.017940030	55.74126543	1.000160909	55.75023473
01° 01′ 50″	0.01798562	0.99983825	0.017988527	55.59098716	1.000161780	55.59998069
01° 02′ 00″	0.01803409	0.99983737	0.018037025	55.44151674	1.000162654	55.45053452
01° 02′ 10″	0.01808256	0.99983650	0.018085522	55.29284769	1.000163530	55.30188971
01° 02′ 20″	0.01813104	0.99983562	0.018134019	55.14497357	1.000164408	55.15403983
01° 02′ 30″	0.01817951	0.99983474	0.018182516	54.99788803	1.000165288	55.00697853
01° 02′ 40″	0.01822798	0.99983386	0.018231014	54.85158477	1.000166171	54.86069952
01° 02′ 50″	0.01827646	0.99983297	0.018279511	54.70605757	1.000167056	54.71519656
01° 03′ 00″	0.01832493	0.99983208	0.018328009	54.56130027	1.000167944	54.57046351
01° 03′ 10″	0.01837340	0.99983119	0.018376507	54.41730678	1.000168834	54.42649425
01° 03′ 20″	0.01842188	0.99983030	0.018425004	54.27407106	1.000169726	54.28328278
01° 03′ 30″	0.01847035	0.99982941	0.018473502	54.13158715	1.000170621	54.14082311
01° 03′ 40″	0.01851882	0.99982851	0.018522000	53.98984914	1.000171518	53.99910935
01° 03′ 50″	0.01856730	0.99982761	0.018570498	53.84885120	1.000172417	53.85813565

8 01° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
01° 04′ 00″	0.01861577	0.99982671	0.018618996	53.70858754	1.000173318	53.71789623
01° 04′ 10″	0.01866424	0.99982581	0.018667495	53.56905243	1.000174223	53.57838536
01° 04′ 20″	0.01871272	0.99982490	0.018715993	53.43024022	1.000175129	53.43959740
01° 04′ 30″	0.01876119	0.99982399	0.018764491	53.29214530	1.000176038	53.30152672
01° 04′ 40″	0.01880966	0.99982308	0.018812990	53.15476213	1.000176949	53.16416780
01° 04′ 50″	0.01885813	0.99982217	0.018861488	53.01808522	1.000177862	53.02751513
01° 05′ 00″	0.01890661	0.99982125	0.018909987	52.88210913	1.000178778	52.89156328
01° 05′ 10″	0.01895508	0.99982034	0.018958486	52.74682849	1.000179696	52.75630688
01° 05′ 20″	0.01900355	0.99981942	0.019006985	52.61223797	1.000180616	52.62174061
01° 05′ 30″	0.01905202	0.99981849	0.019055484	52.47833231	1.000181539	52.48785919
01° 05′ 40″	0.01910050	0.99981757	0.019103983	52.34510629	1.000182464	52.35465741
01° 05′ 50″	0.01914897	0.99981664	0.019152482	52.21255475	1.000183392	52.22213012
01° 06′ 00″	0.01919744	0.99981571	0.019200981	52.08067259	1.000184322	52.09027219
01° 06′ 10″	0.01924591	0.99981478	0.019249480	51.94945473	1.000185254	51.95907858
01° 06′ 20″	0.01929439	0.99981385	0.019297980	51.81889618	1.000186189	51.82854427
01° 06′ 30″	0.01934286	0.99981291	0.019346479	51.68899198	1.000187126	51.69866431
01° 06′ 40″	0.01939133	0.99981197	0.019394979	51.55973722	1.000188065	51.56943379
01° 06′ 50″	0.01943980	0.99981103	0.019443478	51.43112704	1.000189007	51.44084786
01° 07′ 00″	0.01948828	0.99981009	0.019491978	51.30315663	1.000189951	51.31290169
01° 07′ 10″	0.01953675	0.99980914	0.019540478	51.17582123	1.000190897	51.18559053
01° 07′ 20″	0.01958522	0.99980819	0.019588978	51.04911612	1.000191846	51.05890967
01° 07′ 30″	0.01963369	0.99980724	0.019637478	50.92303664	1.000192797	50.93285443
01° 07′ 40″	0.01968216	0.99980629	0.019685978	50.79757816	1.000193750	50.80742019
01° 07′ 50″	0.01973064	0.99980533	0.019734478	50.67273610	1.000194706	50.68260238
01° 08′ 00″	0.01977911	0.99980437	0.019782978	50.54850593	1.000195664	50.55839645
01° 08′ 10″	0.01982758	0.99980341	0.019831479	50.42488317	1.000196624	50.43479793
01° 08′ 20″	0.01987605	0.99980245	0.019879979	50.30186337	1.000197587	50.31180237
01° 08′ 30″	0.01992452	0.99980149	0.019928480	50.17944212	1.000198552	50.18940537
01° 08′ 40″	0.01997300	0.99980052	0.019976980	50.05761508	1.000199520	50.06760257
01° 08′ 50″	0.02002147	0.99979955	0.020025481	49.93637791	1.000200490	49.94638965
01° 09′ 00″	0.02006994	0.99979858	0.020073982	49.81572636	1.000201462	49.82576234
01° 09′ 10″	0.02011841	0.99979760	0.020122483	49.69565618	1.000202437	49.70571640
01° 09′ 20″	0.02016688	0.99979663	0.020170984	49.57616319	1.000203414	49.58624765
01° 09′ 30″	0.02021535	0.99979565	0.020219485	49.45724322	1.000204393	49.46735193
01° 09′ 40″	0.02026382	0.99979467	0.020267986	49.33889217	1.000205375	49.34902512
01° 09′ 50″	0.02031230	0.99979368	0.020316488	49.22110597	1.000206359	49.23126316
01° 10′ 00″	0.02036077	0.99979270	0.020364989	49.10388057	1.000207345	49.11406201
01° 10′ 10″	0.02040924	0.99979171	0.020413491	48.98721199	1.000208334	48.99741768
01° 10′ 20″	0.02045771	0.99979072	0.020461992	48.87109627	1.000209325	48.88132620
01° 10′ 30″	0.02050618	0.99978973	0.020510494	48.75552948	1.000210318	48.76578365
01° 10′ 40″	0.02055465	0.99978873	0.020558996	48.64050774	1.000211314	48.65078615
01° 10′ 50″	0.02060312	0.99978773	0.020607498	48.52602720	1.000212312	48.53632985
01° 11′ 00″	0.02065159	0.99978673	0.020656000	48.41208405	1.000213312	48.42241095
01° 11′ 10″	0.02070007	0.99978573	0.020704502	48.29867452	1.000214315	48.30902566
01° 11′ 20″	0.02074854	0.99978473	0.020753004	48.18579487	1.000215320	48.19617025
01° 11′ 30″	0.02079701	0.99978372	0.020801506	48.07344138	1.000216328	48.08384101
01° 11′ 40″	0.02084548	0.99978271	0.020850009	47.96161039	1.000217338	47.97203427
01° 11′ 50″	0.02089395	0.99978170	0.020898511	47.85029827	1.000218350	47.86074639

01° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
01° 12′ 00″	0.02094242	0.99978068	0.020947014	47.73950141	1.000219365	47.74997376
01° 12′ 10″	0.02099089	0.99977967	0.020995517	47.62921623	1.000220382	47.63971283
01° 12′ 20″	0.02103936	0.99977865	0.021044019	47.51943921	1.000221401	47.52996005
01° 12′ 30″	0.02108783	0.99977763	0.021092522	47.41016683	1.000222423	47.42071192
01° 12′ 40″	0.02113630	0.99977660	0.021141025	47.30139563	1.000223447	47.31196496
01° 12′ 50″	0.02118477	0.99977558	0.021189528	47.19312217	1.000224473	47.20371574
01° 13′ 00″	0.02123324	0.99977455	0.021238032	47.08534303	1.000225502	47.09596084
01° 13′ 10″	0.02128171	0.99977352	0.021286535	46.97805483	1.000226533	46.98869689
01° 13′ 20″	0.02133018	0.99977249	0.021335038	46.87125424	1.000227566	46.88192055
01° 13′ 30″	0.02137865	0.99977145	0.021383542	46.76493793	1.000228602	46.77562848
01° 13′ 40″	0.02142712	0.99977041	0.021432045	46.65910262	1.000229640	46.66981741
01° 13′ 50″	0.02147559	0.99976937	0.021480549	46.55374504	1.000230680	46.56448408
01° 14′ 00″	0.02152407	0.99976833	0.021529053	46.44886198	1.000231723	46.45962526
01° 14′ 10″	0.02157254	0.99976729	0.021577557	46.34445023	1.000232768	46.35523775
01° 14′ 20″	0.02162101	0.99976624	0.021626061	46.24050662	1.000233816	46.25131838
01° 14′ 30″	0.02166948	0.99976519	0.021674565	46.13702801	1.000234866	46.14786402
01° 14′ 40″	0.02171795	0.99976414	0.021723069	46.03401128	1.000235918	46.04487154
01° 14′ 50″	0.02176642	0.99976308	0.021771573	45.93145336	1.000236973	45.94233785
01° 15′ 00″	0.02181489	0.99976203	0.021820078	45.82935117	1.000238030	45.84025991
01° 15′ 10″	0.02186335	0.99976097	0.021868582	45.72770170	1.000239089	45.73863468
01° 15′ 20″	0.02191182	0.99975991	0.021917087	45.62650193	1.000240151	45.63745916
01° 15′ 30″	0.02196029	0.99975884	0.021965591	45.52574889	1.000241215	45.53673036
01° 15′ 40″	0.02200876	0.99975778	0.022014096	45.42543962	1.000242281	45.43644534
01° 15′ 50″	0.02205723	0.99975671	0.022062601	45.32557120	1.000243350	45.33660116
01° 16′ 00″	0.02210570	0.99975564	0.022111106	45.22614073	1.000244421	45.23719494
01° 16′ 10″	0.02215417	0.99975457	0.022159611	45.12714534	1.000245494	45.13822378
01° 16′ 20″	0.02220264	0.99975349	0.022208117	45.02858216	1.000246570	45.03968485
01° 16′ 30″	0.02225111	0.99975241	0.022256622	44.93044839	1.000247648	44.94157532
01° 16′ 40″	0.02229958	0.99975133	0.022305127	44.83274121	1.000248728	44.84389239
01° 16′ 50″	0.02234805	0.99975025	0.022353633	44.73545786	1.000249811	44.74663328
01° 17′ 00″	0.02239652	0.99974917	0.022402138	44.63859558	1.000250896	44.64979524
01° 17′ 10″	0.02244499	0.99974808	0.022450644	44.54215164	1.000251984	44.55337554
01° 17′ 20″	0.02249346	0.99974699	0.022499150	44.44612333	1.000253074	44.45737148
01° 17′ 30″	0.02254193	0.99974590	0.022547656	44.35050798	1.000254166	44.36178038
01° 17′ 40″	0.02259040	0.99974480	0.022596162	44.25530293	1.000255261	44.26659957
01° 17′ 50″	0.02263886	0.99974371	0.022644668	44.16050554	1.000256358	44.17182642
01° 18′ 00″	0.02268733	0.99974261	0.022693175	44.06611320	1.000257457	44.07745832
01° 18′ 10″	0.02273580	0.99974151	0.022741681	43.97212331	1.000258559	43.98349268
01° 18′ 20″	0.02278427	0.99974040	0.022790187	43.87853331	1.000259663	43.88992693
01° 18′ 30″	0.02283274	0.99973930	0.022838694	43.78534065	1.000260769	43.79675851
01° 18′ 40″	0.02288121	0.99973819	0.022887201	43.69254281	1.000261878	43.70398492
01° 18′ 50″	0.02292968	0.99973708	0.022935708	43.60013728	1.000262989	43.61160363
01° 19′ 00″	0.02297815	0.99973597	0.022984215	43.50812158	1.000264102	43.51961217
01° 19′ 10″	0.02302661	0.99973485	0.023032722	43.41649325	1.000265218	43.42800808
01° 19′ 20″	0.02307508	0.99973373	0.023081229	43.32524984	1.000266336	43.33678892
01° 19′ 30″	0.02312355	0.99973261	0.023129736	43.23438893	1.000267457	43.24595225
01° 19′ 40″ 01° 19′ 50″	0.02317202	0.99973149	0.023178243	43.14390813	1.000268579	43.15549570
= 17 30"	0.02322049	0.99973037	0.023226751	43.05380505	1.000269705	43.06541686

10 01° 19′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
01° 20′ 00″	0.02326896	0.99972924	0.023275258	42.96407734	1.000270832	42.97571339
01° 20′ 10″	0.02331742	0.99972811	0.023323766	42.87472264	1.000271962	42.88638294
01° 20′ 20″	0.02336589	0.99972698	0.023372274	42.78573864	1.000273094	42.79742319
01° 20′ 30″	0.02341436	0.99972585	0.023420782	42.69712304	1.000274229	42.70883183
01° 20′ 40″	0.02346283	0.99972471	0.023469290	42.60887356	1.000275366	42.62060659
01° 20′ 50″	0.02351130	0.99972357	0.023517798	42.52098792	1.000276505	42.53274519
01° 21′ 00″	0.02355976	0.99972243	0.023566306	42.43346389	1.000277647	42.44524540
01° 21′ 10″	0.02360823	0.99972129	0.023614814	42.34629923	1.000278791	42.35810499
01° 21′ 20″	0.02365670	0.99972014	0.023663323	42.25949173	1.000279937	42.27132174
01° 21′ 30″	0.02370517	0.99971899	0.023711832	42.17303921	1.000281086	42.18489346
01° 21′ 40″	0.02375364	0.99971784	0.023760340	42.08693950	1.000282237	42.09881799
01° 21′ 50″	0.02380210	0.99971669	0.023808849	42.00119042	1.000283390	42.01309316
01° 22′ 00″	0.02385057	0.99971553	0.023857358	41.91578986	1.000284546	41.92771684
01° 22′ 10″	0.02389904	0.99971438	0.023905867	41.83073568	1.000285704	41.84268691
01° 22′ 20″	0.02394751	0.99971322	0.023954376	41.74602579	1.000286865	41.75800126
01° 22′ 30″	0.02399597	0.99971206	0.024002885	41.66165809	1.000288028	41.67365781
01° 22′ 40″	0.02404444	0.99971089	0.024051395	41.57763053	1.000289193	41.58965448
01° 22′ 50″	0.02409291	0.99970972	0.024099904	41.49394103	1.000290361	41.50598923
01° 23′ 00″	0.02414138	0.99970855	0.024148414	41.41058757	1.000291530	41.42266002
01° 23′ 10″	0.02418984	0.99970738	0.024196923	41.32756813	1.000292703	41.33966482
01° 23′ 20″	0.02423831	0.99970621	0.024245433	41.24488070	1.000293877	41.25700164
01° 23′ 30″	0.02428678	0.99970503	0.024293943	41.16252330	1.000295054	41.17466848
01° 23′ 40″	0.02433524	0.99970385	0.024342453	41.08049395	1.000296234	41.09266338
01° 23′ 50″	0.02438371	0.99970267	0.024390963	40.99879070	1.000297415	41.01098437
01° 24′ 00″	0.02443218	0.99970149	0.024439474	40.91741160	1.000298599	40.92962951
01° 24′ 10″	0.02448065	0.99970030	0.024487984	40.83635473	1.000299786	40.84859689
01° 24′ 20″	0.02452911	0.99969912	0.024536494	40.75561818	1.000300974	40.76788458
01° 24′ 30″	0.02457758	0.99969793	0.024585005	40.67520006	1.000302166	40.68749070
01° 24′ 40″	0.02462605	0.99969673	0.024633516	40.59509847	1.000303359	40.60741336
01° 24′ 50″	0.02467451	0.99969554	0.024682027	40.51531157	1.000304555	40.52765070
01° 25′ 00″	0.02472298	0.99969434	0.024730538	40.43583749	1.000305753	40.44820087
01° 25′ 10″	0.02477145	0.99969314	0.024779049	40.35667440	1.000306954	40.36906202
01° 25′ 20″	0.02481991	0.99969194	0.024827560	40.27782048	1.000308156	40.29023234
01° 25′ 30″ 01° 25′ 40″	0.02486838	0.99969073	0.024876071	40.19927391	1.000309362	40.21171003
	0.02491684	0.99968953	0.024924583	40.12103292	1.000310569	40.13349327
01° 25′ 50″	0.02496531	0.99968832	0.024973094	40.04309571	1.000311779	40.05558031
01° 26′ 00″	0.02501378	0.99968711	0.025021606	39.96546052	1.000312991	39.97796936
01° 26′ 10″	0.02506224	0.99968589	0.025070118	39.88812559	1.000314206	39.90065868
01° 26′ 20″	0.02511071	0.99968468	0.025118630	39.81108920	1.000315423	39.82364653
01° 26′ 30″ 01° 26′ 40″	0.02515918	0.99968346	0.025167142	39.73434960	1.000316642	39.74693118
	0.02520764	0.99968224	0.025215654	39.65790510	1.000317864	39.67051092
01° 26′ 50″	0.02525611	0.99968101	0.025264166	39.58175399	1.000319088	39.59438406
01° 27′ 00″	0.02530457	0.99967979	0.025312678	39.50589458	1.000320315	39.51854889
01° 27′ 10″	0.02535304	0.99967856	0.025361191	39.43032520	1.000321543	39.44300376
01° 27′ 20″	0.02540150	0.99967733	0.025409703	39.35504420	1.000322774	39.36774700
01° 27′ 30″ 01° 27′ 40″	0.02544997	0.99967610	0.025458216	39.28004992	1.000324008	39.29277696
01° 27′ 40″ 01° 27′ 50″	0.02549844	0.99967486	0.025506729	39.20534072	1.000325244	39.21809201
01 27 30"	0.02554690	0.99967362	0.025555242	39.13091499	1.000326482	39.14369053

11 01° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
01° 28′ 00″	0.02559537	0.99967238	0.025603755	39.05677112	1.000327722	39.06957090
01° 28′ 10″	0.02564383	0.99967114	0.025652268	38.98290750	1.000328965	38.99573153
01° 28′ 20″	0.02569230	0.99966990	0.025700782	38.90932255	1.000330211	38.92217082
01° 28′ 30″	0.02574076	0.99966865	0.025749295	38.83601470	1.000331458	38.84888721
01° 28′ 40″	0.02578923	0.99966740	0.025797809	38.76298238	1.000332708	38.77587914
01° 28′ 50″	0.02583769	0.99966615	0.025846322	38.69022404	1.000333960	38.70314504
01° 29′ 00″	0.02588616	0.99966490	0.025894836	38.61773814	1.000335215	38.63068339
01° 29′ 10″	0.02593462	0.99966364	0.025943350	38.54552316	1.000336472	38.55849265
01° 29′ 20″	0.02598309	0.99966238	0.025991864	38.47357758	1.000337731	38.48657131
01° 29′ 30″	0.02603155	0.99966112	0.026040378	38.40189989	1.000338993	38.41491787
01° 29′ 40″	0.02608002	0.99965986	0.026088893	38.33048860	1.000340257	38.34353083
01° 29′ 50″	0.02612848	0.99965859	0.026137407	38.25934222	1.000341524	38.27240870
01° 30′ 00″	0.02617695	0.99965732	0.026185922	38.18845930	1.000342792	38.20155001
01° 30′ 10″	0.02622541	0.99965605	0.026234436	38.11783835	1.000344064	38.13095332
01° 30′ 20″	0.02627388	0.99965478	0.026282951	38.04747794	1.000345337	38.06061715
01° 30′ 30″	0.02632234	0.99965351	0.026331466	37.97737663	1.000346613	37.99054008
01° 30′ 40″	0.02637081	0.99965223	0.026379981	37.90753298	1.000347891	37.92072068
01° 30′ 50″	0.02641927	0.99965095	0.026428496	37.83794558	1.000349172	37.85115752
01° 31′ 00″	0.02646774	0.99964967	0.026477011	37.76861302	1.000350455	37.78184921
01° 31′ 10″	0.02651620	0.99964838	0.026525527	37.69953390	1.000351740	37.71279433
01° 31′ 20″	0.02656466	0.99964710	0.026574042	37.63070684	1.000353028	37.64399151
01° 31′ 30″	0.02661313	0.99964581	0.026622558	37.56213045	1.000354318	37.57543937
01° 31′ 40″	0.02666159	0.99964452	0.026671074	37.49380337	1.000355610	37.50713654
01° 31′ 50″	0.02671006	0.99964322	0.026719590	37.42572425	1.000356905	37.43908166
01° 32′ 00″	0.02675852	0.99964193	0.026768106	37.35789173	1.000358202	37.37127338
01° 32′ 10″	0.02680698	0.99964063	0.026816622	37.29030448	1.000359501	37.30371038
01° 32′ 20″	0.02685545	0.99963933	0.026865138	37.22296116	1.000360803	37.23639131
01° 32′ 30″	0.02690391	0.99963802	0.026913655	37.15586047	1.000362107	37.16931486
01° 32′ 40″	0.02695238	0.99963672	0.026962171	37.08900109	1.000363413	37.10247972
01° 32′ 50″	0.02700084	0.99963541	0.027010688	37.02238172	1.000364722	37.03588460
01° 33′ 00″	0.02704930	0.99963410	0.027059205	36.95600107	1.000366033	36.96952819
01° 33′ 10″	0.02709777	0.99963279	0.027107722	36.88985786	1.000367347	36.90340923
01° 33′ 20″	0.02714623	0.99963147	0.027156239	36.82395082	1.000368663	36.83752643
01° 33′ 30″	0.02719469	0.99963016	0.027204756	36.75827868	1.000369981	36.77187854
01° 33′ 40″	0.02724316	0.99962884	0.027253273	36.69284019	1.000371302	36.70646430
01° 33′ 50″	0.02729162	0.99962751	0.027301791	36.62763411	1.000372624	36.64128247
01° 34′ 00″	0.02734008	0.99962619	0.027350308	36.56265921	1.000373950	36.57633180
01° 34′ 10″	0.02738855	0.99962486	0.027398826	36.49791424	1.000375277	36.51161108
01° 34′ 20″	0.02743701	0.99962353	0.027447344	36.43339800	1.000376607	36.44711908
01° 34′ 30″	0.02748547	0.99962220	0.027495862	36.36910927	1.000377940	36.38285460
01° 34′ 40″	0.02753394	0.99962087	0.027544380	36.30504685	1.000379275	36.31881643
01° 34′ 50″ 01° 35′ 00″	0.02758240	0.99961953	0.027592898	36.24120955	1.000380612 1.000381951	36.25500337
01° 35′ 00″ 01° 35′ 10″	0.02763086 0.02767933	0.99961819 0.99961685	0.027641416 0.027689935	36.17759618		36.19141425 36.12804789
01° 35′ 10″ 01° 35′ 20″	0.02767933	0.99961685	0.027689933	36.11420558 36.05103656	1.000383293 1.000384637	36.12804789 36.06490312
01° 35′ 30″	0.02772779	0.99961331	0.027786972	35.98808797	1.000384637	36.00197877
01° 35′ 40″	0.02777623	0.99961417	0.027786972	35.92535865	1.000385985	35.93927370
01° 35′ 50″	0.02782471	0.99961147	0.027884010	35.86284747	1.000387332	35.87678677
=======================================	0.02/0/310	0.///0114/	0.027004010	33.00204/4/	1.00030003	33.07 07 007 7

12 01° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
01° 36′ 00″	0.02792164	0.99961012	0.027932529	35.80055329	1.000390037	35.81451683
01° 36′ 10″	0.02797010	0.99960876	0.027981048	35.73847497	1.000391393	35.75246276
01° 36′ 20″	0.02801856	0.99960740	0.028029568	35.67661141	1.000392751	35.69062344
01° 36′ 30″	0.02806703	0.99960604	0.028078087	35.61496147	1.000394112	35.62899775
01° 36′ 40″	0.02811549	0.99960468	0.028126607	35.55352407	1.000395475	35.56758459
01° 36′ 50″	0.02816395	0.99960332	0.028175127	35.49229810	1.000396840	35.50638287
01° 37′ 00″	0.02821241	0.99960195	0.028223647	35.43128247	1.000398208	35.44539149
01° 37′ 10″	0.02826087	0.99960058	0.028272167	35.37047611	1.000399578	35.38460937
01° 37′ 20″	0.02830934	0.99959921	0.028320687	35.30987793	1.000400950	35.32403543
01° 37′ 30″	0.02835780	0.99959784	0.028369207	35.24948687	1.000402325	35.26366862
01° 37′ 40″	0.02840626	0.99959646	0.028417728	35.18930186	1.000403702	35.20350786
01° 37′ 50″	0.02845472	0.99959508	0.028466248	35.12932186	1.000405082	35.14355210
01° 38′ 00″	0.02850318	0.99959370	0.028514769	35.06954582	1.000406463	35.08380031
01° 38′ 10″	0.02855165	0.99959232	0.028563290	35.00997270	1.000407848	35.02425143
01° 38′ 20″	0.02860011	0.99959093	0.028611811	34.95060146	1.000409234	34.96490444
01° 38′ 30″	0.02864857	0.99958955	0.028660332	34.89143109	1.000410623	34.90575832
01° 38′ 40″	0.02869703	0.99958816	0.028708853	34.83246057	1.000412014	34.84681204
01° 38′ 50″	0.02874549	0.99958676	0.028757375	34.77368888	1.000413408	34.78806459
01° 39′ 00″	0.02879395	0.99958537	0.028805896	34.71511501	1.000414804	34.72951498
01° 39′ 10″	0.02884241	0.99958397	0.028854418	34.65673799	1.000416202	34.67116219
01° 39′ 20″	0.02889087	0.99958257	0.028902940	34.59855680	1.000417603	34.61300525
01° 39′ 30″	0.02893934	0.99958117	0.028951462	34.54057047	1.000419006	34.55504317
01° 39′ 40″	0.02898780	0.99957977	0.028999984	34.48277802	1.000420411	34.49727497
01° 39′ 50″	0.02903626	0.99957836	0.029048506	34.42517848	1.000421819	34.43969967
01° 40′ 00″	0.02908472	0.99957695	0.029097028	34.36777089	1.000423229	34.38231632
01° 40′ 10″	0.02913318	0.99957554	0.029145551	34.31055428	1.000424641	34.32512396
01° 40′ 20″	0.02918164	0.99957413	0.029194073	34.25352770	1.000426056	34.26812163
01° 40′ 30″	0.02923010	0.99957271	0.029242596	34.19669022	1.000427473	34.21130839
01° 40′ 40″	0.02927856	0.99957129	0.029291119	34.14004089	1.000428893	34.15468330
01° 40′ 50″	0.02932702	0.99956987	0.029339642	34.08357877	1.000430315	34.09824543
01° 41′ 00″	0.02937548	0.99956845	0.029388165	34.02730294	1.000431739	34.04199385
01° 41′ 10″	0.02942394	0.99956702	0.029436689	33.97121248	1.000433165	33.98592764
01° 41′ 20″	0.02947240	0.99956559	0.029485212	33.91530648	1.000434594	33.93004588
01° 41′ 30″	0.02952086	0.99956416	0.029533736	33.85958402	1.000436026	33.87434767
01° 41′ 40″	0.02956932	0.99956273	0.029582259	33.80404421	1.000437459	33.81883211
01° 41′ 50″	0.02961778	0.99956130	0.029630783	33.74868614	1.000438895	33.76349829
01° 42′ 00″	0.02966624	0.99955986	0.029679307	33.69350893	1.000440334	33.70834532
01° 42′ 10″	0.02971470	0.99955842	0.029727831	33.63851169	1.000441774	33.65337233
01° 42′ 20″	0.02976316	0.99955698	0.029776356	33.58369355	1.000443217	33.59857843
01° 42′ 30″	0.02981162	0.9995553	0.029824880	33.52905362	1.000444663	33.54396274
01° 42′ 40″	0.02986008	0.99955409	0.029873405	33.47459104	1.000446111	33.48952441
01° 42′ 50″	0.02990854	0.99955264	0.029921929	33.42030494	1.000447561	33.43526256
01° 43′ 00″	0.02995700	0.99955119	0.029970454	33.36619448	1.000449013	33.38117634
01° 43′ 10″	0.03000546	0.99954973	0.030018979	33.31225880	1.000450468	33.32726491
01° 43′ 20″	0.03005392	0.99954828	0.030067504	33.25849705	1.000451925	33.27352741
01° 43′ 30″	0.03010238	0.99954682	0.030116029	33.20490840	1.000453385	33.21996300
01° 43′ 40″ 01° 43′ 50″	0.03015084	0.99954536	0.030164555	33.15149200	1.000454847	33.16657085
=======================================	0.03019930	0.99954390	0.030213080	33.09824703	1.000456311	33.11335013

13 01° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
01° 44′ 00″	0.03024776	0.99954243	0.030261606	33.04517267	1.000457778	33.06030001
01° 44′ 10″	0.03029622	0.99954096	0.030310132	32.99226810	1.000459247	33.00741968
01° 44′ 20″	0.03034468	0.99953949	0.030358658	32.93953249	1.000460718	32.95470833
01° 44′ 30″	0.03039314	0.99953802	0.030407184	32.88696505	1.000462192	32.90216513
01° 44′ 40″	0.03044160	0.99953655	0.030455710	32.83456498	1.000463668	32.84978930
01° 44′ 50″	0.03049005	0.99953507	0.030504237	32.78233146	1.000465146	32.79758003
01° 45′ 00″	0.03053851	0.99953359	0.030552763	32.73026372	1.000466627	32.74553653
01° 45′ 10″	0.03058697	0.99953211	0.030601290	32.67836095	1.000468110	32.69365802
01° 45′ 20″	0.03063543	0.99953063	0.030649817	32.62662238	1.000469595	32.64194369
01° 45′ 30″	0.03068389	0.99952914	0.030698344	32.57504724	1.000471083	32.59039279
01° 45′ 40″	0.03073235	0.99952765	0.030746871	32.52363474	1.000472573	32.53900454
01° 45′ 50″	0.03078081	0.99952616	0.030795398	32.47238412	1.000474066	32.48777817
01° 46′ 00″	0.03082926	0.99952467	0.030843926	32.42129461	1.000475561	32.43671290
01° 46′ 10″	0.03087772	0.99952317	0.030892453	32.37036546	1.000477058	32.38580800
01° 46′ 20″	0.03092618	0.99952167	0.030940981	32.31959591	1.000478558	32.33506270
01° 46′ 30″	0.03097464	0.99952017	0.030989509	32.26898521	1.000480060	32.28447625
01° 46′ 40″	0.03102310	0.99951867	0.031038037	32.21853262	1.000481564	32.23404790
01° 46′ 50″	0.03107156	0.99951716	0.031086565	32.16823740	1.000483071	32.18377693
01° 47′ 00″	0.03112001	0.99951566	0.031135093	32.11809881	1.000484580	32.13366259
01° 47′ 10″	0.03116847	0.99951415	0.031183622	32.06811612	1.000486091	32.08370415
01° 47′ 20″	0.03121693	0.99951263	0.031232150	32.01828861	1.000487605	32.03390088
01° 47′ 30″	0.03126539	0.99951112	0.031280679	31.96861555	1.000489121	31.98425207
01° 47′ 40″	0.03131384	0.99950960	0.031329208	31.91909623	1.000490639	31.93475700
01° 47′ 50″	0.03136230	0.99950808	0.031377737	31.86972994	1.000492160	31.88541494
01° 48′ 00″	0.03141076	0.99950656	0.031426266	31.82051595	1.000493683	31.83622521
01° 48′ 10″	0.03145922	0.99950504	0.031474795	31.77145358	1.000495209	31.78718708
01° 48′ 20″	0.03150767	0.99950351	0.031523325	31.72254212	1.000496737	31.73829987
01° 48′ 30″	0.03155613	0.99950198	0.031571854	31.67378088	1.000498267	31.68956287
01° 48′ 40″	0.03160459	0.99950045	0.031620384	31.62516916	1.000499799	31.64097540
01° 48′ 50″	0.03165305	0.99949892	0.031668914	31.57670628	1.000501334	31.59253677
01° 49′ 00″	0.03170150	0.99949738	0.031717444	31.52839155	1.000502872	31.54424629
01° 49′ 10″	0.03174996	0.99949584	0.031765974	31.48022430	1.000504411	31.49610329
01° 49′ 20″ 01° 49′ 30″	0.03179842	0.99949430	0.031814505	31.43220386	1.000505953	31.44810709
01° 49′ 30″ 01° 49′ 40″	0.03184687	0.99949276 0.99949121	0.031863035	31.38432954 31.33660069	1.000507498	31.40025702
01° 49′ 40″ 01° 49′ 50″	0.03189533		0.031911566		1.000509044	31.35255241
01° 50′ 00″	0.03194379 0.03199224	0.99948967	0.031960097	31.28901664	1.000510594 1.000512145	31.30499261 31.25757696
01° 50′ 10″	0.03177224	0.99948812 0.99948656	0.032008628 0.032057159	31.24157674 31.19428033	1.000512145	31.23/3/676
01° 50′ 20″	0.03204070	0.99948501	0.032037139	31.14712676	1.000515677	31.16317547
01° 50′ 30″	0.03208718	0.99948345	0.032154222	31.14712676	1.000515255	31.11618834
01° 50′ 40″	0.03213761	0.99948189	0.032134222	31.05324556	1.000518374	31.06934276
01° 50′ 50″	0.03218607	0.99948033	0.032202733	31.03524336	1.000518374	31.02263810
01° 51′ 00″	0.03228298	0.77748033	0.032297817	30.95992802	1.000517738	30.97607372
01° 51′ 10″	0.03228278	0.99947720	0.032348349	30.91347903	1.000521303	30.92964898
01° 51′ 20″	0.03233144	0.99947563	0.032396881	30.86716907	1.000524641	30.88336326
01° 51′ 30″	0.03242835	0.99947406	0.032445413	30.82099750	1.000526214	30.83721594
01° 51′ 40″	0.03247680	0.99947249	0.032493946	30.77496371	1.000527789	30.79120640
01° 51′ 50″	0.03252526	0.99947091	0.032542478	30.72906708	1.000529366	30.74533401
	1.03232320		2.032312170	30., 2, 00, 00		

14 01° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
01° 52′ 00″	0.03257372	0.99946934	0.032591011	30.68330700	1.000530946	30.69959818
01° 52′ 10″	0.03262217	0.99946776	0.032639544	30.63768286	1.000532528	30.65399829
01° 52′ 20″	0.03267063	0.99946617	0.032688077	30.59219406	1.000534113	30.60853373
01° 52′ 30″	0.03271908	0.99946459	0.032736610	30.54683999	1.000535699	30.56320391
01° 52′ 40″	0.03276754	0.99946300	0.032785144	30.50162005	1.000537288	30.51800822
01° 52′ 50″	0.03281599	0.99946141	0.032833677	30.45653366	1.000538880	30.47294608
01° 53′ 00″	0.03286445	0.99945982	0.032882211	30.41158022	1.000540474	30.42801688
01° 53′ 10″	0.03291290	0.99945822	0.032930745	30.36675914	1.000542070	30.38322005
01° 53′ 20″	0.03296136	0.99945663	0.032979279	30.32206984	1.000543669	30.33855499
01° 53′ 30″	0.03300981	0.99945503	0.033027813	30.27751173	1.000545270	30.29402114
01° 53′ 40″	0.03305827	0.99945343	0.033076347	30.23308425	1.000546873	30.24961791
01° 53′ 50″	0.03310672	0.99945182	0.033124882	30.18878682	1.000548478	30.20534472
01° 54′ 00″	0.03315518	0.99945022	0.033173417	30.14461887	1.000550086	30.16120101
01° 54′ 10″	0.03320363	0.99944861	0.033221951	30.10057982	1.000551697	30.11718622
01° 54′ 20″	0.03325209	0.99944700	0.033270486	30.05666912	1.000553310	30.07329976
01° 54′ 30″	0.03330054	0.99944538	0.033319021	30.01288621	1.000554925	30.02954110
01° 54′ 40″	0.03334900	0.99944377	0.033367557	29.96923053	1.000556542	29.98590966
01° 54′ 50″	0.03339745	0.99944215	0.033416092	29.92570152	1.000558162	29.94240490
01° 55′ 00″	0.03344591	0.99944053	0.033464628	29.88229863	1.000559784	29.89902627
01° 55′ 10″	0.03349436	0.99943891	0.033513163	29.83902133	1.000561408	29.85577321
01° 55′ 20″	0.03354281	0.99943728	0.033561699	29.79586905	1.000563035	29.81264518
01° 55′ 30″	0.03359127	0.99943565	0.033610235	29.75284127	1.000564665	29.76964164
01° 55′ 40″	0.03363972	0.99943402	0.033658772	29.70993743	1.000566296	29.72676206
01° 55′ 50″	0.03368818	0.99943239	0.033707308	29.66715702	1.000567930	29.68400589
01° 56′ 00″	0.03373663	0.99943076	0.033755845	29.62449949	1.000569566	29.64137261
01° 56′ 10″	0.03378508	0.99942912	0.033804381	29.58196432	1.000571205	29.59886169
01° 56′ 20″	0.03383354	0.99942748	0.033852918	29.53955098	1.000572846	29.55647259
01° 56′ 30″	0.03388199	0.99942584	0.033901455	29.49725895	1.000574489	29.51420481
01° 56′ 40″	0.03393044	0.99942420	0.033949992	29.45508770	1.000576135	29.47205781
01° 56′ 50″	0.03397890	0.99942255	0.033998530	29.41303673	1.000577783	29.43003109
01° 57′ 00″	0.03402735	0.99942090	0.034047067	29.37110552	1.000579434	29.38812412
01° 57′ 10″	0.03407580	0.99941925	0.034095605	29.32929355	1.000581086	29.34633640
01° 57′ 20″	0.03412426	0.99941760	0.034144143	29.28760032	1.000582741	29.30466741
01° 57′ 30″	0.03417271	0.99941594	0.034192681	29.24602532	1.000584399	29.26311666
01° 57′ 40″	0.03422116	0.99941428	0.034241219	29.20456805	1.000586059	29.22168364
01° 57′ 50″	0.03426962	0.99941262	0.034289757	29.16322801	1.000587721	29.18036785
01° 58′ 00″	0.03431807	0.99941096	0.034338295	29.12200471	1.000589386	29.13916880
01° 58′ 10″	0.03436652	0.99940930	0.034386834	29.08089765	1.000591053	29.09808598
01° 58′ 20″	0.03441497	0.99940763	0.034435373	29.03990633	1.000592722	29.05711892
01° 58′ 30″	0.03446343	0.99940596	0.034483912	28.99903028	1.000594393	29.01626711
01° 58′ 40″	0.03451188	0.99940429	0.034532451	28.95826900	1.000596067	28.97553008
01° 58′ 50″	0.03456033	0.99940261	0.034580990	28.91762201	1.000597744	28.93490734
01° 59′ 00″	0.03460878	0.99940094	0.034629530	28.87708884	1.000599423	28.89439842
01° 59′ 10″	0.03465724	0.99939926	0.034678069	28.83666900	1.000601104	28.85400282
01° 59′ 20″	0.03470569	0.99939758	0.034726609	28.79636202	1.000602787	28.81372009
01° 59′ 30″	0.03475414	0.99939589	0.034775149	28.75616742	1.000604473	28.77354974
01° 59′ 40″	0.03480259	0.99939421	0.034823689	28.71608475	1.000606161	28.73349132
01° 59′ 50″	0.03485104	0.99939252	0.034872229	28.67611352	1.000607851	28.69354434

15 01° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
02° 00′ 00″	0.03489950	0.99939083	0.034920769	28.63625328	1.000609544	28.65370835
02° 00′ 10″	0.03494795	0.99938913	0.034969310	28.59650357	1.000611240	28.61398288
02° 00′ 20″	0.03499640	0.99938744	0.035017851	28.55686392	1.000612937	28.57436748
02° 00′ 30″	0.03504485	0.99938574	0.035066392	28.51733388	1.000614637	28.53486169
02° 00′ 40″	0.03509330	0.99938404	0.035114933	28.47791299	1.000616339	28.49546505
02° 00′ 50″	0.03514175	0.99938234	0.035163474	28.43860081	1.000618044	28.45617711
02° 01′ 00″	0.03519021	0.99938063	0.035212015	28.39939688	1.000619751	28.41699743
02° 01′ 10″	0.03523866	0.99937893	0.035260557	28.36030075	1.000621460	28.37792556
02° 01′ 20″	0.03528711	0.99937722	0.035309099	28.32131199	1.000623172	28.33896104
02° 01′ 30″	0.03533556	0.99937550	0.035357641	28.28243015	1.000624886	28.30010345
02° 01′ 40″	0.03538401	0.99937379	0.035406183	28.24365479	1.000626603	28.26135234
02° 01′ 50″	0.03543246	0.99937207	0.035454725	28.20498548	1.000628321	28.22270727
02° 02′ 00″	0.03548091	0.99937035	0.035503267	28.16642177	1.000630043	28.18416782
02° 02′ 10″	0.03552936	0.99936863	0.035551810	28.12796324	1.000631766	28.14573354
02° 02′ 20″	0.03557781	0.99936691	0.035600353	28.08960946	1.000633492	28.10740400
02° 02′ 30″	0.03562626	0.99936518	0.035648895	28.05136000	1.000635220	28.06917879
02° 02′ 40″	0.03567472	0.99936345	0.035697439	28.01321444	1.000636951	28.03105748
02° 02′ 50″	0.03572317	0.99936172	0.035745982	27.97517235	1.000638684	27.99303963
02° 03′ 00″	0.03577162	0.99935999	0.035794525	27.93723330	1.000640419	27.95512484
02° 03′ 10″	0.03582007	0.99935826	0.035843069	27.89939689	1.000642157	27.91731268
02° 03′ 20″	0.03586852	0.99935652	0.035891612	27.86166270	1.000643897	27.87960273
02° 03′ 30″	0.03591697	0.99935478	0.035940156	27.82403031	1.000645639	27.84199459
02° 03′ 40″	0.03596542	0.99935304	0.035988700	27.78649931	1.000647384	27.80448784
02° 03′ 50″	0.03601387	0.99935129	0.036037245	27.74906930	1.000649131	27.76708208
02° 04′ 00″	0.03606232	0.99934954	0.036085789	27.71173986	1.000650880	27.72977688
02° 04′ 10″	0.03611077	0.99934779	0.036134334	27.67451059	1.000652632	27.69257186
02° 04′ 20″	0.03615922	0.99934604	0.036182878	27.63738108	1.000654386	27.65546660
02° 04′ 30″	0.03620767	0.99934429	0.036231423	27.60035095	1.000656143	27.61846072
02° 04′ 40″	0.03625612	0.99934253	0.036279968	27.56341978	1.000657902	27.58155379
02° 04′ 50″	0.03630456	0.99934077	0.036328514	27.52658718	1.000659663	27.54474544
02° 05′ 00″	0.03635301	0.99933901	0.036377059	27.48985276	1.000661426	27.50803527
02° 05′ 10″	0.03640146	0.99933725	0.036425605	27.45321612	1.000663192	27.47142288
02° 05′ 20″	0.03644991	0.99933548	0.036474151	27.41667688	1.000664961	27.43490789
02° 05′ 30″	0.03649836	0.99933371	0.036522697	27.38023464	1.000666731	27.39848991
02° 05′ 40″	0.03654681	0.99933194	0.036571243	27.34388903	1.000668504	27.36216854
02° 05′ 50″ 02° 06′ 00″	0.03659526	0.99933017	0.036619789	27.30763965	1.000670280	27.32594341
02° 06′ 00″ 02° 06′ 10″	0.03664371	0.99932839	0.036668335	27.27148613	1.000672058	27.28981414
02° 06′ 10″	0.03669216	0.99932662	0.036716882	27.23542808 27.19946514	1.000673838	27.25378034
02° 06′ 30″	0.03674061	0.99932484	0.036765429		1.000675620	27.21784164 27.18199766
02° 06′ 30″ 02° 06′ 40″	0.03678905	0.99932305	0.036813976	27.16359691	1.000677405	
02° 06′ 50″	0.03683750	0.99932127	0.036862523	27.12782303	1.000679192	27.14624803
02° 06′ 50″ 02° 07′ 00″	0.03688595	0.99931948	0.036911070	27.09214312	1.000680982 1.000682774	27.11059238 27.07503033
02° 07′ 00″ 02° 07′ 10″	0.03693440 0.03698285	0.99931769 0.99931590	0.036959618 0.037008166	27.05655682 27.02106376	1.000682774	27.07503033
02° 07′ 10″ 02° 07′ 20″						
02° 07′ 30″	0.03703130	0.99931411 0.99931231	0.037056713	26.98566357	1.000686364	27.00418557 26.96890214
02° 07′ 40″	0.03707974	0.99931231	0.037105261 0.037153810	26.95035589 26.91514035	1.000688163 1.000689965	26.96890214
02° 07′ 50″	0.03712817	0.99930871	0.037133810	26.88001660	1.000689763	26.89861134
	0.03/1/004	0.///300/1	0.031 202330	20.00001000	1.0000/1/00	20.07001134

16 02° 07′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
02° 08′ 00″	0.03722509	0.99930691	0.037250907	26.84498427	1.000693574	26.86360327
02° 08′ 10″	0.03727354	0.99930510	0.037299455	26.81004301	1.000695383	26.82868626
02° 08′ 20″	0.03732198	0.99930329	0.037348004	26.77519247	1.000697194	26.79385996
02° 08′ 30″	0.03737043	0.99930148	0.037396553	26.74043229	1.000699007	26.75912403
02° 08′ 40″	0.03741888	0.99929967	0.037445103	26.70576211	1.000700822	26.72447811
02° 08′ 50″	0.03746733	0.99929785	0.037493652	26.67118160	1.000702640	26.68992185
02° 09′ 00″	0.03751577	0.99929604	0.037542202	26.63669041	1.000704460	26.65545490
02° 09′ 10″	0.03756422	0.99929422	0.037590751	26.60228818	1.000706283	26.62107692
02° 09′ 20″	0.03761267	0.99929239	0.037639301	26.56797457	1.000708108	26.58678756
02° 09′ 30″	0.03766111	0.99929057	0.037687851	26.53374925	1.000709935	26.55258649
02° 09′ 40″	0.03770956	0.99928874	0.037736402	26.49961187	1.000711765	26.51847335
02° 09′ 50″	0.03775801	0.99928691	0.037784952	26.46556209	1.000713597	26.48444782
02° 10′ 00″	0.03780646	0.99928508	0.037833503	26.43159957	1.000715431	26.45050956
02° 10′ 10″	0.03785490	0.99928325	0.037882054	26.39772399	1.000717268	26.41665822
02° 10′ 20″	0.03790335	0.99928141	0.037930605	26.36393500	1.000719107	26.38289349
02° 10′ 30″	0.03795179	0.99927957	0.037979156	26.33023228	1.000720948	26.34921501
02° 10′ 40″	0.03800024	0.99927773	0.038027707	26.29661549	1.000722792	26.31562248
02° 10′ 50″	0.03804869	0.99927589	0.038076259	26.26308431	1.000724638	26.28211555
02° 11′ 00″	0.03809713	0.99927404	0.038124811	26.22963841	1.000726487	26.24869390
02° 11′ 10″	0.03814558	0.99927219	0.038173363	26.19627747	1.000728338	26.21535720
02° 11′ 20″	0.03819403	0.99927034	0.038221915	26.16300115	1.000730191	26.18210514
02° 11′ 30″	0.03824247	0.99926849	0.038270467	26.12980915	1.000732046	26.14893738
02° 11′ 40″	0.03829092	0.99926663	0.038319020	26.09670114	1.000733904	26.11585362
02° 11′ 50″	0.03833936	0.99926478	0.038367572	26.06367679	1.000735765	26.08285352
02° 12′ 00″	0.03838781	0.99926292	0.038416125	26.03073580	1.000737627	26.04993678
02° 12′ 10″	0.03843625	0.99926105	0.038464678	25.99787785	1.000739492	26.01710308
02° 12′ 20″	0.03848470	0.99925919	0.038513231	25.96510263	1.000741360	25.98435211
02° 12′ 30″	0.03853315	0.99925732	0.038561785	25.93240981	1.000743229	25.95168354
02° 12′ 40″	0.03858159	0.99925545	0.038610338	25.89979910	1.000745102	25.91909708
02° 12′ 50″	0.03863004	0.99925358	0.038658892	25.86727018	1.000746976	25.88659241
02° 13′ 00″	0.03867848	0.99925171	0.038707446	25.83482275	1.000748853	25.85416923
02° 13′ 10″	0.03872693	0.99924983	0.038756000	25.80245650	1.000750732	25.82182723
02° 13′ 20″	0.03877537	0.99924795	0.038804554	25.77017112	1.000752613	25.78956610
02° 13′ 30″	0.03882382	0.99924607	0.038853109	25.73796631	1.000754497	25.75738554
02° 13′ 40″	0.03887226	0.99924419	0.038901663	25.70584178	1.000756384	25.72528526
02° 13′ 50″	0.03892071	0.99924230	0.038950218	25.67379722	1.000758272	25.69326494
02° 14′ 00″	0.03896915	0.99924041	0.038998773	25.64183232	1.000760163	25.66132430
02° 14′ 10″	0.03901759	0.99923852	0.039047328	25.60994681	1.000762057	25.62946304
02° 14′ 20″	0.03906604	0.99923663	0.039095884	25.57814037	1.000763952	25.59768085
02° 14′ 30″	0.03911448	0.99923474	0.039144439	25.54641273	1.000765850	25.56597745
02° 14′ 40″	0.03916293	0.99923284	0.039192995	25.51476357	1.000767751	25.53435255
02° 14′ 50″	0.03921137	0.99923094	0.039241551	25.48319262	1.000769653	25.50280585
02° 15′ 00″	0.03925982	0.99922904	0.039290107	25.45169958	1.000771559	25.47133706
02° 15′ 10″	0.03930826	0.99922713	0.039338663	25.42028416	1.000773466	25.43994589
02° 15′ 20″	0.03935670	0.99922522	0.039387220	25.38894609	1.000775376	25.40863207
02° 15′ 30″	0.03940515	0.99922332	0.039435776	25.35768506	1.000777288	25.37739529
02° 15′ 40″	0.03945359	0.99922140	0.039484333	25.32650081	1.000779203	25.34623529
02° 15′ 50″	0.03950203	0.99921949	0.039532890	25.29539304	1.000781120	25.31515177

17 02° 15′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(\mathbf{x})$	sec(x)	$\csc(\mathbf{x})$
02° 16′ 00″	0.03955048	0.99921757	0.039581448	25.26436148	1.000783039	25.28414446
02° 16′ 10″	0.03959892	0.99921566	0.039630005	25.23340584	1.000784961	25.25321307
02° 16′ 20″	0.03964736	0.99921373	0.039678563	25.20252585	1.000786885	25.22235732
02° 16′ 30″	0.03969581	0.99921181	0.039727120	25.17172122	1.000788811	25.19157695
02° 16′ 40″	0.03974425	0.99920989	0.039775678	25.14099169	1.000790740	25.16087167
02° 16′ 50″	0.03979269	0.99920796	0.039824237	25.11033698	1.000792671	25.13024121
02° 17′ 00″	0.03984114	0.99920603	0.039872795	25.07975682	1.000794604	25.09968530
02° 17′ 10″	0.03988958	0.99920409	0.039921353	25.04925093	1.000796540	25.06920366
02° 17′ 20″	0.03993802	0.99920216	0.039969912	25.01881905	1.000798478	25.03879603
02° 17′ 30″	0.03998647	0.99920022	0.040018471	24.98846090	1.000800419	25.00846213
02° 17′ 40″	0.04003491	0.99919828	0.040067030	24.95817622	1.000802362	24.97820170
02° 17′ 50″	0.04008335	0.99919634	0.040115589	24.92796473	1.000804307	24.94801447
02° 18′ 00″	0.04013179	0.99919440	0.040164149	24.89782619	1.000806254	24.91790017
02° 18′ 10″	0.04018023	0.99919245	0.040212709	24.86776031	1.000808204	24.88785855
02° 18′ 20″	0.04022868	0.99919050	0.040261268	24.83776685	1.000810157	24.85788933
02° 18′ 30″	0.04027712	0.99918855	0.040309829	24.80784553	1.000812111	24.82799226
02° 18′ 40″	0.04032556	0.99918659	0.040358389	24.77799610	1.000814068	24.79816708
02° 18′ 50″	0.04037400	0.99918464	0.040406949	24.74821830	1.000816028	24.76841353
02° 19′ 00″	0.04042244	0.99918268	0.040455510	24.71851187	1.000817990	24.73873135
02° 19′ 10″	0.04047089	0.99918072	0.040504071	24.68887655	1.000819954	24.70912029
02° 19′ 20″	0.04051933	0.99917875	0.040552632	24.65931209	1.000821920	24.67958008
02° 19′ 30″	0.04056777	0.99917679	0.040601193	24.62981824	1.000823889	24.65011048
02° 19′ 40″	0.04061621	0.99917482	0.040649754	24.60039474	1.000825860	24.62071123
02° 19′ 50″	0.04066465	0.99917285	0.040698316	24.57104134	1.000827834	24.59138208
02° 20′ 00″	0.04071309	0.99917088	0.040746878	24.54175779	1.000829810	24.56212278
02° 20′ 10″	0.04076153	0.99916890	0.040795440	24.51254385	1.000831788	24.53293309
02° 20′ 20″	0.04080998	0.99916693	0.040844002	24.48339925	1.000833769	24.50381274
02° 20′ 30″	0.04085842	0.99916495	0.040892564	24.45432376	1.000835752	24.47476151
02° 20′ 40″	0.04090686	0.99916296	0.040941127	24.42531714	1.000837737	24.44577913
02° 20′ 50″	0.04095530	0.99916098	0.040989689	24.39637913	1.000839725	24.41686537
02° 21′ 00″	0.04100374	0.99915899	0.041038252	24.36750949	1.000841715	24.38801999
02° 21′ 10″	0.04105218	0.99915700	0.041086815	24.33870799	1.000843707	24.35924273
02° 21′ 20″	0.04110062	0.99915501	0.041135379	24.30997437	1.000845702	24.33053337
02° 21′ 30″	0.04114906	0.99915302	0.041183942	24.28130841	1.000847699	24.30189165
02° 21′ 40″	0.04119750	0.99915102	0.041232506	24.25270985	1.000849699	24.27331735
02° 21′ 50″	0.04124594	0.99914902	0.041281070	24.22417847	1.000851701	24.24481022
02° 22′ 00″	0.04129438	0.99914702	0.041329634	24.19571403	1.000853705	24.21637003
02° 22′ 10″	0.04134282	0.99914502	0.041378198	24.16731628	1.000855712	24.18799654
02° 22′ 20″	0.04139126	0.99914301	0.041426763	24.13898501	1.000857720	24.15968951
02° 22′ 30″	0.04143970	0.99914101	0.041475327	24.11071997	1.000859732	24.13144872
02° 22′ 40″	0.04148814	0.99913900	0.041523892	24.08252093	1.000861746	24.10327394
02° 22′ 50″	0.04153658	0.99913698	0.041572457	24.05438766	1.000863762	24.07516492
02° 23′ 00″	0.04158502	0.99913497	0.041621022	24.02631994	1.000865780	24.04712144
02° 23′ 10″	0.04163346	0.99913295	0.041669588	23.99831752	1.000867801	24.01914328
02° 23′ 20″ 02° 23′ 30″	0.04168190 0.04173034	0.99913093	0.041718153	23.97038019	1.000869824	23.99123020 23.96338198
02° 23′ 40″	0.04173034	0.99912891 0.99912689	0.041766719	23.94250772	1.000871849	
02° 23′ 40″ 02° 23′ 50″	0.04177878	0.99912689	0.041815285 0.041863852	23.91469988 23.88695645	1.000873877 1.000875907	23.93559839 23.90787921
	0.04102/21	0.///12400	0.041003032	23.000/3043	1.0000/3/0/	23.70707721

18 02° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
02° 24′ 00″	0.04187565	0.99912283	0.041912418	23.85927720	1.000877940	23.88022421
02° 24′ 10″	0.04192409	0.99912080	0.041960985	23.83166191	1.000879975	23.85263317
02° 24′ 20″	0.04197253	0.99911877	0.042009552	23.80411036	1.000882012	23.82510587
02° 24′ 30″	0.04202097	0.99911673	0.042058119	23.77662233	1.000884052	23.79764209
02° 24′ 40″	0.04206941	0.99911469	0.042106686	23.74919759	1.000886094	23.77024161
02° 24′ 50″	0.04211785	0.99911265	0.042155253	23.72183594	1.000888138	23.74290421
02° 25′ 00″	0.04216629	0.99911061	0.042203821	23.69453715	1.000890185	23.71562968
02° 25′ 10″	0.04221472	0.99910856	0.042252389	23.66730101	1.000892234	23.68841779
02° 25′ 20″	0.04226316	0.99910651	0.042300957	23.64012730	1.000894286	23.66126833
02° 25′ 30″	0.04231160	0.99910446	0.042349525	23.61301581	1.000896339	23.63418109
02° 25′ 40″	0.04236004	0.99910241	0.042398093	23.58596632	1.000898396	23.60715585
02° 25′ 50″	0.04240848	0.99910036	0.042446662	23.55897862	1.000900454	23.58019240
02° 26′ 00″	0.04245691	0.99909830	0.042495231	23.53205250	1.000902515	23.55329053
02° 26′ 10″	0.04250535	0.99909624	0.042543800	23.50518774	1.000904578	23.52645003
02° 26′ 20″	0.04255379	0.99909418	0.042592369	23.47838415	1.000906644	23.49967068
02° 26′ 30″	0.04260223	0.99909211	0.042640938	23.45164150	1.000908712	23.47295229
02° 26′ 40″	0.04265066	0.99909005	0.042689508	23.42495960	1.000910782	23.44629464
02° 26′ 50″	0.04269910	0.99908798	0.042738078	23.39833823	1.000912855	23.41969752
02° 27′ 00″	0.04274754	0.99908591	0.042786648	23.37177719	1.000914930	23.39316074
02° 27′ 10″	0.04279597	0.99908383	0.042835218	23.34527628	1.000917008	23.36668407
02° 27′ 20″	0.04284441	0.99908176	0.042883788	23.31883529	1.000919087	23.34026733
02° 27′ 30″	0.04289285	0.99907968	0.042932359	23.29245401	1.000921169	23.31391031
02° 27′ 40″	0.04294128	0.99907760	0.042980930	23.26613225	1.000923254	23.28761280
02° 27′ 50″	0.04298972	0.99907551	0.043029501	23.23986980	1.000925341	23.26137460
02° 28′ 00″	0.04303816	0.99907343	0.043078072	23.21366646	1.000927430	23.23519552
02° 28′ 10″	0.04308659	0.99907134	0.043126644	23.18752204	1.000929522	23.20907535
02° 28′ 20″	0.04313503	0.99906925	0.043175215	23.16143634	1.000931616	23.18301389
02° 28′ 30″	0.04318347	0.99906716	0.043223787	23.13540915	1.000933712	23.15701096
02° 28′ 40″	0.04323190	0.99906506	0.043272359	23.10944028	1.000935811	23.13106634
02° 28′ 50″	0.04328034	0.99906297	0.043320931	23.08352953	1.000937912	23.10517985
02° 29′ 00″	0.04332877	0.99906087	0.043369504	23.05767672	1.000940015	23.07935129
02° 29′ 10″	0.04337721	0.99905877	0.043418077	23.03188164	1.000942121	23.05358046
02° 29′ 20″	0.04342565	0.99905666	0.043466649	23.00614411	1.000944229	23.02786718
02° 29′ 30″	0.04347408	0.99905456	0.043515222	22.98046392	1.000946340	23.00221124
02° 29′ 40″	0.04352252	0.99905245	0.043563796	22.95484089	1.000948452	22.97661247
02° 29′ 50″	0.04357095	0.99905034		22.92927483	1.000950568	22.95107066
02° 30′ 00″	0.04361939	0.99904822	0.043660943	22.90376555	1.000952685	22.92558563
02° 30′ 10″	0.04366782	0.99904611	0.043709517	22.87831285	1.000954805	22.90015718
02° 30′ 20″	0.04371626	0.99904399	0.043758091	22.85291656	1.000956927	22.87478514
02° 30′ 30″	0.04376469	0.99904187	0.043806665	22.82757648	1.000959052	22.84946931
02° 30′ 40″	0.04381313	0.99903974	0.043855240	22.80229242	1.000961179	22.82420951
02° 30′ 50″	0.04386156	0.99903762	0.043903814	22.77706421	1.000963308	22.79900555
02° 31′ 00″	0.04391000	0.99903549	0.043952389	22.75189165	1.000965440	22.77385724
02° 31′ 10″	0.04395843	0.99903336	0.044000964	22.72677456	1.000967574	22.74876441
02° 31′ 20″ 02° 31′ 30″	0.04400687	0.99903123	0.044049540	22.70171276	1.000969711	22.72372686
02° 31′ 30″ 02° 31′ 40″	0.04405530	0.99902909	0.044098115	22.67670607	1.000971850	22.69874442
02° 31′ 40″ 02° 31′ 50″	0.04410373 0.04415217	0.99902696 0.99902482	0.044146691 0.044195267	22.65175430 22.62685728	1.000973991	22.67381690 22.64894413
02 31 30"	0.0441321/	0.77702482	0.04417326/	22.02003/28	1.000976134	22.04074413

19 02° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
02° 32′ 00″	0.04420060	0.99902268	0.044243843	22.60201481	1.000978280	22.62412592
02° 32′ 10″	0.04424904	0.99902053	0.044292420	22.57722674	1.000980429	22.59936209
02° 32′ 20″	0.04429747	0.99901839	0.044340996	22.55249286	1.000982579	22.57465247
02° 32′ 30″	0.04434590	0.99901624	0.044389573	22.52781302	1.000984732	22.54999688
02° 32′ 40″	0.04439434	0.99901409	0.044438150	22.50318702	1.000986888	22.52539514
02° 32′ 50″	0.04444277	0.99901193	0.044486727	22.47861470	1.000989045	22.50084707
02° 33′ 00″	0.04449120	0.99900978	0.044535305	22.45409588	1.000991205	22.47635251
02° 33′ 10″	0.04453964	0.99900762	0.044583882	22.42963039	1.000993368	22.45191126
02° 33′ 20″	0.04458807	0.99900546	0.044632460	22.40521804	1.000995533	22.42752317
02° 33′ 30″	0.04463650	0.99900329	0.044681038	22.38085868	1.000997700	22.40318806
02° 33′ 40″	0.04468494	0.99900113	0.044729616	22.35655211	1.000999869	22.37890575
02° 33′ 50″	0.04473337	0.99899896	0.044778195	22.33229819	1.001002041	22.35467607
02° 34′ 00″	0.04478180	0.99899679	0.044826774	22.30809672	1.001004216	22.33049886
02° 34′ 10″	0.04483024	0.99899462	0.044875352	22.28394755	1.001006392	22.30637394
02° 34′ 20″	0.04487867	0.99899244	0.044923932	22.25985050	1.001008571	22.28230114
02° 34′ 30″	0.04492710	0.99899027	0.044972511	22.23580540	1.001010753	22.25828030
02° 34′ 40″	0.04497553	0.99898809	0.045021090	22.21181209	1.001012936	22.23431124
02° 34′ 50″	0.04502397	0.99898591	0.045069670	22.18787040	1.001015122	22.21039380
02° 35′ 00″	0.04507240	0.99898372	0.045118250	22.16398016	1.001017311	22.18652782
02° 35′ 10″	0.04512083	0.99898154	0.045166830	22.14014121	1.001019502	22.16271312
02° 35′ 20″	0.04516926	0.99897935	0.045215411	22.11635338	1.001021695	22.13894955
02° 35′ 30″	0.04521769	0.99897716	0.045263991	22.09261651	1.001023890	22.11523693
02° 35′ 40″	0.04526612	0.99897496	0.045312572	22.06893044	1.001026088	22.09157510
02° 35′ 50″	0.04531456	0.99897277	0.045361153	22.04529499	1.001028288	22.06796391
02° 36′ 00″	0.04536299	0.99897057	0.045409734	22.02171001	1.001030491	22.04440319
02° 36′ 10″	0.04541142	0.99896837	0.045458316	21.99817534	1.001032696	22.02089277
02° 36′ 20″	0.04545985	0.99896617	0.045506897	21.97469081	1.001034903	21.99743250
02° 36′ 30″	0.04550828	0.99896396	0.045555479	21.95125627	1.001037113	21.97402221
02° 36′ 40″	0.04555671	0.99896175	0.045604061	21.92787156	1.001039325	21.95066175
02° 36′ 50″	0.04560514	0.99895954	0.045652644	21.90453652	1.001041540	21.92735096
02° 37′ 00″	0.04565357	0.99895733	0.045701226	21.88125098	1.001043756	21.90408967
02° 37′ 10″	0.04570201	0.99895512	0.045749809	21.85801480	1.001045975	21.88087774
02° 37′ 20″	0.04575044	0.99895290	0.045798392	21.83482781	1.001048197	21.85771501
02° 37′ 30″	0.04579887	0.99895068	0.045846975	21.81168986	1.001050421	21.83460131
02° 37′ 40″	0.04584730	0.99894846	0.045895558	21.78860079	1.001052647	21.81153650
02° 37′ 50″	0.04589573	0.99894624	0.045944142	21.76556045	1.001054876	21.78852041
02° 38′ 00″	0.04594416	0.99894401	0.045992726	21.74256868	1.001057107	21.76555290
02° 38′ 10″	0.04599259	0.99894178	0.046041310	21.71962534	1.001059340	21.74263381
02° 38′ 20″	0.04604102	0.99893955	0.046089894	21.69673026	1.001061576	21.71976298
02° 38′ 30″	0.04608945	0.99893732	0.046138479	21.67388330	1.001063814	21.69694028
02° 38′ 40″	0.04613788	0.99893508	0.046187063	21.65108430	1.001066054	21.67416553
02° 38′ 50″	0.04618631	0.99893284	0.046235648	21.62833312	1.001068297	21.65143860
02° 39′ 00″	0.04623474	0.99893060	0.046284233	21.60562960	1.001070542	21.62875933
02° 39′ 10″	0.04628317	0.99892836	0.046332819	21.58297359	1.001072790	21.60612758
02° 39′ 20″	0.04633160	0.99892611	0.046381404	21.56036494	1.001075039	21.58354319
02° 39′ 30″	0.04638003	0.99892387	0.046429990	21.53780351	1.001077292	21.56100601
02° 39′ 40″	0.04642845	0.99892162	0.046478576	21.51528915	1.001079546	21.53851590
02° 39′ 50″	0.04647688	0.99891937	0.046527162	21.49282171	1.001081803	21.51607271

20 02° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
02° 40′ 00″	0.04652531	0.99891711	0.046575749	21.47040104	1.001084063	21.49367630
02° 40′ 10″	0.04657374	0.99891485	0.046624335	21.44802700	1.001086324	21.47132651
02° 40′ 20″	0.04662217	0.99891260	0.046672922	21.42569944	1.001088588	21.44902320
02° 40′ 30″	0.04667060	0.99891033	0.046721509	21.40341821	1.001090855	21.42676623
02° 40′ 40″	0.04671903	0.99890807	0.046770096	21.38118318	1.001093124	21.40455546
02° 40′ 50″	0.04676746	0.99890580	0.046818684	21.35899420	1.001095395	21.38239073
02° 41′ 00″	0.04681588	0.99890354	0.046867272	21.33685113	1.001097668	21.36027191
02° 41′ 10″	0.04686431	0.99890126	0.046915860	21.31475382	1.001099944	21.33819886
02° 41′ 20″	0.04691274	0.99889899	0.046964448	21.29270213	1.001102222	21.31617142
02° 41′ 30″	0.04696117	0.99889672	0.047013036	21.27069593	1.001104503	21.29418947
02° 41′ 40″	0.04700960	0.99889444	0.047061625	21.24873506	1.001106786	21.27225286
02° 41′ 50″	0.04705802	0.99889216	0.047110214	21.22681940	1.001109071	21.25036145
02° 42′ 00″	0.04710645	0.99888987	0.047158803	21.20494879	1.001111359	21.22851510
02° 42′ 10″	0.04715488	0.99888759	0.047207392	21.18312311	1.001113649	21.20671367
02° 42′ 20″	0.04720331	0.99888530	0.047255982	21.16134221	1.001115941	21.18495702
02° 42′ 30″	0.04725173	0.99888301	0.047304571	21.13960595	1.001118236	21.16324502
02° 42′ 40″	0.04730016	0.99888072	0.047353161	21.11791420	1.001120533	21.14157753
02° 42′ 50″	0.04734859	0.99887843	0.047401752	21.09626683	1.001122833	21.11995441
02° 43′ 00″	0.04739701	0.99887613	0.047450342	21.07466369	1.001125135	21.09837552
02° 43′ 10″	0.04744544	0.99887383	0.047498933	21.05310465	1.001127439	21.07684074
02° 43′ 20″	0.04749387	0.99887153	0.047547524	21.03158958	1.001129745	21.05534992
02° 43′ 30″	0.04754229	0.99886923	0.047596115	21.01011833	1.001132054	21.03390293
02° 43′ 40″	0.04759072	0.99886692	0.047644706	20.98869079	1.001134366	21.01249964
02° 43′ 50″	0.04763915	0.99886461	0.047693297	20.96730680	1.001136679	20.99113991
02° 44′ 00″	0.04768757	0.99886230	0.047741889	20.94596625	1.001138995	20.96982361
02° 44′ 10″	0.04773600	0.99885999	0.047790481	20.92466900	1.001141314	20.94855061
02° 44′ 20″	0.04778443	0.99885767	0.047839073	20.90341491	1.001143635	20.92732078
02° 44′ 30″	0.04783285	0.99885535	0.047887666	20.88220386	1.001145958	20.90613398
02° 44′ 40″	0.04788128	0.99885303	0.047936258	20.86103571	1.001148283	20.88499008
02° 44′ 50″	0.04792970	0.99885071	0.047984851	20.83991033	1.001150611	20.86388896
02° 45′ 00″	0.04797813	0.99884839	0.048033444	20.81882760	1.001152941	20.84283049
02° 45′ 10″	0.04802655	0.99884606	0.048082038	20.79778739	1.001155274	20.82181453
02° 45′ 20″	0.04807498	0.99884373	0.048130631	20.77678957	1.001157609	20.80084096
02° 45′ 30″	0.04812340	0.99884140	0.048179225	20.75583400	1.001159946	20.77990965
02° 45′ 40″	0.04817183	0.99883906	0.048227819	20.73492056	1.001162286	20.75902047
02° 45′ 50″ 02° 46′ 00″	0.04822025	0.99883673	0.048276413	20.71404913	1.001164628 1.001166972	20.73817329
02° 46′ 10″	0.04826868	0.99883439 0.99883205	0.048325008	20.69321958		20.71736799
02° 46′ 20″	0.04831710 0.04836553	0.99882970	0.048373603 0.048422198	20.67243178 20.65168560	1.001169319 1.001171668	20.69660445
02° 46′ 30″	0.04841395	0.99882736	0.048470793	20.63168360	1.001171666	20.67588253 20.65520211
02° 46′ 40″	0.04846238	0.99882501	0.048470793	20.63098093	1.001174020	20.63320211
02° 46′ 50″	0.04851080	0.99882266	0.048567984	20.58969559	1.001178374	20.61396528
02° 47′ 00″	0.04855923	0.99882030	0.048616580	20.56911468	1.001178730	20.59340862
02° 47′ 10″	0.04860765	0.77882030	0.048665176	20.54857477	1.001183449	20.57289297
02° 47′ 10′′ 02° 47′ 20′′	0.04865607	0.77881773	0.048713772	20.52807575	1.001185813	20.55241820
02° 47′ 30″	0.04870450	0.99881323	0.048762368	20.50761749	1.001188178	20.53198420
02° 47′ 40″	0.04875292	0.99881087	0.048810965	20.48719987	1.001190546	20.51159083
02° 47′ 50″	0.04880135	0.99880850	0.048859562	20.46682277	1.001170340	20.49123798
	1 2.0 1000 100	3.7.700000				

21 02° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
02° 48′ 00″	0.04884977	0.99880614	0.048908159	20.44648606	1.001195290	20.47092554
02° 48′ 10″	0.04889819	0.99880377	0.048956757	20.42618964	1.001197665	20.45065337
02° 48′ 20″	0.04894662	0.99880140	0.049005355	20.40593337	1.001200042	20.43042136
02° 48′ 30″	0.04899504	0.99879902	0.049053952	20.38571715	1.001202422	20.41022939
02° 48′ 40″	0.04904346	0.99879665	0.049102551	20.36554084	1.001204804	20.39007734
02° 48′ 50″	0.04909189	0.99879427	0.049151149	20.34540434	1.001207189	20.36996509
02° 49′ 00″	0.04914031	0.99879189	0.049199748	20.32530753	1.001209576	20.34989253
02° 49′ 10″	0.04918873	0.99878950	0.049248346	20.30525028	1.001211965	20.32985954
02° 49′ 20″	0.04923715	0.99878712	0.049296946	20.28523248	1.001214357	20.30986599
02° 49′ 30″	0.04928558	0.99878473	0.049345545	20.26525401	1.001216751	20.28991179
02° 49′ 40″	0.04933400	0.99878234	0.049394144	20.24531477	1.001219148	20.26999680
02° 49′ 50″	0.04938242	0.99877994	0.049442744	20.22541463	1.001221546	20.25012091
02° 50′ 00″	0.04943084	0.99877755	0.049491344	20.20555348	1.001223948	20.23028401
02° 50′ 10″	0.04947927	0.99877515	0.049539944	20.18573120	1.001226351	20.21048599
02° 50′ 20″	0.04952769	0.99877275	0.049588545	20.16594767	1.001228757	20.19072672
02° 50′ 30″	0.04957611	0.99877035	0.049637146	20.14620280	1.001231165	20.17100610
02° 50′ 40″	0.04962453	0.99876794	0.049685746	20.12649646	1.001233576	20.15132402
02° 50′ 50″	0.04967295	0.99876554	0.049734348	20.10682854	1.001235989	20.13168035
02° 51′ 00″	0.04972137	0.99876313	0.049782949	20.08719892	1.001238404	20.11207499
02° 51′ 10″	0.04976980	0.99876072	0.049831551	20.06760750	1.001240822	20.09250783
02° 51′ 20″	0.04981822	0.99875830	0.049880153	20.04805417	1.001243242	20.07297875
02° 51′ 30″	0.04986664	0.99875589	0.049928755	20.02853881	1.001245664	20.05348764
02° 51′ 40″	0.04991506	0.99875347	0.049977357	20.00906131	1.001248089	20.03403440
02° 51′ 50″	0.04996348	0.99875105	0.050025960	19.98962156	1.001250516	20.01461891
02° 52′ 00″	0.05001190	0.99874862	0.050074562	19.97021946	1.001252946	19.99524106
02° 52′ 10″	0.05006032	0.99874620	0.050123165	19.95085488	1.001255378	19.97590075
02° 52′ 20″	0.05010874	0.99874377	0.050171769	19.93152774	1.001257812	19.95659786
02° 52′ 30″	0.05015716	0.99874134	0.050220372	19.91223791	1.001260249	19.93733228
02° 52′ 40″	0.05020558	0.99873890	0.050268976	19.89298528	1.001262688	19.91810391
02° 52′ 50″	0.05025400	0.99873647	0.050317580	19.87376976	1.001265129	19.89891265
02° 53′ 00″	0.05030242	0.99873403	0.050366184	19.85459123	1.001267573	19.87975837
02° 53′ 10″	0.05035084	0.99873159	0.050414789	19.83544959	1.001270019	19.86064098
02° 53′ 20″	0.05039926	0.99872915	0.050463393	19.81634472	1.001272467	19.84156038
02° 53′ 30″	0.05044768	0.99872671	0.050511998	19.79727653	1.001274918	19.82251644
02° 53′ 40″	0.05049610	0.99872426	0.050560604	19.77824491	1.001277371	19.80350908
02° 53′ 50″	0.05054452	0.99872181	0.050609209	19.75924975	1.001279827	19.78453817
02° 54′ 00″	0.05059294	0.99871936	0.050657815	19.74029095	1.001282285	19.76560363
02° 54′ 10″	0.05064136	0.99871690	0.050706421	19.72136840	1.001284745	19.74670534
02° 54′ 20″	0.05068978	0.99871445	0.050755027	19.70248201	1.001287208	19.72784320
02° 54′ 30″	0.05073820	0.99871199	0.050803633	19.68363166	1.001289673	19.70901710
02° 54′ 40″	0.05078662	0.99870953	0.050852240	19.66481725	1.001292140	19.69022695
02° 54′ 50″	0.05083503	0.99870706	0.050900847	19.64603868	1.001294610	19.67147264
02° 55′ 00″	0.05088345	0.99870460	0.050949454	19.62729585	1.001297082	19.65275407
02° 55′ 10″	0.05093187	0.99870213	0.050998061	19.60858866	1.001299557	19.63407113
02° 55′ 20″	0.05098029	0.99869966	0.051046669	19.58991700	1.001302034	19.61542373
02° 55′ 30″	0.05102871	0.99869719	0.051095276	19.57128077	1.001304513	19.59681176
02° 55′ 40″	0.05107713	0.99869471	0.051143884	19.55267988	1.001306994	19.57823512
02° 55′ 50″	0.05112554	0.99869223	0.051192493	19.53411421	1.001309478	19.55969371
						

22 02° 55′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
02° 56′ 00″	0.05117396	0.99868975	0.051241101	19.51558368	1.001311965	19.54118744
02° 56′ 10″	0.05122238	0.99868727	0.051289710	19.49708818	1.001314453	19.52271619
02° 56′ 20″	0.05127080	0.99868479	0.051338319	19.47862762	1.001316944	19.50427988
02° 56′ 30″	0.05131922	0.99868230	0.051386928	19.46020188	1.001319438	19.48587841
02° 56′ 40″	0.05136763	0.99867981	0.051435538	19.44181089	1.001321934	19.46751167
02° 56′ 50″	0.05141605	0.99867732	0.051484148	19.42345452	1.001324432	19.44917956
02° 57′ 00″	0.05146447	0.99867483	0.051532758	19.40513270	1.001326932	19.43088200
02° 57′ 10″	0.05151288	0.99867233	0.051581368	19.38684532	1.001329435	19.41261887
02° 57′ 20″	0.05156130	0.99866983	0.051629978	19.36859228	1.001331940	19.39439009
02° 57′ 30″	0.05160972	0.99866733	0.051678589	19.35037350	1.001334448	19.37619556
02° 57′ 40″	0.05165814	0.99866483	0.051727200	19.33218886	1.001336958	19.35803518
02° 57′ 50″	0.05170655	0.99866232	0.051775811	19.31403828	1.001339470	19.33990885
02° 58′ 00″	0.05175497	0.99865981	0.051824423	19.29592165	1.001341985	19.32181649
02° 58′ 10″	0.05180338	0.99865730	0.051873034	19.27783889	1.001344502	19.30375799
02° 58′ 20″	0.05185180	0.99865479	0.051921646	19.25978991	1.001347021	19.28573326
02° 58′ 30″	0.05190022	0.99865228	0.051970259	19.24177459	1.001349543	19.26774220
02° 58′ 40″	0.05194863	0.99864976	0.052018871	19.22379286	1.001352067	19.24978472
02° 58′ 50″	0.05199705	0.99864724	0.052067484	19.20584461	1.001354594	19.23186073
02° 59′ 00″	0.05204546	0.99864472	0.052116097	19.18792975	1.001357123	19.21397013
02° 59′ 10″	0.05209388	0.99864219	0.052164710	19.17004820	1.001359654	19.19611284
02° 59′ 20″	0.05214230	0.99863967	0.052213323	19.15219985	1.001362188	19.17828875
02° 59′ 30″	0.05219071	0.99863714	0.052261937	19.13438462	1.001364724	19.16049777
02° 59′ 40″	0.05223913	0.99863460	0.052310551	19.11660241	1.001367262	19.14273982
02° 59′ 50″	0.05228754	0.99863207	0.052359165	19.09885313	1.001369803	19.12501479
03° 00′ 00″	0.05233596	0.99862953	0.052407779	19.08113669	1.001372346	19.10732261
03° 00′ 10″	0.05238437	0.99862700	0.052456394	19.06345299	1.001374891	19.08966317
03° 00′ 20″	0.05243279	0.99862446	0.052505009	19.04580196	1.001377439	19.07203639
03° 00′ 30″	0.05248120	0.99862191	0.052553624	19.02818349	1.001379990	19.05444218
03° 00′ 40″	0.05252961	0.99861937	0.052602239	19.01059750	1.001382542	19.03688045
03° 00′ 50″	0.05257803	0.99861682	0.052650855	18.99304389	1.001385097	19.01935110
03° 01′ 00″	0.05262644	0.99861427	0.052699471	18.97552258	1.001387654	19.00185405
03° 01′ 10″	0.05267486	0.99861172	0.052748087	18.95803348	1.001390214	18.98438921
03° 01′ 20″	0.05272327	0.99860916	0.052796703	18.94057650	1.001392776	18.96695648
03° 01′ 30″	0.05277169	0.99860660	0.052845320	18.92315155	1.001395340	18.94955579
03° 01′ 40″	0.05282010	0.99860404	0.052893937	18.90575854	1.001397907	18.93218704
03° 01′ 50″	0.05286851	0.99860148	0.052942554	18.88839739	1.001400476	18.91485014
03° 02′ 00″	0.05291693	0.99859892	0.052991171	18.87106800	1.001403048	18.89754502
03° 02′ 10″	0.05296534	0.99859635	0.053039789	18.85377030	1.001405622	18.88027157
03° 02′ 20″	0.05301375	0.99859378	0.053088407	18.83650419	1.001408198	18.86302971
03° 02′ 30″	0.05306217	0.99859121	0.053137025	18.81926958	1.001410777	18.84581937
03° 02′ 40″	0.05311058	0.99858864	0.053185643	18.80206640	1.001413358	18.82864044
03° 02′ 50″	0.05315899	0.99858606	0.053234262	18.78489455	1.001415941	18.81149285
03° 03′ 00″	0.05320740	0.99858348	0.053282881	18.76775395	1.001418527	18.79437650
03° 03′ 10″	0.05325582	0.99858090	0.053331500	18.75064451	1.001421115	18.77729132
03° 03′ 20″	0.05330423	0.99857832	0.053380120	18.73356615	1.001423705	18.76023722
03° 03′ 30″	0.05335264	0.99857573	0.053428739	18.71651878	1.001426298	18.74321412
03° 03′ 40″ 03° 03′ 50″	0.05340105	0.99857315	0.053477359	18.69950233	1.001428893	18.72622192
05 05 50"	0.05344947	0.99857056	0.053525979	18.68251670	1.001431491	18.70926055

23 03° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
03° 04′ 00″	0.05349788	0.99856796	0.053574600	18.66556181	1.001434091	18.69232992
03° 04′ 10″	0.05354629	0.99856537	0.053623220	18.64863758	1.001436693	18.67542995
03° 04′ 20″	0.05359470	0.99856277	0.053671841	18.63174393	1.001439297	18.65856055
03° 04′ 30″	0.05364311	0.99856017	0.053720462	18.61488076	1.001441904	18.64172164
03° 04′ 40″	0.05369153	0.99855757	0.053769084	18.59804801	1.001444514	18.62491315
03° 04′ 50″	0.05373994	0.99855497	0.053817705	18.58124559	1.001447126	18.60813498
03° 05′ 00″	0.05378835	0.99855236	0.053866327	18.56447341	1.001449740	18.59138706
03° 05′ 10″	0.05383676	0.99854975	0.053914949	18.54773139	1.001452356	18.57466930
03° 05′ 20″	0.05388517	0.99854714	0.053963572	18.53101946	1.001454975	18.55798163
03° 05′ 30″	0.05393358	0.99854453	0.054012195	18.51433753	1.001457596	18.54132395
03° 05′ 40″	0.05398199	0.99854191	0.054060817	18.49768551	1.001460220	18.52469620
03° 05′ 50″	0.05403040	0.99853929	0.054109441	18.48106334	1.001462846	18.50809829
03° 06′ 00″	0.05407881	0.99853667	0.054158064	18.46447093	1.001465474	18.49153014
03° 06′ 10″	0.05412722	0.99853405	0.054206688	18.44790820	1.001468105	18.47499166
03° 06′ 20″	0.05417563	0.99853142	0.054255312	18.43137507	1.001470738	18.45848279
03° 06′ 30″	0.05422404	0.99852879	0.054303936	18.41487146	1.001473373	18.44200344
03° 06′ 40″	0.05427245	0.99852616	0.054352560	18.39839729	1.001476011	18.42555353
03° 06′ 50″	0.05432086	0.99852353	0.054401185	18.38195248	1.001478651	18.40913298
03° 07′ 00″	0.05436927	0.99852090	0.054449810	18.36553696	1.001481294	18.39274172
03° 07′ 10″	0.05441768	0.99851826	0.054498435	18.34915065	1.001483939	18.37637966
03° 07′ 20″	0.05446609	0.99851562	0.054547061	18.33279346	1.001486586	18.36004673
03° 07′ 30″	0.05451450	0.99851298	0.054595687	18.31646532	1.001489236	18.34374286
03° 07′ 40″	0.05456291	0.99851033	0.054644313	18.30016616	1.001491888	18.32746795
03° 07′ 50″	0.05461132	0.99850769	0.054692939	18.28389590	1.001494542	18.31122195
03° 08′ 00″	0.05465973	0.99850504	0.054741565	18.26765445	1.001497199	18.29500476
03° 08′ 10″	0.05470814	0.99850239	0.054790192	18.25144174	1.001499858	18.27881631
03° 08′ 20″	0.05475655	0.99849973	0.054838819	18.23525771	1.001502519	18.26265653
03° 08′ 30″	0.05480495	0.99849708	0.054887446	18.21910226	1.001505183	18.24652534
03° 08′ 40″	0.05485336	0.99849442	0.054936074	18.20297533	1.001507849	18.23042267
03° 08′ 50″	0.05490177	0.99849176	0.054984702	18.18687683	1.001510518	18.21434844
03° 09′ 00″	0.05495018	0.99848910	0.055033330	18.17080670	1.001513189	18.19830256
03° 09′ 10″	0.05499859	0.99848643	0.055081958	18.15476486	1.001515862	18.18228498
03° 09′ 20″	0.05504700	0.99848376	0.055130587	18.13875123	1.001518538	18.16629561
03° 09′ 30″ 03° 09′ 40″	0.05509540	0.99848109	0.055179216	18.12276575	1.001521216	18.15033439
03° 09′ 50″	0.05514381	0.99847842	0.055227845	18.10680833	1.001523896 1.001526579	18.13440122
03° 10′ 00″	0.05519222 0.05524063	0.99847575	0.055276474	18.09087890		18.11849605 18.10261880
03° 10′ 10″	0.05528903	0.99847307 0.99847039	0.055325104 0.055373734	18.07497738	1.001529264 1.001531952	18.08676939
03° 10′ 10″	0.05533744	0.99846771	0.055422364	18.05910372 18.04325782	1.001531752	18.07094776
03° 10′ 30″	0.05538585	0.77846771	0.055470994	18.02743962	1.0015374642	18.05515382
03° 10′ 40″	0.05543425	0.77846303	0.055519625	18.01164905	1.001537334	18.03938751
03° 10′ 50″	0.05548266	0.77846234	0.055568256	17.99588603	1.001540027	18.02364875
03° 11′ 00″	0.05553107	0.77845765	0.055616887	17.77388603	1.001545425	18.00793747
03° 11′ 10″	0.05557947	0.77845076	0.055665519	17.96444237	1.001548127	17.99225360
03° 11′ 20″	0.05562788	0.99845157	0.055714150	17.94876158	1.001550831	17.97659707
03° 11′ 30″	0.05567629	0.99844887	0.055762782	17.93310806	1.001553537	17.96096781
03° 11′ 40″	0.05572469	0.99844617	0.055811415	17.91748173	1.001556246	17.94536574
03° 11′ 50″	0.05577310	0.99844347	0.055860047	17.90188253	1.001558957	17.92979080
	1.00077010	3.7, 61 10 17		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

03° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
03° 12′ 00″	0.05582150	0.99844076	0.055908680	17.88631038	1.001561671	17.91424291
03° 12′ 10″	0.05586991	0.99843806	0.055957313	17.87076521	1.001564387	17.89872200
03° 12′ 20″	0.05591832	0.99843535	0.056005946	17.85524696	1.001567105	17.88322801
03° 12′ 30″	0.05596672	0.99843263	0.056054580	17.83975555	1.001569826	17.86776086
03° 12′ 40″	0.05601513	0.99842992	0.056103214	17.82429092	1.001572549	17.85232049
03° 12′ 50″	0.05606353	0.99842720	0.056151848	17.80885299	1.001575274	17.83690682
03° 13′ 00″	0.05611194	0.99842448	0.056200482	17.79344169	1.001578002	17.82151978
03° 13′ 10″	0.05616034	0.99842176	0.056249117	17.77805696	1.001580732	17.80615931
03° 13′ 20″	0.05620875	0.99841904	0.056297752	17.76269873	1.001583465	17.79082534
03° 13′ 30″	0.05625715	0.99841631	0.056346387	17.74736693	1.001586200	17.77551780
03° 13′ 40″	0.05630556	0.99841358	0.056395022	17.73206149	1.001588937	17.76023661
03° 13′ 50″	0.05635396	0.99841085	0.056443658	17.71678234	1.001591677	17.74498172
03° 14′ 00″	0.05640236	0.99840812	0.056492294	17.70152941	1.001594419	17.72975306
03° 14′ 10″	0.05645077	0.99840538	0.056540930	17.68630265	1.001597163	17.71455055
03° 14′ 20″	0.05649917	0.99840265	0.056589566	17.67110197	1.001599910	17.69937414
03° 14′ 30″	0.05654758	0.99839991	0.056638203	17.65592732	1.001602659	17.68422374
03° 14′ 40″	0.05659598	0.99839716	0.056686840	17.64077862	1.001605410	17.66909931
03° 14′ 50″	0.05664438	0.99839442	0.056735478	17.62565581	1.001608164	17.65400076
03° 15′ 00″	0.05669279	0.99839167	0.056784115	17.61055883	1.001610920	17.63892804
03° 15′ 10″	0.05674119	0.99838892	0.056832753	17.59548760	1.001613679	17.62388107
03° 15′ 20″	0.05678959	0.99838617	0.056881391	17.58044207	1.001616440	17.60885979
03° 15′ 30″	0.05683800	0.99838341	0.056930029	17.56542216	1.001619203	17.59386414
03° 15′ 40″	0.05688640	0.99838066	0.056978668	17.55042781	1.001621969	17.57889405
03° 15′ 50″	0.05693480	0.99837790	0.057027307	17.53545895	1.001624737	17.56394946
03° 16′ 00″	0.05698321	0.99837514	0.057075946	17.52051552	1.001627507	17.54903029
03° 16′ 10″	0.05703161	0.99837237	0.057124586	17.50559746	1.001630280	17.53413649
03° 16′ 20″	0.05708001	0.99836961	0.057173225	17.49070470	1.001633055	17.51926799
03° 16′ 30″	0.05712841	0.99836684	0.057221865	17.47583718	1.001635833	17.50442473
03° 16′ 40″	0.05717681	0.99836407	0.057270505	17.46099483	1.001638613	17.48960664
03° 16′ 50″	0.05722522	0.99836129	0.057319146	17.44617758	1.001641395	17.47481365
03° 17′ 00″	0.05727362	0.99835852	0.057367787	17.43138538	1.001644180	17.46004571
03° 17′ 10″	0.05732202	0.99835574	0.057416428	17.41661816	1.001646967	17.44530275
03° 17′ 20″	0.05737042	0.99835296	0.057465069	17.40187586	1.001649756	17.43058471
03° 17′ 30″	0.05741882	0.99835018	0.057513711	17.38715841	1.001652548	17.41589152
03° 17′ 40″	0.05746722	0.99834739	0.057562353	17.37246575	1.001655342	17.40122313
03° 17′ 50″ 03° 18′ 00″	0.05751563	0.99834461	0.057610995	17.35779782	1.001658139	17.38657946
03° 18′ 10″	0.05756403	0.99834182	0.057659637	17.34315456	1.001660938	17.37196046
03° 18′ 10″	0.05761243	0.99833902 0.99833623	0.057708280	17.32853590	1.001663739	17.35736606
03° 18′ 30″	0.05766083	0.99833343	0.057756923	17.31394178 17.29937215	1.001666542 1.001669348	17.34279620 17.32825083
03° 18′ 40″	0.05770723	0.77833343	0.057805566 0.057854210	17.28482693	1.001667346	17.32823083
03° 18′ 50″	0.05780603	0.99832783	0.057834210	17.26462673	1.001672137	17.29923327
03° 19′ 00″	0.05785443	0.99832503	0.057902633	17.27030607	1.001674967	17.27725527
03° 19′ 10″	0.05783443	0.99832222	0.057751477	17.23380730	1.001677781	17.27031290
03° 19′ 20″	0.05795123	0.77832222	0.058048786	17.22688902	1.001683414	17.25588900
03° 19′ 30″	0.05799963	0.99831660	0.058097431	17.21246498	1.001685414	17.24148922
03° 17′ 30′′ 03° 19′ 40″′	0.05804803	0.99831379	0.058146076	17.19806499	1.001689057	17.22711349
03° 19′ 50″	0.05809643	0.99831098	0.058194722	17.17868477	1.001691882	17.21276176
	0.03007043	0.77031070	3.0301777 <i>LL</i>	17.10300077	1.0010/1002	17,212/01/0

25 03° 19′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
03° 20′ 00″	0.05814483	0.99830816	0.058243367	17.16933693	1.001694709	17.19843396
03° 20′ 10″	0.05819323	0.99830534	0.058292013	17.15500874	1.001697539	17.18413003
03° 20′ 20″	0.05824163	0.99830252	0.058340660	17.14070436	1.001700371	17.16984991
03° 20′ 30″	0.05829003	0.99829969	0.058389306	17.12642374	1.001703205	17.15559355
03° 20′ 40″	0.05833843	0.99829686	0.058437953	17.11216682	1.001706042	17.14136089
03° 20′ 50″	0.05838682	0.99829403	0.058486600	17.09793353	1.001708881	17.12715186
03° 21′ 00″	0.05843522	0.99829120	0.058535247	17.08372381	1.001711723	17.11296641
03° 21′ 10″	0.05848362	0.99828837	0.058583895	17.06953762	1.001714567	17.09880447
03° 21′ 20″	0.05853202	0.99828553	0.058632543	17.05537488	1.001717413	17.08466600
03° 21′ 30″	0.05858042	0.99828269	0.058681191	17.04123555	1.001720261	17.07055093
03° 21′ 40″	0.05862882	0.99827985	0.058729840	17.02711956	1.001723112	17.05645920
03° 21′ 50″	0.05867721	0.99827701	0.058778488	17.01302686	1.001725966	17.04239076
03° 22′ 00″	0.05872561	0.99827416	0.058827137	16.99895739	1.001728822	17.02834555
03° 22′ 10″	0.05877401	0.99827131	0.058875787	16.98491109	1.001731680	17.01432351
03° 22′ 20″	0.05882241	0.99826846	0.058924436	16.97088790	1.001734540	17.00032459
03° 22′ 30″	0.05887080	0.99826561	0.058973086	16.95688777	1.001737403	16.98634872
03° 22′ 40″	0.05891920	0.99826275	0.059021736	16.94291063	1.001740268	16.97239585
03° 22′ 50″	0.05896760	0.99825990	0.059070386	16.92895645	1.001743136	16.95846592
03° 23′ 00″	0.05901599	0.99825704	0.059119037	16.91502514	1.001746006	16.94455888
03° 23′ 10″	0.05906439	0.99825417	0.059167688	16.90111667	1.001748878	16.93067467
03° 23′ 20″	0.05911279	0.99825131	0.059216339	16.88723098	1.001751753	16.91681323
03° 23′ 30″	0.05916118	0.99824844	0.059264991	16.87336800	1.001754630	16.90297452
03° 23′ 40″	0.05920958	0.99824557	0.059313643	16.85952768	1.001757510	16.88915846
03° 23′ 50″	0.05925798	0.99824270	0.059362295	16.84570997	1.001760392	16.87536502
03° 24′ 00″	0.05930637	0.99823983	0.059410947	16.83191481	1.001763276	16.86159412
03° 24′ 10″	0.05935477	0.99823695	0.059459600	16.81814215	1.001766162	16.84784572
03° 24′ 20″	0.05940317	0.99823407	0.059508253	16.80439193	1.001769051	16.83411976
03° 24′ 30″	0.05945156	0.99823119	0.059556906	16.79066410	1.001771943	16.82041619
03° 24′ 40″	0.05949996	0.99822831	0.059605559	16.77695860	1.001774836	16.80673495
03° 24′ 50″	0.05954835	0.99822542	0.059654213	16.76327537	1.001777732	16.79307599
03° 25′ 00″	0.05959675	0.99822253	0.059702867	16.74961437	1.001780631	16.77943925
03° 25′ 10″	0.05964514	0.99821964	0.059751521	16.73597553	1.001783532	16.76582468
03° 25′ 20″	0.05969354	0.99821675	0.059800176	16.72235882	1.001786435	16.75223222
03° 25′ 30″ 03° 25′ 40″	0.05974193	0.99821386	0.059848831	16.70876416	1.001789340	16.73866182
	0.05979033	0.99821096	0.059897486	16.69519151	1.001792248	16.72511344
03° 25′ 50″	0.05983872	0.99820806	0.059946141	16.68164081	1.001795159	16.71158700
03° 26′ 00″	0.05988712	0.99820516	0.059994797	16.66811201	1.001798071	16.69808247
03° 26′ 10″	0.05993551	0.99820225	0.060043453	16.65460506	1.001800986	16.68459978
03° 26′ 20″	0.05998390	0.99819934	0.060092110	16.64111991	1.001803904	16.67113889
03° 26′ 30″ 03° 26′ 40″	0.06003230	0.99819644	0.060140766	16.62765650	1.001806824	16.65769974
	0.06008069	0.99819352	0.060189423	16.61421477	1.001809746	16.64428228
03° 26′ 50″	0.06012909	0.99819061	0.060238080	16.60079469	1.001812670	16.63088645
03° 27′ 00″ 03° 27′ 10″	0.06017748	0.99818769	0.060286738	16.58739618	1.001815597	16.61751221
	0.06022587	0.99818477	0.060335395	16.57401921	1.001818526	16.60415950
03° 27′ 20″ 03° 27′ 30″	0.06027427	0.99818185	0.060384053	16.56066372	1.001821458	16.59082828
03° 27′ 30″ 03° 27′ 40″	0.06032266	0.99817893	0.060432712	16.54732966	1.001824392	16.57751848
03° 27′ 40″ 03° 27′ 50″	0.06037105 0.06041945	0.99817600	0.060481370 0.060530029	16.53401698	1.001827328	16.56423006 16.55096296
03 21 30	0.00041743	0.99817308	0.060330029	16.52072562	1.001830267	10.33070476

26 03° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
03° 28′ 00″	0.06046784	0.99817015	0.060578688	16.50745553	1.001833208	16.53771714
03° 28′ 10″	0.06051623	0.99816721	0.060627348	16.49420667	1.001836152	16.52449254
03° 28′ 20″	0.06056462	0.99816428	0.060676007	16.48097898	1.001839098	16.51128911
03° 28′ 30″	0.06061302	0.99816134	0.060724667	16.46777241	1.001842046	16.49810681
03° 28′ 40″	0.06066141	0.99815840	0.060773328	16.45458692	1.001844997	16.48494558
03° 28′ 50″	0.06070980	0.99815546	0.060821988	16.44142244	1.001847950	16.47180536
03° 29′ 00″	0.06075819	0.99815251	0.060870649	16.42827894	1.001850905	16.45868612
03° 29′ 10″	0.06080658	0.99814957	0.060919310	16.41515635	1.001853863	16.44558780
03° 29′ 20″	0.06085497	0.99814662	0.060967972	16.40205463	1.001856823	16.43251034
03° 29′ 30″	0.06090337	0.99814367	0.061016633	16.38897374	1.001859785	16.41945371
03° 29′ 40″	0.06095176	0.99814071	0.061065295	16.37591361	1.001862750	16.40641785
03° 29′ 50″	0.06100015	0.99813776	0.061113958	16.36287421	1.001865717	16.39340271
03° 30′ 00″	0.06104854	0.99813480	0.061162620	16.34985548	1.001868687	16.38040824
03° 30′ 10″	0.06109693	0.99813184	0.061211283	16.33685737	1.001871659	16.36743439
03° 30′ 20″	0.06114532	0.99812887	0.061259946	16.32387983	1.001874633	16.35448112
03° 30′ 30″	0.06119371	0.99812591	0.061308610	16.31092282	1.001877610	16.34154837
03° 30′ 40″	0.06124210	0.99812294	0.061357273	16.29798628	1.001880589	16.32863610
03° 30′ 50″	0.06129049	0.99811997	0.061405937	16.28507018	1.001883571	16.31574426
03° 31′ 00″	0.06133888	0.99811700	0.061454602	16.27217445	1.001886554	16.30287279
03° 31′ 10″	0.06138727	0.99811402	0.061503266	16.25929905	1.001889541	16.29002166
03° 31′ 20″	0.06143566	0.99811105	0.061551931	16.24644393	1.001892529	16.27719080
03° 31′ 30″	0.06148405	0.99810807	0.061600596	16.23360905	1.001895520	16.26438019
03° 31′ 40″	0.06153244	0.99810508	0.061649262	16.22079436	1.001898514	16.25158976
03° 31′ 50″	0.06158083	0.99810210	0.061697928	16.20799980	1.001901509	16.23881947
03° 32′ 00″	0.06162922	0.99809911	0.061746594	16.19522534	1.001904507	16.22606927
03° 32′ 10″	0.06167761	0.99809612	0.061795260	16.18247092	1.001907508	16.21333911
03° 32′ 20″	0.06172600	0.99809313	0.061843927	16.16973650	1.001910511	16.20062895
03° 32′ 30″	0.06177439	0.99809014	0.061892594	16.15702203	1.001913516	16.18793875
03° 32′ 40″	0.06182278	0.99808714	0.061941261	16.14432746	1.001916523	16.17526844
03° 32′ 50″	0.06187116	0.99808414	0.061989928	16.13165275	1.001919533	16.16261800
03° 33′ 00″	0.06191955	0.99808114	0.062038596	16.11899785	1.001922546	16.14998736
03° 33′ 10″	0.06196794	0.99807814	0.062087264	16.10636271	1.001925560	16.13737649
03° 33′ 20″	0.06201633	0.99807513	0.062135933	16.09374729	1.001928577	16.12478533
03° 33′ 30″	0.06206472	0.99807213	0.062184601	16.08115154	1.001931597	16.11221384
03° 33′ 40″	0.06211311	0.99806912	0.062233270	16.06857542	1.001934619	16.09966198
03° 33′ 50″ 03° 34′ 00″	0.06216149 0.06220988	0.99806610	0.062281940	16.05601887	1.001937643	16.08712970
03° 34′ 00″ 03° 34′ 10″	0.06225827	0.99806309 0.99806007	0.062330609 0.062379279	16.04348186 16.03096433	1.001940669	16.07461695 16.06212369
03° 34′ 20″	0.06230666	0.99805705	0.062379279	16.03076433	1.001943698 1.001946730	16.04964987
03° 34′ 30″		0.99805403	0.062427949	16.01548623		
03° 34′ 40″	0.06235504 0.06240343	0.99805403	0.062476620	15.99352823	1.001949763 1.001952799	16.03719545 16.02476038
03° 34′ 40″	0.06240343	0.99804798	0.062523271	15.77332823	1.001955838	16.02476038
03° 35′ 00″	0.06243182	0.99804495	0.062575762	15.96866744	1.001753838	15.99994812
03° 35′ 10″	0.06254859	0.77804473	0.062622633	15.76666744	1.001738878	15.98757083
03° 35′ 20″	0.06254637	0.99803889	0.062671303	15.73626367	1.001761722	15.97521272
03° 35′ 30″	0.06257678	0.77803887	0.062768649	15.93152026	1.001764767	15.96287374
03° 35′ 40″	0.06269375	0.77803383	0.062817321	15.91917610	1.001768013	15.95055384
03° 35′ 50″	0.06274213	0.99802977	0.062865994	15.90685097	1.001771003	15.93825298
	0.002/ 1213	5.77002777	2.00 <u>2</u> 003//T	.5.70005077		.5,75025270

27 03° 35′ 50″

	-: (**)	(**)	4(04)	(a)	(24)	(-1)
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
03° 36′ 00″	0.06279052	0.99802673	0.062914667	15.89454484	1.001977173	15.92597111
03° 36′ 10″	0.06283891	0.99802368	0.062963341	15.88225766	1.001980230	15.91370820
03° 36′ 20″	0.06288729	0.99802064	0.063012014	15.86998939	1.001983290	15.90146419
03° 36′ 30″	0.06293568	0.99801759	0.063060688	15.85773999	1.001986352	15.88923905
03° 36′ 40″	0.06298406	0.99801453	0.063109363	15.84550940	1.001989417	15.87703272
03° 36′ 50″	0.06303245	0.99801148	0.063158037	15.83329759	1.001992484	15.86484518
03° 37′ 00″	0.06308083	0.99800842	0.063206712	15.82110451	1.001995553	15.85267637
03° 37′ 10″	0.06312922	0.99800536	0.063255387	15.80893013	1.001998625	15.84052625
03° 37′ 20″	0.06317760	0.99800230	0.063304063	15.79677439	1.002001699	15.82839477
03° 37′ 30″	0.06322598	0.99799924	0.063352739	15.78463725	1.002004775	15.81628190
03° 37′ 40″	0.06327437	0.99799617	0.063401415	15.77251868	1.002007854	15.80418760
03° 37′ 50″	0.06332275	0.99799310	0.063450091	15.76041863	1.002010935	15.79211181
03° 38′ 00″	0.06337114	0.99799003	0.063498768	15.74833705	1.002014019	15.78005450
03° 38′ 10″	0.06341952	0.99798696	0.063547445	15.73627391	1.002017105	15.76801562
03° 38′ 20″	0.06346790	0.99798388	0.063596122	15.72422916	1.002020193	15.75599514
03° 38′ 30″	0.06351629	0.99798080	0.063644800	15.71220277	1.002023283	15.74399301
03° 38′ 40″	0.06356467	0.99797772	0.063693478	15.70019468	1.002026376	15.73200918
03° 38′ 50″	0.06361306	0.99797464	0.063742156	15.68820485	1.002029472	15.72004362
03° 39′ 00″	0.06366144	0.99797155	0.063790834	15.67623325	1.002032570	15.70809629
03° 39′ 10″	0.06370982	0.99796847	0.063839513	15.66427984	1.002035670	15.69616714
03° 39′ 20″	0.06375820	0.99796538	0.063888192	15.65234456	1.002038772	15.68425613
03° 39′ 30″	0.06380659	0.99796228	0.063936872	15.64042739	1.002041877	15.67236322
03° 39′ 40″	0.06385497	0.99795919	0.063985551	15.62852827	1.002044984	15.66048837
03° 39′ 50″	0.06390335	0.99795609	0.064034231	15.61664718	1.002048094	15.64863154
03° 40′ 00″	0.06395173	0.99795299	0.064082912	15.60478406	1.002051206	15.63679268
03° 40′ 10″	0.06400012	0.99794989	0.064131592	15.59293887	1.002054320	15.62497177
03° 40′ 20″	0.06404850	0.99794679	0.064180273	15.58111159	1.002057437	15.61316874
03° 40′ 30″	0.06409688	0.99794368	0.064228955	15.56930215	1.002060556	15.60138358
03° 40′ 40″	0.06414526	0.99794057	0.064277636	15.55751054	1.002063678	15.58961623
03° 40′ 50″	0.06419364	0.99793746	0.064326318	15.54573669	1.002066802	15.57786665
03° 41′ 00″	0.06424202	0.99793435	0.064375000	15.53398058	1.002069928	15.56613480
03° 41′ 10″	0.06429040	0.99793123	0.064423682	15.52224217	1.002073057	15.55442065
03° 41′ 20″	0.06433879	0.99792811	0.064472365	15.51052140	1.002076188	15.54272416
03° 41′ 30″	0.06438717	0.99792499	0.064521048	15.49881826	1.002079321	15.53104527
03° 41′ 40″	0.06443555	0.99792187	0.064569732	15.48713268	1.002082457	15.51938397
03° 41′ 50″	0.06448393	0.99791875	0.064618415	15.47546464	1.002085595	15.50774019
03° 42′ 00″	0.06453231	0.99791562	0.064667099	15.46381410	1.002088735	15.49611392
03° 42′ 10″	0.06458069	0.99791249	0.064715783	15.45218101	1.002091878	15.48450510
03° 42′ 20″	0.06462907	0.99790936	0.064764468	15.44056534	1.002095024	15.47291369
03° 42′ 30″	0.06467745	0.99790622	0.064813153	15.42896705	1.002098171	15.46133966
03° 42′ 40″	0.06472583	0.99790309	0.064861838	15.41738609	1.002101321	15.44978297
03° 42′ 50″ 03° 43′ 00″	0.06477421	0.99789995	0.064910524	15.40582244 15.39427604	1.002104474	15.43824359
03° 43′ 00″ 03° 43′ 10″	0.06482259	0.99789680 0.99789366	0.064959209		1.002107628	15.42672146
03° 43′ 10″ 03° 43′ 20″	0.06487097		0.065007895	15.38274687	1.002110786 1.002113945	15.41521655
03° 43′ 20″ 03° 43′ 30″	0.06491935	0.99789051 0.99788737	0.065056582	15.37123488		15.40372883 15.39225825
03° 43′ 40″	0.06496772	0.99788421	0.065105269 0.065153956	15.35974004 15.34826230	1.002117107 1.002120271	15.39225825
03° 43′ 50″	0.06506448	0.99788106	0.065153956	15.33680163	1.002120271	15.36936838
=======================================	0.00300448	0.///00100	0.003202643	13.33000103	1.002123436	13.30730030

28 03° 43′ 50″

	• ()	()	4 ()	1()	()	
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
03° 44′ 00″	0.06511286	0.99787791	0.065251331	15.32535800	1.002126607	15.35794901
03° 44′ 10″	0.06516124	0.99787475	0.065300018	15.31393135	1.002129778	15.34654663
03° 44′ 20″	0.06520962	0.99787159	0.065348707	15.30252166	1.002132952	15.33516120
03° 44′ 30″	0.06525800	0.99786843	0.065397395	15.29112888	1.002136128	15.32379270
03° 44′ 40″	0.06530637	0.99786526	0.065446084	15.27975299	1.002139307	15.31244107
03° 44′ 50″	0.06535475	0.99786209	0.065494773	15.26839394	1.002142488	15.30110628
03° 45′ 00″	0.06540313	0.99785892	0.065543463	15.25705169	1.002145671	15.28978830
03° 45′ 10″	0.06545151	0.99785575	0.065592153	15.24572621	1.002148856	15.27848708
03° 45′ 20″	0.06549988	0.99785258	0.065640843	15.23441745	1.002152044	15.26720260
03° 45′ 30″	0.06554826	0.99784940	0.065689533	15.22312539	1.002155235	15.25593481
03° 45′ 40″	0.06559664	0.99784622	0.065738224	15.21184999	1.002158428	15.24468367
03° 45′ 50″	0.06564502	0.99784304	0.065786915	15.20059121	1.002161623	15.23344915
03° 46′ 00″	0.06569339	0.99783986	0.065835606	15.18934900	1.002164820	15.22223121
03° 46′ 10″	0.06574177	0.99783667	0.065884298	15.17812334	1.002168020	15.21102982
03° 46′ 20″	0.06579014	0.99783348	0.065932990	15.16691420	1.002171222	15.19984494
03° 46′ 30″	0.06583852	0.99783029	0.065981682	15.15572152	1.002174427	15.18867653
03° 46′ 40″	0.06588690	0.99782710	0.066030375	15.14454528	1.002177634	15.17752456
03° 46′ 50″	0.06593527	0.99782390	0.066079068	15.13338544	1.002180844	15.16638898
03° 47′ 00″	0.06598365	0.99782070	0.066127761	15.12224196	1.002184055	15.15526977
03° 47′ 10″	0.06603202	0.99781750	0.066176454	15.11111481	1.002187269	15.14416689
03° 47′ 20″	0.06608040	0.99781430	0.066225148	15.10000395	1.002190486	15.13308030
03° 47′ 30″	0.06612878	0.99781110	0.066273842	15.08890935	1.002193705	15.12200997
03° 47′ 40″	0.06617715	0.99780789	0.066322537	15.07783097	1.002196926	15.11095585
03° 47′ 50″	0.06622553	0.99780468	0.066371232	15.06676877	1.002200150	15.09991792
03° 48′ 00″	0.06627390	0.99780147	0.066419927	15.05572272	1.002203376	15.08889614
03° 48′ 10″	0.06632228	0.99779825	0.066468622	15.04469279	1.002206604	15.07789047
03° 48′ 20″	0.06637065	0.99779504	0.066517318	15.03367893	1.002209835	15.06690089
03° 48′ 30″	0.06641902	0.99779182	0.066566014	15.02268112	1.002213068	15.05592734
03° 48′ 40″	0.06646740	0.99778860	0.066614710	15.01169932	1.002216304	15.04496980
03° 48′ 50″	0.06651577	0.99778537	0.066663407	15.00073349	1.002219542	15.03402824
03° 49′ 00″	0.06656415	0.99778215	0.066712104	14.98978359	1.002222782	15.02310262
03° 49′ 10″	0.06661252	0.99777892	0.066760801	14.97884961	1.002226025	15.01219289
03° 49′ 20″	0.06666089	0.99777569	0.066809499	14.96793148	1.002229270	15.00129904
03° 49′ 30″	0.06670927	0.99777246	0.066858197	14.95702920	1.002232517	14.99042102
03° 49′ 40″	0.06675764	0.99776922	0.066906895	14.94614271	1.002235767	14.97955881
03° 49′ 50″	0.06680601	0.99776598	0.066955593	14.93527199	1.002239019	14.96871235
03° 50′ 00″	0.06685439	0.99776274	0.067004292	14.92441700	1.002242274	14.95788163
03° 50′ 10″	0.06690276	0.99775950	0.067052992	14.91357771	1.002245531	14.94706661
03° 50′ 20″	0.06695113	0.99775626	0.067101691	14.90275408	1.002248790	14.93626724
03° 50′ 30″	0.06699950	0.99775301	0.067150391	14.89194608	1.002252052	14.92548351
03° 50′ 40″	0.06704788	0.99774976	0.067199091	14.88115368	1.002255316	14.91471538
03° 50′ 50″	0.06709625	0.99774651	0.067247791	14.87037683	1.002258582	14.90396280
03° 51′ 00″	0.06714462	0.99774325	0.067296492	14.85961552	1.002261851	14.89322575
03° 51′ 10″	0.06719299	0.99774000	0.067345193	14.84886969	1.002265122	14.88250420
03° 51′ 20″	0.06724136	0.99773674	0.067393895	14.83813933	1.002268396	14.87179810
03° 51′ 30″	0.06728974	0.99773348	0.067442596	14.82742440	1.002271672	14.86110744
03° 51′ 40″	0.06733811	0.99773021	0.067491298	14.81672486	1.002274950	14.85043216
03° 51′ 50″	0.06738648	0.99772695	0.067540001	14.80604068	1.002278231	14.83977225

29 03° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
03° 52′ 00″ 03° 52′ 10″	0.06743485	0.99772368	0.067588704	14.79537182	1.002281514	14.82912767
03° 52′ 10″ 03° 52′ 20″	0.06748322	0.99772041 0.99771714	0.067637407	14.78471827	1.002284799	14.81849838 14.80788435
	0.06753159		0.067686110	14.77407997	1.002288087	
03° 52′ 30″	0.06757996	0.99771386	0.067734814	14.76345690	1.002291377	14.79728555
03° 52′ 40″	0.06762833	0.99771058	0.067783517	14.75284903	1.002294670	14.78670195
03° 52′ 50″	0.06767670	0.99770730	0.067832222	14.74225632	1.002297965	14.77613351
03° 53′ 00″	0.06772507	0.99770402	0.067880926	14.73167875	1.002301262	14.76558020
03° 53′ 10″	0.06777344	0.99770074	0.067929631	14.72111627	1.002304562	14.75504199
03° 53′ 20″	0.06782181	0.99769745	0.067978337	14.71056886	1.002307864	14.74451885
03° 53′ 30″	0.06787018	0.99769416	0.068027042	14.70003648	1.002311168	14.73401074
03° 53′ 40″	0.06791855	0.99769087	0.068075748	14.68951910	1.002314475	14.72351763
03° 53′ 50″	0.06796692	0.99768758	0.068124454	14.67901669	1.002317785	14.71303949
03° 54′ 00″	0.06801529	0.99768428	0.068173161	14.66852922	1.002321096	14.70257629
03° 54′ 10″	0.06806366	0.99768098	0.068221868	14.65805666	1.002324410	14.69212800
03° 54′ 20″	0.06811203	0.99767768	0.068270575	14.64759897	1.002327727	14.68169458
03° 54′ 30″	0.06816040	0.99767438	0.068319282	14.63715612	1.002331045	14.67127600
03° 54′ 40″	0.06820877	0.99767107	0.068367990	14.62672809	1.002334366	14.66087223
03° 54′ 50″	0.06825713	0.99766776	0.068416698	14.61631483	1.002337690	14.65048324
03° 55′ 00″	0.06830550	0.99766445	0.068465407	14.60591632	1.002341016	14.64010900
03° 55′ 10″	0.06835387	0.99766114	0.068514115	14.59553252	1.002344344	14.62974947
03° 55′ 20″	0.06840224	0.99765782	0.068562825	14.58516342	1.002347675	14.61940463
03° 55′ 30″	0.06845061	0.99765451	0.068611534	14.57480896	1.002351008	14.60907445
03° 55′ 40″	0.06849897	0.99765119	0.068660244	14.56446913	1.002354343	14.59875888
03° 55′ 50″	0.06854734	0.99764786	0.068708954	14.55414389	1.002357681	14.58845791
03° 56′ 00″	0.06859571	0.99764454	0.068757664	14.54383321	1.002361021	14.57817150
03° 56′ 10″	0.06864408	0.99764121	0.068806375	14.53353706	1.002364364	14.56789962
03° 56′ 20″	0.06869244	0.99763788	0.068855086	14.52325541	1.002367708	14.55764224
03° 56′ 30″	0.06874081	0.99763455	0.068903797	14.51298822	1.002371056	14.54739933
03° 56′ 40″	0.06878918	0.99763122	0.068952509	14.50273548	1.002374405	14.53717085
03° 56′ 50″	0.06883754	0.99762788	0.069001221	14.49249714	1.002377757	14.52695678
03° 57′ 00″	0.06888591	0.99762454	0.069049933	14.48227318	1.002381112	14.51675709
03° 57′ 10″	0.06893427	0.99762120	0.069098646	14.47206357	1.002384469	14.50657175
03° 57′ 20″	0.06898264	0.99761786	0.069147359	14.46186827	1.002387828	14.49640073
03° 57′ 30″	0.06903101	0.99761451	0.069196073	14.45168726	1.002391189	14.48624399
03° 57′ 40″	0.06907937	0.99761117	0.069244786	14.44152051	1.002394553	14.47610150
03° 57′ 50″	0.06912774	0.99760782	0.069293500	14.43136798	1.002397920	14.46597324
03° 58′ 00″	0.06917610	0.99760446	0.069342214	14.42122965	1.002401288	14.45585918
03° 58′ 10″	0.06922447	0.99760111	0.069390929	14.41110549	1.002404659	14.44575929
03° 58′ 20″	0.06927283	0.99759775	0.069439644	14.40099546	1.002408033	14.43567353
03° 58′ 30″	0.06932120	0.99759439	0.069488359	14.39089955	1.002411409	14.42560188
03° 58′ 40″	0.06936956	0.99759103	0.069537075	14.38081770	1.002414787	14.41554431
03° 58′ 50″	0.06941793	0.99758767	0.069585791	14.37074991	1.002418167	14.40550079
03° 59′ 00″	0.06946629	0.99758430	0.069634507	14.36069614	1.002421550	14.39547129
03° 59′ 10″	0.06951466	0.99758093	0.069683224	14.35065635	1.002424936	14.38545577
03° 59′ 20″	0.06956302	0.99757756	0.069731941	14.34063053	1.002428323	14.37545422
03° 59′ 30″	0.06961138	0.99757419	0.069780658	14.33061864	1.002431714	14.36546660
03° 59′ 40″	0.06965975	0.99757081	0.069829376	14.32062065	1.002435106	14.35549288
03° 59′ 50″	0.06970811	0.99756743	0.069878094	14.31063653	1.002438501	14.34553303

30 03° 59′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
04° 00′ 00″	0.06975647	0.99756405	0.069926812	14.30066626	1.002441898	14.33558703
04° 00′ 10″	0.06980484	0.99756067	0.069975531	14.29070980	1.002445298	14.32565484
04° 00′ 20″	0.06985320	0.99755728	0.070024249	14.28076713	1.002448700	14.31573644
04° 00′ 30″	0.06990156	0.99755389	0.070072969	14.27083822	1.002452104	14.30583180
04° 00′ 40″	0.06994993	0.99755050	0.070121688	14.26092303	1.002455511	14.29594088
04° 00′ 50″	0.06999829	0.99754711	0.070170408	14.25102155	1.002458920	14.28606367
04° 01′ 00″	0.07004665	0.99754372	0.070219128	14.24113374	1.002462331	14.27620013
04° 01′ 10″	0.07009501	0.99754032	0.070267849	14.23125958	1.002465745	14.26635024
04° 01′ 20″	0.07014337	0.99753692	0.070316570	14.22139903	1.002469162	14.25651396
04° 01′ 30″	0.07019174	0.99753352	0.070365291	14.21155207	1.002472580	14.24669127
04° 01′ 40″	0.07024010	0.99753011	0.070414013	14.20171867	1.002476001	14.23688214
04° 01′ 50″	0.07028846	0.99752671	0.070462735	14.19189880	1.002479425	14.22708654
04° 02′ 00″	0.07033682	0.99752330	0.070511457	14.18209243	1.002482851	14.21730445
04° 02′ 10″	0.07038518	0.99751989	0.070560180	14.17229954	1.002486279	14.20753583
04° 02′ 20″	0.07043354	0.99751647	0.070608902	14.16252010	1.002489709	14.19778066
04° 02′ 30″	0.07048190	0.99751306	0.070657626	14.15275408	1.002493142	14.18803890
04° 02′ 40″	0.07053026	0.99750964	0.070706349	14.14300145	1.002496577	14.17831055
04° 02′ 50″	0.07057863	0.99750622	0.070755073	14.13326218	1.002500015	14.16859555
04° 03′ 00″	0.07062699	0.99750280	0.070803797	14.12353626	1.002503455	14.15889390
04° 03′ 10″	0.07067535	0.99749937	0.070852522	14.11382364	1.002506898	14.14920555
04° 03′ 20″	0.07072371	0.99749594	0.070901247	14.10412430	1.002510342	14.13953049
04° 03′ 30″	0.07077207	0.99749251	0.070949972	14.09443823	1.002513790	14.12986868
04° 03′ 40″	0.07082043	0.99748908	0.070998698	14.08476538	1.002517239	14.12022010
04° 03′ 50″	0.07086879	0.99748565	0.071047424	14.07510573	1.002520691	14.11058472
04° 04′ 00″	0.07091714	0.99748221	0.071096150	14.06545925	1.002524146	14.10096252
04° 04′ 10″	0.07096550	0.99747877	0.071144877	14.05582592	1.002527602	14.09135346
04° 04′ 20″	0.07101386	0.99747533	0.071193603	14.04620572	1.002531061	14.08175753
04° 04′ 30″	0.07106222	0.99747188	0.071242331	14.03659860	1.002534523	14.07217468
04° 04′ 40″	0.07111058	0.99746844	0.071291058	14.02700456	1.002537987	14.06260491
04° 04′ 50″	0.07115894	0.99746499	0.071339786	14.01742355	1.002541453	14.05304817
04° 05′ 00″	0.07120730	0.99746154	0.071388515	14.00785555	1.002544922	14.04350445
04° 05′ 10″	0.07125566	0.99745809	0.071437243	13.99830055	1.002548393	14.03397371
04° 05′ 20″	0.07130401	0.99745463	0.071485972	13.98875850	1.002551866	14.02445594
04° 05′ 30″	0.07135237	0.99745117	0.071534701	13.97922939	1.002555342	14.01495110
04° 05′ 40″	0.07140073	0.99744771	0.071583431	13.96971318	1.002558820	14.00545916
04° 05′ 50″	0.07144909	0.99744425	0.071632161	13.96020986	1.002562301	13.99598011
04° 06′ 00″	0.07149744	0.99744078	0.071680891	13.95071939	1.002565783	13.98651391
04° 06′ 10″	0.07154580	0.99743732	0.071729622	13.94124175	1.002569269	13.97706055
04° 06′ 20″	0.07159416	0.99743385	0.071778353	13.93177691	1.002572756	13.96761998
04° 06′ 30″ 04° 06′ 40″	0.07164252	0.99743037	0.071827084	13.92232485	1.002576246	13.95819219
	0.07169087	0.99742690	0.071875816	13.91288554	1.002579739	13.94877716
04° 06′ 50″	0.07173923	0.99742342	0.071924548	13.90345896	1.002583234	13.93937485
04° 07′ 00″	0.07178759	0.99741994	0.071973280	13.89404508	1.002586731	13.92998523
04° 07′ 10″	0.07183594	0.99741646	0.072022013	13.88464387	1.002590231	13.92060830
04° 07′ 20″ 04° 07′ 30″	0.07188430	0.99741298	0.072070746	13.87525531	1.002593732	13.91124401
	0.07193265	0.99740949	0.072119479	13.86587937	1.002597237	13.90189234
04° 07′ 40″ 04° 07′ 50″	0.07198101 0.07202936	0.99740600 0.99740251	0.072168213 0.072216947	13.85651603 13.84716526	1.002600744 1.002604253	13.89255327
	0.07202736	0.77/40231	0.072210747	13.04/10326	1.002004233	13.88322677

31 04° 07′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
04° 08′ 00″	0.07207772	0.99739902	0.072265681	13.83782703	1.002607764	13.87391282
04° 08′ 10″	0.07212607	0.99739552	0.072314416	13.82850133	1.002611278	13.86461139
04° 08′ 20″	0.07217443	0.99739203	0.072363151	13.81918813	1.002614794	13.85532246
04° 08′ 30″	0.07222278	0.99738852	0.072411887	13.80988739	1.002618313	13.84604600
04° 08′ 40″	0.07227114	0.99738502	0.072460622	13.80059910	1.002621834	13.83678198
04° 08′ 50″	0.07231949	0.99738152	0.072509358	13.79132323	1.002625357	13.82753038
04° 09′ 00″	0.07236785	0.99737801	0.072558095	13.78205976	1.002628883	13.81829118
04° 09′ 10″	0.07241620	0.99737450	0.072606832	13.77280866	1.002632411	13.80906436
04° 09′ 20″	0.07246456	0.99737099	0.072655569	13.76356990	1.002635942	13.79984987
04° 09′ 30″	0.07251291	0.99736747	0.072704306	13.75434347	1.002639475	13.79064771
04° 09′ 40″	0.07256126	0.99736396	0.072753044	13.74512933	1.002643010	13.78145785
04° 09′ 50″	0.07260962	0.99736044	0.072801782	13.73592747	1.002646548	13.77228025
04° 10′ 00″	0.07265797	0.99735692	0.072850521	13.72673785	1.002650088	13.76311491
04° 10′ 10″	0.07270632	0.99735339	0.072899260	13.71756045	1.002653630	13.75396179
04° 10′ 20″	0.07275468	0.99734987	0.072947999	13.70839526	1.002657175	13.74482086
04° 10′ 30″	0.07280303	0.99734634	0.072996738	13.69924224	1.002660722	13.73569211
04° 10′ 40″	0.07285138	0.99734281	0.073045478	13.69010136	1.002664272	13.72657551
04° 10′ 50″	0.07289973	0.99733927	0.073094218	13.68097262	1.002667824	13.71747104
04° 11′ 00″	0.07294809	0.99733574	0.073142959	13.67185597	1.002671378	13.70837867
04° 11′ 10″	0.07299644	0.99733220	0.073191700	13.66275141	1.002674935	13.69929838
04° 11′ 20″	0.07304479	0.99732866	0.073240441	13.65365889	1.002678494	13.69023014
04° 11′ 30″	0.07309314	0.99732512	0.073289183	13.64457841	1.002682055	13.68117393
04° 11′ 40″	0.07314149	0.99732157	0.073337925	13.63550993	1.002685619	13.67212972
04° 11′ 50″	0.07318985	0.99731803	0.073386667	13.62645344	1.002689186	13.66309750
04° 12′ 00″	0.07323820	0.99731448	0.073435410	13.61740890	1.002692754	13.65407723
04° 12′ 10″	0.07328655	0.99731093	0.073484153	13.60837629	1.002696325	13.64506890
04° 12′ 20″	0.07333490	0.99730737	0.073532896	13.59935560	1.002699899	13.63607248
04° 12′ 30″	0.07338325	0.99730381	0.073581640	13.59034680	1.002703474	13.62708795
04° 12′ 40″	0.07343160	0.99730026	0.073630384	13.58134985	1.002707053	13.61811528
04° 12′ 50″	0.07347995	0.99729669	0.073679128	13.57236475	1.002710633	13.60915445
04° 13′ 00″	0.07352830	0.99729313	0.073727873	13.56339147	1.002714216	13.60020544
04° 13′ 10″	0.07357665	0.99728956	0.073776618	13.55442997	1.002717801	13.59126822
04° 13′ 20″	0.07362500	0.99728600	0.073825363	13.54548025	1.002721389	13.58234277
04° 13′ 30″	0.07367335	0.99728243	0.073874109	13.53654228	1.002724979	13.57342907
04° 13′ 40″	0.07372170	0.99727885	0.073922855	13.52761603	1.002728572	13.56452710
04° 13′ 50″	0.07377005	0.99727528	0.073971602	13.51870148	1.002732167	13.55563682
04° 14′ 00″	0.07381840	0.99727170	0.074020348	13.50979860	1.002735764	13.54675822
04° 14′ 10″	0.07386675	0.99726812	0.074069096	13.50090738	1.002739363	13.53789128
04° 14′ 20″	0.07391510	0.99726454	0.074117843	13.49202780	1.002742965	13.52903596
04° 14′ 30″	0.07396345	0.99726095	0.074166591	13.48315982	1.002746570	13.52019226
04° 14′ 40″	0.07401179	0.99725737	0.074215339	13.47430343	1.002750177	13.51136014
04° 14′ 50″	0.07406014	0.99725378	0.074264088	13.46545860	1.002753786	13.50253959
04° 15′ 00″	0.07410849	0.99725019	0.074312837	13.45662531	1.002757397	13.49373057
04° 15′ 10″	0.07415684	0.99724659	0.074361586	13.44780354	1.002761011	13.48493308
04° 15′ 20″	0.07420519	0.99724299	0.074410336	13.43899327	1.002764627	13.47614708
04° 15′ 30″	0.07425353	0.99723940	0.074459086	13.43019447	1.002768246	13.46737255
04° 15′ 40″	0.07430188	0.99723579	0.074507836	13.42140712	1.002771867	13.45860948
04° 15′ 50″	0.07435023	0.99723219	0.074556587	13.41263120	1.002775491	13.44985783

32 04° 15′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
04° 16′ 00″	0.07439858	0.99722859	0.074605338	13.40386668	1.002779116	13.44111759
04° 16′ 10″	0.07444692	0.99722498	0.074654089	13.39511355	1.002782745	13.43238873
04° 16′ 20″	0.07449527	0.99722137	0.074702841	13.38637178	1.002786375	13.42367123
04° 16′ 30″	0.07454362	0.99721775	0.074751593	13.37764135	1.002790008	13.41496508
04° 16′ 40″	0.07459196	0.99721414	0.074800345	13.36892223	1.002793644	13.40627024
04° 16′ 50″	0.07464031	0.99721052	0.074849098	13.36021441	1.002797281	13.39758669
04° 17′ 00″	0.07468865	0.99720690	0.074897851	13.35151787	1.002800921	13.38891442
04° 17′ 10″	0.07473700	0.99720328	0.074946605	13.34283257	1.002804564	13.38025340
04° 17′ 20″	0.07478535	0.99719966	0.074995359	13.33415851	1.002808209	13.37160361
04° 17′ 30″	0.07483369	0.99719603	0.075044113	13.32549565	1.002811856	13.36296502
04° 17′ 40″	0.07488204	0.99719240	0.075092867	13.31684398	1.002815506	13.35433763
04° 17′ 50″	0.07493038	0.99718877	0.075141622	13.30820347	1.002819158	13.34572139
04° 18′ 00″	0.07497873	0.99718513	0.075190378	13.29957410	1.002822812	13.33711630
04° 18′ 10″	0.07502707	0.99718150	0.075239133	13.29095586	1.002826469	13.32852233
04° 18′ 20″	0.07507542	0.99717786	0.075287889	13.28234871	1.002830128	13.31993946
04° 18′ 30″	0.07512376	0.99717422	0.075336646	13.27375265	1.002833790	13.31136767
04° 18′ 40″	0.07517211	0.99717057	0.075385402	13.26516764	1.002837454	13.30280694
04° 18′ 50″	0.07522045	0.99716693	0.075434159	13.25659366	1.002841120	13.29425724
04° 19′ 00″	0.07526879	0.99716328	0.075482917	13.24803070	1.002844789	13.28571855
04° 19′ 10″	0.07531714	0.99715963	0.075531675	13.23947873	1.002848460	13.27719086
04° 19′ 20″	0.07536548	0.99715598	0.075580433	13.23093773	1.002852134	13.26867413
04° 19′ 30″	0.07541382	0.99715232	0.075629191	13.22240768	1.002855809	13.26016836
04° 19′ 40″	0.07546217	0.99714867	0.075677950	13.21388857	1.002859488	13.25167352
04° 19′ 50″	0.07551051	0.99714501	0.075726709	13.20538036	1.002863168	13.24318958
04° 20′ 00″	0.07555885	0.99714134	0.075775469	13.19688303	1.002866851	13.23471654
04° 20′ 10″	0.07560720	0.99713768	0.075824229	13.18839658	1.002870537	13.22625436
04° 20′ 20″	0.07565554	0.99713401	0.075872989	13.17992097	1.002874225	13.21780302
04° 20′ 30″	0.07570388	0.99713034	0.075921750	13.17145618	1.002877915	13.20936251
04° 20′ 40″	0.07575222	0.99712667	0.075970511	13.16300220	1.002881607	13.20093280
04° 20′ 50″	0.07580056	0.99712300	0.076019272	13.15455900	1.002885302	13.19251388
04° 21′ 00″	0.07584891	0.99711932	0.076068034	13.14612656	1.002889000	13.18410572
04° 21′ 10″	0.07589725	0.99711564	0.076116796	13.13770487	1.002892699	13.17570830
04° 21′ 20″	0.07594559	0.99711196	0.076165558	13.12929389	1.002896402	13.16732160
04° 21′ 30″	0.07599393	0.99710828	0.076214321	13.12089362	1.002900106	13.15894560
04° 21′ 40″	0.07604227	0.99710459	0.076263084	13.11250403	1.002903813	13.15058029
04° 21′ 50″	0.07609061	0.99710091	0.076311848	13.10412509	1.002907522	13.14222563
04° 22′ 00″	0.07613895	0.99709722	0.076360612	13.09575680	1.002911234	13.13388161
04° 22′ 10″	0.07618729	0.99709352	0.076409376	13.08739913	1.002914948	13.12554821
04° 22′ 20″	0.07623563	0.99708983	0.076458141	13.07905205	1.002918664	13.11722542
04° 22′ 30″	0.07628397	0.99708613	0.076506906	13.07071556	1.002922383	13.10891320
04° 22′ 40″	0.07633231	0.99708243	0.076555671	13.06238962	1.002926104	13.10061153
04° 22′ 50″	0.07638065	0.99707873	0.076604437	13.05407422	1.002929828	13.09232041
04° 23′ 00″	0.07642899	0.99707503	0.076653203	13.04576934	1.002933554	13.08403981
04° 23′ 10″ 04° 23′ 20″	0.07647733	0.99707132 0.99706761	0.076701969 0.076750736	13.03747496	1.002937282	13.07576970
04° 23′ 30″	0.07652567		0.076750736	13.02919106	1.002941013 1.002944746	13.06751008
04° 23′ 30″ 04° 23′ 40″	0.07657401	0.99706390	0.076799303	13.02091761 13.01265461		13.05926091
04° 23′ 50″	0.07662235	0.99706019 0.99705647	0.076848270	13.01265461	1.002948482 1.002952219	13.05102218 13.04279387
	0.07007007	0.77703047	0.070077036	13.00440202	1.002/32217	13.074//30/

33 04° 23′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
04° 24′ 00″	0.07671903	0.99705275	0.076945806	12.99615984	1.002955960	13.03457596
04° 24′ 10″	0.07676737	0.99704903	0.076994575	12.98792803	1.002959702	13.02636843
04° 24′ 20″	0.07681570	0.99704531	0.077043344	12.97970659	1.002963447	13.01817126
04° 24′ 30″	0.07686404	0.99704158	0.077092113	12.97149548	1.002967195	13.00998444
04° 24′ 40″	0.07691238	0.99703786	0.077140883	12.96329470	1.002970945	13.00180793
04° 24′ 50″	0.07696072	0.99703413	0.077189653	12.95510421	1.002974697	12.99364172
04° 25′ 00″	0.07700906	0.99703039	0.077238423	12.94692401	1.002978451	12.98548580
04° 25′ 10″	0.07705739	0.99702666	0.077287194	12.93875408	1.002982208	12.97734014
04° 25′ 20″	0.07710573	0.99702292	0.077335965	12.93059438	1.002985968	12.96920472
04° 25′ 30″	0.07715407	0.99701918	0.077384737	12.92244491	1.002989730	12.96107953
04° 25′ 40″	0.07720240	0.99701544	0.077433509	12.91430565	1.002993494	12.95296454
04° 25′ 50″	0.07725074	0.99701170	0.077482281	12.90617657	1.002997260	12.94485973
04° 26′ 00″	0.07729908	0.99700795	0.077531054	12.89805765	1.003001029	12.93676510
04° 26′ 10″	0.07734741	0.99700420	0.077579827	12.88994889	1.003004800	12.92868061
04° 26′ 20″	0.07739575	0.99700045	0.077628600	12.88185025	1.003008574	12.92060625
04° 26′ 30″	0.07744408	0.99699670	0.077677374	12.87376172	1.003012350	12.91254200
04° 26′ 40″	0.07749242	0.99699294	0.077726148	12.86568328	1.003016129	12.90448784
04° 26′ 50″	0.07754076	0.99698918	0.077774922	12.85761492	1.003019909	12.89644375
04° 27′ 00″	0.07758909	0.99698542	0.077823697	12.84955660	1.003023693	12.88840971
04° 27′ 10″	0.07763743	0.99698166	0.077872472	12.84150832	1.003027478	12.88038571
04° 27′ 20″	0.07768576	0.99697789	0.077921248	12.83347006	1.003031266	12.87237172
04° 27′ 30″	0.07773410	0.99697413	0.077970024	12.82544179	1.003035057	12.86436773
04° 27′ 40″	0.07778243	0.99697036	0.078018800	12.81742350	1.003038849	12.85637372
04° 27′ 50″	0.07783077	0.99696659	0.078067577	12.80941517	1.003042644	12.84838966
04° 28′ 00″	0.07787910	0.99696281	0.078116354	12.80141678	1.003046442	12.84041555
04° 28′ 10″	0.07792743	0.99695903	0.078165131	12.79342831	1.003050242	12.83245136
04° 28′ 20″	0.07797577	0.99695525	0.078213909	12.78544974	1.003054044	12.82449707
04° 28′ 30″	0.07802410	0.99695147	0.078262687	12.77748106	1.003057849	12.81655267
04° 28′ 40″	0.07807243	0.99694769	0.078311465	12.76952225	1.003061656	12.80861813
04° 28′ 50″	0.07812077	0.99694390	0.078360244	12.76157328	1.003065465	12.80069344
04° 29′ 00″	0.07816910	0.99694011	0.078409024	12.75363414	1.003069277	12.79277858
04° 29′ 10″	0.07821743	0.99693632	0.078457803	12.74570482	1.003073091	12.78487354
04° 29′ 20″	0.07826577	0.99693253	0.078506583	12.73778529	1.003076908	12.77697828
04° 29′ 30″	0.07831410	0.99692873	0.078555364	12.72987553	1.003080727	12.76909281
04° 29′ 40″	0.07836243	0.99692494	0.078604144	12.72197553	1.003084549	12.76121708
04° 29′ 50″	0.07841076	0.99692114	0.078652925	12.71408527	1.003088372	12.75335110
04° 30′ 00″	0.07845910	0.99691733	0.078701707	12.70620474	1.003092198	12.74549484
04° 30′ 10″	0.07850743	0.99691353	0.078750489	12.69833390	1.003096027	12.73764829
04° 30′ 20″	0.07855576	0.99690972	0.078799271	12.69047275	1.003099858	12.72981141
04° 30′ 30″	0.07860409	0.99690591	0.078848053	12.68262127	1.003103691	12.72198421
04° 30′ 40″	0.07865242	0.99690210	0.078896836	12.67477943	1.003107527	12.71416665
04° 30′ 50″	0.07870075	0.99689829	0.078945620	12.66694723	1.003111365	12.70635873
04° 31′ 00″	0.07874908	0.99689447	0.078994403	12.65912464	1.003115206	12.69856042
04° 31′ 10″	0.07879741	0.99689065	0.079043188	12.65131165	1.003119049	12.69077171
04° 31′ 20″	0.07884575	0.99688683	0.079091972	12.64350824	1.003122894	12.68299257
04° 31′ 30″	0.07889408	0.99688300	0.079140757	12.63571439	1.003126741	12.67522300
04° 31′ 40″	0.07894241	0.99687918	0.079189542	12.62793008	1.003130591	12.66746297
04° 31′ 50″	0.07899074	0.99687535	0.079238328	12.62015529	1.003134444	12.65971246

34 04° 31′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
04° 32′ 00″	0.07903907	0.99687152	0.079287114	12.61239001	1.003138299	12.65197146
04° 32′ 10″	0.07908740	0.99686769	0.079335900	12.60463423	1.003142156	12.64423996
04° 32′ 20″	0.07913572	0.99686385	0.079384687	12.59688792	1.003146016	12.63651792
04° 32′ 30″	0.07918405	0.99686001	0.079433474	12.58915106	1.003149878	12.62880534
04° 32′ 40″	0.07923238	0.99685617	0.079482261	12.58142364	1.003153742	12.62110220
04° 32′ 50″	0.07928071	0.99685233	0.079531049	12.57370564	1.003157609	12.61340849
04° 33′ 00″	0.07932904	0.99684849	0.079579837	12.56599705	1.003161478	12.60572417
04° 33′ 10″	0.07937737	0.99684464	0.079628626	12.55829784	1.003165349	12.59804924
04° 33′ 20″	0.07942570	0.99684079	0.079677415	12.55060801	1.003169223	12.59038369
04° 33′ 30″	0.07947403	0.99683694	0.079726204	12.54292752	1.003173100	12.58272748
04° 33′ 40″	0.07952235	0.99683308	0.079774994	12.53525637	1.003176978	12.57508061
04° 33′ 50″	0.07957068	0.99682923	0.079823784	12.52759454	1.003180859	12.56744306
04° 34′ 00″	0.07961901	0.99682537	0.079872574	12.51994201	1.003184743	12.55981481
04° 34′ 10″	0.07966734	0.99682151	0.079921365	12.51229877	1.003188629	12.55219584
04° 34′ 20″	0.07971566	0.99681764	0.079970156	12.50466479	1.003192517	12.54458614
04° 34′ 30″	0.07976399	0.99681378	0.080018948	12.49704006	1.003196408	12.53698569
04° 34′ 40″	0.07981232	0.99680991	0.080067740	12.48942457	1.003200301	12.52939448
04° 34′ 50″	0.07986064	0.99680604	0.080116532	12.48181829	1.003204196	12.52181248
04° 35′ 00″	0.07990897	0.99680217	0.080165325	12.47422121	1.003208094	12.51423968
04° 35′ 10″	0.07995730	0.99679829	0.080214118	12.46663332	1.003211994	12.50667607
04° 35′ 20″	0.08000562	0.99679441	0.080262912	12.45905459	1.003215897	12.49912162
04° 35′ 30″	0.08005395	0.99679053	0.080311706	12.45148502	1.003219801	12.49157633
04° 35′ 40″	0.08010227	0.99678665	0.080360500	12.44392457	1.003223709	12.48404016
04° 35′ 50″	0.08015060	0.99678277	0.080409295	12.43637325	1.003227619	12.47651312
04° 36′ 00″	0.08019892	0.99677888	0.080458090	12.42883102	1.003231531	12.46899517
04° 36′ 10″	0.08024725	0.99677499	0.080506885	12.42129788	1.003235445	12.46148631
04° 36′ 20″	0.08029557	0.99677110	0.080555681	12.41377380	1.003239362	12.45398651
04° 36′ 30″	0.08034390	0.99676720	0.080604477	12.40625878	1.003243281	12.44649577
04° 36′ 40″	0.08039222	0.99676331	0.080653274	12.39875279	1.003247203	12.43901406
04° 36′ 50″	0.08044055	0.99675941	0.080702070	12.39125582	1.003251127	12.43154137
04° 37′ 00″	0.08048887	0.99675551	0.080750868	12.38376785	1.003255054	12.42407768
04° 37′ 10″	0.08053720	0.99675160	0.080799665	12.37628887	1.003258982	12.41662298
04° 37′ 20″	0.08058552	0.99674770	0.080848464	12.36881886	1.003262914	12.40917724
04° 37′ 30″	0.08063384	0.99674379	0.080897262	12.36135780	1.003266847	12.40174047
04° 37′ 40″	0.08068217	0.99673988	0.080946061	12.35390567	1.003270783	12.39431262
04° 37′ 50″	0.08073049	0.99673597	0.080994860	12.34646247	1.003274722	12.38689370
04° 38′ 00″	0.08077881	0.99673205	0.081043660	12.33902818	1.003278663	12.37948369
04° 38′ 10″	0.08082714	0.99672813	0.081092460	12.33160277	1.003282606	12.37208256
04° 38′ 20″	0.08087546	0.99672421	0.081141260	12.32418624	1.003286551	12.36469031
04° 38′ 30″	0.08092378	0.99672029	0.081190061	12.31677856	1.003290499	12.35730692
04° 38′ 40″	0.08097210	0.99671637	0.081238862	12.30937973	1.003294450	12.34993236
04° 38′ 50″	0.08102043	0.99671244	0.081287663	12.30198972	1.003298402	12.34256663
04° 39′ 00″	0.08106875	0.99670851	0.081336465	12.29460852	1.003302358	12.33520972
04° 39′ 10″	0.08111707	0.99670458	0.081385268	12.28723612	1.003306315	12.32786159
04° 39′ 20″	0.08116539	0.99670065	0.081434070	12.27987249	1.003310275	12.32052225
04° 39′ 30″	0.08121371	0.99669671	0.081482873	12.27251763	1.003314237	12.31319166
04° 39′ 40″	0.08126203	0.99669277	0.081531677	12.26517151	1.003318202	12.30586983
04° 39′ 50″	0.08131035	0.99668883	0.081580481	12.25783413	1.003322169	12.29855672

35 04° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
04° 40′ 00″	0.08135867	0.99668489	0.081629285	12.25050546	1.003326138	12.29125234
04° 40′ 10″	0.08140700	0.99668094	0.081678089	12.24318549	1.003330110	12.28395665
04° 40′ 20″	0.08145532	0.99667699	0.081726894	12.23587420	1.003334085	12.27666964
04° 40′ 30″	0.08150364	0.99667304	0.081775700	12.22857159	1.003338061	12.26939131
04° 40′ 40″	0.08155196	0.99666909	0.081824506	12.22127763	1.003342040	12.26212163
04° 40′ 50″	0.08160028	0.99666514	0.081873312	12.21399230	1.003346022	12.25486058
04° 41′ 00″	0.08164860	0.99666118	0.081922118	12.20671560	1.003350005	12.24760816
04° 41′ 10″	0.08169691	0.99665722	0.081970925	12.19944751	1.003353992	12.24036435
04° 41′ 20″	0.08174523	0.99665326	0.082019733	12.19218801	1.003357980	12.23312913
04° 41′ 30″	0.08179355	0.99664929	0.082068540	12.18493708	1.003361971	12.22590249
04° 41′ 40″	0.08184187	0.99664533	0.082117348	12.17769472	1.003365965	12.21868441
04° 41′ 50″	0.08189019	0.99664136	0.082166157	12.17046090	1.003369960	12.21147487
04° 42′ 00″	0.08193851	0.99663739	0.082214966	12.16323562	1.003373958	12.20427387
04° 42′ 10″	0.08198683	0.99663341	0.082263775	12.15601885	1.003377959	12.19708139
04° 42′ 20″	0.08203514	0.99662944	0.082312585	12.14881059	1.003381962	12.18989740
04° 42′ 30″	0.08208346	0.99662546	0.082361395	12.14161081	1.003385967	12.18272190
04° 42′ 40″	0.08213178	0.99662148	0.082410205	12.13441950	1.003389975	12.17555487
04° 42′ 50″	0.08218010	0.99661750	0.082459016	12.12723664	1.003393985	12.16839630
04° 43′ 00″	0.08222842	0.99661351	0.082507827	12.12006223	1.003397998	12.16124617
04° 43′ 10″	0.08227673	0.99660952	0.082556639	12.11289625	1.003402012	12.15410447
04° 43′ 20″	0.08232505	0.99660553	0.082605451	12.10573867	1.003406030	12.14697118
04° 43′ 30″	0.08237337	0.99660154	0.082654263	12.09858950	1.003410049	12.13984628
04° 43′ 40″	0.08242168	0.99659754	0.082703076	12.09144870	1.003414071	12.13272977
04° 43′ 50″	0.08247000	0.99659355	0.082751889	12.08431627	1.003418096	12.12562162
04° 44′ 00″	0.08251831	0.99658955	0.082800703	12.07719220	1.003422123	12.11852183
04° 44′ 10″	0.08256663	0.99658555	0.082849517	12.07007646	1.003426152	12.11143037
04° 44′ 20″	0.08261495	0.99658154	0.082898331	12.06296904	1.003430184	12.10434724
04° 44′ 30″	0.08266326	0.99657754	0.082947146	12.05586994	1.003434218	12.09727242
04° 44′ 40″	0.08271158	0.99657353	0.082995961	12.04877912	1.003438254	12.09020589
04° 44′ 50″	0.08275989	0.99656952	0.083044776	12.04169659	1.003442293	12.08314763
04° 45′ 00″	0.08280821	0.99656550	0.083093592	12.03462232	1.003446334	12.07609765
04° 45′ 10″	0.08285652	0.99656149	0.083142409	12.02755630	1.003450377	12.06905591
04° 45′ 20″	0.08290484	0.99655747	0.083191225	12.02049852	1.003454423	12.06202241
04° 45′ 30″	0.08295315	0.99655345	0.083240042	12.01344896	1.003458472	12.05499713
04° 45′ 40″	0.08300147	0.99654943	0.083288860	12.00640760	1.003462523	12.04798006
04° 45′ 50″ 04° 46′ 00″	0.08304978	0.99654540	0.083337678	11.99937444 11.99234946	1.003466576	12.04097118
04° 46′ 10″	0.08309809	0.99654137	0.083386496 0.083435315		1.003470631	12.03397048
04° 46′ 10″	0.08314641 0.08319472	0.99653734 0.99653331		11.98533264 11.97832397	1.003474689 1.003478749	12.02697794 12.01999356
04° 46′ 30″	0.08319472	0.99652928	0.083484134 0.083532953	11.97832397	1.003478749	12.01999336
04° 46′ 40″	0.08329135	0.99652524	0.083581773	11.96433102	1.003482812	12.00604917
04° 46′ 50″	0.08333966	0.99652120	0.083630593	11.95734671	1.003486877	11.99908915
04° 47′ 00″	0.08338797	0.99651716	0.083679414	11.95037050	1.003490945	11.99213722
04° 47′ 10″	0.08343628	0.99651311	0.083728235	11.94340237	1.003473013	11.98519337
04° 47′ 10′′ 04° 47′ 20′′	0.08348460	0.99650907	0.083777056	11.93644230	1.003477067	11.97825758
04° 47′ 30″	0.08353291	0.77650707	0.083825878	11.92949028	1.003507239	11.97132985
04° 47′ 40″	0.08358122	0.77650302	0.083874701	11.92254630	1.003507237	11.96441015
04° 47′ 50″	0.08362953	0.99649691	0.083923523	11.91561034	1.003511318	11.95749847
	0.00302733	0.//UT/U/I	0.003723323	11.71301034	1.003313400	11,/3/7/07/

36 04° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
04° 48′ 00″	0.08367784	0.99649286	0.083972346	11.90868239	1.003519484	11.95059481
04° 48′ 10″	0.08372615	0.99648880	0.084021170	11.90176243	1.003523571	11.94369914
04° 48′ 20″	0.08377447	0.99648474	0.084069993	11.89485046	1.003527660	11.93681145
04° 48′ 30″	0.08382278	0.99648068	0.084118818	11.88794646	1.003531751	11.92993172
04° 48′ 40″	0.08387109	0.99647661	0.084167642	11.88105040	1.003535845	11.92305995
04° 48′ 50″	0.08391940	0.99647255	0.084216467	11.87416229	1.003539941	11.91619613
04° 49′ 00″	0.08396771	0.99646848	0.084265293	11.86728210	1.003544040	11.90934022
04° 49′ 10″	0.08401602	0.99646440	0.084314119	11.86040983	1.003548141	11.90249223
04° 49′ 20″	0.08406433	0.99646033	0.084362945	11.85354545	1.003552244	11.89565214
04° 49′ 30″	0.08411264	0.99645625	0.084411771	11.84668896	1.003556350	11.88881993
04° 49′ 40″	0.08416095	0.99645217	0.084460598	11.83984034	1.003560458	11.88199560
04° 49′ 50″	0.08420926	0.99644809	0.084509426	11.83299958	1.003564568	11.87517912
04° 50′ 00″	0.08425757	0.99644401	0.084558254	11.82616667	1.003568681	11.86837049
04° 50′ 10″	0.08430587	0.99643992	0.084607082	11.81934158	1.003572797	11.86156969
04° 50′ 20″	0.08435418	0.99643583	0.084655910	11.81252431	1.003576914	11.85477670
04° 50′ 30″	0.08440249	0.99643174	0.084704739	11.80571485	1.003581035	11.84799152
04° 50′ 40″	0.08445080	0.99642765	0.084753569	11.79891317	1.003585157	11.84121413
04° 50′ 50″	0.08449911	0.99642355	0.084802399	11.79211928	1.003589282	11.83444452
04° 51′ 00″	0.08454742	0.99641946	0.084851229	11.78533314	1.003593409	11.82768267
04° 51′ 10″	0.08459572	0.99641536	0.084900060	11.77855476	1.003597539	11.82092857
04° 51′ 20″	0.08464403	0.99641125	0.084948891	11.77178411	1.003601671	11.81418221
04° 51′ 30″	0.08469234	0.99640715	0.084997722	11.76502119	1.003605805	11.80744357
04° 51′ 40″	0.08474064	0.99640304	0.085046554	11.75826598	1.003609942	11.80071264
04° 51′ 50″	0.08478895	0.99639893	0.085095386	11.75151846	1.003614082	11.79398941
04° 52′ 00″	0.08483726	0.99639482	0.085144219	11.74477863	1.003618223	11.78727386
04° 52′ 10″	0.08488557	0.99639071	0.085193052	11.73804647	1.003622367	11.78056599
04° 52′ 20″	0.08493387	0.99638659	0.085241885	11.73132197	1.003626514	11.77386577
04° 52′ 30″	0.08498218	0.99638247	0.085290719	11.72460512	1.003630663	11.76717320
04° 52′ 40″ 04° 52′ 50″	0.08503048	0.99637835	0.085339553	11.71789589	1.003634814	11.76048826
04° 52′ 50″ 04° 53′ 00″	0.08507879	0.99637423 0.99637010	0.085388388 0.085437223	11.71119428	1.003638967	11.75381094 11.74714122
04° 53′ 10″	0.08512709	0.99636597		11.70450028 11.69781387	1.003643123 1.003647282	11.74714122
04° 53′ 10″ 04° 53′ 20″	0.08517540 0.08522370	0.99636184	0.085486058 0.085534894	11.69781387	1.003647282	11.74047910
04° 53′ 30″	0.08527201	0.99635771	0.085583731	11.68446378	1.003655606	11.72717758
04° 53′ 40″	0.08532031	0.77635771	0.085632567	11.67780008	1.003659771	11.72053816
04° 53′ 50″	0.08536862	0.77633337	0.085681404	11.67114391	1.003663939	11.71390627
04° 54′ 00″	0.08541692	0.99634530	0.085730242	11.66449527	1.003668110	11.70728192
04° 54′ 10″	0.08546523	0.99634115	0.085779080	11.65785415	1.003672282	11.70066508
04° 54′ 20″	0.08551353	0.99633701	0.085827918	11.65122053	1.003676458	11.69405575
04° 54′ 30″	0.08556183	0.99633286	0.085876757	11.64459440	1.003680635	11.68745390
04° 54′ 40″	0.08561014	0.99632871	0.085925596	11.63797575	1.003684815	11.68085954
04° 54′ 50″	0.08565844	0.99632456	0.085974435	11.63136456	1.003688997	11.67427263
04° 55′ 00″	0.08570674	0.99632041	0.086023275	11.62476082	1.003693182	11.66769318
04° 55′ 10″	0.08575505	0.99631625	0.086072116	11.61816453	1.003697369	11.66112117
04° 55′ 20″	0.08580335	0.99631209	0.086120956	11.61157566	1.003701559	11.65455659
04° 55′ 30″	0.08585165	0.99630793	0.086169797	11.60499420	1.003705751	11.64799942
04° 55′ 40″	0.08589995	0.99630377	0.086218639	11.59842015	1.003709945	11.64144965
04° 55′ 50″	0.08594826	0.99629960	0.086267481	11.59185348	1.003714142	11.63490727
	1 1 1 1					

37 04° 55′ 50″

v	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	asa(x)
X						csc(x)
04° 56′ 00″ 04° 56′ 10″	0.08599656	0.99629543	0.086316323	11.58529420	1.003718341	11.62837227
04° 56′ 10″ 04° 56′ 20″	0.08604486	0.99629126	0.086365166	11.57874227	1.003722542	11.62184463
04° 56′ 30″	0.08609316	0.99628709	0.086414009	11.57219770	1.003726746	11.61532434
	0.08614146	0.99628292	0.086462853	11.56566047	1.003730952	11.60881140
04° 56′ 40″	0.08618976	0.99627874	0.086511697	11.55913056	1.003735161	11.60230578
04° 56′ 50″	0.08623807	0.99627456	0.086560541	11.55260797	1.003739372	11.59580747
04° 57′ 00″	0.08628637	0.99627038	0.086609386	11.54609268	1.003743586	11.58931647
04° 57′ 10″	0.08633467	0.99626619	0.086658231	11.53958468	1.003747802	11.58283275
04° 57′ 20″	0.08638297	0.99626201	0.086707077	11.53308396	1.003752020	11.57635632
04° 57′ 30″	0.08643127	0.99625782	0.086755923	11.52659050	1.003756240	11.56988715
04° 57′ 40″	0.08647957	0.99625362	0.086804770	11.52010430	1.003760463	11.56342523
04° 57′ 50″	0.08652787	0.99624943	0.086853617	11.51362534	1.003764689	11.55697056
04° 58′ 00″	0.08657617	0.99624523	0.086902464	11.50715361	1.003768917	11.55052311
04° 58′ 10″	0.08662446	0.99624104	0.086951312	11.50068909	1.003773147	11.54408288
04° 58′ 20″	0.08667276	0.99623684	0.087000160	11.49423178	1.003777380	11.53764986
04° 58′ 30″	0.08672106	0.99623263	0.087049008	11.48778167	1.003781615	11.53122403
04° 58′ 40″	0.08676936	0.99622843	0.087097857	11.48133873	1.003785852	11.52480538
04° 58′ 50″	0.08681766	0.99622422	0.087146706	11.47490296	1.003790092	11.51839390
04° 59′ 00″	0.08686596	0.99622001	0.087195556	11.46847435	1.003794334	11.51198957
04° 59′ 10″	0.08691426	0.99621580	0.087244406	11.46205288	1.003798579	11.50559239
04° 59′ 20″	0.08696255	0.99621158	0.087293257	11.45563855	1.003802826	11.49920234
04° 59′ 30″	0.08701085	0.99620736	0.087342108	11.44923134	1.003807075	11.49281942
04° 59′ 40″	0.08705915	0.99620314	0.087390959	11.44283123	1.003811327	11.48644360
04° 59′ 50″	0.08710745	0.99619892	0.087439811	11.43643822	1.003815581	11.48007488
05° 00′ 00″	0.08715574	0.99619470	0.087488664	11.43005230	1.003819838	11.47371325
05° 00′ 10″	0.08720404	0.99619047	0.087537516	11.42367345	1.003824097	11.46735868
05° 00′ 20″	0.08725234	0.99618624	0.087586369	11.41730167	1.003828358	11.46101119
05° 00′ 30″	0.08730063	0.99618201	0.087635223	11.41093693	1.003832622	11.45467074
05° 00′ 40″	0.08734893	0.99617778	0.087684077	11.40457923	1.003836888	11.44833733
05° 00′ 50″	0.08739722	0.99617354	0.087732931	11.39822856	1.003841156	11.44201094
05° 01′ 00″	0.08744552	0.99616930	0.087781786	11.39188491	1.003845427	11.43569157
05° 01′ 10″	0.08749382	0.99616506	0.087830641	11.38554825	1.003849701	11.42937921
05° 01′ 20″	0.08754211	0.99616082	0.087879496	11.37921859	1.003853976	11.42307383
05° 01′ 30″	0.08759041	0.99615657	0.087928352	11.37289591	1.003858255	11.41677544
05° 01′ 40″	0.08763870	0.99615233	0.087977209	11.36658020	1.003862535	11.41048401
05° 01′ 50″	0.08768700	0.99614808	0.088026066	11.36027144	1.003866818	11.40419954
05° 02′ 00″	0.08773529	0.99614382	0.088074923	11.35396963	1.003871103	11.39792202
05° 02′ 10″	0.08778358	0.99613957	0.088123781	11.34767475	1.003875391	11.39165143
05° 02′ 20″	0.08783188	0.99613531	0.088172639	11.34138680	1.003879681	11.38538776
05° 02′ 30″	0.08788017	0.99613105	0.088221497	11.33510576	1.003883974	11.37913101
05° 02′ 40″	0.08792847	0.99612679	0.088270356	11.32883161	1.003888269	11.37288115
05° 02′ 50″	0.08797676	0.99612253	0.088319215	11.32256436	1.003892566	11.36663818
05° 03′ 00″	0.08802505	0.99611826	0.088368075	11.31630398	1.003896866	11.36040209
05° 03′ 10″	0.08807335	0.99611399	0.088416935	11.31005046	1.003901168	11.35417287
05° 03′ 20″	0.08812164	0.99610972	0.088465796	11.30380381	1.003905472	11.34795050
05° 03′ 30″	0.08816993	0.99610545	0.088514657	11.29756399	1.003909779	11.34173497
05° 03′ 40″	0.08821822	0.99610117	0.088563518	11.29133100	1.003914088	11.33552627
05° 03′ 50″	0.08826652	0.99609689	0.088612380	11.28510484	1.003918400	11.32932440

38 05° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
05° 04′ 00″	0.08831481	0.99609261	0.088661242	11.27888549	1.003922714	11.32312933
05° 04′ 10″	0.08836310	0.99608833	0.088710105	11.27267293	1.003927031	11.31694106
05° 04′ 20″	0.08841139	0.99608405	0.088758968	11.26646716	1.003931349	11.31075958
05° 04′ 30″	0.08845968	0.99607976	0.088807832	11.26026816	1.003935671	11.30458487
05° 04′ 40″	0.08850797	0.99607547	0.088856696	11.25407593	1.003939994	11.29841693
05° 04′ 50″	0.08855627	0.99607118	0.088905560	11.24789046	1.003944320	11.29225574
05° 05′ 00″	0.08860456	0.99606688	0.088954425	11.24171172	1.003948649	11.28610130
05° 05′ 10″	0.08865285	0.99606258	0.089003290	11.23553972	1.003952980	11.27995358
05° 05′ 20″	0.08870114	0.99605829	0.089052156	11.22937444	1.003957313	11.27381259
05° 05′ 30″	0.08874943	0.99605398	0.089101022	11.22321586	1.003961649	11.26767830
05° 05′ 40″	0.08879772	0.99604968	0.089149888	11.21706399	1.003965987	11.26155072
05° 05′ 50″	0.08884601	0.99604537	0.089198755	11.21091880	1.003970327	11.25542982
05° 06′ 00″	0.08889430	0.99604107	0.089247622	11.20478029	1.003974670	11.24931559
05° 06′ 10″	0.08894259	0.99603675	0.089296490	11.19864844	1.003979015	11.24320804
05° 06′ 20″	0.08899088	0.99603244	0.089345358	11.19252325	1.003983363	11.23710714
05° 06′ 30″	0.08903916	0.99602813	0.089394227	11.18640471	1.003987713	11.23101288
05° 06′ 40″	0.08908745	0.99602381	0.089443096	11.18029279	1.003992065	11.22492525
05° 06′ 50″	0.08913574	0.99601949	0.089491965	11.17418750	1.003996420	11.21884425
05° 07′ 00″	0.08918403	0.99601516	0.089540835	11.16808882	1.004000777	11.21276986
05° 07′ 10″	0.08923232	0.99601084	0.089589705	11.16199674	1.004005137	11.20670207
05° 07′ 20″	0.08928061	0.99600651	0.089638576	11.15591125	1.004009499	11.20064087
05° 07′ 30″	0.08932889	0.99600218	0.089687447	11.14983234	1.004013864	11.19458624
05° 07′ 40″	0.08937718	0.99599785	0.089736319	11.14376000	1.004018230	11.18853819
05° 07′ 50″	0.08942547	0.99599352	0.089785191	11.13769421	1.004022600	11.18249669
05° 08′ 00″	0.08947375	0.99598918	0.089834063	11.13163497	1.004026971	11.17646175
05° 08′ 10″	0.08952204	0.99598484	0.089882936	11.12558227	1.004031345	11.17043333
05° 08′ 20″	0.08957033	0.99598050	0.089931809	11.11953610	1.004035722	11.16441145
05° 08′ 30″	0.08961861	0.99597616	0.089980683	11.11349644	1.004040100	11.15839608
05° 08′ 40″	0.08966690	0.99597181	0.090029557	11.10746328	1.004044482	11.15238721
05° 08′ 50″	0.08971519	0.99596746	0.090078432	11.10143662	1.004048865	11.14638484
05° 09′ 00″	0.08976347	0.99596311	0.090127307	11.09541644	1.004053251	11.14038896
05° 09′ 10″	0.08981176	0.99595876	0.090176182	11.08940274	1.004057640	11.13439954
05° 09′ 20″	0.08986004	0.99595440	0.090225058	11.08339550	1.004062030	11.12841659
05° 09′ 30″	0.08990833	0.99595005	0.090273934	11.07739471	1.004066424	11.12244009
05° 09′ 40″	0.08995661	0.99594569	0.090322811	11.07140037	1.004070819	11.11647004
05° 09′ 50″	0.09000490	0.99594132	0.090371688	11.06541245	1.004075217	11.11050641
05° 10′ 00″	0.09005318	0.99593696	0.090420565	11.05943096	1.004079618	11.10454921
05° 10′ 10″	0.09010147	0.99593259	0.090469443	11.05345587	1.004084020	11.09859841
05° 10′ 20″	0.09014975	0.99592822	0.090518322	11.04748719	1.004088426	11.09265402
05° 10′ 30″ 05° 10′ 40″	0.09019804	0.99592385	0.090567201	11.04152490	1.004092833	11.08671602
05° 10′ 40″ 05° 10′ 50″	0.09024632	0.99591948	0.090616080	11.03556899	1.004097243	11.08078440
05° 11′ 00″		0.99591510	0.090664959	11.02961944	1.004101656 1.004106070	11.07485914
05° 11′ 00″ 05° 11′ 10″	0.09034289	0.99591072	0.090713840	11.02367626		11.06894025
05° 11′ 10″ 05° 11′ 20″	0.09039117	0.99590634	0.090762720	11.01773943	1.004110488	11.06302771
05° 11′ 30″	0.09043945	0.99590196 0.99589757	0.090811601	11.01180893 11.00588477	1.004114907	11.05712150
05° 11′ 40″	0.09048773	0.99589757	0.090860482 0.090909364	10.99996692	1.004119329 1.004123754	11.05122163 11.04532807
05° 11′ 50″	0.09058430	0.99588879	0.090909364	10.77776672	1.004123734	11.04552807
=======================================	0.07030430	0.7/3000/7	0.070730247	10.7/403330	1,004120100	11.03/44002

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05° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
05° 12′ 00″	0.09063258	0.99588440	0.091007129	10.98815014	1.004132610	11.03355987
05° 12′ 10″	0.09068086	0.99588000	0.091056012	10.98225119	1.004137041	11.02768521
05° 12′ 20″	0.09072914	0.99587561	0.091104896	10.97635851	1.004141475	11.02181683
05° 12′ 30″	0.09077742	0.99587121	0.091153780	10.97047211	1.004145912	11.01595471
05° 12′ 40″	0.09082571	0.99586680	0.091202664	10.96459196	1.004150350	11.01009886
05° 12′ 50″	0.09087399	0.99586240	0.091251549	10.95871806	1.004154791	11.00424925
05° 13′ 00″	0.09092227	0.99585799	0.091300434	10.95285040	1.004159235	10.99840588
05° 13′ 10″	0.09097055	0.99585358	0.091349320	10.94698896	1.004163681	10.99256874
05° 13′ 20″	0.09101883	0.99584917	0.091398206	10.94113375	1.004168129	10.98673781
05° 13′ 30″	0.09106711	0.99584476	0.091447093	10.93528474	1.004172580	10.98091310
05° 13′ 40″	0.09111539	0.99584034	0.091495980	10.92944194	1.004177033	10.97509458
05° 13′ 50″	0.09116367	0.99583592	0.091544867	10.92360532	1.004181489	10.96928225
05° 14′ 00″	0.09121195	0.99583150	0.091593755	10.91777488	1.004185947	10.96347610
05° 14′ 10″	0.09126023	0.99582708	0.091642644	10.91195061	1.004190407	10.95767612
05° 14′ 20″	0.09130851	0.99582265	0.091691532	10.90613249	1.004194870	10.95188230
05° 14′ 30″	0.09135678	0.99581823	0.091740422	10.90032053	1.004199335	10.94609463
05° 14′ 40″	0.09140506	0.99581380	0.091789311	10.89451471	1.004203803	10.94031310
05° 14′ 50″	0.09145334	0.99580936	0.091838201	10.88871501	1.004208273	10.93453770
05° 15′ 00″	0.09150162	0.99580493	0.091887092	10.88292144	1.004212745	10.92876842
05° 15′ 10″	0.09154990	0.99580049	0.091935983	10.87713398	1.004217220	10.92300524
05° 15′ 20″	0.09159817	0.99579605	0.091984874	10.87135261	1.004221697	10.91724817
05° 15′ 30″	0.09164645	0.99579161	0.092033766	10.86557734	1.004226177	10.91149719
05° 15′ 40″	0.09169473	0.99578716	0.092082658	10.85980815	1.004230659	10.90575230
05° 15′ 50″	0.09174301	0.99578272	0.092131551	10.85404504	1.004235143	10.90001347
05° 16′ 00″	0.09179128	0.99577827	0.092180444	10.84828798	1.004239630	10.89428070
05° 16′ 10″	0.09183956	0.99577382	0.092229337	10.84253698	1.004244119	10.88855399
05° 16′ 20″	0.09188784	0.99576936	0.092278231	10.83679202	1.004248611	10.88283332
05° 16′ 30″	0.09193611	0.99576491	0.092327126	10.83105309	1.004253105	10.87711869
05° 16′ 40″	0.09198439	0.99576045	0.092376021	10.82532018	1.004257601	10.87141008
05° 16′ 50″	0.09203266	0.99575599	0.092424916	10.81959330	1.004262100	10.86570748
05° 17′ 00″	0.09208094	0.99575153	0.092473812	10.81387241	1.004266601	10.86001089
05° 17′ 10″	0.09212921	0.99574706	0.092522708	10.80815752	1.004271105	10.85432029
05° 17′ 20″	0.09217749	0.99574259	0.092571604	10.80244862	1.004275611	10.84863568
05° 17′ 30″	0.09222576	0.99573812	0.092620501	10.79674569	1.004280119	10.84295705
05° 17′ 40″	0.09227404	0.99573365	0.092669399	10.79104874	1.004284630	10.83728438
05° 17′ 50″	0.09232231	0.99572918	0.092718297	10.78535774	1.004289143	10.83161768
05° 18′ 00″	0.09237059	0.99572470	0.092767195	10.77967268	1.004293659	10.82595692
05° 18′ 10″	0.09241886	0.99572022	0.092816094	10.77399357	1.004298176	10.82030210
05° 18′ 20″	0.09246714	0.99571574	0.092864993	10.76832039	1.004302697	10.81465320
05° 18′ 30″	0.09251541	0.99571125	0.092913893	10.76265312	1.004307220	10.80901023
05° 18′ 40″	0.09256368	0.99570677	0.092962793	10.75699177	1.004311745	10.80337317
05° 18′ 50″	0.09261196	0.99570228	0.093011694	10.75133632	1.004316272	10.79774202
05° 19′ 00″	0.09266023	0.99569779	0.093060595	10.74568676	1.004320802	10.79211675
05° 19′ 10″	0.09270850	0.99569329	0.093109496	10.74004309	1.004325335	10.78649737
05° 19′ 20″	0.09275677	0.99568880	0.093158398	10.73440529	1.004329870	10.78088386
05° 19′ 30″	0.09280505	0.99568430	0.093207300	10.72877335	1.004334407	10.77527622
05° 19′ 40″ 05° 19′ 50″	0.09285332	0.99567980 0.99567530	0.093256203 0.093305106	10.72314727	1.004338946	10.76967444
US 17 50"	0.07270139	0.7736/330	0.073303106	10.71752704	1.004343488	10.76407850

40 05° 19′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
05° 20′ 00″	0.09294986	0.99567079	0.093354010	10.71191265	1.004348033	10.75848839
05° 20′ 10″	0.09299813	0.99566628	0.093402914	10.70630408	1.004352580	10.75290412
05° 20′ 20″	0.09304640	0.99566177	0.093451819	10.70070133	1.004357129	10.74732567
05° 20′ 30″	0.09309467	0.99565726	0.093500724	10.69510439	1.004361681	10.74175302
05° 20′ 40″	0.09314295	0.99565275	0.093549629	10.68951326	1.004366235	10.73618618
05° 20′ 50″	0.09319122	0.99564823	0.093598535	10.68392791	1.004370791	10.73062513
05° 21′ 00″	0.09323949	0.99564371	0.093647441	10.67834835	1.004375350	10.72506986
05° 21′ 10″	0.09328776	0.99563919	0.093696348	10.67277457	1.004379911	10.71952037
05° 21′ 20″	0.09333603	0.99563467	0.093745255	10.66720654	1.004384475	10.71397664
05° 21′ 30″	0.09338430	0.99563014	0.093794163	10.66164428	1.004389041	10.70843867
05° 21′ 40″	0.09343256	0.99562561	0.093843071	10.65608776	1.004393609	10.70290644
05° 21′ 50″	0.09348083	0.99562108	0.093891980	10.65053698	1.004398180	10.69737996
05° 22′ 00″	0.09352910	0.99561655	0.093940889	10.64499193	1.004402753	10.69185920
05° 22′ 10″	0.09357737	0.99561201	0.093989798	10.63945260	1.004407329	10.68634417
05° 22′ 20″	0.09362564	0.99560747	0.094038708	10.63391898	1.004411907	10.68083484
05° 22′ 30″	0.09367391	0.99560293	0.094087618	10.62839107	1.004416487	10.67533122
05° 22′ 40″	0.09372218	0.99559839	0.094136529	10.62286884	1.004421070	10.66983329
05° 22′ 50″	0.09377044	0.99559384	0.094185440	10.61735231	1.004425655	10.66434105
05° 23′ 00″	0.09381871	0.99558930	0.094234352	10.61184145	1.004430243	10.65885448
05° 23′ 10″	0.09386698	0.99558475	0.094283264	10.60633625	1.004434833	10.65337358
05° 23′ 20″	0.09391525	0.99558020	0.094332176	10.60083672	1.004439426	10.64789834
05° 23′ 30″	0.09396351	0.99557564	0.094381089	10.59534283	1.004444020	10.64242875
05° 23′ 40″	0.09401178	0.99557108	0.094430003	10.58985459	1.004448618	10.63696480
05° 23′ 50″	0.09406005	0.99556653	0.094478917	10.58437198	1.004453217	10.63150649
05° 24′ 00″	0.09410831	0.99556196	0.094527831	10.57889499	1.004457819	10.62605380
05° 24′ 10″	0.09415658	0.99555740	0.094576746	10.57342362	1.004462424	10.62060672
05° 24′ 20″	0.09420485	0.99555283	0.094625661	10.56795786	1.004467031	10.61516525
05° 24′ 30″	0.09425311	0.99554827	0.094674577	10.56249769	1.004471640	10.60972938
05° 24′ 40″	0.09430138	0.99554370	0.094723493	10.55704311	1.004476252	10.60429909
05° 24′ 50″	0.09434964	0.99553912	0.094772410	10.55159411	1.004480866	10.59887439
05° 25′ 00″	0.09439791	0.99553455	0.094821327	10.54615069	1.004485482	10.59345526
05° 25′ 10″	0.09444617	0.99552997	0.094870244	10.54071283	1.004490101	10.58804169
05° 25′ 20″	0.09449444	0.99552539	0.094919162	10.53528052	1.004494722	10.58263368
05° 25′ 30″	0.09454270	0.99552081	0.094968081	10.52985376	1.004499346	10.57723122
05° 25′ 40″	0.09459096	0.99551622	0.095016999	10.52443254	1.004503972	10.57183429
05° 25′ 50″	0.09463923	0.99551164	0.095065919	10.51901685	1.004508601	10.56644289
05° 26′ 00″	0.09468749	0.99550705	0.095114838	10.51360667	1.004513232	10.56105702
05° 26′ 10″	0.09473576	0.99550245	0.095163759	10.50820202	1.004517865	10.55567665
05° 26′ 20″	0.09478402	0.99549786	0.095212679	10.50280286	1.004522501	10.55030179
05° 26′ 30″	0.09483228	0.99549326	0.095261600	10.49740920	1.004527139	10.54493243
05° 26′ 40″	0.09488054	0.99548867	0.095310522	10.49202103	1.004531779	10.53956855
05° 26′ 50″	0.09492881	0.99548406	0.095359444	10.48663833	1.004536422	10.53421015
05° 27′ 00″	0.09497707	0.99547946	0.095408366	10.48126111	1.004541068	10.52885722
05° 27′ 10″	0.09502533	0.99547485	0.095457289	10.47588935	1.004545715	10.52350976
05° 27′ 20″	0.09507359	0.99547025	0.095506213	10.47052304	1.004550365	10.51816775
05° 27′ 30″	0.09512185	0.99546564	0.095555136	10.46516218	1.004555018	10.51283118
05° 27′ 40″	0.09517012	0.99546102	0.095604061	10.45980675	1.004559673	10.50750005
05° 27′ 50″	0.09521838	0.99545641	0.095652985	10.45445676	1.004564330	10.50217435

41 05° 27′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
05° 28′ 00″	0.09526664	0.99545179	0.095701911	10.44911218	1.004568990	10.49685407
05° 28′ 10″	0.09531490	0.99544717	0.095750836	10.44377302	1.004573652	10.49153920
05° 28′ 20″	0.09536316	0.99544255	0.095799762	10.43843926	1.004578317	10.48622974
05° 28′ 30″	0.09541142	0.99543792	0.095848689	10.43311089	1.004582984	10.48092567
05° 28′ 40″	0.09545968	0.99543330	0.095897616	10.42778792	1.004587653	10.47562699
05° 28′ 50″	0.09550794	0.99542867	0.095946543	10.42247032	1.004592325	10.47033369
05° 29′ 00″	0.09555620	0.99542404	0.095995471	10.41715810	1.004596999	10.46504576
05° 29′ 10″	0.09560446	0.99541940	0.096044400	10.41185123	1.004601676	10.45976319
05° 29′ 20″	0.09565272	0.99541477	0.096093328	10.40654972	1.004606355	10.45448598
05° 29′ 30″	0.09570098	0.99541013	0.096142258	10.40125356	1.004611036	10.44921412
05° 29′ 40″	0.09574924	0.99540549	0.096191187	10.39596274	1.004615720	10.44394759
05° 29′ 50″	0.09579749	0.99540084	0.096240118	10.39067725	1.004620406	10.43868640
05° 30′ 00″	0.09584575	0.99539620	0.096289048	10.38539708	1.004625095	10.43343052
05° 30′ 10″	0.09589401	0.99539155	0.096337979	10.38012223	1.004629786	10.42817997
05° 30′ 20″	0.09594227	0.99538690	0.096386911	10.37485268	1.004634479	10.42293471
05° 30′ 30″	0.09599053	0.99538225	0.096435843	10.36958843	1.004639175	10.41769476
05° 30′ 40″	0.09603878	0.99537759	0.096484775	10.36432947	1.004643873	10.41246010
05° 30′ 50″	0.09608704	0.99537294	0.096533708	10.35907579	1.004648574	10.40723072
05° 31′ 00″	0.09613530	0.99536828	0.096582642	10.35382739	1.004653277	10.40200661
05° 31′ 10″	0.09618355	0.99536361	0.096631575	10.34858425	1.004657982	10.39678777
05° 31′ 20″	0.09623181	0.99535895	0.096680510	10.34334637	1.004662690	10.39157419
05° 31′ 30″	0.09628007	0.99535428	0.096729445	10.33811374	1.004667400	10.38636586
05° 31′ 40″	0.09632832	0.99534961	0.096778380	10.33288636	1.004672113	10.38116277
05° 31′ 50″	0.09637658	0.99534494	0.096827315	10.32766421	1.004676828	10.37596492
05° 32′ 00″	0.09642483	0.99534027	0.096876252	10.32244729	1.004681546	10.37077229
05° 32′ 10″	0.09647309	0.99533559	0.096925188	10.31723558	1.004686266	10.36558489
05° 32′ 20″	0.09652134	0.99533091	0.096974125	10.31202909	1.004690988	10.36040269
05° 32′ 30″	0.09656960	0.99532623	0.097023063	10.30682780	1.004695712	10.35522570
05° 32′ 40″	0.09661785	0.99532155	0.097072001	10.30163170	1.004700440	10.35005390
05° 32′ 50″	0.09666611	0.99531687	0.097120939	10.29644080	1.004705169	10.34488729
05° 33′ 00″	0.09671436	0.99531218	0.097169878	10.29125507	1.004709901	10.33972586
05° 33′ 10″	0.09676262	0.99530749	0.097218817	10.28607451	1.004714635	10.33456960
05° 33′ 20″	0.09681087	0.99530280	0.097267757	10.28089912	1.004719372	10.32941851
05° 33′ 30″	0.09685912	0.99529810	0.097316698	10.27572889	1.004724111	10.32427258
05° 33′ 40″	0.09690738	0.99529340	0.097365638	10.27056380	1.004728853	10.31913179
05° 33′ 50″	0.09695563	0.99528870	0.097414579	10.26540386	1.004733597	10.31399614
05° 34′ 00″	0.09700388	0.99528400	0.097463521	10.26024905	1.004738343	10.30886563
05° 34′ 10″	0.09705214	0.99527930	0.097512463	10.25509937	1.004743092	10.30374024
05° 34′ 20″	0.09710039	0.99527459	0.097561406	10.24995480	1.004747843	10.29861997
05° 34′ 30″	0.09714864	0.99526988	0.097610349	10.24481534	1.004752597	10.29350482
05° 34′ 40″	0.09719689	0.99526517	0.097659292	10.23968099	1.004757352	10.28839476
05° 34′ 50″	0.09724514	0.99526046	0.097708236	10.23455173	1.004762111	10.28328980
05° 35′ 00″	0.09729340	0.99525574	0.097757181	10.22942756	1.004766872	10.27818993
05° 35′ 10″	0.09734165	0.99525103	0.097806126	10.22430847	1.004771635	10.27309514
05° 35′ 20″	0.09738990	0.99524631	0.097855071	10.21919445	1.004776400	10.26800542
05° 35′ 30″	0.09743815	0.99524158	0.097904017	10.21408550	1.004781168	10.26292076
05° 35′ 40″	0.09748640	0.99523686	0.097952963	10.20898160	1.004785939	10.25784116
05° 35′ 50″	0.09753465	0.99523213	0.098001910	10.20388276	1.004790712	10.25276662

42 05° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
05° 36′ 00″	0.09758290	0.99522740	0.098050857	10.19878895	1.004795487	10.24769711
05° 36′ 10″	0.09763115	0.99522267	0.098099805	10.19370018	1.004800265	10.24263264
05° 36′ 20″	0.09767940	0.99521793	0.098148753	10.18861644	1.004805045	10.23757320
05° 36′ 30″	0.09772765	0.99521320	0.098197702	10.18353772	1.004809827	10.23251878
05° 36′ 40″	0.09777590	0.99520846	0.098246651	10.17846401	1.004814612	10.22746936
05° 36′ 50″	0.09782415	0.99520372	0.098295600	10.17339531	1.004819399	10.22242496
05° 37′ 00″	0.09787240	0.99519897	0.098344550	10.16833160	1.004824189	10.21738555
05° 37′ 10″	0.09792064	0.99519423	0.098393501	10.16327288	1.004828981	10.21235113
05° 37′ 20″	0.09796889	0.99518948	0.098442452	10.15821915	1.004833775	10.20732170
05° 37′ 30″	0.09801714	0.99518473	0.098491403	10.15317039	1.004838572	10.20229724
05° 37′ 40″	0.09806539	0.99517997	0.098540355	10.14812660	1.004843372	10.19727775
05° 37′ 50″	0.09811364	0.99517522	0.098589308	10.14308777	1.004848173	10.19226321
05° 38′ 00″	0.09816188	0.99517046	0.098638260	10.13805389	1.004852978	10.18725364
05° 38′ 10″	0.09821013	0.99516570	0.098687214	10.13302496	1.004857784	10.18224900
05° 38′ 20″	0.09825838	0.99516094	0.098736168	10.12800097	1.004862593	10.17724931
05° 38′ 30″	0.09830662	0.99515617	0.098785122	10.12298190	1.004867404	10.17225455
05° 38′ 40″	0.09835487	0.99515141	0.098834076	10.11796777	1.004872218	10.16726471
05° 38′ 50″	0.09840312	0.99514664	0.098883032	10.11295855	1.004877034	10.16227979
05° 39′ 00″	0.09845136	0.99514186	0.098931987	10.10795424	1.004881853	10.15729978
05° 39′ 10″	0.09849961	0.99513709	0.098980943	10.10295483	1.004886674	10.15232467
05° 39′ 20″	0.09854785	0.99513231	0.099029900	10.09796031	1.004891497	10.14735446
05° 39′ 30″	0.09859610	0.99512753	0.099078857	10.09297069	1.004896323	10.14238913
05° 39′ 40″	0.09864434	0.99512275	0.099127815	10.08798594	1.004901151	10.13742869
05° 39′ 50″	0.09869259	0.99511797	0.099176773	10.08300607	1.004905982	10.13247311
05° 40′ 00″	0.09874083	0.99511318	0.099225731	10.07803107	1.004910815	10.12752241
05° 40′ 10″	0.09878908	0.99510840	0.099274690	10.07306092	1.004915650	10.12257656
05° 40′ 20″	0.09883732	0.99510360	0.099323649	10.06809563	1.004920488	10.11763557
05° 40′ 30″	0.09888557	0.99509881	0.099372609	10.06313518	1.004925328	10.11269942
05° 40′ 40″	0.09893381	0.99509402	0.099421570	10.05817957	1.004930171	10.10776811
05° 40′ 50″	0.09898205	0.99508922	0.099470530	10.05322878	1.004935016	10.10284163
05° 41′ 00″	0.09903030	0.99508442	0.099519492	10.04828283	1.004939863	10.09791997
05° 41′ 10″	0.09907854	0.99507962	0.099568454	10.04334169	1.004944713	10.09300313
05° 41′ 20″	0.09912678	0.99507481	0.099617416	10.03840536	1.004949566	10.08809110
05° 41′ 30″	0.09917502	0.99507000	0.099666378	10.03347383	1.004954420	10.08318387
05° 41′ 40″	0.09922327	0.99506520	0.099715342	10.02854709	1.004959277	10.07828144
05° 41′ 50″	0.09927151	0.99506038	0.099764305	10.02362515	1.004964137	10.07338380
05° 42′ 00″	0.09931975	0.99505557	0.099813269	10.01870799	1.004968999	10.06849094
05° 42′ 10″	0.09936799	0.99505075	0.099862234	10.01379560	1.004973863	10.06360285
05° 42′ 20″	0.09941623	0.99504593	0.099911199	10.00888798	1.004978730	10.05871953
05° 42′ 30″	0.09946447	0.99504111	0.099960165	10.00398512	1.004983599	10.05384097
05° 42′ 40″	0.09951271	0.99503629	0.100009131	9.999087008	1.004988471	10.04896716
05° 42′ 50″	0.09956096	0.99503146	0.100058097	9.994193647	1.004993345	10.04409810
05° 43′ 00″	0.09960920	0.99502664	0.100107064	9.989305026	1.004998221	10.03923378
05° 43′ 10″	0.09965744	0.99502181	0.100156032	9.984421137	1.005003100	10.03437419
05° 43′ 20″	0.09970568	0.99501697	0.100205000	9.979541975	1.005007981	10.02951933
05° 43′ 30″	0.09975392	0.99501214	0.100253968	9.974667532	1.005012865	10.02466919
05° 43′ 40″ 05° 43′ 50″	0.09980215	0.99500730	0.100302937	9.969797800	1.005017751	10.01982376
	0.09985039	0.99500246	0.100351906	9.964932774	1.005022639	10.01498304

43 05° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
05° 44′ 00″	0.09989863	0.99499762	0.100400876	9.960072447	1.005027530	10.01014701
05° 44′ 10″	0.09994687	0.99499278	0.100449846	9.955216811	1.005032423	10.00531567
05° 44′ 20″	0.09999511	0.99498793	0.100498817	9.950365860	1.005037319	10.00048902
05° 44′ 30″	0.10004335	0.99498308	0.100547789	9.945519586	1.005042217	9.995667053
05° 44′ 40″	0.10009159	0.99497823	0.100596760	9.940677985	1.005047117	9.990849753
05° 44′ 50″	0.10013982	0.99497337	0.100645732	9.935841047	1.005052020	9.986037118
05° 45′ 00″	0.10018806	0.99496852	0.100694705	9.931008767	1.005056926	9.981229140
05° 45′ 10″	0.10023630	0.99496366	0.100743678	9.926181139	1.005061833	9.976425813
05° 45′ 20″	0.10028454	0.99495880	0.100792652	9.921358154	1.005066743	9.971627130
05° 45′ 30″	0.10033277	0.99495394	0.100841626	9.916539807	1.005071656	9.966833085
05° 45′ 40″	0.10038101	0.99494907	0.100890601	9.911726091	1.005076571	9.962043671
05° 45′ 50″	0.10042925	0.99494420	0.100939576	9.906916998	1.005081488	9.957258880
05° 46′ 00″	0.10047748	0.99493933	0.100988551	9.902112523	1.005086408	9.952478708
05° 46′ 10″	0.10052572	0.99493446	0.101037528	9.897312659	1.005091330	9.947703146
05° 46′ 20″	0.10057395	0.99492959	0.101086504	9.892517399	1.005096255	9.942932188
05° 46′ 30″	0.10062219	0.99492471	0.101135481	9.887726737	1.005101182	9.938165828
05° 46′ 40″	0.10067042	0.99491983	0.101184459	9.882940665	1.005106111	9.933404058
05° 46′ 50″	0.10071866	0.99491495	0.101233437	9.878159177	1.005111043	9.928646873
05° 47′ 00″	0.10076689	0.99491006	0.101282415	9.873382267	1.005115977	9.923894266
05° 47′ 10″	0.10081513	0.99490518	0.101331394	9.868609928	1.005120914	9.919146229
05° 47′ 20″	0.10086336	0.99490029	0.101380373	9.863842154	1.005125853	9.914402757
05° 47′ 30″	0.10091160	0.99489540	0.101429353	9.859078937	1.005130794	9.909663843
05° 47′ 40″	0.10095983	0.99489050	0.101478334	9.854320271	1.005135738	9.904929480
05° 47′ 50″	0.10100806	0.99488561	0.101527314	9.849566151	1.005140684	9.900199663
05° 48′ 00″	0.10105630	0.99488071	0.101576296	9.844816568	1.005145633	9.895474383
05° 48′ 10″	0.10110453	0.99487581	0.101625278	9.840071517	1.005150584	9.890753635
05° 48′ 20″	0.10115276	0.99487091	0.101674260	9.835330992	1.005155538	9.886037412
05° 48′ 30″	0.10120100	0.99486600	0.101723243	9.830594985	1.005160494	9.881325708
05° 48′ 40″	0.10124923	0.99486109	0.101772226	9.825863490	1.005165452	9.876618517
05° 48′ 50″	0.10129746	0.99485618	0.101821210	9.821136501	1.005170413	9.871915831
05° 49′ 00″	0.10134569	0.99485127	0.101870194	9.816414011	1.005175376	9.867217644
05° 49′ 10″	0.10139392	0.99484636	0.101919179	9.811696015	1.005180342	9.862523951
05° 49′ 20″	0.10144215	0.99484144	0.101968164	9.806982504	1.005185310	9.857834744
05° 49′ 30″	0.10149039	0.99483652	0.102017150	9.802273474	1.005190280	9.853150017
05° 49′ 40″	0.10153862	0.99483160	0.102066136	9.797568917	1.005195253	9.848469763
05° 49′ 50″	0.10158685	0.99482667	0.102115123	9.792868827	1.005200228	9.843793977
05° 50′ 00″	0.10163508	0.99482175	0.102164110	9.788173198	1.005205206	9.839122652
05° 50′ 10″	0.10168331	0.99481682	0.102213097	9.783482024	1.005210186	9.834455781
05° 50′ 20″	0.10173154	0.99481189	0.102262085	9.778795298	1.005215168	9.829793359
05° 50′ 30″	0.10177977	0.99480696	0.102311074	9.774113013	1.005220153	9.825135378
05° 50′ 40″	0.10182800	0.99480202	0.102360063	9.769435164	1.005225140	9.820481833
05° 50′ 50″	0.10187623	0.99479708	0.102409053	9.764761744	1.005230130	9.815832717
05° 51′ 00″	0.10192446	0.99479214	0.102458043	9.760092747	1.005235122	9.811188024
05° 51′ 10″ 05° 51′ 20″	0.10197268	0.99478720 0.99478225	0.102507033	9.755428166 9.750767996	1.005240117	9.806547747
05° 51′ 20″ 05° 51′ 30″	0.10202091		0.102556024		1.005245113	9.801911880 9.797280418
05° 51′ 40″	0.10206914	0.99477731 0.99477236	0.102605016 0.102654008	9.746112229	1.005250113	
05° 51′ 50″	0.10211737	0.99477236	0.102654008	9.741460860 9.736813883	1.005255115 1.005260119	9.792653353 9.788030680
=======================================	0.10216360	0.774/0/41	0.102/03000	/./ 30013003	1.003260119	7.700030000

44 05° 51′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
05° 52′ 00″	0.10221382	0.99476245	0.102751993	9.732171291	1.005265125	9.783412392
05° 52′ 10″	0.10226205	0.99475749	0.102800987	9.727533077	1.005270134	9.778798483
05° 52′ 20″	0.10231028	0.99475254	0.102849981	9.722899237	1.005275146	9.774188947
05° 52′ 30″	0.10235851	0.99474757	0.102898975	9.718269762	1.005280160	9.769583777
05° 52′ 40″	0.10240673	0.99474261	0.102947970	9.713644649	1.005285176	9.764982968
05° 52′ 50″	0.10245496	0.99473764	0.102996966	9.709023889	1.005290194	9.760386513
05° 53′ 00″	0.10250319	0.99473268	0.103045962	9.704407478	1.005295215	9.755794406
05° 53′ 10″	0.10255141	0.99472771	0.103094958	9.699795408	1.005300239	9.751206641
05° 53′ 20″	0.10259964	0.99472273	0.103143955	9.695187674	1.005305265	9.746623212
05° 53′ 30″	0.10264786	0.99471776	0.103192952	9.690584269	1.005310293	9.742044112
05° 53′ 40″	0.10269609	0.99471278	0.103241950	9.685985188	1.005315324	9.737469336
05° 53′ 50″	0.10274431	0.99470780	0.103290949	9.681390425	1.005320357	9.732898877
05° 54′ 00″	0.10279254	0.99470282	0.103339947	9.676799972	1.005325392	9.728332730
05° 54′ 10″	0.10284076	0.99469783	0.103388947	9.672213825	1.005330430	9.723770888
05° 54′ 20″	0.10288899	0.99469285	0.103437947	9.667631977	1.005335471	9.719213344
05° 54′ 30″	0.10293721	0.99468786	0.103486947	9.663054421	1.005340514	9.714660094
05° 54′ 40″	0.10298543	0.99468286	0.103535948	9.658481153	1.005345559	9.710111131
05° 54′ 50″	0.10303366	0.99467787	0.103584949	9.653912166	1.005350606	9.705566449
05° 55′ 00″	0.10308188	0.99467287	0.103633951	9.649347453	1.005355656	9.701026042
05° 55′ 10″	0.10313010	0.99466788	0.103682953	9.644787010	1.005360709	9.696489904
05° 55′ 20″	0.10317833	0.99466287	0.103731956	9.640230829	1.005365764	9.691958029
05° 55′ 30″	0.10322655	0.99465787	0.103780959	9.635678905	1.005370821	9.687430411
05° 55′ 40″	0.10327477	0.99465286	0.103829963	9.631131232	1.005375881	9.682907043
05° 55′ 50″	0.10332299	0.99464786	0.103878967	9.626587804	1.005380943	9.678387921
05° 56′ 00″	0.10337121	0.99464285	0.103927972	9.622048615	1.005386007	9.673873038
05° 56′ 10″	0.10341944	0.99463783	0.103976977	9.617513659	1.005391074	9.669362388
05° 56′ 20″	0.10346766	0.99463282	0.104025983	9.612982930	1.005396143	9.664855964
05° 56′ 30″	0.10351588	0.99462780	0.104074989	9.608456422	1.005401215	9.660353762
05° 56′ 40″	0.10356410	0.99462278	0.104123996	9.603934129	1.005406289	9.655855776
05° 56′ 50″	0.10361232	0.99461776	0.104173003	9.599416046	1.005411366	9.651361998
05° 57′ 00″	0.10366054	0.99461273	0.104222011	9.594902166	1.005416445	9.646872425
05° 57′ 10″	0.10370876	0.99460771	0.104271019	9.590392484	1.005421526	9.642387048
05° 57′ 20″	0.10375698	0.99460268	0.104320028	9.585886993	1.005426610	9.637905864
05° 57′ 30″	0.10380520	0.99459765	0.104369037	9.581385688	1.005431696	9.633428865
05° 57′ 40″	0.10385342	0.99459261	0.104418047	9.576888563	1.005436785	9.628956046
05° 57′ 50″	0.10390164	0.99458758	0.104467057	9.572395612	1.005441876	9.624487402
05° 58′ 00″	0.10394986	0.99458254	0.104516068	9.567906829	1.005446969	9.620022926
05° 58′ 10″	0.10399807	0.99457750	0.104565079	9.563422209	1.005452065	9.615562612
05° 58′ 20″	0.10404629	0.99457246	0.104614091	9.558941745	1.005457164	9.611106455
05° 58′ 30″	0.10409451	0.99456741	0.104663103	9.554465432	1.005462264	9.606654449
05° 58′ 40″	0.10414273	0.99456236	0.104712116	9.549993265	1.005467368	9.602206588
05° 58′ 50″	0.10419095	0.99455731	0.104761129	9.545525236	1.005472473	9.597762866
05° 59′ 00″	0.10423916	0.99455226	0.104810143	9.541061341	1.005477581	9.593323278
05° 59′ 10″	0.10428738	0.99454720	0.104859157	9.536601574	1.005482691	9.588887818
05° 59′ 20″	0.10433560	0.99454215	0.104908172	9.532145929	1.005487804	9.584456480
05° 59′ 30″	0.10438381	0.99453709	0.104957187	9.527694400	1.005492919	9.580029258
05° 59′ 40″	0.10443203	0.99453203	0.105006202	9.523246982	1.005498037	9.575606147
05° 59′ 50″	0.10448025	0.99452696	0.105055219	9.518803669	1.005503157	9.571187141
	1					

45 05° 59′ 50″

06° 00′ 00″ 0.10452846 0.99452190 0.105104235 9.514364454 1.005508280 9.56677 06° 00′ 10″ 0.10457668 0.994511683 0.105153252 9.509929333 1.005518404 9.5623 06° 00′ 20″ 0.10462489 0.99451176 0.105202270 9.505498300 1.005518532 9.5579 06° 00′ 30″ 0.10467311 0.99450668 0.105202270 9.505498300 1.005523661 9.5579 06° 00′ 40″ 0.10476954 0.99449653 0.105300307 9.496648475 1.005533928 9.54471 06° 01′ 00″ 0.10481775 0.99449145 0.105398346 9.487814933 1.005539328 9.54471 06° 01′ 10″ 0.10486597 0.99448128 0.105496387 9.478997629 1.005544204 9.5359 06° 01′ 30″ 0.10496240 0.99447619 0.105544308 9.474995052 1.005554940 9.5272 06° 01′ 50″ 0.10501061 0.99447619 0.1056943452 9.465802021 1.005564786 9.5184 06° 02′ 00″ 0.1051552 0.99445601 <td< th=""><th></th></td<>	
06° 00′ 20″ 0.10462489 0.99451176 0.105202270 9.505498300 1.005518532 9.55799 06° 00′ 30″ 0.10467311 0.99450668 0.105251288 9.501071349 1.005523661 9.55351 06° 00′ 40″ 0.10476954 0.99449613 0.105300307 9.496648475 1.005528794 9.54911 06° 01′ 00″ 0.10481775 0.99449145 0.105398346 9.487814933 1.005533928 9.54471 06° 01′ 10″ 0.10486597 0.99449145 0.105398346 9.487814933 1.005544204 9.53591 06° 01′ 30″ 0.10496240 0.99447619 0.105549688 9.478997629 1.005549346 9.5272 06° 01′ 50″ 0.10501061 0.99447610 0.105594430 9.4749595052 1.005554490 9.5272 06° 01′ 50″ 0.10505882 0.99446601 0.105643452 9.465802021 1.0055564786 9.51841 06° 02′ 10″ 0.1051525 0.99445072 0.10579021 9.452642697 1.0055580248 9.5053 06° 02′ 30″ 0.10522988 0.994445072	1 100
06° 00′ 30″ 0.10467311 0.99450668 0.105251288 9.501071349 1.005523661 9.5353 06° 00′ 40″ 0.10472132 0.99450161 0.105300307 9.496648475 1.005528794 9.54915 06° 00′ 50″ 0.10476954 0.99449653 0.105349326 9.492229671 1.005533928 9.54473 06° 01′ 10″ 0.10481775 0.99449145 0.105398346 9.487814933 1.005533928 9.54036 06° 01′ 20″ 0.10491418 0.99448636 0.105447366 9.487814933 1.005544204 9.5359 06° 01′ 30″ 0.10496240 0.99447619 0.10554408 9.474595052 1.005554490 9.5272 06° 01′ 50″ 0.10505882 0.99446601 0.105694430 9.470196518 1.005559637 9.5141 06° 02′ 10″ 0.10510703 0.99446091 0.105692475 9.461411556 1.005575901 9.5097 06° 02′ 20″ 0.10520346 0.99445502 0.105790521 9.452642697 1.005580248 9.5097 06° 02′ 40″ 0.10520346 0.994445072	,1420
06° 00′ 40″ 0.10472132 0.99450161 0.105300307 9.496648475 1.005528794 9.54915 06° 00′ 50″ 0.10476954 0.99449653 0.105349326 9.492229671 1.005533928 9.54475 06° 01′ 00″ 0.10481775 0.99449145 0.105398346 9.487814933 1.005539065 9.5403 06° 01′ 20″ 0.10486597 0.99448128 0.105496387 9.47897629 1.00554204 9.53559 06° 01′ 30″ 0.10496240 0.99447619 0.105545408 9.474595052 1.005554490 9.53159 06° 01′ 50″ 0.10501061 0.99447110 0.105564340 9.470196518 1.0055564490 9.5272 06° 01′ 50″ 0.10510703 0.99446601 0.105643452 9.465802021 1.005564786 9.5184 06° 02′ 10″ 0.10510703 0.99445082 0.105790521 9.452642697 1.005556937 9.5141 06° 02′ 20″ 0.10520346 0.99445082 0.105790521 9.452642697 1.005580248 9.50532 06° 02′ 20″ 0.10525167 0.99444562 <td< td=""><td>4694</td></td<>	4694
06° 00′ 50″ 0.10476954 0.99449653 0.105349326 9.492229671 1.005533928 9.54473 06° 01′ 00″ 0.10481775 0.99449145 0.105398346 9.487814933 1.005539065 9.54036 06° 01′ 10″ 0.10486597 0.99448636 0.105496387 9.478997629 1.0055440240 9.53598 06° 01′ 20″ 0.10496240 0.99447619 0.105545408 9.474595052 1.0055544904 9.53159 06° 01′ 40″ 0.10501061 0.99447110 0.105594430 9.470196518 1.0055547949 9.5272 06° 01′ 50″ 0.10505882 0.9944601 0.105643452 9.465802021 1.005564786 9.5184 06° 02′ 00″ 0.10510703 0.99445072 0.105790521 9.452642697 1.005569937 9.5141 06° 02′ 20″ 0.10520346 0.99445072 0.105790521 9.4452642697 1.005580248 9.5053 06° 02′ 30″ 0.10529988 0.99444562 0.105888570 9.448264293 1.005590567 9.49668 06° 03′ 00″ 0.10534810 0.99443541	2051
06° 01′ 00″ 0.10481775 0.99449145 0.105398346 9.487814933 1.005539065 9.54036 06° 01′ 10″ 0.10486597 0.99448636 0.105447366 9.483404254 1.005544204 9.53593 06° 01′ 20″ 0.10491418 0.99447619 0.105546387 9.478997629 1.005549346 9.53153 06° 01′ 40″ 0.10501061 0.99447110 0.105554408 9.474595052 1.005564786 9.52123 06° 01′ 50″ 0.10505882 0.99446601 0.105692475 9.461411556 1.005569937 9.5141 06° 02′ 00″ 0.10510703 0.99445091 0.105692475 9.461411556 1.005569937 9.5141 06° 02′ 20″ 0.10515525 0.99445072 0.105741498 9.457025116 1.005580248 9.5053 06° 02′ 30″ 0.10529988 0.99445072 0.105839546 9.448264293 1.005580248 9.5010 06° 02′ 40″ 0.10534810 0.99443541 0.105839546 9.448264293 1.005580248 9.5010 06° 03′ 0″ 0.10534810 0.99443030	3484
06° 01' 10" 0.10486597 0.99448636 0.105447366 9.483404254 1.005544204 9.53599 06° 01' 20" 0.10491418 0.99448128 0.105496387 9.478997629 1.005549346 9.53159 06° 01' 30" 0.10496240 0.99447619 0.10554408 9.474595052 1.005554490 9.5272 06° 01' 50" 0.10501061 0.99446011 0.105543452 9.465802021 1.005564786 9.51847 06° 02' 00" 0.10510703 0.99446091 0.105692475 9.461411556 1.005569937 9.51847 06° 02' 20" 0.105105525 0.99445582 0.105741498 9.457025116 1.005569937 9.51417 06° 02' 20" 0.10520346 0.99445072 0.105790521 9.452642697 1.005580248 9.5053 06° 02' 30" 0.10529988 0.99444562 0.105839546 9.448264293 1.005580248 9.50103 06° 03' 0" 0.10539631 0.99443541 0.105937596 9.439519508 1.005590567 9.49663 06° 03' 20" 0.10544452 0.99443501 <	8988
06° 01′ 20″ 0.10491418 0.99448128 0.105496387 9.478997629 1.005549346 9.53159 06° 01′ 30″ 0.10496240 0.99447619 0.105545408 9.474595052 1.005554490 9.5272 06° 01′ 40″ 0.10501061 0.99447110 0.105594430 9.470196518 1.005559637 9.5228 06° 01′ 50″ 0.10505882 0.99446091 0.105643452 9.465802021 1.005564786 9.51847 06° 02′ 10″ 0.1051525 0.99445582 0.105741498 9.457025116 1.005575091 9.50974 06° 02′ 20″ 0.10520346 0.99445072 0.105790521 9.452642697 1.005580248 9.50103 06° 02′ 30″ 0.1052988 0.99444562 0.105889546 9.448264293 1.005585406 9.50103 06° 02′ 40″ 0.10534810 0.99443541 0.105986621 9.439519508 1.005590567 9.49663 06° 03′ 00″ 0.10534810 0.99443030 0.105986621 9.439519508 1.005590567 9.48793 06° 03′ 10″ 0.10544252 0.99443030 <t< td=""><td>8557</td></t<>	8557
06° 01′ 30″ 0.10496240 0.99447619 0.105545408 9.474595052 1.005554490 9.52722 06° 01′ 40″ 0.10501061 0.99447110 0.105594430 9.470196518 1.005559637 9.52284 06° 01′ 50″ 0.10505882 0.99446601 0.105643452 9.465802021 1.005564786 9.51847 06° 02′ 10″ 0.10510703 0.99446091 0.105692475 9.461411556 1.005569937 9.5141 06° 02′ 20″ 0.10510520346 0.99445582 0.105790521 9.452642697 1.005580248 9.5053 06° 02′ 30″ 0.10520346 0.9944562 0.105839546 9.448264293 1.005585406 9.50103 06° 02′ 30″ 0.10529788 0.99444051 0.105888570 9.443889899 1.005590567 9.49663 06° 02′ 50″ 0.10534810 0.99443541 0.105937596 9.439519508 1.005595731 9.4923 06° 03′ 00″ 0.10544452 0.9944207 0.106035648 9.430790715 1.005606065 9.48793 06° 03′ 20″ 0.105549273 0.99449047	2185
06° 01′ 40″ 0.10501061 0.99447110 0.105594430 9.470196518 1.005559637 9.52284 06° 01′ 50″ 0.10505882 0.99446601 0.105643452 9.465802021 1.005564786 9.51847 06° 02′ 00″ 0.10510703 0.99446091 0.105692475 9.461411556 1.005569937 9.5141 06° 02′ 10″ 0.10515525 0.99445582 0.105741498 9.457025116 1.005575091 9.50974 06° 02′ 20″ 0.10520346 0.99445072 0.105790521 9.452642697 1.005580248 9.50539 06° 02′ 30″ 0.10529988 0.99444051 0.105839546 9.448264293 1.005585406 9.50103 06° 02′ 50″ 0.10534810 0.99443541 0.105937596 9.439519508 1.005595731 9.4923 06° 03′ 00″ 0.10539631 0.99443030 0.105986621 9.435153115 1.005600695 9.48396 06° 03′ 20″ 0.1054452 0.99442007 0.106035648 9.430790715 1.005600665 9.48396 06° 03′ 30″ 0.10558915 0.994440407	9868
06° 01′ 50″ 0.10505882 0.99446601 0.105643452 9.465802021 1.005564786 9.51847 06° 02′ 00″ 0.10510703 0.99446091 0.105692475 9.461411556 1.005569937 9.5141 06° 02′ 10″ 0.10515525 0.99445582 0.105741498 9.457025116 1.005575091 9.50974 06° 02′ 20″ 0.10520346 0.99445072 0.105790521 9.452642697 1.005588248 9.50539 06° 02′ 30″ 0.10529988 0.99444051 0.105889746 9.448264293 1.005590567 9.49668 06° 02′ 50″ 0.10534810 0.99443541 0.105937596 9.439519508 1.005590567 9.49668 06° 03′ 00″ 0.10539631 0.99443030 0.105986621 9.439519508 1.005600897 9.48799 06° 03′ 20″ 0.1054452 0.99442519 0.106035648 9.430790715 1.005600665 9.48366 06° 03′ 30″ 0.10554094 0.99444969 0.106133701 9.422077872 1.005616409 9.47499 06° 03′ 50″ 0.10563736 0.994409472	1599
06° 02′ 00″ 0.10510703 0.99446091 0.105692475 9.461411556 1.005569937 9.5141 06° 02′ 10″ 0.10515525 0.99445582 0.105741498 9.457025116 1.005575091 9.50974 06° 02′ 20″ 0.10520346 0.99445072 0.105790521 9.452642697 1.005580248 9.50539 06° 02′ 30″ 0.10525167 0.99444562 0.10588570 9.448264293 1.005585406 9.50103 06° 02′ 40″ 0.10529988 0.99444051 0.105888570 9.443889899 1.005590567 9.49666 06° 02′ 50″ 0.10539631 0.99443030 0.105986621 9.435153115 1.005600897 9.48793 06° 03′ 10″ 0.10544452 0.99442519 0.106035648 9.430790715 1.005606065 9.48366 06° 03′ 30″ 0.10549273 0.99442007 0.106084674 9.426432303 1.005616409 9.47493 06° 03′ 40″ 0.10558915 0.9944094 0.106133701 9.422077872 1.005616409 9.47493 06° 04′ 00″ 0.10568557 0.99439940 <	7373
06° 02′ 10″ 0.10515525 0.99445582 0.105741498 9.457025116 1.005575091 9.50974 06° 02′ 20″ 0.10520346 0.99445072 0.105790521 9.452642697 1.005580248 9.50539 06° 02′ 30″ 0.10525167 0.99444562 0.105839546 9.448264293 1.005585406 9.50103 06° 02′ 40″ 0.10529988 0.99444051 0.105888570 9.443889899 1.005590567 9.49668 06° 02′ 50″ 0.10534810 0.99443541 0.105937596 9.439519508 1.005600897 9.48793 06° 03′ 00″ 0.10539631 0.99443030 0.105986621 9.435153115 1.005600897 9.48793 06° 03′ 20″ 0.10544452 0.99442007 0.106083648 9.430790715 1.005606065 9.48366 06° 03′ 30″ 0.10554094 0.99441496 0.106133701 9.422077872 1.005616409 9.47499 06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005621585 9.47066 06° 04′ 00″ 0.10578199 0.99438935	7184
06° 02′ 20″ 0.10520346 0.99445072 0.105790521 9.452642697 1.005580248 9.50539 06° 02′ 30″ 0.10525167 0.99444562 0.105839546 9.448264293 1.005585406 9.50103 06° 02′ 40″ 0.10529988 0.99444051 0.105888570 9.443889899 1.005590567 9.49663 06° 02′ 50″ 0.10534810 0.99443541 0.105937596 9.439519508 1.005500897 9.48793 06° 03′ 00″ 0.10539631 0.99443030 0.105986621 9.435153115 1.005600897 9.48793 06° 03′ 10″ 0.10544452 0.99442007 0.106035648 9.430790715 1.005600665 9.48396 06° 03′ 20″ 0.10549273 0.99442007 0.106084674 9.426432303 1.005616409 9.47493 06° 03′ 30″ 0.10558915 0.99440984 0.106133701 9.422077872 1.005616409 9.47493 06° 03′ 50″ 0.10563736 0.99440984 0.106231757 9.413380934 1.005626763 9.46634 06° 04′ 10″ 0.10573378 0.99438947	1027
06° 02′ 30″ 0.10525167 0.99444562 0.105839546 9.448264293 1.005585406 9.50103 06° 02′ 40″ 0.10529988 0.99444051 0.105888570 9.443889899 1.005590567 9.49668 06° 02′ 50″ 0.10534810 0.99443541 0.105937596 9.439519508 1.005595731 9.4923 06° 03′ 00″ 0.10539631 0.99443030 0.105986621 9.435153115 1.005600897 9.48793 06° 03′ 10″ 0.10544452 0.99442519 0.106035648 9.430790715 1.005606065 9.48366 06° 03′ 20″ 0.105549273 0.99442007 0.106084674 9.422077872 1.005616409 9.47493 06° 03′ 40″ 0.10558915 0.99440984 0.106183701 9.422077872 1.005616409 9.47493 06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005626763 9.46634 06° 04′ 10″ 0.10573378 0.99439960 0.106231757 9.413380934 1.005631943 9.46202 06° 04′ 20″ 0.10578199 0.99438945	8895
06° 02′ 40″ 0.10529988 0.99444051 0.105888570 9.443889899 1.005590567 9.49668 06° 02′ 50″ 0.10534810 0.99443541 0.105937596 9.439519508 1.005595731 9.4923 06° 03′ 00″ 0.10539631 0.99443030 0.105986621 9.435153115 1.005600897 9.4879 06° 03′ 10″ 0.10544452 0.99442017 0.106035648 9.430790715 1.005606065 9.48366 06° 03′ 20″ 0.10549273 0.99442007 0.106084674 9.426432303 1.00561409 9.47493 06° 03′ 30″ 0.10554094 0.99441496 0.106133701 9.422077872 1.005616409 9.47493 06° 03′ 50″ 0.10558915 0.99440984 0.106182729 9.417727418 1.005626763 9.4663 06° 04′ 00″ 0.10568557 0.99439960 0.106231757 9.413380934 1.005631943 9.46202 06° 04′ 10″ 0.10578199 0.99438935 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 30″ 0.10583020 0.994388422 <t< td=""><td>0784</td></t<>	0784
06° 02′ 50″ 0.10534810 0.99443541 0.105937596 9.439519508 1.005595731 9.4923406° 06° 03′ 00″ 0.10539631 0.99443030 0.105986621 9.435153115 1.005600897 9.48795 06° 03′ 10″ 0.10544452 0.99442519 0.106035648 9.430790715 1.005606065 9.48366 06° 03′ 20″ 0.10549273 0.99442007 0.106084674 9.426432303 1.005611236 9.47932 06° 03′ 30″ 0.10554094 0.99441496 0.106133701 9.422077872 1.005616409 9.47499 06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.41380934 1.005621585 9.46634 06° 04′ 00″ 0.10568557 0.99439960 0.106280786 9.409038417 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.99438935 0.106328845 9.400365255 1.005642312 9.4577 06° 04′ 30″ 0.10583020 0.99438935 0.106427875 9.396034601 1.005647499 9.44479 06° 04′ 40″ 0.10587841 0.99437395	6688
06° 03′ 00″ 0.10539631 0.99443030 0.105986621 9.435153115 1.005600897 9.48799060 06° 03′ 10″ 0.10544452 0.99442519 0.106035648 9.430790715 1.005606065 9.483660 06° 03′ 20″ 0.10549273 0.99442007 0.106084674 9.426432303 1.005611236 9.47932 06° 03′ 30″ 0.10554094 0.99441496 0.106133701 9.422077872 1.005616409 9.47499 06° 03′ 40″ 0.10558915 0.99440984 0.106182729 9.417727418 1.005621585 9.47066 06° 04′ 00″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.99439447 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 20″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.44409 06° 04′ 40″ 0.10587841 0.99437395 0.106476906 9.391707890 1.005652689 9.44049 06° 05′ 00″ 0.10597483 0.99436881	6602
06° 03′ 10″ 0.10544452 0.99442519 0.106035648 9.430790715 1.005606065 9.48366 06° 03′ 20″ 0.10549273 0.99442007 0.106084674 9.426432303 1.005611236 9.47932 06° 03′ 30″ 0.10554094 0.99441496 0.106133701 9.422077872 1.005616409 9.47499 06° 03′ 40″ 0.10558915 0.99440984 0.106182729 9.417727418 1.005621585 9.47066 06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005626763 9.46634 06° 04′ 00″ 0.10568557 0.99439960 0.106280786 9.409038417 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.994389447 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 30″ 0.10578199 0.99438935 0.106378845 9.400365255 1.005642312 9.4534 06° 04′ 30″ 0.10583020 0.99437908 0.106427875 9.396034601 1.005647499 9.44479 06° 05′ 00″ 0.10592662 0.99437395	0519
06° 03′ 20″ 0.10549273 0.99442007 0.106084674 9.426432303 1.005611236 9.47932 06° 03′ 30″ 0.10554094 0.99441496 0.106133701 9.422077872 1.005616409 9.47499 06° 03′ 40″ 0.10558915 0.99440984 0.106182729 9.417727418 1.005621585 9.47066 06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005626763 9.46634 06° 04′ 00″ 0.10568557 0.99439960 0.106280786 9.409038417 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.99438947 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 20″ 0.10578199 0.99438935 0.106378845 9.400365255 1.005642312 9.4534 06° 04′ 30″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.44499 06° 04′ 50″ 0.10587841 0.99437395 0.106476906 9.391707890 1.005652689 9.44049 06° 05′ 00″ 0.10597483 0.99436881	8435
06° 03′ 20″ 0.10549273 0.99442007 0.106084674 9.426432303 1.005611236 9.47932 06° 03′ 30″ 0.10554094 0.99441496 0.106133701 9.422077872 1.005616409 9.47499 06° 03′ 40″ 0.10558915 0.99440984 0.106182729 9.417727418 1.005621585 9.47066 06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005626763 9.46634 06° 04′ 00″ 0.10568557 0.99439960 0.106280786 9.409038417 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.99438947 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 20″ 0.10578199 0.99438935 0.106378845 9.400365255 1.005642312 9.4534 06° 04′ 30″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.44499 06° 04′ 50″ 0.10587841 0.99437395 0.106476906 9.391707890 1.005652689 9.44049 06° 05′ 00″ 0.10597483 0.99436881	0344
06° 03′ 30″ 0.10554094 0.99441496 0.106133701 9.422077872 1.005616409 9.47499 06° 03′ 40″ 0.10558915 0.99440984 0.106182729 9.417727418 1.005621585 9.47066 06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005626763 9.46634 06° 04′ 00″ 0.10568557 0.99439960 0.106280786 9.409038417 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.99439447 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 20″ 0.10578199 0.99438935 0.106378845 9.400365255 1.005642312 9.4534 06° 04′ 30″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.4490 06° 04′ 40″ 0.10587841 0.99437398 0.106476906 9.391707890 1.005652689 9.44049 06° 05′ 00″ 0.10597483 0.99436881 0.106525937 9.387385118 1.005663077 9.43620 06° 05′ 10″ 0.10602303 0.99436367 <	6240
06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005626763 9.46632 06° 04′ 00″ 0.10568557 0.99439960 0.106280786 9.409038417 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.99439447 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 20″ 0.10578199 0.99438935 0.106378845 9.400365255 1.005642312 9.45340 06° 04′ 30″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.44909 06° 04′ 40″ 0.10587841 0.99437398 0.106476906 9.391707890 1.005652689 9.44049 06° 05′ 00″ 0.10592662 0.99437395 0.106525937 9.387385118 1.005663077 9.43620 06° 05′ 00″ 0.10502303 0.99436367 0.106624002 9.378751367 1.005668274 9.4319	6118
06° 03′ 50″ 0.10563736 0.99440472 0.106231757 9.413380934 1.005626763 9.46632 06° 04′ 00″ 0.10568557 0.99439960 0.106280786 9.409038417 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.99439447 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 20″ 0.10578199 0.99438935 0.106378845 9.400365255 1.005642312 9.45340 06° 04′ 30″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.44909 06° 04′ 40″ 0.10587841 0.99437398 0.106476906 9.391707890 1.005652689 9.44049 06° 05′ 00″ 0.10592662 0.99437395 0.106525937 9.387385118 1.005663077 9.43620 06° 05′ 00″ 0.10502303 0.99436367 0.106624002 9.378751367 1.005668274 9.4319	9972
06° 04′ 00″ 0.10568557 0.99439960 0.106280786 9.409038417 1.005631943 9.46202 06° 04′ 10″ 0.10573378 0.99439447 0.106329815 9.404699859 1.005637126 9.4577 06° 04′ 20″ 0.10578199 0.99438935 0.106378845 9.400365255 1.005642312 9.45340 06° 04′ 30″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.44909 06° 04′ 40″ 0.10587841 0.99437908 0.106476906 9.391707890 1.005652689 9.44479 06° 04′ 50″ 0.10592662 0.99437395 0.106525937 9.387385118 1.005657882 9.44049 06° 05′ 00″ 0.10597483 0.99436881 0.106574969 9.383066278 1.005663077 9.43620 06° 05′ 10″ 0.10602303 0.99436367 0.106624002 9.378751367 1.005668274 9.4319	
06° 04′ 20″ 0.10578199 0.99438935 0.106378845 9.400365255 1.005642312 9.45340 06° 04′ 30″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.44909 06° 04′ 40″ 0.10587841 0.99437908 0.106476906 9.391707890 1.005652689 9.44479 06° 04′ 50″ 0.10592662 0.99437395 0.106525937 9.387385118 1.005657882 9.44049 06° 05′ 00″ 0.10597483 0.99436881 0.106574969 9.383066278 1.005663077 9.43620 06° 05′ 10″ 0.10602303 0.99436367 0.106624002 9.378751367 1.005668274 9.4319	9588
06° 04′ 30″ 0.10583020 0.99438422 0.106427875 9.396034601 1.005647499 9.44909 06° 04′ 40″ 0.10587841 0.99437908 0.106476906 9.391707890 1.005652689 9.444479 06° 04′ 50″ 0.10592662 0.99437395 0.106525937 9.387385118 1.005657882 9.44049 06° 05′ 00″ 0.10597483 0.99436881 0.106574969 9.383066278 1.005663077 9.43620 06° 05′ 10″ 0.10602303 0.99436367 0.106624002 9.378751367 1.005668274 9.4319	5339
06° 04′ 40″ 0.10587841 0.99437908 0.106476906 9.391707890 1.005652689 9.44479 06° 04′ 50″ 0.10592662 0.99437395 0.106525937 9.387385118 1.005657882 9.44049 06° 05′ 00″ 0.10597483 0.99436881 0.106574969 9.383066278 1.005663077 9.43620 06° 05′ 10″ 0.10602303 0.99436367 0.106624002 9.378751367 1.005668274 9.4319	5044
06° 04′ 50″ 0.10592662 0.99437395 0.106525937 9.387385118 1.005657882 9.44049 06° 05′ 00″ 0.10597483 0.99436881 0.106574969 9.383066278 1.005663077 9.43620 06° 05′ 10″ 0.10602303 0.99436367 0.106624002 9.378751367 1.005668274 9.4319	8699
06° 05′ 00″	6297
06° 05′ 10″ 0.10602303 0.99436367 0.106624002 9.378751367 1.005668274 9.43197	7834
	3304
06° 05′ 20″ 0.10607124 0.99435853 0.106673034 9.374440377 1.005673474 9.42762	2701
	6020
06° 05′ 30″ 0.10611945 0.99435339 0.106722068 9.370133304 1.005678676 9.42334	3257
06° 05′ 40″ 0.10616766 0.99434824 0.106771101 9.365830143 1.005683881 9.41906	4405
06° 05′ 50″ 0.10621586 0.99434309 0.106820136 9.361530887 1.005689088 9.41478	9459
06° 06′ 00″ 0.10626407 0.99433794 0.106869171 9.357235532 1.005694297 9.4105°	
06° 06′ 10″ 0.10631228 0.99433279 0.106918206 9.352944073 1.005699509 9.40625	1264
06° 06′ 20″ 0.10636048 0.99432764 0.106967242 9.348656504 1.005704723 9.40198	8004
06° 06′ 30″ 0.10640869 0.99432248 0.107016278 9.344372820 1.005709940 9.39772	8630
06° 06′ 40″ 0.10645690 0.99431732 0.107065315 9.340093015 1.005715159 9.39347	3134
06° 06′ 50″ 0.10650510 0.99431216 0.107114352 9.335817084 1.005720381 9.38922	
06° 07′ 00″ 0.10655331 0.99430699 0.107163390 9.331545023 1.005725605 9.38497	
06° 07′ 10″ 0.10660151 0.99430182 0.107212429 9.327276825 1.005730831 9.38072	
06° 07′ 20″ 0.10664972 0.99429665 0.107261467 9.323012485 1.005736060 9.37648	
06° 07′ 30″ 0.10669792 0.99429148 0.107310507 9.318751999 1.005741291 9.37225	
06° 07′ 40″ 0.10674613 0.99428631 0.107359547 9.314495360 1.005746525 9.36802	
06° 07′ 50″ 0.10679433 0.99428113 0.107408587 9.310242564 1.005751761 9.36379	

46 06° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
06° 08′ 00″	0.10684254	0.99427595	0.107457628	9.305993606	1.005756999	9.359568205
06° 08′ 10″	0.10689074	0.99427077	0.107506670	9.301748480	1.005762240	9.355347390
06° 08′ 20″	0.10693894	0.99426559	0.107555712	9.297507181	1.005767484	9.351130401
06° 08′ 30″	0.10698715	0.99426040	0.107604754	9.293269703	1.005772729	9.346917234
06° 08′ 40″	0.10703535	0.99425522	0.107653797	9.289036043	1.005777977	9.342707884
06° 08′ 50″	0.10708355	0.99425003	0.107702840	9.284806194	1.005783228	9.338502345
06° 09′ 00″	0.10713175	0.99424483	0.107751884	9.280580151	1.005788481	9.334300613
06° 09′ 10″	0.10717996	0.99423964	0.107800929	9.276357910	1.005793736	9.330102682
06° 09′ 20″	0.10722816	0.99423444	0.107849974	9.272139464	1.005798994	9.325908548
06° 09′ 30″	0.10727636	0.99422924	0.107899020	9.267924809	1.005804255	9.321718204
06° 09′ 40″	0.10732456	0.99422404	0.107948066	9.263713941	1.005809517	9.317531646
06° 09′ 50″	0.10737276	0.99421883	0.107997112	9.259506852	1.005814782	9.313348869
06° 10′ 00″	0.10742096	0.99421363	0.108046159	9.255303540	1.005820050	9.309169867
06° 10′ 10″	0.10746916	0.99420842	0.108095207	9.251103998	1.005825320	9.304994636
06° 10′ 20″	0.10751737	0.99420321	0.108144255	9.246908221	1.005830592	9.300823170
06° 10′ 30″	0.10756557	0.99419799	0.108193304	9.242716204	1.005835867	9.296655465
06° 10′ 40″	0.10761377	0.99419278	0.108242353	9.238527943	1.005841144	9.292491515
06° 10′ 50″	0.10766196	0.99418756	0.108291402	9.234343432	1.005846424	9.288331315
06° 11′ 00″	0.10771016	0.99418234	0.108340453	9.230162665	1.005851706	9.284174860
06° 11′ 10″	0.10775836	0.99417711	0.108389503	9.225985639	1.005856990	9.280022145
06° 11′ 20″	0.10780656	0.99417189	0.108438554	9.221812348	1.005862277	9.275873166
06° 11′ 30″	0.10785476	0.99416666	0.108487606	9.217642787	1.005867566	9.271727916
06° 11′ 40″	0.10790296	0.99416143	0.108536658	9.213476951	1.005872858	9.267586392
06° 11′ 50″	0.10795116	0.99415620	0.108585711	9.209314835	1.005878152	9.263448587
06° 12′ 00″	0.10799936	0.99415096	0.108634764	9.205156433	1.005883449	9.259314497
06° 12′ 10″	0.10804755	0.99414573	0.108683818	9.201001742	1.005888747	9.255184118
06° 12′ 20″	0.10809575	0.99414049	0.108732872	9.196850756	1.005894049	9.251057443
06° 12′ 30″	0.10814395	0.99413525	0.108781927	9.192703469	1.005899353	9.246934469
06° 12′ 40″	0.10819214	0.99413000	0.108830983	9.188559878	1.005904659	9.242815190
06° 12′ 50″	0.10824034	0.99412475	0.108880038	9.184419977	1.005909968	9.238699600
06° 13′ 00″	0.10828854	0.99411951	0.108929095	9.180283761	1.005915279	9.234587696
06° 13′ 10″	0.10833673	0.99411426	0.108978152	9.176151225	1.005920592	9.230479473
06° 13′ 20″	0.10838493	0.99410900	0.109027209	9.172022364	1.005925908	9.226374924
06° 13′ 30″	0.10843313	0.99410375	0.109076267	9.167897174	1.005931226	9.222274046
06° 13′ 40″	0.10848132	0.99409849	0.109125325	9.163775649	1.005936547	9.218176834
06° 13′ 50″	0.10852952	0.99409323	0.109174384	9.159657784	1.005941870	9.214083282
06° 14′ 00″	0.10857771	0.99408796	0.109223444	9.155543576	1.005947196	9.209993386
06° 14′ 10″	0.10862591	0.99408270	0.109272504	9.151433018	1.005952524	9.205907140
06° 14′ 20″	0.10867410	0.99407743	0.109321564	9.147326106	1.005957854	9.201824541
06° 14′ 30″	0.10872229	0.99407216	0.109370625	9.143222835	1.005963187	9.197745583
06° 14′ 40″	0.10877049	0.99406689	0.109419687	9.139123200	1.005968522	9.193670261
06° 14′ 50″	0.10881868	0.99406162	0.109468749	9.135027196	1.005973860	9.189598570
06° 15′ 00″	0.10886687	0.99405634	0.109517812	9.130934819	1.005979200	9.185530506
06° 15′ 10″	0.10891507	0.99405106	0.109566875	9.126846063	1.005984543	9.181466063
06° 15′ 20″	0.10896326	0.99404578	0.109615938	9.122760925	1.005989888	9.177405237
06° 15′ 30″	0.10901145	0.99404049	0.109665003	9.118679398	1.005995235	9.173348024
06° 15′ 40″ 06° 15′ 50″	0.10905965	0.99403521 0.99402992	0.109714067	9.114601478	1.006000585	9.169294417
	0.10710/84	0.77402772	0.109763133	9.110527161	1.006005937	9.165244413

47 06° 15′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
06° 16′ 00″	0.10915603	0.99402463	0.109812198	9.106456442	1.006011292	9.161198007
06° 16′ 10″	0.10920422	0.99401933	0.109861264	9.102389315	1.006016649	9.157155194
06° 16′ 20″	0.10925241	0.99401404	0.109910331	9.098325776	1.006022008	9.153115968
06° 16′ 30″	0.10930060	0.99400874	0.109959399	9.094265821	1.006027370	9.149080326
06° 16′ 40″	0.10934879	0.99400344	0.110008466	9.090209444	1.006032734	9.145048263
06° 16′ 50″	0.10939698	0.99399814	0.110057535	9.086156640	1.006038101	9.141019773
06° 17′ 00″	0.10944517	0.99399283	0.110106604	9.082107406	1.006043470	9.136994853
06° 17′ 10″	0.10949336	0.99398753	0.110155673	9.078061736	1.006048842	9.132973497
06° 17′ 20″	0.10954155	0.99398222	0.110204743	9.074019626	1.006054216	9.128955700
06° 17′ 30″	0.10958974	0.99397691	0.110253813	9.069981071	1.006059592	9.124941458
06° 17′ 40″	0.10963793	0.99397159	0.110302884	9.065946065	1.006064971	9.120930767
06° 17′ 50″	0.10968612	0.99396627	0.110351956	9.061914605	1.006070352	9.116923621
06° 18′ 00″	0.10973431	0.99396096	0.110401028	9.057886686	1.006075736	9.112920016
06° 18′ 10″	0.10978250	0.99395563	0.110450100	9.053862303	1.006081122	9.108919947
06° 18′ 20″	0.10983069	0.99395031	0.110499173	9.049841452	1.006086511	9.104923410
06° 18′ 30″	0.10987888	0.99394498	0.110548247	9.045824127	1.006091902	9.100930399
06° 18′ 40″	0.10992706	0.99393966	0.110597321	9.041810324	1.006097295	9.096940911
06° 18′ 50″	0.10997525	0.99393433	0.110646396	9.037800038	1.006102691	9.092954940
06° 19′ 00″	0.11002344	0.99392899	0.110695471	9.033793266	1.006108089	9.088972482
06° 19′ 10″	0.11007162	0.99392366	0.110744547	9.029790001	1.006113490	9.084993532
06° 19′ 20″	0.11011981	0.99391832	0.110793623	9.025790241	1.006118893	9.081018085
06° 19′ 30″	0.11016800	0.99391298	0.110842700	9.021793979	1.006124299	9.077046138
06° 19′ 40″	0.11021618	0.99390764	0.110891777	9.017801211	1.006129706	9.073077685
06° 19′ 50″	0.11026437	0.99390229	0.110940855	9.013811933	1.006135117	9.069112722
06° 20′ 00″	0.11031256	0.99389695	0.110989933	9.009826140	1.006140530	9.065151244
06° 20′ 10″	0.11036074	0.99389160	0.111039012	9.005843828	1.006145945	9.061193247
06° 20′ 20″	0.11040893	0.99388625	0.111088091	9.001864992	1.006151362	9.057238725
06° 20′ 30″	0.11045711	0.99388089	0.111137171	8.997889627	1.006156782	9.053287675
06° 20′ 40″	0.11050530	0.99387554	0.111186252	8.993917729	1.006162205	9.049340092
06° 20′ 50″	0.11055348	0.99387018	0.111235333	8.989949293	1.006167630	9.045395972
06° 21′ 00″	0.11060166	0.99386482	0.111284414	8.985984315	1.006173057	9.041455309
06° 21′ 10″	0.11064985	0.99385945	0.111333496	8.982022790	1.006178487	9.037518099
06° 21′ 20″	0.11069803	0.99385409	0.111382579	8.978064714	1.006183919	9.033584339
06° 21′ 30″	0.11074621	0.99384872	0.111431662	8.974110082	1.006189354	9.029654022
06° 21′ 40″	0.11079440	0.99384335	0.111480745	8.970158889	1.006194791	9.025727145
06° 21′ 50″	0.11084258	0.99383798	0.111529830	8.966211132	1.006200230	9.021803703
06° 22′ 00″	0.11089076	0.99383260	0.111578914	8.962266805	1.006205672	9.017883692
06° 22′ 10″	0.11093894	0.99382722	0.111628000	8.958325905	1.006211116	9.013967108
06° 22′ 20″	0.11098713	0.99382184	0.111677085	8.954388426	1.006216563	9.010053945
06° 22′ 30″	0.11103531	0.99381646	0.111726172	8.950454364	1.006222012	9.006144199
06° 22′ 40″	0.11108349	0.99381108	0.111775258	8.946523716	1.006227464	9.002237866
06° 22′ 50″	0.11113167	0.99380569	0.111824346	8.942596475	1.006232918	8.998334941
06° 23′ 00″	0.11117985	0.99380030	0.111873434	8.938672638	1.006238374	8.994435421
06° 23′ 10″	0.11122803	0.99379491	0.111922522	8.934752201	1.006243833	8.990539299
06° 23′ 20″	0.11127621	0.99378952	0.111971611	8.930835159	1.006249294	8.986646573
06° 23′ 30″	0.11132439	0.99378412	0.112020700	8.926921507	1.006254758	8.982757237
06° 23′ 40″	0.11137257	0.99377872	0.112069790	8.923011241	1.006260224	8.978871288
06° 23′ 50″	0.11142075	0.99377332	0.112118881	8.919104357	1.006265692	8.974988720
	1 3	3.7,737,733 L	2.1.12710001			2.77 1700720

48 06° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
06° 24′ 00″	0.11146893	0.99376792	0.112167972	8.915200850	1.006271163	8.971109530
06° 24′ 10″	0.11146673	0.99376251	0.112167972	8.911300716	1.006271163	8.967233712
06° 24′ 20″	0.11156529	0.77376231	0.112217004	8.907403951	1.006276637	8.963361264
06° 24′ 30″	0.11136327	0.99375170	0.112315249	8.903510550	1.006282112	8.959492179
06° 24′ 40″	0.11161347	0.99374628	0.112313247	8.899620508	1.006287371	8.955626454
06° 24′ 50″	0.11166163	0.99374087	0.112364342	8.895733822	1.006298554	8.951764085
06° 25′ 00″	0.11170983	0.99373545	0.112413433	8.891850487	1.006278334	8.947905067
06° 25′ 10″	0.11173800	0.99373003	0.112511625	8.887970499	1.006304040	8.944049395
06° 25′ 20″	0.11185436	0.99372461	0.112511625	8.884093853	1.006307328	8.940197066
06° 25′ 30″	0.11183438	0.99371919	0.112609816	8.880220545	1.006313018	8.936348075
06° 25′ 40″	0.11190233	0.99371376	0.112658912	8.876350570	1.006326311	8.932502418
06° 25′ 50″	0.11199889	0.99370833	0.112638712	8.872483925	1.006326006	8.928660090
06° 26′ 00″	0.11177887	0.77370833	0.112757107	8.868620605	1.006337304	8.924821087
06° 26′ 10″	0.11204706	0.99369747	0.112737107	8.864760606	1.006337004	8.920985405
06° 26′ 20″	0.11207324	0.99369203	0.112855303	8.860903923	1.006342306	8.917153040
06° 26′ 30″	0.11214342	0.99368659	0.112833303	8.857050553	1.006348011	8.917133040
06° 26′ 40″	0.11217137	0.77368637	0.112754402	8.853200490	1.006353318	8.909498242
06° 26′ 50″	0.11223777	0.99367571	0.113002602	8.849353731	1.006364540	8.905675800
06° 27′ 00″	0.11233612	0.99367027	0.113051703	8.845510271	1.006370055	8.901856658
06° 27′ 10″	0.11233612	0.99366482	0.113100804	8.841670106	1.006375572	8.898040811
06° 27′ 20″	0.11238427	0.99365937	0.113149906	8.837833232	1.006373372	8.894228255
06° 27′ 30″	0.11248064	0.99365392	0.113197008	8.833999645	1.006386613	8.890418985
06° 27′ 40″	0.11252881	0.99364846	0.113248111	8.830169340	1.006392138	8.886612998
06° 27′ 50″	0.11257698	0.99364301	0.113297215	8.826342313	1.006372138	8.882810289
06° 28′ 00″	0.11262516	0.99363755	0.113346319	8.822518560	1.006403194	8.879010854
06° 28′ 10″	0.11267333	0.99363209	0.113395423	8.818698076	1.006408725	8.875214688
06° 28′ 20″	0.11272150	0.99362662	0.113444528	8.814880858	1.006414259	8.871421788
06° 28′ 30″	0.11276968	0.99362116	0.113493634	8.811066902	1.006419796	8.867632150
06° 28′ 40″	0.11281785	0.99361569	0.113542740	8.807256202	1.006425334	8.863845769
06° 28′ 50″	0.11286602	0.99361022	0.113591847	8.803448755	1.006430876	8.860062640
06° 29′ 00″	0.11291419	0.99360474	0.113640954	8.799644557	1.006436419	8.856282760
06° 29′ 10″	0.11296236	0.99359927	0.113690061	8.795843603	1.006441966	8.852506125
06° 29′ 20″	0.11301053	0.99359379	0.113739170	8.792045890	1.006447514	8.848732730
06° 29′ 30″	0.11305870	0.99358831	0.113788279	8.788251413	1.006453065	8.844962572
06° 29′ 40″	0.11310687	0.99358283	0.113837388	8.784460168	1.006458619	8.841195645
06° 29′ 50″	0.11315504	0.99357734	0.113886498	8.780672150	1.006464174	8.837431947
06° 30′ 00″	0.11320321	0.99357186	0.113935608	8.776887357	1.006469733	8.833671472
06° 30′ 10″	0.11325138	0.99356637	0.113984719	8.773105783	1.006475293	8.829914217
06° 30′ 20″	0.11329955	0.99356087	0.114033831	8.769327425	1.006480857	8.826160177
06° 30′ 30″	0.11334772	0.99355538	0.114082943	8.765552277	1.006486422	8.822409349
06° 30′ 40″	0.11339589	0.99354988	0.114132056	8.761780338	1.006491990	8.818661729
06° 30′ 50″	0.11344406	0.99354439	0.114181169	8.758011601	1.006497560	8.814917311
06° 31′ 00″	0.11349223	0.99353888	0.114230282	8.754246063	1.006503133	8.811176093
06° 31′ 10″	0.11354040	0.99353338	0.114279397	8.750483721	1.006508709	8.807438069
06° 31′ 20″	0.11358856	0.99352787	0.114328511	8.746724569	1.006514286	8.803703237
06° 31′ 30″	0.11363673	0.99352237	0.114377627	8.742968604	1.006519866	8.799971591
06° 31′ 40″	0.11368490	0.99351686	0.114426743	8.739215822	1.006525449	8.796243129
06° 31′ 50″	0.11373306	0.99351134	0.114475859	8.735466218	1.006531034	8.792517845

49 06° 31′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
06° 32′ 00″	0.11378123	0.99350583	0.114524976	8.731719789	1.006536621	8.788795735
06° 32′ 10″	0.11382940	0.99350031	0.114574094	8.727976531	1.006542211	8.785076797
06° 32′ 20″	0.11387756	0.99349479	0.114623212	8.724236439	1.006547803	8.781361025
06° 32′ 30″	0.11392573	0.99348927	0.114672330	8.720499510	1.006553398	8.777648415
06° 32′ 40″	0.11397390	0.99348374	0.114721449	8.716765739	1.006558995	8.773938964
06° 32′ 50″	0.11402206	0.99347822	0.114770569	8.713035123	1.006564595	8.770232668
06° 33′ 00″	0.11407023	0.99347269	0.114819689	8.709307657	1.006570197	8.766529522
06° 33′ 10″	0.11411839	0.99346716	0.114868810	8.705583337	1.006575801	8.762829523
06° 33′ 20″	0.11416655	0.99346162	0.114917932	8.701862160	1.006581408	8.759132666
06° 33′ 30″	0.11421472	0.99345609	0.114967053	8.698144122	1.006587017	8.755438947
06° 33′ 40″	0.11426288	0.99345055	0.115016176	8.694429217	1.006592629	8.751748363
06° 33′ 50″	0.11431105	0.99344501	0.115065299	8.690717444	1.006598243	8.748060910
06° 34′ 00″	0.11435921	0.99343947	0.115114422	8.687008797	1.006603860	8.744376583
06° 34′ 10″	0.11440737	0.99343392	0.115163546	8.683303272	1.006609479	8.740695379
06° 34′ 20″	0.11445554	0.99342837	0.115212671	8.679600866	1.006615100	8.737017294
06° 34′ 30″	0.11450370	0.99342282	0.115261796	8.675901575	1.006620724	8.733342323
06° 34′ 40″	0.11455186	0.99341727	0.115310922	8.672205394	1.006626350	8.729670463
06° 34′ 50″	0.11460002	0.99341171	0.115360048	8.668512320	1.006631979	8.726001710
06° 35′ 00″	0.11464819	0.99340616	0.115409175	8.664822349	1.006637610	8.722336059
06° 35′ 10″	0.11469635	0.99340060	0.115458303	8.661135476	1.006643243	8.718673508
06° 35′ 20″	0.11474451	0.99339504	0.115507430	8.657451699	1.006648879	8.715014052
06° 35′ 30″	0.11479267	0.99338947	0.115556559	8.653771013	1.006654518	8.711357686
06° 35′ 40″	0.11484083	0.99338391	0.115605688	8.650093413	1.006660159	8.707704408
06° 35′ 50″	0.11488899	0.99337834	0.115654818	8.646418898	1.006665802	8.704054214
06° 36′ 00″	0.11493715	0.99337277	0.115703948	8.642747461	1.006671448	8.700407098
06° 36′ 10″	0.11498531	0.99336719	0.115753078	8.639079100	1.006677096	8.696763058
06° 36′ 20″	0.11503347	0.99336162	0.115802210	8.635413810	1.006682746	8.693122090
06° 36′ 30″	0.11508163	0.99335604	0.115851341	8.631751589	1.006688399	8.689484190
06° 36′ 40″	0.11512979	0.99335046	0.115900474	8.628092431	1.006694055	8.685849354
06° 36′ 50″	0.11517795	0.99334487	0.115949607	8.624436333	1.006699713	8.682217577
06° 37′ 00″	0.11522611	0.99333929	0.115998740	8.620783291	1.006705373	8.678588857
06° 37′ 10″	0.11527426	0.99333370	0.116047874	8.617133301	1.006711036	8.674963189
06° 37′ 20″	0.11532242	0.99332811	0.116097009	8.613486360	1.006716701	8.671340570
06° 37′ 30″	0.11537058	0.99332252	0.116146144	8.609842464	1.006722368	8.667720995
06° 37′ 40″	0.11541874	0.99331693	0.116195279	8.606201608	1.006728038	8.664104461
06° 37′ 50″	0.11546689	0.99331133	0.116244416	8.602563789	1.006733711	8.660490965
06° 38′ 00″	0.11551505	0.99330573	0.116293552	8.598929004	1.006739385	8.656880501
06° 38′ 10″	0.11556321	0.99330013	0.116342690	8.595297247	1.006745063	8.653273067
06° 38′ 20″	0.11561136	0.99329452	0.116391828	8.591668517	1.006750742	8.649668658
06° 38′ 30″	0.11565952	0.99328892	0.116440966	8.588042807	1.006756425	8.646067271
06° 38′ 40″	0.11570768	0.99328331	0.116490105	8.584420116	1.006762109	8.642468903
06° 38′ 50″	0.11575583	0.99327770	0.116539244	8.580800439	1.006767796	8.638873548
06° 39′ 00″	0.11580399	0.99327209	0.116588385	8.577183773	1.006773486	8.635281204
06° 39′ 10″	0.11585214	0.99326647	0.116637525	8.573570113	1.006779178	8.631691867
06° 39′ 20″	0.11590030	0.99326085	0.116686666	8.569959456	1.006784872	8.628105532
06° 39′ 30″	0.11594845	0.99325523	0.116735808	8.566351798	1.006790569	8.624522197
06° 39′ 40″	0.11599661	0.99324961	0.116784950	8.562747135	1.006796268	8.620941857
06° 39′ 50″	0.11604476	0.99324398	0.116834093	8.559145464	1.006801969	8.617364509
	1 30	321070				2.000.1007

50 06° 39′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
06° 40′ 00″	0.11609291	0.99323836	0.116883237	8.555546781	1.006807673	8.613790148
06° 40′ 10″	0.11614107	0.99323273	0.116932381	8.551951082	1.006813380	8.610218772
06° 40′ 20″	0.11618922	0.99322710	0.116981525	8.548358363	1.006819089	8.606650377
06° 40′ 30″	0.11623737	0.99322146	0.117030670	8.544768621	1.006824800	8.603084958
06° 40′ 40″	0.11628553	0.99321583	0.117079816	8.541181852	1.006830514	8.599522512
06° 40′ 50″	0.11633368	0.99321019	0.117128962	8.537598052	1.006836230	8.595963035
06° 41′ 00″	0.11638183	0.99320455	0.117178109	8.534017218	1.006841948	8.592406524
06° 41′ 10″	0.11642998	0.99319890	0.117227256	8.530439346	1.006847670	8.588852975
06° 41′ 20″	0.11647813	0.99319326	0.117276404	8.526864431	1.006853393	8.585302384
06° 41′ 30″	0.11652629	0.99318761	0.117325553	8.523292472	1.006859119	8.581754748
06° 41′ 40″	0.11657444	0.99318196	0.117374702	8.519723463	1.006864847	8.578210063
06° 41′ 50″	0.11662259	0.99317630	0.117423851	8.516157401	1.006870578	8.574668324
06° 42′ 00″	0.11667074	0.99317065	0.117473001	8.512594282	1.006876311	8.571129530
06° 42′ 10″	0.11671889	0.99316499	0.117522152	8.509034104	1.006882047	8.567593675
06° 42′ 20″	0.11676704	0.99315933	0.117571303	8.505476861	1.006887785	8.564060756
06° 42′ 30″	0.11681519	0.99315367	0.117620455	8.501922551	1.006893525	8.560530770
06° 42′ 40″	0.11686334	0.99314801	0.117669608	8.498371170	1.006899268	8.557003713
06° 42′ 50″	0.11691149	0.99314234	0.117718760	8.494822714	1.006905014	8.553479581
06° 43′ 00″	0.11695963	0.99313667	0.117767914	8.491277180	1.006910761	8.549958371
06° 43′ 10″	0.11700778	0.99313100	0.117817068	8.487734564	1.006916512	8.546440079
06° 43′ 20″	0.11705593	0.99312532	0.117866223	8.484194862	1.006922264	8.542924701
06° 43′ 30″	0.11710408	0.99311965	0.117915378	8.480658070	1.006928019	8.539412234
06° 43′ 40″	0.11715223	0.99311397	0.117964533	8.477124186	1.006933777	8.535902675
06° 43′ 50″	0.11720037	0.99310829	0.118013690	8.473593206	1.006939537	8.532396019
06° 44′ 00″	0.11724852	0.99310261	0.118062847	8.470065125	1.006945299	8.528892262
06° 44′ 10″	0.11729667	0.99309692	0.118112004	8.466539941	1.006951064	8.525391403
06° 44′ 20″	0.11734481	0.99309123	0.118161162	8.463017649	1.006956831	8.521893436
06° 44′ 30″	0.11739296	0.99308554	0.118210321	8.459498247	1.006962601	8.518398358
06° 44′ 40″	0.11744111	0.99307985	0.118259480	8.455981731	1.006968373	8.514906167
06° 44′ 50″	0.11748925	0.99307415	0.118308639	8.452468096	1.006974148	8.511416857
06° 45′ 00″	0.11753740	0.99306846	0.118357800	8.448957340	1.006979925	8.507930426
06° 45′ 10″	0.11758554	0.99306276	0.118406960	8.445449459	1.006985704	8.504446870
06° 45′ 20″	0.11763369	0.99305706	0.118456122	8.441944449	1.006991486	8.500966185
06° 45′ 30″	0.11768183	0.99305135	0.118505284	8.438442307	1.006997270	8.497488368
06° 45′ 40″	0.11772998	0.99304564	0.118554446	8.434943030	1.007003057	8.494013416
06° 45′ 50″	0.11777812	0.99303994	0.118603609	8.431446613	1.007008846	8.490541325
06° 46′ 00″	0.11782626	0.99303422	0.118652773	8.427953053	1.007014638	8.487072091
06° 46′ 10″	0.11787441	0.99302851	0.118701937	8.424462348	1.007020432	8.483605710
06° 46′ 20″	0.11792255	0.99302280	0.118751102	8.420974492	1.007026228	8.480142180
06° 46′ 30″	0.11797069	0.99301708	0.118800267	8.417489484	1.007032027	8.476681497
06° 46′ 40″	0.11801884	0.99301136	0.118849433	8.414007318	1.007037828	8.473223657
06° 46′ 50″	0.11806698	0.99300563	0.118898600	8.410527992	1.007043632	8.469768657
06° 47′ 00″	0.11811512	0.99299991	0.118947767	8.407051503	1.007049438	8.466316494
06° 47′ 10″	0.11816326	0.99299418	0.118996934	8.403577846	1.007055247	8.462867163
06° 47′ 20″	0.11821140	0.99298845	0.119046102	8.400107019	1.007061058	8.459420662
06° 47′ 30″	0.11825955	0.99298272	0.119095271	8.396639017	1.007066871	8.455976986
06° 47′ 40″	0.11830769	0.99297698	0.119144440	8.393173838	1.007072687	8.452536133
06° 47′ 50″	0.11835583	0.99297125	0.119193610	8.389711478	1.007078506	8.449098099
	1					

51 06° 47′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
06° 48′ 00″	0.11840397	0.99296551	0.119242781	8.386251933	1.007084327	8.445662880
06° 48′ 10″	0.11845211	0.99295977	0.119291952	8.382795200	1.007090150	8.442230474
06° 48′ 20″	0.11850025	0.99295402	0.119341123	8.379341276	1.007095975	8.438800876
06° 48′ 30″	0.11854839	0.99294828	0.119390295	8.375890157	1.007101804	8.435374083
06° 48′ 40″	0.11859653	0.99294253	0.119439468	8.372441839	1.007107634	8.431950092
06° 48′ 50″	0.11864467	0.99293678	0.119488641	8.368996320	1.007113467	8.428528899
06° 49′ 00″	0.11869281	0.99293102	0.119537815	8.365553596	1.007119302	8.425110502
06° 49′ 10″	0.11874094	0.99292527	0.119586990	8.362113663	1.007125140	8.421694896
06° 49′ 20″	0.11878908	0.99291951	0.119636165	8.358676518	1.007130981	8.418282077
06° 49′ 30″	0.11883722	0.99291375	0.119685340	8.355242158	1.007136823	8.414872044
06° 49′ 40″	0.11888536	0.99290799	0.119734516	8.351810579	1.007142668	8.411464792
06° 49′ 50″	0.11893350	0.99290222	0.119783693	8.348381777	1.007148516	8.408060317
06° 50′ 00″	0.11898163	0.99289646	0.119832870	8.344955751	1.007154366	8.404658618
06° 50′ 10″	0.11902977	0.99289069	0.119882048	8.341532495	1.007160218	8.401259689
06° 50′ 20″	0.11907791	0.99288491	0.119931227	8.338112007	1.007166073	8.397863528
06° 50′ 30″	0.11912604	0.99287914	0.119980406	8.334694283	1.007171931	8.394470131
06° 50′ 40″	0.11917418	0.99287336	0.120029585	8.331279320	1.007177790	8.391079496
06° 50′ 50″	0.11922231	0.99286758	0.120078765	8.327867114	1.007183652	8.387691618
06° 51′ 00″	0.11927045	0.99286180	0.120127946	8.324457663	1.007189517	8.384306494
06° 51′ 10″	0.11931858	0.99285602	0.120177127	8.321050963	1.007195384	8.380924122
06° 51′ 20″	0.11936672	0.99285023	0.120226309	8.317647010	1.007201254	8.377544496
06° 51′ 30″	0.11941485	0.99284445	0.120275491	8.314245802	1.007207126	8.374167616
06° 51′ 40″	0.11946299	0.99283865	0.120324674	8.310847334	1.007213000	8.370793476
06° 51′ 50″	0.11951112	0.99283286	0.120373858	8.307451604	1.007218877	8.367422073
06° 52′ 00″	0.11955926	0.99282707	0.120423042	8.304058608	1.007224756	8.364053405
06° 52′ 10″	0.11960739	0.99282127	0.120472227	8.300668343	1.007230638	8.360687468
06° 52′ 20″	0.11965552	0.99281547	0.120521412	8.297280806	1.007236522	8.357324259
06° 52′ 30″	0.11970366	0.99280967	0.120570598	8.293895992	1.007242408	8.353963774
06° 52′ 40″	0.11975179	0.99280386	0.120619784	8.290513900	1.007248297	8.350606010
06° 52′ 50″	0.11979992	0.99279806	0.120668972	8.287134526	1.007254189	8.347250963
06° 53′ 00″	0.11984805	0.99279225	0.120718159	8.283757865	1.007260083	8.343898631
06° 53′ 10″	0.11989618	0.99278643	0.120767347	8.280383916	1.007265979	8.340549011
06° 53′ 20″	0.11994432	0.99278062	0.120816536	8.277012675	1.007271878	8.337202098
06° 53′ 30″	0.11999245	0.99277480	0.120865725	8.273644138	1.007277779	8.333857890
06° 53′ 40″	0.12004058	0.99276899	0.120914915	8.270278303	1.007283682	8.330516383
06° 53′ 50″	0.12008871	0.99276317	0.120964106	8.266915165	1.007289588	8.327177574
06° 54′ 00″	0.12013684	0.99275734	0.121013297	8.263554723	1.007295497	8.323841460
06° 54′ 10″	0.12018497	0.99275152	0.121062488	8.260196972	1.007301408	8.320508038
06° 54′ 20″	0.12023310	0.99274569	0.121111681	8.256841909	1.007307321	8.317177304
06° 54′ 30″	0.12028123	0.99273986	0.121160873	8.253489531	1.007313237	8.313849255
06° 54′ 40″	0.12032936	0.99273403	0.121210067	8.250139835	1.007319155	8.310523888
06° 54′ 50″	0.12037749	0.99272819	0.121259261	8.246792817	1.007325076	8.307201199
06° 55′ 00″	0.12042562	0.99272235	0.121308455	8.243448475	1.007330999	8.303881186
06° 55′ 10″	0.12047374	0.99271651	0.121357650	8.240106804	1.007336924	8.300563845
06° 55′ 20″	0.12052187	0.99271067	0.121406846	8.236767803	1.007342852	8.297249173
06° 55′ 30″	0.12057000	0.99270483	0.121456042	8.233431467	1.007348783	8.293937167
06° 55′ 40″	0.12061813	0.99269898	0.121505239	8.230097794	1.007354716	8.290627823
06° 55′ 50″	0.12066625	0.99269313	0.121554436	8.226766780	1.007360651	8.287321139

52 06° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	$\mathbf{sec}(x)$	$\mathbf{csc}(\mathbf{x})$
06° 56′ 00″	0.12071438	0.99268728	0.121603634	8.223438422	1.007366589	8.284017110
06° 56′ 10″	0.12076251	0.99268143	0.121652833	8.220112717	1.007372529	8.280715735
06° 56′ 20″	0.12081063	0.99267557	0.121702032	8.216789662	1.007378471	8.277417009
06° 56′ 30″	0.12085876	0.99266971	0.121751232	8.213469253	1.007384416	8.274120930
06° 56′ 40″	0.12090689	0.99266385	0.121800432	8.210151487	1.007390364	8.270827495
06° 56′ 50″	0.12095501	0.99265799	0.121849633	8.206836362	1.007396314	8.267536699
06° 57′ 00″	0.12100314	0.99265212	0.121898835	8.203523874	1.007402266	8.264248541
06° 57′ 10″	0.12105126	0.99264626	0.121948037	8.200214019	1.007408221	8.260963016
06° 57′ 20″	0.12109939	0.99264039	0.121997239	8.196906795	1.007414178	8.257680123
06° 57′ 30″	0.12114751	0.99263452	0.122046443	8.193602199	1.007420138	8.254399857
06° 57′ 40″	0.12119564	0.99262864	0.122095646	8.190300227	1.007426100	8.251122215
06° 57′ 50″	0.12124376	0.99262276	0.122144851	8.187000876	1.007432064	8.247847194
06° 58′ 00″	0.12129188	0.99261688	0.122194056	8.183704143	1.007438031	8.244574792
06° 58′ 10″	0.12134001	0.99261100	0.122243261	8.180410025	1.007444001	8.241305005
06° 58′ 20″	0.12138813	0.99260512	0.122292467	8.177118520	1.007449973	8.238037830
06° 58′ 30″	0.12143625	0.99259923	0.122341674	8.173829622	1.007455947	8.234773263
06° 58′ 40″	0.12148437	0.99259334	0.122390881	8.170543331	1.007461924	8.231511302
06° 58′ 50″	0.12153250	0.99258745	0.122440089	8.167259642	1.007467903	8.228251944
06° 59′ 00″	0.12158062	0.99258156	0.122489298	8.163978552	1.007473885	8.224995185
06° 59′ 10″	0.12162874	0.99257566	0.122538507	8.160700059	1.007479869	8.221741023
06° 59′ 20″	0.12167686	0.99256977	0.122587716	8.157424159	1.007485855	8.218489454
06° 59′ 30″	0.12172498	0.99256387	0.122636927	8.154150848	1.007491844	8.215240475
06° 59′ 40″	0.12177310	0.99255796	0.122686138	8.150880125	1.007497835	8.211994083
06° 59′ 50″	0.12182122	0.99255206	0.122735349	8.147611986	1.007503829	8.208750275
07° 00′ 00″	0.12186934	0.99254615	0.122784561	8.144346428	1.007509825	8.205509048
07° 00′ 10″	0.12191746	0.99254024	0.122833773	8.141083447	1.007515824	8.202270399
07° 00′ 20″	0.12196558	0.99253433	0.122882987	8.137823042	1.007521825	8.199034325
07° 00′ 30″	0.12201370	0.99252842	0.122932200	8.134565208	1.007527829	8.195800822
07° 00′ 40″	0.12206182	0.99252250	0.122981415	8.131309942	1.007533835	8.192569888
07° 00′ 50″	0.12210994	0.99251658	0.123030630	8.128057242	1.007539843	8.189341520
07° 01′ 00″	0.12215806	0.99251066	0.123079845	8.124807105	1.007545854	8.186115714
07° 01′ 10″	0.12220618	0.99250474	0.123129061	8.121559527	1.007551868	8.182892468
07° 01′ 20″	0.12225429	0.99249881	0.123178278	8.118314505	1.007557883	8.179671778
07° 01′ 30″	0.12230241	0.99249288	0.123227495	8.115072037	1.007563901	8.176453642
07° 01′ 40″	0.12235053	0.99248695	0.123276713	8.111832119	1.007569922	8.173238057
07° 01′ 50″	0.12239865	0.99248102	0.123325931	8.108594749	1.007575945	8.170025018
07° 02′ 00″	0.12244676	0.99247508	0.123375150	8.105359922	1.007581971	8.166814524
07° 02′ 10″	0.12249488	0.99246915	0.123424370	8.102127638	1.007587999	8.163606572
07° 02′ 20″	0.12254300	0.99246321	0.123473590	8.098897891	1.007594029	8.160401157
07° 02′ 30″	0.12259111	0.99245726	0.123522811	8.095670680	1.007600062	8.157198279
07° 02′ 40″	0.12263923	0.99245132	0.123572032	8.092446001	1.007606097	8.153997932
07° 02′ 50″	0.12268734	0.99244537	0.123621254	8.089223851	1.007612135	8.150800115
07° 03′ 00″	0.12273546	0.99243942	0.123670477	8.086004228	1.007618175	8.147604824
07° 03′ 10″	0.12278357	0.99243347	0.123719700	8.082787128	1.007624218	8.144412057
07° 03′ 20″	0.12283169	0.99242752	0.123768924	8.079572548	1.007630263	8.141221810
07° 03′ 30″	0.12287980	0.99242156	0.123818148	8.076360486	1.007636310	8.138034081
07° 03′ 40″	0.12292791	0.99241560	0.123867373	8.073150938	1.007642360	8.134848866
07° 03′ 50″	0.12297603	0.99240964	0.123916599	8.069943902	1.007648413	8.131666162

53 07° 03′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
07° 04′ 00″	0.12302414	0.99240368	0.123965825	8.066739374	1.007654467	8.128485967
07° 04′ 10″	0.12307225	0.99239771	0.124015052	8.063537351	1.007660525	8.125308278
07° 04′ 20″	0.12312037	0.99239174	0.124064279	8.060337831	1.007666584	8.122133091
07° 04′ 30″	0.12316848	0.99238577	0.124113507	8.057140811	1.007672647	8.118960404
07° 04′ 40″	0.12321659	0.99237980	0.124162735	8.053946287	1.007678711	8.115790214
07° 04′ 50″	0.12326470	0.99237383	0.124211964	8.050754258	1.007684778	8.112622518
07° 05′ 00″	0.12331281	0.99236785	0.124261194	8.047564718	1.007690848	8.109457312
07° 05′ 10″	0.12336093	0.99236187	0.124310424	8.044377667	1.007696919	8.106294595
07° 05′ 20″	0.12340904	0.99235589	0.124359655	8.041193101	1.007702994	8.103134362
07° 05′ 30″	0.12345715	0.99234990	0.124408886	8.038011017	1.007709071	8.099976611
07° 05′ 40″	0.12350526	0.99234392	0.124458119	8.034831412	1.007715150	8.096821340
07° 05′ 50″	0.12355337	0.99233793	0.124507351	8.031654283	1.007721232	8.093668545
07° 06′ 00″	0.12360148	0.99233194	0.124556584	8.028479627	1.007727316	8.090518223
07° 06′ 10″	0.12364959	0.99232594	0.124605818	8.025307442	1.007733402	8.087370372
07° 06′ 20″	0.12369770	0.99231995	0.124655053	8.022137724	1.007739491	8.084224988
07° 06′ 30″	0.12374580	0.99231395	0.124704288	8.018970471	1.007745583	8.081082069
07° 06′ 40″	0.12379391	0.99230795	0.124753523	8.015805680	1.007751677	8.077941612
07° 06′ 50″	0.12384202	0.99230195	0.124802759	8.012643347	1.007757773	8.074803614
07° 07′ 00″	0.12389013	0.99229594	0.124851996	8.009483470	1.007763872	8.071668072
07° 07′ 10″	0.12393824	0.99228993	0.124901234	8.006326047	1.007769973	8.068534983
07° 07′ 20″	0.12398634	0.99228392	0.124950472	8.003171073	1.007776076	8.065404344
07° 07′ 30″	0.12403445	0.99227791	0.124999710	8.000018547	1.007782183	8.062276152
07° 07′ 40″	0.12408256	0.99227190	0.125048949	7.996868466	1.007788291	8.059150405
07° 07′ 50″	0.12413066	0.99226588	0.125098189	7.993720826	1.007794402	8.056027100
07° 08′ 00″	0.12417877	0.99225986	0.125147430	7.990575625	1.007800516	8.052906234
07° 08′ 10″	0.12422688	0.99225384	0.125196671	7.987432859	1.007806631	8.049787804
07° 08′ 20″	0.12427498	0.99224782	0.125245912	7.984292527	1.007812750	8.046671806
07° 08′ 30″	0.12432309	0.99224179	0.125295154	7.981154625	1.007818870	8.043558240
07° 08′ 40″	0.12437119	0.99223576	0.125344397	7.978019151	1.007824994	8.040447100
07° 08′ 50″	0.12441930	0.99222973	0.125393640	7.974886101	1.007831119	8.037338385
07° 09′ 00″	0.12446740	0.99222370	0.125442884	7.971755473	1.007837247	8.034232092
07° 09′ 10″	0.12451551	0.99221766	0.125492129	7.968627263	1.007843378	8.031128219
07° 09′ 20″	0.12456361	0.99221162	0.125541374	7.965501470	1.007849511	8.028026761
07° 09′ 30″	0.12461171	0.99220558	0.125590620	7.962378090	1.007855646	8.024927716
07° 09′ 40″	0.12465982	0.99219954	0.125639866	7.959257121	1.007861784	8.021831083
07° 09′ 50″	0.12470792	0.99219350	0.125689113	7.956138559	1.007867924	8.018736856
07° 10′ 00″	0.12475602	0.99218745	0.125738361	7.953022402	1.007874067	8.015645035
07° 10′ 10″	0.12480413	0.99218140	0.125787609	7.949908648	1.007880212	8.012555616
07° 10′ 20″	0.12485223	0.99217535	0.125836858	7.946797292	1.007886360	8.009468597
07° 10′ 30″	0.12490033	0.99216929	0.125886107	7.943688333	1.007892510	8.006383974
07° 10′ 40″	0.12494843	0.99216324	0.125935357	7.940581768	1.007898663	8.003301745
07° 10′ 50″	0.12499653	0.99215718	0.125984608	7.937477594	1.007904818	8.000221907
07° 11′ 00″	0.12504463	0.99215112	0.126033859	7.934375808	1.007910975	7.997144457
07° 11′ 10″	0.12509273	0.99214505	0.126083111	7.931276407	1.007917135	7.994069392
07° 11′ 20″	0.12514083	0.99213899	0.126132363	7.928179389	1.007923297	7.990996710
07° 11′ 30″	0.12518894	0.99213292	0.126181616	7.925084751	1.007929462	7.987926409
07° 11′ 40″	0.12523703	0.99212685	0.126230869	7.921992490	1.007935629	7.984858484
07° 11′ 50″	0.12528513	0.99212078	0.126280124	7.918902603	1.007941799	7.981792934
	1					

54 07° 11′ 50″

07° 12′ 00″ 0.12533323 07° 12′ 10″ 0.12538133 07° 12′ 20″ 0.12542943 07° 12′ 30″ 0.12547753 07° 12′ 40″ 0.12552563 07° 12′ 50″ 0.12557373 07° 13′ 00″ 0.12562182 07° 13′ 10″ 0.12566992 07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421 07° 13′ 50″ 0.12586231	0.99211470 0.99210862 0.99210254 0.99209646 0.99209038 0.99208429 0.99207211 0.99206602 0.99205992 0.99205382 0.99204772	0.126329378 0.126378634 0.126427890 0.126477146 0.126526404 0.126575661 0.126624920 0.126674179 0.126723438 0.126772699	7.915815088 7.912729942 7.909647162 7.906566746 7.903488690 7.900412992 7.897339649 7.894268659 7.891200018	1.007947971 1.007954145 1.007960322 1.007966502 1.007972684 1.007978868 1.007985055 1.007991244	7.978729756 7.975668946 7.972610503 7.969554423 7.966500704 7.963449343 7.960400337 7.957353684
07° 12′ 20″ 0.12542943 07° 12′ 30″ 0.12547753 07° 12′ 40″ 0.12552563 07° 12′ 50″ 0.12557373 07° 13′ 00″ 0.12562182 07° 13′ 10″ 0.12566992 07° 13′ 20″ 0.12571802 07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421	0.99210254 0.99209646 0.99209038 0.99208429 0.99207820 0.99207211 0.99206602 0.99205992 0.99205382	0.126427890 0.126477146 0.126526404 0.126575661 0.126624920 0.126674179 0.126723438 0.126772699	7.909647162 7.906566746 7.903488690 7.900412992 7.897339649 7.894268659 7.891200018	1.007960322 1.007966502 1.007972684 1.007978868 1.007985055 1.007991244	7.972610503 7.969554423 7.966500704 7.963449343 7.960400337
07° 12′ 30″ 0.12547753 07° 12′ 40″ 0.12552563 07° 12′ 50″ 0.12557373 07° 13′ 00″ 0.12562182 07° 13′ 10″ 0.12566992 07° 13′ 20″ 0.12571802 07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421	0.99209646 0.99209038 0.99208429 0.99207820 0.99207211 0.99206602 0.99205992 0.99205382	0.126477146 0.126526404 0.126575661 0.126624920 0.126674179 0.126723438 0.126772699	7.906566746 7.903488690 7.900412992 7.897339649 7.894268659 7.891200018	1.007966502 1.007972684 1.007978868 1.007985055 1.007991244	7.969554423 7.966500704 7.963449343 7.960400337
07° 12′ 40″ 0.12552563 07° 12′ 50″ 0.12557373 07° 13′ 00″ 0.12562182 07° 13′ 10″ 0.12566992 07° 13′ 20″ 0.12571802 07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421	0.99209038 0.99208429 0.99207820 0.99207211 0.99206602 0.99205992 0.99205382	0.126526404 0.126575661 0.126624920 0.126674179 0.126723438 0.126772699	7.903488690 7.900412992 7.897339649 7.894268659 7.891200018	1.007972684 1.007978868 1.007985055 1.007991244	7.966500704 7.963449343 7.960400337
07° 12′ 50″ 0.12557373 07° 13′ 00″ 0.12562182 07° 13′ 10″ 0.12566992 07° 13′ 20″ 0.12571802 07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421	0.99208429 0.99207820 0.99207211 0.99206602 0.99205992 0.99205382	0.126575661 0.126624920 0.126674179 0.126723438 0.126772699	7.900412992 7.897339649 7.894268659 7.891200018	1.007978868 1.007985055 1.007991244	7.963449343 7.960400337
07° 13′ 00″ 0.12562182 07° 13′ 10″ 0.12566992 07° 13′ 20″ 0.12571802 07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421	0.99207820 0.99207211 0.99206602 0.99205992 0.99205382	0.126624920 0.126674179 0.126723438 0.126772699	7.897339649 7.894268659 7.891200018	1.007985055 1.007991244	7.960400337
07° 13′ 10″ 0.12566992 07° 13′ 20″ 0.12571802 07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421	0.99207211 0.99206602 0.99205992 0.99205382	0.126674179 0.126723438 0.126772699	7.894268659 7.891200018	1.007991244	
07° 13′ 20″ 0.12571802 07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421	0.99206602 0.99205992 0.99205382	0.126723438 0.126772699	7.891200018		7.957353684
07° 13′ 30″ 0.12576611 07° 13′ 40″ 0.12581421	0.99205992 0.99205382	0.126772699		1 007007425	
07° 13′ 40″ 0.12581421	0.99205382			1.007997435	7.954309381
		A 12002100A	7.888133725	1.008003630	7.951267425
070 13/ 50" 0 12586221	0.99204772	0.126821960	7.885069776	1.008009826	7.948227813
01 13 30 0.12300231		0.126871221	7.882008168	1.008016025	7.945190543
07° 14′ 00″ 0.12591040	0.99204162	0.126920483	7.878948900	1.008022226	7.942155612
07° 14′ 10″ 0.12595850	0.99203551	0.126969746	7.875891968	1.008028430	7.939123018
07° 14′ 20″ 0.12600659	0.99202940	0.127019009	7.872837370	1.008034637	7.936092757
07° 14′ 30″ 0.12605469	0.99202329	0.127068273	7.869785102	1.008040845	7.933064827
07° 14′ 40″ 0.12610278	0.99201718	0.127117537	7.866735163	1.008047057	7.930039225
07° 14′ 50″ 0.12615088	0.99201107	0.127166802	7.863687549	1.008053270	7.927015950
07° 15′ 00″ 0.12619897	0.99200495	0.127216068	7.860642258	1.008059486	7.923994997
07° 15′ 10″ 0.12624706	0.99199883	0.127265334	7.857599287	1.008065705	7.920976364
07° 15′ 20″ 0.12629516	0.99199271	0.127314601	7.854558634	1.008071926	7.917960049
07° 15′ 30″ 0.12634325	0.99198658	0.127363869	7.851520296	1.008078149	7.914946049
07° 15′ 40″ 0.12639134	0.99198046	0.127413137	7.848484269	1.008084375	7.911934361
07° 15′ 50″ 0.12643943	0.99197433	0.127462406	7.845450553	1.008090603	7.908924982
07° 16′ 00″ 0.12648753	0.99196820	0.127511675	7.842419143	1.008096834	7.905917911
07° 16′ 10″ 0.12653562	0.99196206	0.127560945	7.839390038	1.008103067	7.902913144
07° 16′ 20″ 0.12658371	0.99195593	0.127610215	7.836363234	1.008109303	7.899910679
07° 16′ 30″ 0.12663180	0.99194979	0.127659487	7.833338730	1.008115541	7.896910513
07° 16′ 40″ 0.12667989	0.99194365	0.127708758	7.830316521	1.008121782	7.893912643
07° 16′ 50″ 0.12672798	0.99193751	0.127758031	7.827296607	1.008128025	7.890917068
07° 17′ 00″ 0.12677607	0.99193136	0.127807304	7.824278983	1.008134270	7.887923783
07° 17′ 10″ 0.12682416	0.99192521	0.127856577	7.821263648	1.008140518	7.884932787
07° 17′ 20″ 0.12687225	0.99191907	0.127905851	7.818250599	1.008146769	7.881944077
07° 17′ 30″ 0.12692034	0.99191291	0.127955126	7.815239833	1.008153021	7.878957650
07° 17′ 40″ 0.12696843	0.99190676	0.128004402	7.812231348	1.008159277	7.875973504
07° 17′ 50″ 0.12701652	0.99190060	0.128053678	7.809225141	1.008165534	7.872991636
07° 18′ 00″ 0.12706461	0.99189444	0.128102954	7.806221209	1.008171794	7.870012044
07° 18′ 10″ 0.12711270	0.99188828	0.128152232	7.803219550	1.008178057	7.867034724
07° 18′ 20″ 0.12716078	0.99188212	0.128201510	7.800220162	1.008184322	7.864059675
07° 18′ 30″ 0.12720887	0.99187595	0.128250788	7.797223041	1.008190589	7.861086894
07° 18′ 40″ 0.12725696	0.99186978	0.128300067	7.794228185	1.008196859	7.858116377
07° 18′ 50″ 0.12730505	0.99186361	0.128349347	7.791235592	1.008203132	7.855148124
07° 19′ 00″ 0.12735313	0.99185744	0.128398627	7.788245258	1.008209407	7.852182130
07° 19′ 10″ 0.12740122	0.99185126	0.128447908	7.785257182	1.008215684	7.849218394
07° 19′ 20″ 0.12744931	0.99184509	0.128497190	7.782271361	1.008221964	7.846256912
07° 19′ 30″ 0.12749739	0.99183891	0.128546472	7.779287792	1.008228246	7.843297683
07° 19′ 40″ 0.12754548	0.99183272	0.128595755	7.776306473	1.008234530	7.840340704
07° 19′ 50″ 0.12759356	0.99182654	0.128645038	7.773327400	1.008240817	7.837385972

55 07° 19′ 50″

χ	$\sin(\mathbf{x})$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
07° 20′ 00″	0.12764165	0.99182035	0.128694322	7.770350573	1.008247107	7.834433484
07° 20′ 10″	0.12768973	0.99181416	0.128743607	7.767375987	1.008253399	7.831483239
07° 20′ 20″	0.12773782	0.99180797	0.128792892	7.764403641	1.008259693	7.828535233
07° 20′ 30″	0.12778590	0.99180178	0.128842178	7.761433531	1.008265990	7.825589464
07° 20′ 40″	0.12783398	0.99179558	0.128891464	7.758465656	1.008272289	7.822645930
07° 20′ 50″	0.12788207	0.99178938	0.128940752	7.755500013	1.008278591	7.819704627
07° 21′ 00″	0.12793015	0.99178318	0.128990039	7.752536599	1.008284895	7.816765554
07° 21′ 10″	0.12797823	0.99177698	0.129039328	7.749575412	1.008291202	7.813828708
07° 21′ 20″	0.12802632	0.99177077	0.129088616	7.746616450	1.008297511	7.810894086
07° 21′ 30″	0.12807440	0.99176456	0.129137906	7.743659709	1.008303823	7.807961685
07° 21′ 40″	0.12812248	0.99175835	0.129187196	7.740705187	1.008310137	7.805031505
07° 21′ 50″	0.12817056	0.99175214	0.129236487	7.737752882	1.008316453	7.802103541
07° 22′ 00″	0.12821864	0.99174592	0.129285778	7.734802791	1.008322772	7.799177791
07° 22′ 10″	0.12826672	0.99173971	0.129335070	7.731854912	1.008329093	7.796254253
07° 22′ 20″	0.12831481	0.99173349	0.129384363	7.728909242	1.008335417	7.793332924
07° 22′ 30″	0.12836289	0.99172727	0.129433656	7.725965778	1.008341743	7.790413802
	0.12841097	0.99172104	0.129482950	7.723024519	1.008348072	7.787496884
	0.12845905	0.99171481	0.129532245	7.720085462	1.008354403	7.784582169
07° 23′ 00″	0.12850713	0.99170859	0.129581540	7.717148604	1.008360737	7.781669652
07° 23′ 10″	0.12855520	0.99170235	0.129630836	7.714213942	1.008367073	7.778759332
07° 23′ 20″	0.12860328	0.99169612	0.129680132	7.711281475	1.008373411	7.775851207
07° 23′ 30″	0.12865136	0.99168988	0.129729429	7.708351200	1.008379752	7.772945273
07° 23′ 40″	0.12869944	0.99168365	0.129778727	7.705423114	1.008386096	7.770041529
07° 23′ 50″	0.12874752	0.99167741	0.129828025	7.702497215	1.008392441	7.767139972
07° 24′ 00″	0.12879560	0.99167116	0.129877324	7.699573500	1.008398790	7.764240600
07° 24′ 10″	0.12884367	0.99166492	0.129926623	7.696651968	1.008405141	7.761343409
07° 24′ 20″	0.12889175	0.99165867	0.129975923	7.693732615	1.008411494	7.758448398
07° 24′ 30″	0.12893983	0.99165242	0.130025224	7.690815438	1.008417849	7.75555564
07° 24′ 40″	0.12898790	0.99164617	0.130074525	7.687900437	1.008424207	7.752664905
07° 24′ 50″	0.12903598	0.99163991	0.130123827	7.684987607	1.008430568	7.749776418
07° 25′ 00″	0.12908406	0.99163366	0.130173130	7.682076948	1.008436931	7.746890101
07° 25′ 10″	0.12913213	0.99162740	0.130222433	7.679168455	1.008443296	7.744005951
07° 25′ 20″	0.12918021	0.99162113	0.130271737	7.676262128	1.008449664	7.741123966
07° 25′ 30″	0.12922828	0.99161487	0.130321041	7.673357962	1.008456035	7.738244143
07° 25′ 40″	0.12927636	0.99160860	0.130370346	7.670455957	1.008462407	7.735366481
07° 25′ 50″	0.12932443	0.99160234	0.130419652	7.667556110	1.008468783	7.732490976
07° 26′ 00″	0.12937251	0.99159606	0.130468958	7.664658417	1.008475160	7.729617626
07° 26′ 10″	0.12942058	0.99158979	0.130518265	7.661762877	1.008481541	7.726746430
07° 26′ 20″	0.12946865	0.99158352	0.130567573	7.658869488	1.008487923	7.723877383
07° 26′ 30″	0.12951673	0.99157724	0.130616881	7.655978246	1.008494308	7.721010485
07° 26′ 40″	0.12956480	0.99157096	0.130666190	7.653089150	1.008500696	7.718145732
07° 26′ 50″	0.12961287	0.99156467	0.130715499	7.650202197	1.008507086	7.715283122
07° 27′ 00″	0.12966094	0.99155839	0.130764809	7.647317385	1.008513478	7.712422653
07° 27′ 10″	0.12970902	0.99155210	0.130814120	7.644434711	1.008519873	7.709564323
07° 27′ 20″	0.12975709	0.99154581	0.130863431	7.641554173	1.008526270	7.706708128
07° 27′ 30″	0.12980516	0.99153952	0.130912743	7.638675768	1.008532670	7.703854068
07° 27′ 40″	0.12985323	0.99153323	0.130962056	7.635799495	1.008539072	7.701002138
07° 27′ 50″	0.12990130	0.99152693	0.131011369	7.632925350	1.008545477	7.698152337

56 07° 27′ 50″

<u> </u>	sin(x)	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
07° 28′ 00″	0.12994937	0.99152063	0.131060683	7.630053332	1.008551884	7.695304663
07° 28′ 10″	0.12999744	0.99151433	0.131109997	7.627183438	1.008558294	7.692459113
07° 28′ 20″	0.13004551	0.99150803	0.131159312	7.624315666	1.008564706	7.689615684
07° 28′ 30″	0.13009358	0.99150172	0.131208628	7.621450012	1.008571120	7.686774375
07° 28′ 40″	0.13014165	0.99149541	0.131257944	7.618586476	1.008577537	7.683935183
07° 28′ 50″	0.13018972	0.99148910	0.131307261	7.615725054	1.008583956	7.681098105
07° 29′ 00″	0.13023779	0.99148279	0.131356579	7.612865745	1.008590378	7.678263140
07° 29′ 10″	0.13028586	0.99147647	0.131405897	7.610008545	1.008596802	7.675430285
07° 29′ 20″	0.13033392	0.99147016	0.131455216	7.607153453	1.008603229	7.672599537
07° 29′ 30″	0.13038199	0.99146384	0.131504535	7.604300466	1.008609658	7.669770895
07° 29′ 40″	0.13043006	0.99145751	0.131553856	7.601449582	1.008616090	7.666944355
07° 29′ 50″	0.13047813	0.99145119	0.131603176	7.598600798	1.008622524	7.664119916
07° 30′ 00″	0.13052619	0.99144486	0.131652498	7.595754113	1.008628961	7.661297576
07° 30′ 10″	0.13057426	0.99143853	0.131701820	7.592909523	1.008635400	7.658477331
07° 30′ 20″	0.13062232	0.99143220	0.131751142	7.590067027	1.008641841	7.655659179
07° 30′ 30″	0.13067039	0.99142587	0.131800465	7.587226622	1.008648285	7.652843120
07° 30′ 40″	0.13071846	0.99141953	0.131849789	7.584388306	1.008654731	7.650029148
07° 30′ 50″	0.13076652	0.99141319	0.131899114	7.581552076	1.008661180	7.647217264
07° 31′ 00″	0.13081459	0.99140685	0.131948439	7.578717931	1.008667631	7.644407464
07° 31′ 10″	0.13086265	0.99140051	0.131997765	7.575885867	1.008674085	7.641599746
07° 31′ 20″	0.13091072	0.99139416	0.132047091	7.573055883	1.008680541	7.638794107
07° 31′ 30″	0.13095878	0.99138781	0.132096418	7.570227977	1.008687000	7.635990546
07° 31′ 40″	0.13100684	0.99138146	0.132145746	7.567402145	1.008693461	7.633189060
07° 31′ 50″	0.13105491	0.99137511	0.132195074	7.564578387	1.008699924	7.630389647
07° 32′ 00″	0.13110297	0.99136876	0.132244403	7.561756698	1.008706390	7.627592304
07° 32′ 10″	0.13115103	0.99136240	0.132293733	7.558937078	1.008712859	7.624797030
07° 32′ 20″	0.13119909	0.99135604	0.132343063	7.556119523	1.008719330	7.622003821
07° 32′ 30″	0.13124716	0.99134968	0.132392394	7.553304033	1.008725803	7.619212676
07° 32′ 40″	0.13129522	0.99134331	0.132441725	7.550490603	1.008732279	7.616423593
07° 32′ 50″	0.13134328	0.99133695	0.132491057	7.547679232	1.008738757	7.613636568
07° 33′ 00″	0.13139134	0.99133058	0.132540390	7.544869918	1.008745238	7.610851601
07° 33′ 10″	0.13143940	0.99132421	0.132589723	7.542062659	1.008751721	7.608068687
07° 33′ 20″	0.13148746	0.99131783	0.132639057	7.539257452	1.008758207	7.605287827
07° 33′ 30″	0.13153552	0.99131146	0.132688392	7.536454295	1.008764695	7.602509016
07° 33′ 40″	0.13158358	0.99130508	0.132737727	7.533653185	1.008771185	7.599732253
07° 33′ 50″	0.13163164	0.99129870	0.132787063	7.530854121	1.008777678	7.596957535
07° 34′ 00″	0.13167970	0.99129232	0.132836399	7.528057100	1.008784174	7.594184861
07° 34′ 10″	0.13172776	0.99128593	0.132885737	7.525262120	1.008790672	7.591414227
07° 34′ 20″	0.13177582	0.99127954	0.132935074	7.522469178	1.008797172	7.588645633
07° 34′ 30″	0.13182388	0.99127315	0.132984413	7.519678273	1.008803675	7.585879074
07° 34′ 40″	0.13187194	0.99126676	0.133033752	7.516889402	1.008810180	7.583114551
07° 34′ 50″	0.13191999	0.99126037	0.133083092	7.514102564	1.008816688	7.580352059
07° 35′ 00″	0.13196805	0.99125397	0.133132432	7.511317754	1.008823198	7.577591597
07° 35′ 10″	0.13201611	0.99124757	0.133181773	7.508534973	1.008829710	7.574833162
07° 35′ 20″	0.13206417	0.99124117	0.133231115	7.505754216	1.008836226	7.572076753
07° 35′ 30″	0.13211222	0.99123477	0.133280457	7.502975483	1.008842743	7.569322367
07° 35′ 40″	0.13216028	0.99122836	0.133329800	7.500198770	1.008849263	7.566570002
07° 35′ 50″	0.13220833	0.99122195	0.133379143	7.497424076	1.008855785	7.563819656

57 07° 35′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
07° 36′ 00″	0.13225639	0.99121554	0.133428487	7.494651399	1.008862310	7.561071326
07° 36′ 10″	0.13230445	0.99120913	0.133477832	7.491880736	1.008868838	7.558325010
07° 36′ 20″	0.13235250	0.99120271	0.133527178	7.489112084	1.008875368	7.555580706
07° 36′ 30″	0.13240056	0.99119629	0.133576524	7.486345442	1.008881900	7.552838412
07° 36′ 40″	0.13244861	0.99118987	0.133625871	7.483580808	1.008888434	7.550098126
07° 36′ 50″	0.13249666	0.99118345	0.133675218	7.480818180	1.008894972	7.547359846
07° 37′ 00″	0.13254472	0.99117703	0.133724566	7.478057554	1.008901511	7.544623568
07° 37′ 10″	0.13259277	0.99117060	0.133773915	7.475298930	1.008908053	7.541889292
07° 37′ 20″	0.13264082	0.99116417	0.133823264	7.472542304	1.008914598	7.539157014
07° 37′ 30″	0.13268888	0.99115774	0.133872614	7.469787675	1.008921145	7.536426733
07° 37′ 40″	0.13273693	0.99115130	0.133921964	7.467035040	1.008927694	7.533698447
07° 37′ 50″	0.13278498	0.99114487	0.133971315	7.464284398	1.008934246	7.530972153
07° 38′ 00″	0.13283303	0.99113843	0.134020667	7.461535745	1.008940801	7.528247849
07° 38′ 10″	0.13288109	0.99113199	0.134070020	7.458789081	1.008947358	7.525525533
07° 38′ 20″	0.13292914	0.99112554	0.134119373	7.456044402	1.008953917	7.522805203
07° 38′ 30″	0.13297719	0.99111910	0.134168727	7.453301707	1.008960479	7.520086857
07° 38′ 40″	0.13302524	0.99111265	0.134218081	7.450560993	1.008967043	7.517370492
07° 38′ 50″	0.13307329	0.99110620	0.134267436	7.447822259	1.008973609	7.514656106
07° 39′ 00″	0.13312134	0.99109975	0.134316792	7.445085501	1.008980178	7.511943698
07° 39′ 10″	0.13316939	0.99109329	0.134366148	7.442350719	1.008986750	7.509233265
07° 39′ 20″	0.13321744	0.99108683	0.134415505	7.439617909	1.008993324	7.506524804
07° 39′ 30″	0.13326549	0.99108038	0.134464863	7.436887070	1.008999901	7.503818314
07° 39′ 40″	0.13331354	0.99107391	0.134514221	7.434158200	1.009006480	7.501113793
07° 39′ 50″	0.13336158	0.99106745	0.134563580	7.431431295	1.009013061	7.498411238
07° 40′ 00″	0.13340963	0.99106098	0.134612940	7.428706355	1.009019645	7.495710648
07° 40′ 10″	0.13345768	0.99105451	0.134662300	7.425983378	1.009026231	7.493012019
07° 40′ 20″	0.13350573	0.99104804	0.134711661	7.423262360	1.009032820	7.490315351
07° 40′ 30″	0.13355377	0.99104157	0.134761022	7.420543300	1.009039411	7.487620641
07° 40′ 40″	0.13360182	0.99103509	0.134810384	7.417826195	1.009046005	7.484927886
07° 40′ 50″	0.13364987	0.99102861	0.134859747	7.415111044	1.009052601	7.482237085
07° 41′ 00″	0.13369791	0.99102213	0.134909111	7.412397845	1.009059200	7.479548236
07° 41′ 10″	0.13374596	0.99101565	0.134958475	7.409686595	1.009065801	7.476861336
07° 41′ 20″	0.13379401	0.99100916	0.135007839	7.406977292	1.009072404	7.474176383
07° 41′ 30″	0.13384205	0.99100268	0.135057205	7.404269935	1.009079010	7.471493376
07° 41′ 40″	0.13389010	0.99099619	0.135106571	7.401564520	1.009085618	7.468812312
07° 41′ 50″	0.13393814	0.99098969	0.135155937	7.398861047	1.009092229	7.466133188
07° 42′ 00″	0.13398619	0.99098320	0.135205305	7.396159512	1.009098843	7.463456004
07° 42′ 10″	0.13403423	0.99097670	0.135254673	7.393459914	1.009105459	7.460780756
07° 42′ 20″	0.13408227	0.99097020	0.135304041	7.390762250	1.009112077	7.458107443
07° 42′ 30″	0.13413032	0.99096370	0.135353410	7.388066519	1.009118698	7.455436063
07° 42′ 40″	0.13417836	0.99095720	0.135402780	7.385372718	1.009125321	7.452766613
07° 42′ 50″	0.13422640	0.99095069	0.135452151	7.382680846	1.009131946	7.450099092
07° 43′ 00″	0.13427445	0.99094418	0.135501522	7.379990900	1.009138574	7.447433497
07° 43′ 10″	0.13432249	0.99093767	0.135550894	7.377302879	1.009145205	7.444769826
07° 43′ 20″	0.13437053	0.99093116	0.135600266	7.374616779	1.009151838	7.442108077
07° 43′ 30″	0.13441857	0.99092464	0.135649640	7.371932599	1.009158474	7.439448249
07° 43′ 40″	0.13446661	0.99091812	0.135699013	7.369250338	1.009165111	7.436790339
07° 43′ 50″	0.13451465	0.99091160	0.135748388	7.366569992	1.009171752	7.434134344

58 07° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
07° 44′ 00″	0.13456269	0.99090508	0.135797763	7.363891560	1.009178395	7.431480264
07° 44′ 10″	0.13461073	0.99089856	0.135847139	7.361215040	1.009185040	7.428828095
07° 44′ 20″	0.13465877	0.99089203	0.135896515	7.358540430	1.009191688	7.426177836
07° 44′ 30″	0.13470681	0.99088550	0.135945892	7.355867727	1.009198338	7.423529485
07° 44′ 40″	0.13475485	0.99087897	0.135995270	7.353196930	1.009204991	7.420883040
07° 44′ 50″	0.13480289	0.99087243	0.136044648	7.350528037	1.009211646	7.418238498
07° 45′ 00″	0.13485093	0.99086590	0.136094027	7.347861045	1.009218304	7.415595858
07° 45′ 10″	0.13489897	0.99085936	0.136143407	7.345195952	1.009224964	7.412955118
07° 45′ 20″	0.13494701	0.99085282	0.136192787	7.342532757	1.009231626	7.410316274
07° 45′ 30″	0.13499504	0.99084627	0.136242168	7.339871457	1.009238291	7.407679327
07° 45′ 40″	0.13504308	0.99083973	0.136291550	7.337212051	1.009244959	7.405044273
07° 45′ 50″	0.13509112	0.99083318	0.136340932	7.334554536	1.009251629	7.402411110
07° 46′ 00″	0.13513916	0.99082663	0.136390315	7.331898910	1.009258301	7.399779837
07° 46′ 10″	0.13518719	0.99082008	0.136439698	7.329245172	1.009264976	7.397150451
07° 46′ 20″	0.13523523	0.99081352	0.136489083	7.326593319	1.009271653	7.394522950
07° 46′ 30″	0.13528326	0.99080696	0.136538467	7.323943349	1.009278333	7.391897332
07° 46′ 40″	0.13533130	0.99080040	0.136587853	7.321295260	1.009285015	7.389273596
07° 46′ 50″	0.13537933	0.99079384	0.136637239	7.318649050	1.009291700	7.386651739
07° 47′ 00″	0.13542737	0.99078728	0.136686626	7.316004718	1.009298387	7.384031760
07° 47′ 10″	0.13547540	0.99078071	0.136736013	7.313362261	1.009305076	7.381413656
07° 47′ 20″	0.13552344	0.99077414	0.136785402	7.310721677	1.009311769	7.378797424
07° 47′ 30″	0.13557147	0.99076757	0.136834790	7.308082964	1.009318463	7.376183065
07° 47′ 40″	0.13561951	0.99076100	0.136884180	7.305446120	1.009325160	7.373570574
07° 47′ 50″	0.13566754	0.99075442	0.136933570	7.302811143	1.009331859	7.370959951
07° 48′ 00″	0.13571557	0.99074784	0.136982961	7.300178032	1.009338561	7.368351193
07° 48′ 10″	0.13576361	0.99074126	0.137032352	7.297546784	1.009345266	7.365744298
07° 48′ 20″	0.13581164	0.99073468	0.137081744	7.294917397	1.009351973	7.363139264
07° 48′ 30″	0.13585967	0.99072809	0.137131137	7.292289869	1.009358682	7.360536090
07° 48′ 40″	0.13590770	0.99072150	0.137180530	7.289664198	1.009365394	7.357934773
07° 48′ 50″	0.13595573	0.99071491	0.137229924	7.287040383	1.009372108	7.355335311
07° 49′ 00″	0.13600376	0.99070832	0.137279319	7.284418421	1.009378825	7.352737703
07° 49′ 10″	0.13605179	0.99070173	0.137328714	7.281798310	1.009385544	7.350141946
07° 49′ 20″	0.13609982	0.99069513	0.137378110	7.279180048	1.009392265	7.347548038
07° 49′ 30″	0.13614785	0.99068853	0.137427507	7.276563634	1.009398989	7.344955978
07° 49′ 40″	0.13619588	0.99068193	0.137476904	7.273949065	1.009405716	7.342365763
07° 49′ 50″	0.13624391	0.99067532	0.137526302	7.271336340	1.009412445	7.339777392
07° 50′ 00″	0.13629194	0.99066872	0.137575701	7.268725456	1.009419176	7.337190862
07° 50′ 10″	0.13633997	0.99066211	0.137625100	7.266116411	1.009425910	7.334606172
07° 50′ 20″	0.13638800	0.99065550	0.137674500	7.263509204	1.009432647	7.332023320
07° 50′ 30″	0.13643603	0.99064888	0.137723901	7.260903833	1.009439385	7.329442303
07° 50′ 40″	0.13648406	0.99064227	0.137773302	7.258300295	1.009446127	7.326863120
07° 50′ 50″	0.13653208	0.99063565	0.137822704	7.255698589	1.009452871	7.324285768
07° 51′ 00″	0.13658011	0.99062903	0.137872107	7.253098713	1.009459617	7.321710247
07° 51′ 10″	0.13662814	0.99062241	0.137921510	7.250500664	1.009466365	7.319136553
07° 51′ 20″	0.13667616	0.99061578	0.137970914	7.247904442	1.009473117	7.316564686
07° 51′ 30″	0.13672419	0.99060915	0.138020319	7.245310043	1.009479870	7.313994642
07° 51′ 40″	0.13677222	0.99060252	0.138069724	7.242717466	1.009486626	7.311426420
07° 51′ 50″	0.13682024	0.99059589	0.138119130	7.240126710	1.009493385	7.308860019

59 07° 51′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
07° 52′ 00″	0.13686827	0.99058926	0.138168536	7.237537771	1.009500146	7.306295435
07° 52′ 10″	0.13691629	0.99058262	0.138217943	7.234950649	1.009506909	7.303732668
07° 52′ 20″	0.13696432	0.99057598	0.138267351	7.232365341	1.009513675	7.301171716
07° 52′ 30″	0.13701234	0.99056934	0.138316760	7.229781845	1.009520444	7.298612576
07° 52′ 40″	0.13706037	0.99056270	0.138366169	7.227200160	1.009527214	7.296055246
07° 52′ 50″	0.13710839	0.99055605	0.138415579	7.224620283	1.009533988	7.293499725
07° 53′ 00″	0.13715641	0.99054940	0.138464990	7.222042213	1.009540764	7.290946010
07° 53′ 10″	0.13720444	0.99054275	0.138514401	7.219465948	1.009547542	7.288394101
07° 53′ 20″	0.13725246	0.99053610	0.138563813	7.216891485	1.009554323	7.285843994
07° 53′ 30″	0.13730048	0.99052944	0.138613225	7.214318823	1.009561106	7.283295688
07° 53′ 40″	0.13734850	0.99052279	0.138662638	7.211747961	1.009567891	7.280749182
07° 53′ 50″	0.13739652	0.99051613	0.138712052	7.209178895	1.009574679	7.278204472
07° 54′ 00″	0.13744455	0.99050946	0.138761467	7.206611625	1.009581470	7.275661558
07° 54′ 10″	0.13749257	0.99050280	0.138810882	7.204046148	1.009588263	7.273120438
07° 54′ 20″	0.13754059	0.99049613	0.138860298	7.201482462	1.009595059	7.270581108
07° 54′ 30″	0.13758861	0.99048946	0.138909714	7.198920566	1.009601857	7.268043569
07° 54′ 40″	0.13763663	0.99048279	0.138959132	7.196360458	1.009608657	7.265507817
07° 54′ 50″	0.13768465	0.99047612	0.139008549	7.193802135	1.009615460	7.262973851
07° 55′ 00″	0.13773267	0.99046944	0.139057968	7.191245596	1.009622265	7.260441669
07° 55′ 10″	0.13778069	0.99046276	0.139107387	7.188690839	1.009629073	7.257911269
07° 55′ 20″	0.13782871	0.99045608	0.139156807	7.186137863	1.009635883	7.255382649
07° 55′ 30″	0.13787672	0.99044940	0.139206228	7.183586664	1.009642696	7.252855807
07° 55′ 40″	0.13792474	0.99044271	0.139255649	7.181037242	1.009649511	7.250330742
07° 55′ 50″	0.13797276	0.99043602	0.139305071	7.178489595	1.009656329	7.247807452
07° 56′ 00″	0.13802078	0.99042933	0.139354493	7.175943720	1.009663149	7.245285934
07° 56′ 10″	0.13806879	0.99042264	0.139403916	7.173399616	1.009669972	7.242766188
07° 56′ 20″	0.13811681	0.99041595	0.139453340	7.170857281	1.009676797	7.240248210
07° 56′ 30″	0.13816483	0.99040925	0.139502765	7.168316713	1.009683624	7.237732000
07° 56′ 40″	0.13821284	0.99040255	0.139552190	7.165777910	1.009690454	7.235217554
07° 56′ 50″	0.13826086	0.99039585	0.139601616	7.163240871	1.009697287	7.232704873
07° 57′ 00″	0.13830888	0.99038914	0.139651042	7.160705593	1.009704122	7.230193952
07° 57′ 10″	0.13835689	0.99038244	0.139700470	7.158172075	1.009710959	7.227684792
07° 57′ 20″	0.13840491	0.99037573	0.139749897	7.155640315	1.009717799	7.225177390
07° 57′ 30″	0.13845292	0.99036902	0.139799326	7.153110310	1.009724641	7.222671743
07° 57′ 40″	0.13850094	0.99036230	0.139848755	7.150582060	1.009731486	7.220167851
07° 57′ 50″	0.13854895	0.99035559	0.139898185	7.148055562	1.009738334	7.217665711
07° 58′ 00″	0.13859696	0.99034887	0.139947616	7.145530815	1.009745183	7.215165322
07° 58′ 10″	0.13864498	0.99034215	0.139997047	7.143007816	1.009752035	7.212666682
07° 58′ 20″	0.13869299	0.99033543	0.140046479	7.140486565	1.009758890	7.210169789
07° 58′ 30″	0.13874100	0.99032870	0.140095911	7.137967058	1.009765747	7.207674640
07° 58′ 40″	0.13878901	0.99032197	0.140145345	7.135449294	1.009772607	7.205181235
07° 58′ 50″	0.13883703	0.99031524	0.140194778	7.132933272	1.009779469	7.202689571
07° 59′ 00″	0.13888504	0.99030851	0.140244213	7.130418989	1.009786333	7.200199647
07° 59′ 10″	0.13893305	0.99030178	0.140293648	7.127906444	1.009793200	7.197711461
07° 59′ 20″	0.13898106	0.99029504	0.140343084	7.125395635	1.009800070	7.195225011
07° 59′ 30″	0.13902907	0.99028830	0.140392521	7.122886560	1.009806942	7.192740295
07° 59′ 40″	0.13907708	0.99028156	0.140441958	7.120379218	1.009813816	7.190257312
07° 59′ 50″	0.13912509	0.99027481	0.140491396	7.117873606	1.009820693	7.187776059

60 07° 59′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
08° 00′ 00″	0.13917310	0.99026807	0.140540835	7.115369722	1.009827573	7.185296534
08° 00′ 10″	0.13922111	0.99026132	0.140590274	7.112867566	1.009834454	7.182818737
08° 00′ 20″	0.13926912	0.99025457	0.140639714	7.110367134	1.009841339	7.180342665
08° 00′ 30″	0.13931713	0.99024782	0.140689155	7.107868426	1.009848225	7.177868316
08° 00′ 40″	0.13936514	0.99024106	0.140738596	7.105371440	1.009855115	7.175395689
08° 00′ 50″	0.13941314	0.99023430	0.140788038	7.102876173	1.009862006	7.172924782
08° 01′ 00″	0.13946115	0.99022754	0.140837481	7.100382624	1.009868900	7.170455593
08° 01′ 10″	0.13950916	0.99022078	0.140886924	7.097890791	1.009875797	7.167988120
08° 01′ 20″	0.13955717	0.99021402	0.140936368	7.095400673	1.009882696	7.165522361
08° 01′ 30″	0.13960517	0.99020725	0.140985813	7.092912267	1.009889598	7.163058315
08° 01′ 40″	0.13965318	0.99020048	0.141035258	7.090425572	1.009896502	7.160595980
08° 01′ 50″	0.13970119	0.99019371	0.141084704	7.087940586	1.009903408	7.158135354
08° 02′ 00″	0.13974919	0.99018693	0.141134151	7.085457307	1.009910317	7.155676436
08° 02′ 10″	0.13979720	0.99018016	0.141183598	7.082975734	1.009917228	7.153219223
08° 02′ 20″	0.13984520	0.99017338	0.141233046	7.080495865	1.009924142	7.150763714
08° 02′ 30″	0.13989321	0.99016660	0.141282495	7.078017697	1.009931059	7.148309906
08° 02′ 40″	0.13994121	0.99015981	0.141331944	7.075541230	1.009937978	7.145857800
08° 02′ 50″	0.13998922	0.99015303	0.141381395	7.073066461	1.009944899	7.143407391
08° 03′ 00″	0.14003722	0.99014624	0.141430845	7.070593388	1.009951823	7.140958680
08° 03′ 10″	0.14008522	0.99013945	0.141480297	7.068122011	1.009958749	7.138511663
08° 03′ 20″	0.14013323	0.99013266	0.141529749	7.065652327	1.009965678	7.136066340
08° 03′ 30″	0.14018123	0.99012586	0.141579202	7.063184334	1.009972609	7.133622708
08° 03′ 40″	0.14022923	0.99011906	0.141628655	7.060718031	1.009979542	7.131180766
08° 03′ 50″	0.14027723	0.99011227	0.141678109	7.058253416	1.009986478	7.128740512
08° 04′ 00″	0.14032524	0.99010546	0.141727564	7.055790487	1.009993417	7.126301944
08° 04′ 10″	0.14037324	0.99009866	0.141777020	7.053329242	1.010000358	7.123865061
08° 04′ 20″	0.14042124	0.99009185	0.141826476	7.050869680	1.010007302	7.121429860
08° 04′ 30″	0.14046924	0.99008504	0.141875933	7.048411800	1.010014248	7.118996340
08° 04′ 40″	0.14051724	0.99007823	0.141925391	7.045955598	1.010021196	7.116564500
08° 04′ 50″	0.14056524	0.99007142	0.141974849	7.043501074	1.010028147	7.114134338
08° 05′ 00″	0.14061324	0.99006460	0.142024308	7.041048225	1.010035100	7.111705851
08° 05′ 10″	0.14066124	0.99005778	0.142073767	7.038597051	1.010042056	7.109279038
08° 05′ 20″	0.14070924	0.99005096	0.142123228	7.036147549	1.010049015	7.106853898
08° 05′ 30″	0.14075724	0.99004414	0.142172689	7.033699717	1.010055975	7.104430428
08° 05′ 40″	0.14080524	0.99003732	0.142222150	7.031253555	1.010062939	7.102008628
08° 05′ 50″	0.14085323	0.99003049	0.142271613	7.028809059	1.010069904	7.099588494
08° 06′ 00″ 08° 06′ 10″	0.14090123	0.99002366	0.142321076	7.026366229	1.010076873	7.097170026
	0.14094923	0.99001683	0.142370539	7.023925063	1.010083843	7.094753222
08° 06′ 20″	0.14099723	0.99000999	0.142420004	7.021485558	1.010090816	7.092338080
08° 06′ 30″	0.14104522	0.99000315	0.142469469	7.019047714	1.010097792	7.089924599
08° 06′ 40″	0.14109322	0.98999631	0.142518935	7.016611529	1.010104770	7.087512776
08° 06′ 50″	0.14114122	0.98998947	0.142568401	7.014177000	1.010111751	7.085102610
08° 07′ 00″	0.14118921	0.98998263	0.142617868	7.011744127	1.010118734	7.082694099
08° 07′ 10″	0.14123721	0.98997578	0.142667336	7.009312907	1.010125719	7.080287242
08° 07′ 20″	0.14128520	0.98996893	0.142716805	7.006883339	1.010132707	7.077882037
08° 07′ 30″	0.14133320	0.98996208	0.142766274	7.004455421	1.010139698	7.075478482
08° 07′ 40″ 08° 07′ 50″	0.14138119 0.14142919	0.98995523	0.142815744	7.002029152	1.010146691	7.073076576
00 07 30"	0.14142719	0.98994838	0.142865214	6.999604529	1.010153686	7.070676316

61 08° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
08° 08′ 00″	0.14147718	0.98994152	0.142914685	6.997181551	1.010160684	7.068277701
08° 08′ 10″	0.14152517	0.98993466	0.142964157	6.994760217	1.010167684	7.065880730
08° 08′ 20″	0.14157317	0.98992779	0.143013630	6.992340524	1.010174687	7.063485401
08° 08′ 30″	0.14162116	0.98992093	0.143063103	6.989922471	1.010181692	7.061091711
08° 08′ 40″	0.14166915	0.98991406	0.143112577	6.987506057	1.010188700	7.058699660
08° 08′ 50″	0.14171714	0.98990719	0.143162052	6.985091279	1.010195710	7.056309246
08° 09′ 00″	0.14176514	0.98990032	0.143211527	6.982678136	1.010202723	7.053920467
08° 09′ 10″	0.14181313	0.98989345	0.143261003	6.980266627	1.010209738	7.051533321
08° 09′ 20″	0.14186112	0.98988657	0.143310480	6.977856749	1.010216756	7.049147807
08° 09′ 30″	0.14190911	0.98987969	0.143359957	6.975448501	1.010223776	7.046763923
08° 09′ 40″	0.14195710	0.98987281	0.143409436	6.973041881	1.010230798	7.044381667
08° 09′ 50″	0.14200509	0.98986593	0.143458914	6.970636888	1.010237824	7.042001038
08° 10′ 00″	0.14205308	0.98985904	0.143508394	6.968233520	1.010244851	7.039622035
08° 10′ 10″	0.14210107	0.98985215	0.143557874	6.965831775	1.010251881	7.037244654
08° 10′ 20″	0.14214906	0.98984526	0.143607355	6.963431652	1.010258914	7.034868895
08° 10′ 30″	0.14219705	0.98983837	0.143656836	6.961033149	1.010265948	7.032494756
08° 10′ 40″	0.14224504	0.98983148	0.143706319	6.958636264	1.010272986	7.030122236
08° 10′ 50″	0.14229303	0.98982458	0.143755802	6.956240996	1.010280026	7.027751333
08° 11′ 00″	0.14234101	0.98981768	0.143805285	6.953847343	1.010287068	7.025382044
08° 11′ 10″	0.14238900	0.98981078	0.143854769	6.951455303	1.010294113	7.023014370
08° 11′ 20″	0.14243699	0.98980387	0.143904254	6.949064875	1.010301160	7.020648306
08° 11′ 30″	0.14248498	0.98979696	0.143953740	6.946676058	1.010308210	7.018283854
08° 11′ 40″	0.14253296	0.98979006	0.144003227	6.944288849	1.010315262	7.015921009
08° 11′ 50″	0.14258095	0.98978314	0.144052714	6.941903246	1.010322317	7.013559772
08° 12′ 00″	0.14262893	0.98977623	0.144102201	6.939519249	1.010329374	7.011200140
08° 12′ 10″	0.14267692	0.98976931	0.144151690	6.937136855	1.010336434	7.008842112
08° 12′ 20″	0.14272490	0.98976240	0.144201179	6.934756064	1.010343496	7.006485686
08° 12′ 30″	0.14277289	0.98975548	0.144250669	6.932376873	1.010350561	7.004130860
08° 12′ 40″	0.14282087	0.98974855	0.144300159	6.929999280	1.010357628	7.001777633
08° 12′ 50″	0.14286886	0.98974163	0.144349651	6.927623284	1.010364697	6.999426003
08° 13′ 00″	0.14291684	0.98973470	0.144399142	6.925248885	1.010371769	6.997075969
08° 13′ 10″	0.14296483	0.98972777	0.144448635	6.922876078	1.010378844	6.994727528
08° 13′ 20″	0.14301281	0.98972084	0.144498128	6.920504864	1.010385921	6.992380680
08° 13′ 30″	0.14306079	0.98971390	0.144547622	6.918135241	1.010393000	6.990035423
08° 13′ 40″	0.14310877	0.98970697	0.144597117	6.915767207	1.010400082	6.987691755
08° 13′ 50″ 08° 14′ 00″	0.14315676	0.98970003	0.144646612	6.913400760	1.010407167	6.985349674
	0.14320474	0.98969309	0.144696108	6.911035899	1.010414254	6.983009179
08° 14′ 10″	0.14325272	0.98968614	0.144745605	6.908672622	1.010421343	6.980670269
08° 14′ 20″	0.14330070	0.98967920	0.144795103	6.906310928	1.010428435	6.978332941
08° 14′ 30″ 08° 14′ 40″	0.14334868	0.98967225	0.144844601	6.903950815	1.010435529	6.975997194
08° 14′ 40″ 08° 14′ 50″	0.14339666	0.98966530 0.98965834	0.144894100	6.901592281 6.899235325	1.010442626	6.973663027
08° 15′ 00″	0.14344464 0.14349262	0.98965139	0.144943599 0.144993099	6.899235325	1.010449725 1.010456827	6.971330437 6.968999424
08° 15′ 10″	0.14349262	0.98963139	0.144993099	6.894526139	1.010456827	6.968999424
08° 15′ 10″ 08° 15′ 20″	0.14354060	0.98963747	0.145042600	6.892173907	1.010463931	6.964342120
08° 15′ 30″	0.14358656	0.98963051	0.145092102	6.889823246	1.010471038	6.962015826
08° 15′ 40″	0.14368454	0.98962354	0.145141604	6.887474155	1.010478147	6.959691102
08° 15′ 50″	0.14366434	0.98961657	0.145191107	6.885126633	1.010483237	6.957367947
=======================================	0.173/3232	0.70701037	0.143240011	0.003120033	1.0104/23/3	0.737307747

62 08° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	csc(x)
08° 16′ 00″	0.14378049	0.98960960	0.145290116	6.882780677	1.010499489	6.955046358
08° 16′ 10″	0.14382847	0.98960263	0.145339621	6.880436286	1.010506608	6.952726334
08° 16′ 20″	0.14387645	0.98959566	0.145389127	6.878093458	1.010513730	6.950407874
08° 16′ 30″	0.14392443	0.98958868	0.145438633	6.875752193	1.010520854	6.948090976
08° 16′ 40″	0.14397240	0.98958170	0.145488140	6.873412488	1.010527980	6.945775639
08° 16′ 50″	0.14402038	0.98957472	0.145537648	6.871074342	1.010535109	6.943461860
08° 17′ 00″	0.14406835	0.98956774	0.145587157	6.868737753	1.010542241	6.941149639
08° 17′ 10″	0.14411633	0.98956075	0.145636666	6.866402719	1.010549375	6.938838974
08° 17′ 20″	0.14416430	0.98955376	0.145686176	6.864069240	1.010556511	6.936529862
08° 17′ 30″	0.14421228	0.98954677	0.145735687	6.861737313	1.010563650	6.934222304
08° 17′ 40″	0.14426025	0.98953978	0.145785198	6.859406938	1.010570791	6.931916296
08° 17′ 50″	0.14430823	0.98953279	0.145834710	6.857078111	1.010577935	6.929611838
08° 18′ 00″	0.14435620	0.98952579	0.145884223	6.854750833	1.010585081	6.927308928
08° 18′ 10″	0.14440417	0.98951879	0.145933737	6.852425101	1.010592230	6.925007564
08° 18′ 20″	0.14445215	0.98951179	0.145983251	6.850100914	1.010599381	6.922707745
08° 18′ 30″	0.14450012	0.98950478	0.146032766	6.847778270	1.010606535	6.920409470
08° 18′ 40″	0.14454809	0.98949778	0.146082281	6.845457167	1.010613691	6.918112736
08° 18′ 50″	0.14459606	0.98949077	0.146131798	6.843137605	1.010620850	6.915817543
08° 19′ 00″	0.14464404	0.98948376	0.146181315	6.840819581	1.010628011	6.913523888
08° 19′ 10″	0.14469201	0.98947674	0.146230832	6.838503095	1.010635175	6.911231770
08° 19′ 20″	0.14473998	0.98946973	0.146280351	6.836188144	1.010642341	6.908941188
08° 19′ 30″	0.14478795	0.98946271	0.146329870	6.833874727	1.010649509	6.906652140
08° 19′ 40″	0.14483592	0.98945569	0.146379390	6.831562842	1.010656680	6.904364624
08° 19′ 50″	0.14488389	0.98944866	0.146428910	6.829252488	1.010663854	6.902078640
08° 20′ 00″	0.14493186	0.98944164	0.146478432	6.826943664	1.010671030	6.899794185
08° 20′ 10″	0.14497983	0.98943461	0.146527953	6.824636367	1.010678209	6.897511257
08° 20′ 20″	0.14502780	0.98942758	0.146577476	6.822330597	1.010685389	6.895229857
08° 20′ 30″	0.14507577	0.98942055	0.146626999	6.820026352	1.010692573	6.892949981
08° 20′ 40″	0.14512373	0.98941351	0.146676523	6.817723629	1.010699759	6.890671628
08° 20′ 50″	0.14517170	0.98940648	0.146726048	6.815422429	1.010706947	6.888394797
08° 21′ 00″	0.14521967	0.98939944	0.146775574	6.813122749	1.010714138	6.886119487
08° 21′ 10″	0.14526764	0.98939240	0.146825100	6.810824587	1.010721331	6.883845695
08° 21′ 20″	0.14531560	0.98938535	0.146874627	6.808527943	1.010728527	6.881573421
08° 21′ 30″	0.14536357	0.98937831	0.146924154	6.806232814	1.010735726	6.879302662
08° 21′ 40″	0.14541154	0.98937126	0.146973683	6.803939200	1.010742926	6.877033418
08° 21′ 50″	0.14545950	0.98936421	0.147023212	6.801647098	1.010750130	6.874765687
08° 22′ 00″	0.14550747	0.98935715	0.147072741	6.799356507	1.010757335	6.872499466
08° 22′ 10″	0.14555543	0.98935010	0.147122272	6.797067426	1.010764544	6.870234756
08° 22′ 20″	0.14560340	0.98934304	0.147171803	6.794779853	1.010771754	6.867971553
08° 22′ 30″	0.14565136	0.98933598	0.147221335	6.792493787	1.010778968	6.865709858
08° 22′ 40″	0.14569933	0.98932892	0.147270867	6.790209226	1.010786183	6.863449667
08° 22′ 50″	0.14574729	0.98932185	0.147320400	6.787926169	1.010793401	6.861190981
08° 23′ 00″	0.14579525	0.98931478	0.147369934	6.785644614	1.010800622	6.858933796
08° 23′ 10″	0.14584322	0.98930772	0.147419469	6.783364559	1.010807845	6.856678113
08° 23′ 20″	0.14589118	0.98930064	0.147469004	6.781086004	1.010815071	6.854423928
08° 23′ 30″	0.14593914	0.98929357	0.147518540	6.778808946	1.010822299	6.852171242
08° 23′ 40″	0.14598711	0.98928649	0.147568077	6.776533384	1.010829529	6.849920051
08° 23′ 50″	0.14603507	0.98927941	0.147617614	6.774259318	1.010836762	6.847670356

63 08° 23′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
8° 24′ 00″	0.14608303	0.98927233		6.771986744	1.010843998	
08° 24′ 10″	0.14608303	0.78727233	0.147667153 0.147716691	6.769715662	1.010851236	6.845422154 6.843175443
08° 24′ 10″	0.14617895	0.98925816	0.147716671		1.010851256	6.840930223
08° 24′ 30″	0.14617893			6.767446071		
08° 24′ 40″		0.98925108	0.147815771	6.765177968	1.010865719	6.838686492
08° 24′ 50″	0.14627487	0.98924399	0.147865312	6.762911353	1.010872965	6.836444249
08° 25′ 00″	0.14632283	0.98923689	0.147914854	6.760646223	1.010880213	6.834203491
08° 25′ 10″	0.14637079	0.98922980	0.147964397	6.758382578	1.010887463	6.831964217
08° 25′ 20″	0.14641875	0.98922270	0.148013940	6.756120416	1.010894716	6.829726427
08° 25′ 30″	0.14646671	0.98921560	0.148063484	6.753859735	1.010901971	6.827490118 6.825255290
08° 25′ 40″	0.14651467	0.98920850	0.148113028	6.751600534	1.010909229	
08° 25′ 50″	0.14656262	0.98920139	0.148162573	6.749342811	1.010916489	6.823021940
08° 26′ 00″	0.14661058 0.14665854	0.98919429 0.98918718	0.148212119 0.148261666	6.747086566	1.010923752 1.010931017	6.820790067 6.818559669
08° 26′ 10″				6.744831796		
08° 26′ 20″	0.14670650	0.98918007	0.148311214	6.742578501	1.010938285	6.816330746
08° 26′ 30″	0.14675445	0.98917295 0.98916584	0.148360762	6.740326678	1.010945555 1.010952828	6.814103296
08° 26′ 40″			0.148410311	6.738076326		6.811877317
08° 26′ 50″	0.14685036 0.14689832	0.98915872 0.98915160	0.148459860 0.148509410	6.735827444 6.733580031	1.010960103 1.010967381	6.809652808 6.807429767
08° 27′ 00″	0.14694628	0.98914447	0.148558961	6.731334084	1.010767361	6.805208193
08° 27′ 10″	0.14694628	0.98913735	0.148608513	6.729089603	1.010974661	6.802988085
08° 27′ 20″	0.14699423	0.78713733	0.148658065	6.726846585	1.010981944	6.800769440
08° 27′ 30″	0.14704219	0.98912309	0.148707619		1.010989229	6.798552259
08° 27′ 40″				6.724605031		
08° 27′ 50″	0.14713809 0.14718605	0.98911596 0.98910882	0.148757172 0.148806727	6.722364937 6.720126303	1.011003806 1.011011099	6.796336538 6.794122278
08° 28′ 00″	0.14718603	0.98910169	0.148856282	6.717889127	1.011011079	6.791909475
08° 28′ 10″	0.14723400	0.98909455	0.148905838	6.715653408	1.011018374	6.789698130
08° 28′ 20″	0.14728173	0.78707433	0.148755395	6.713419144	1.011023671	6.787488240
08° 28′ 30″	0.14737786	0.98908026	0.149004952	6.711186335	1.011032771	6.785279804
08° 28′ 40″	0.14742581	0.98907312	0.147004732	6.708954977	1.011040274	6.783072821
08° 28′ 50″	0.14747376	0.98906597	0.149104069	6.706725071	1.011054906	6.780867288
08° 29′ 00″	0.14747370	0.98905882	0.147104007	6.704496615	1.011062216	6.778663206
08° 29′ 10″	0.14756966	0.98905166	0.147133027	6.702269606	1.011062210	6.776460571
08° 29′ 20″	0.14761761	0.98904451	0.149252750	6.700044045	1.011076843	6.774259384
08° 29′ 30″	0.14766556	0.98903735	0.149302312	6.697819929	1.011084161	6.772059642
08° 29′ 40″	0.14771351	0.98903019	0.149351874	6.695597256	1.011091481	6.769861344
08° 29′ 50″	0.14776146	0.98902303	0.149401437	6.693376027	1.011098803	6.767664489
08° 30′ 00″	0.14780941	0.98901586	0.149451001	6.691156238	1.011106128	6.765469075
08° 30′ 10″	0.14785736	0.98900870	0.149500566	6.688937890	1.011113455	6.763275101
08° 30′ 20″	0.14790531	0.98900153	0.149550131	6.686720979	1.011120785	6.761082565
08° 30′ 30″	0.14795326	0.98899435	0.149599697	6.684505505	1.011128117	6.758891466
08° 30′ 40″	0.14800120	0.98898718	0.149649264	6.682291467	1.011135452	6.756701803
08° 30′ 50″	0.14804915	0.98898000	0.149698831	6.680078863	1.011142789	6.754513574
08° 31′ 00″	0.14809710	0.98897283	0.149748400	6.677867692	1.011150129	6.752326778
08° 31′ 10″	0.14814504	0.98896564	0.149797969	6.675657952	1.011157471	6.750141413
08° 31′ 20″	0.14819299	0.98895846	0.149847538	6.673449642	1.011164816	6.747957478
08° 31′ 30″	0.14824094	0.98895128	0.149897109	6.671242760	1.011172163	6.745774971
08° 31′ 40″	0.14828888	0.98894409	0.149946680	6.669037305	1.011179513	6.743593892
08° 31′ 50″	0.14833683	0.98893690	0.149996251	6.666833276	1.011186865	6.741414239
	1 311 1000000	3.7.0075070	211 1777 0201	3.000000 <u>2</u> 70		5,7 11 11 12 5 7

64 08° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
08° 32′ 00″	0.14838477	0.98892970	0.150045824	6.664630672	1.011194219	6.739236010
08° 32′ 10″	0.14843272	0.98892251	0.150095397	6.662429490	1.011201576	6.737059203
08° 32′ 20″	0.14848066	0.98891531	0.150144971	6.660229730	1.011208936	6.734883819
08° 32′ 30″	0.14852860	0.98890811	0.150194546	6.658031390	1.011216298	6.732709855
08° 32′ 40″	0.14857655	0.98890091	0.150244121	6.655834469	1.011223663	6.730537309
08° 32′ 50″	0.14862449	0.98889371	0.150293697	6.653638965	1.011231030	6.728366181
08° 33′ 00″	0.14867243	0.98888650	0.150343274	6.651444877	1.011238399	6.726196470
08° 33′ 10″	0.14872038	0.98887929	0.150392852	6.649252203	1.011245771	6.724028172
08° 33′ 20″	0.14876832	0.98887208	0.150442430	6.647060943	1.011253146	6.721861289
08° 33′ 30″	0.14881626	0.98886486	0.150492009	6.644871095	1.011260523	6.719695817
08° 33′ 40″	0.14886420	0.98885765	0.150541589	6.642682657	1.011267902	6.717531755
08° 33′ 50″	0.14891214	0.98885043	0.150591169	6.640495628	1.011275284	6.715369103
08° 34′ 00″	0.14896008	0.98884321	0.150640750	6.638310007	1.011282669	6.713207859
08° 34′ 10″	0.14900802	0.98883599	0.150690332	6.636125793	1.011290055	6.711048021
08° 34′ 20″	0.14905596	0.98882876	0.150739915	6.633942983	1.011297445	6.708889588
08° 34′ 30″	0.14910390	0.98882153	0.150789498	6.631761577	1.011304837	6.706732559
08° 34′ 40″	0.14915184	0.98881430	0.150839082	6.629581573	1.011312231	6.704576932
08° 34′ 50″	0.14919978	0.98880707	0.150888667	6.627402971	1.011319628	6.702422706
08° 35′ 00″	0.14924772	0.98879984	0.150938253	6.625225767	1.011327027	6.700269880
08° 35′ 10″	0.14929566	0.98879260	0.150987839	6.623049962	1.011334429	6.698118452
08° 35′ 20″	0.14934360	0.98878536	0.151037426	6.620875554	1.011341833	6.695968422
08° 35′ 30″	0.14939153	0.98877812	0.151087013	6.618702541	1.011349240	6.693819786
08° 35′ 40″	0.14943947	0.98877088	0.151136602	6.616530923	1.011356649	6.691672545
08° 35′ 50″	0.14948741	0.98876363	0.151186191	6.614360697	1.011364061	6.689526697
08° 36′ 00″	0.14953534	0.98875638	0.151235781	6.612191862	1.011371475	6.687382240
08° 36′ 10″	0.14958328	0.98874913	0.151285372	6.610024418	1.011378892	6.685239173
08° 36′ 20″	0.14963122	0.98874188	0.151334963	6.607858362	1.011386311	6.683097496
08° 36′ 30″	0.14967915	0.98873462	0.151384555	6.605693694	1.011393733	6.680957205
08° 36′ 40″	0.14972709	0.98872736	0.151434148	6.603530412	1.011401157	6.678818301
08° 36′ 50″	0.14977502	0.98872010	0.151483741	6.601368514	1.011408584	6.676680782
08° 37′ 00″	0.14982295	0.98871284	0.151533336	6.599208000	1.011416013	6.674544646
08° 37′ 10″	0.14987089	0.98870558	0.151582930	6.597048868	1.011423445	6.672409892
08° 37′ 20″	0.14991882	0.98869831	0.151632526	6.594891116	1.011430879	6.670276519
08° 37′ 30″	0.14996676	0.98869104	0.151682123	6.592734744	1.011438316	6.668144525
08° 37′ 40″	0.15001469	0.98868377	0.151731720	6.590579750	1.011445755	6.666013910
08° 37′ 50″	0.15006262	0.98867649	0.151781318	6.588426133	1.011453196	
08° 38′ 00″	0.15011055	0.98866922	0.151830916	6.586273891	1.011460640	6.661756808
08° 38′ 10″	0.15015849	0.98866194	0.151880516	6.584123023	1.011468087	6.659630318
08° 38′ 20″	0.15020642	0.98865466	0.151930116	6.581973527	1.011475536	6.657505202
08° 38′ 30″	0.15025435	0.98864737	0.151979717	6.579825403	1.011482988	6.655381457
08° 38′ 40″	0.15030228	0.98864009	0.152029318	6.577678650	1.011490442	6.653259082
08° 38′ 50″	0.15035021	0.98863280	0.152078920	6.575533264	1.011497898	6.651138076
08° 39′ 00″	0.15039814	0.98862551	0.152128523	6.573389247	1.011505357	6.649018438
08° 39′ 10″	0.15044607	0.98861822	0.152178127	6.571246595	1.011512819	6.646900166
08° 39′ 20″	0.15049400	0.98861092	0.152227732	6.569105308	1.011520283	6.644783258
08° 39′ 30″	0.15054193	0.98860363	0.152277337	6.566965385	1.011527749	6.642667715
08° 39′ 40″ 08° 39′ 50″	0.15058986	0.98859633	0.152326943	6.564826824	1.011535218	6.640553533
	0.15063778	0.98858902	0.152376549	6.562689623	1.011542690	6.638440713

65 08° 39′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
08° 40′ 00″	0.15068571	0.98858172	0.152426157	6.560553783	1.011550164	6.636329252
08° 40′ 10″	0.15073364	0.98857441	0.152475765	6.558419300	1.011557640	6.634219149
08° 40′ 20″	0.15078157	0.98856710	0.152525374	6.556286175	1.011565119	6.632110403
08° 40′ 30″	0.15082949	0.98855979	0.152574983	6.554154405	1.011572600	6.630003014
08° 40′ 40″	0.15087742	0.98855248	0.152624594	6.552023989	1.011580084	6.627896978
08° 40′ 50″	0.15092535	0.98854516	0.152674205	6.549894926	1.011587571	6.625792296
08° 41′ 00″	0.15097327	0.98853784	0.152723817	6.547767215	1.011595059	6.623688965
08° 41′ 10″	0.15102120	0.98853052	0.152773429	6.545640855	1.011602551	6.621586985
08° 41′ 20″	0.15106912	0.98852320	0.152823043	6.543515844	1.011610045	6.619486354
08° 41′ 30″	0.15111705	0.98851588	0.152872657	6.541392180	1.011617541	6.617387072
08° 41′ 40″	0.15116497	0.98850855	0.152922271	6.539269863	1.011625040	6.615289135
08° 41′ 50″	0.15121290	0.98850122	0.152971887	6.537148892	1.011632541	6.613192545
08° 42′ 00″	0.15126082	0.98849389	0.153021503	6.535029264	1.011640045	6.611097298
08° 42′ 10″	0.15130874	0.98848655	0.153071120	6.532910979	1.011647551	6.609003394
08° 42′ 20″	0.15135667	0.98847922	0.153120738	6.530794035	1.011655060	6.606910831
08° 42′ 30″	0.15140459	0.98847188	0.153170356	6.528678432	1.011662571	6.604819609
08° 42′ 40″	0.15145251	0.98846453	0.153219975	6.526564167	1.011670085	6.602729726
08° 42′ 50″	0.15150043	0.98845719	0.153269595	6.524451240	1.011677601	6.600641180
08° 43′ 00″	0.15154836	0.98844984	0.153319216	6.522339649	1.011685120	6.598553970
08° 43′ 10″	0.15159628	0.98844250	0.153368837	6.520229394	1.011692641	6.596468096
08° 43′ 20″	0.15164420	0.98843515	0.153418459	6.518120471	1.011700165	6.594383556
08° 43′ 30″	0.15169212	0.98842779	0.153468082	6.516012882	1.011707691	6.592300348
08° 43′ 40″	0.15174004	0.98842044	0.153517706	6.513906623	1.011715220	6.590218471
08° 43′ 50″	0.15178796	0.98841308	0.153567330	6.511801695	1.011722751	6.588137924
08° 44′ 00″	0.15183588	0.98840572	0.153616955	6.509698095	1.011730285	6.586058707
08° 44′ 10″	0.15188380	0.98839836	0.153666581	6.507595822	1.011737821	6.583980816
08° 44′ 20″	0.15193171	0.98839099	0.153716207	6.505494876	1.011745359	6.581904252
08° 44′ 30″	0.15197963	0.98838363	0.153765835	6.503395254	1.011752901	6.579829012
08° 44′ 40″	0.15202755	0.98837626	0.153815463	6.501296956	1.011760444	6.577755097
08° 44′ 50″	0.15207547	0.98836888	0.153865092	6.499199980	1.011767990	6.575682503
08° 45′ 00″	0.15212339	0.98836151	0.153914721	6.497104326	1.011775539	6.573611231
08° 45′ 10″	0.15217130	0.98835413	0.153964351	6.495009991	1.011783090	6.571541279
08° 45′ 20″	0.15221922	0.98834676	0.154013982	6.492916975	1.011790644	6.569472645
08° 45′ 30″	0.15226714	0.98833937	0.154063614	6.490825276	1.011798200	6.567405329
08° 45′ 40″	0.15231505	0.98833199	0.154113247	6.488734893	1.011805758	6.565339329
08° 45′ 50″	0.15236297	0.98832461	0.154162880	6.486645824	1.011813319	6.563274644
08° 46′ 00″	0.15241088	0.98831722	0.154212514	6.484558070	1.011820883	6.561211272
08° 46′ 10″	0.15245880	0.98830983	0.154262148	6.482471627	1.011828449	6.559149213
08° 46′ 20″	0.15250671	0.98830243	0.154311784	6.480386496	1.011836018	6.557088465
08° 46′ 30″	0.15255463	0.98829504	0.154361420	6.478302674	1.011843589	6.555029027
08° 46′ 40″	0.15260254	0.98828764	0.154411057	6.476220161	1.011851162	6.552970897
08° 46′ 50″ 08° 47′ 00″	0.15265045	0.98828024	0.154460695	6.474138956	1.011858738	6.550914075
08° 47′ 10″	0.15269837 0.15274628	0.98827284	0.154510333	6.472059056 6.469980461	1.011866317	6.548858559
08° 47′ 10″ 08° 47′ 20″	0.15274628	0.98826544	0.154559972 0.154609612		1.011873898	6.546804348
08° 47′ 30″		0.98825803		6.467903170 6.465827181	1.011881481	6.544751440
08° 47′ 40″	0.15284210 0.15289001	0.98825062 0.98824321	0.154659253 0.154708894	6.463827181	1.011889067 1.011896656	6.542699835 6.540649532
08° 47′ 50″	0.15293793	0.78823580	0.154708874	6.463732473	1.011904247	6.538600528
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66 08° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
08° 48′ 00″	0.15298584	0.98822838	0.154808179	6.459607016	1.011911840	6.536552823
08° 48′ 10″	0.15303375	0.98822096	0.154857823	6.457536224	1.011919436	6.534506415
08° 48′ 20″	0.15308166	0.98821354	0.154907467	6.455466729	1.011927035	6.532461304
08° 48′ 30″	0.15312957	0.98820612	0.154957112	6.453398528	1.011934636	6.530417488
08° 48′ 40″	0.15317748	0.98819870	0.155006758	6.451331621	1.011942239	6.528374965
08° 48′ 50″	0.15322539	0.98819127	0.155056405	6.449266007	1.011949845	6.526333736
08° 49′ 00″	0.15327329	0.98818384	0.155106052	6.447201684	1.011957453	6.524293797
08° 49′ 10″	0.15332120	0.98817641	0.155155700	6.445138651	1.011965064	6.522255149
08° 49′ 20″	0.15336911	0.98816897	0.155205349	6.443076907	1.011972678	6.520217790
08° 49′ 30″	0.15341702	0.98816153	0.155254999	6.441016451	1.011980294	6.518181719
08° 49′ 40″	0.15346492	0.98815410	0.155304649	6.438957281	1.011987912	6.516146934
08° 49′ 50″	0.15351283	0.98814665	0.155354300	6.436899396	1.011995533	6.514113434
08° 50′ 00″	0.15356074	0.98813921	0.155403952	6.434842795	1.012003156	6.512081219
08° 50′ 10″	0.15360864	0.98813176	0.155453604	6.432787477	1.012010782	6.510050286
08° 50′ 20″	0.15365655	0.98812432	0.155503258	6.430733441	1.012018410	6.508020635
08° 50′ 30″	0.15370446	0.98811687	0.155552912	6.428680685	1.012026041	6.505992265
08° 50′ 40″	0.15375236	0.98810941	0.155602567	6.426629208	1.012033675	6.503965173
08° 50′ 50″	0.15380027	0.98810196	0.155652222	6.424579009	1.012041311	6.501939360
08° 51′ 00″	0.15384817	0.98809450	0.155701879	6.422530087	1.012048949	6.499914824
08° 51′ 10″	0.15389607	0.98808704	0.155751536	6.420482441	1.012056590	6.497891563
08° 51′ 20″	0.15394398	0.98807958	0.155801194	6.418436068	1.012064233	6.495869577
08° 51′ 30″	0.15399188	0.98807211	0.155850852	6.416390969	1.012071879	6.493848864
08° 51′ 40″	0.15403978	0.98806465	0.155900511	6.414347142	1.012079527	6.491829423
08° 51′ 50″	0.15408769	0.98805718	0.155950172	6.412304586	1.012087178	6.489811253
08° 52′ 00″	0.15413559	0.98804971	0.155999832	6.410263299	1.012094831	6.487794353
08° 52′ 10″	0.15418349	0.98804223	0.156049494	6.408223281	1.012102487	6.485778721
08° 52′ 20″	0.15423139	0.98803476	0.156099156	6.406184530	1.012110145	6.483764356
08° 52′ 30″	0.15427929	0.98802728	0.156148819	6.404147045	1.012117806	6.481751258
08° 52′ 40″	0.15432719	0.98801980	0.156198483	6.402110824	1.012125470	6.479739424
08° 52′ 50″	0.15437509	0.98801231	0.156248148	6.400075868	1.012133135	6.477728854
08° 53′ 00″	0.15442299	0.98800483	0.156297813	6.398042173	1.012140804	6.475719547
08° 53′ 10″	0.15447089	0.98799734	0.156347479	6.396009740	1.012148474	6.473711501
08° 53′ 20″	0.15451879	0.98798985	0.156397146	6.393978567	1.012156148	6.471704715
08° 53′ 30″	0.15456669	0.98798236	0.156446814	6.391948653	1.012163823	6.469699188
08° 53′ 40″	0.15461459	0.98797486	0.156496482	6.389919997	1.012171502	6.467694919
08° 53′ 50″	0.15466249	0.98796737	0.156546151	6.387892597	1.012179182	6.465691907
08° 54′ 00″	0.15471039	0.98795987	0.156595821	6.385866453	1.012186866	6.463690150
08° 54′ 10″	0.15475828	0.98795236	0.156645492	6.383841563	1.012194551	6.461689647
08° 54′ 20″	0.15480618	0.98794486	0.156695163	6.381817925	1.012202240	6.459690397
08° 54′ 30″	0.15485408	0.98793735	0.156744835	6.379795540	1.012209930	6.457692400
08° 54′ 40″	0.15490197	0.98792984	0.156794508	6.377774405	1.012217624	6.455695653
08° 54′ 50″	0.15494987	0.98792233	0.156844182	6.375754520	1.012225319	6.453700156
08° 55′ 00″	0.15499777	0.98791482	0.156893856	6.373735883	1.012233018	6.451705907
08° 55′ 10″	0.15504566	0.98790730	0.156943531	6.371718493	1.012240718	6.449712905
08° 55′ 20″	0.15509356	0.98789979	0.156993207	6.369702349	1.012248422	6.447721149
08° 55′ 30″	0.15514145	0.98789227	0.157042884	6.367687450	1.012256127	6.445730639
08° 55′ 40″	0.15518934	0.98788474	0.157092561	6.365673795	1.012263836	6.443741372
08° 55′ 50″	0.15523724	0.98787722	0.157142239	6.363661382	1.012271546	6.441753348

67 08° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
08° 56′ 00″	0.15528513	0.98786969	0.157191918	6.361650211	1.012279259	6.439766565
08° 56′ 10″	0.15533302	0.98786216	0.157241598	6.359640280	1.012286975	6.437781022
08° 56′ 20″	0.15538092	0.98785463	0.157291278	6.357631588	1.012294693	6.435796719
08° 56′ 30″	0.15542881	0.98784710	0.157340960	6.355624133	1.012302414	6.433813653
08° 56′ 40″	0.15547670	0.98783956	0.157390642	6.353617916	1.012310137	6.431831825
08° 56′ 50″	0.15552459	0.98783202	0.157440324	6.351612934	1.012317863	6.429851232
08° 57′ 00″	0.15557248	0.98782448	0.157490008	6.349609186	1.012325591	6.427871873
08° 57′ 10″	0.15562038	0.98781694	0.157539692	6.347606672	1.012333322	6.425893748
08° 57′ 20″	0.15566827	0.98780939	0.157589377	6.345605390	1.012341055	6.423916855
08° 57′ 30″	0.15571616	0.98780184	0.157639063	6.343605339	1.012348791	6.421941194
08° 57′ 40″	0.15576405	0.98779429	0.157688749	6.341606518	1.012356529	6.419966762
08° 57′ 50″	0.15581194	0.98778674	0.157738437	6.339608925	1.012364270	6.417993559
08° 58′ 00″	0.15585982	0.98777918	0.157788125	6.337612560	1.012372013	6.416021583
08° 58′ 10″	0.15590771	0.98777163	0.157837813	6.335617421	1.012379758	6.414050835
08° 58′ 20″	0.15595560	0.98776407	0.157887503	6.333623508	1.012387507	6.412081311
08° 58′ 30″	0.15600349	0.98775650	0.157937193	6.331630819	1.012395257	6.410113012
08° 58′ 40″	0.15605138	0.98774894	0.157986884	6.329639352	1.012403010	6.408145936
08° 58′ 50″	0.15609926	0.98774137	0.158036576	6.327649108	1.012410766	6.406180081
08° 59′ 00″	0.15614715	0.98773380	0.158086269	6.325660084	1.012418524	6.404215448
08° 59′ 10″	0.15619504	0.98772623	0.158135962	6.323672280	1.012426285	6.402252034
08° 59′ 20″	0.15624292	0.98771866	0.158185656	6.321685695	1.012434048	6.400289839
08° 59′ 30″	0.15629081	0.98771108	0.158235351	6.319700327	1.012441814	6.398328861
08° 59′ 40″	0.15633870	0.98770350	0.158285047	6.317716175	1.012449582	6.396369100
08° 59′ 50″	0.15638658	0.98769592	0.158334743	6.315733238	1.012457353	6.394410554
09° 00′ 00″	0.15643447	0.98768834	0.158384440	6.313751515	1.012465126	6.392453221
09° 00′ 10″	0.15648235	0.98768076	0.158434138	6.311771005	1.012472901	6.390497102
09° 00′ 20″	0.15653023	0.98767317	0.158483837	6.309791706	1.012480680	6.388542195
09° 00′ 30″	0.15657812	0.98766558	0.158533536	6.307813618	1.012488460	6.386588498
09° 00′ 40″	0.15662600	0.98765799	0.158583237	6.305836740	1.012496243	6.384636011
09° 00′ 50″	0.15667388	0.98765039	0.158632938	6.303861070	1.012504029	6.382684732
09° 01′ 00″	0.15672177	0.98764279	0.158682639	6.301886607	1.012511817	6.380734661
09° 01′ 10″	0.15676965	0.98763519	0.158732342	6.299913351	1.012519608	6.378785796
09° 01′ 20″	0.15681753	0.98762759	0.158782045	6.297941299	1.012527401	6.376838135
09° 01′ 30″	0.15686541	0.98761999	0.158831749	6.295970451	1.012535197	6.374891679
09° 01′ 40″	0.15691329	0.98761238	0.158881454	6.294000806	1.012542995	6.372946426
09° 01′ 50″	0.15696117	0.98760477	0.158931160	6.292032363	1.012550796	
09° 02′ 00″	0.15700905	0.98759716	0.158980866	6.290065120	1.012558599	6.369059524
09° 02′ 10″	0.15705693	0.98758955	0.159030573	6.288099077	1.012566404	6.367117873
09° 02′ 20″	0.15710481	0.98758193	0.159080281	6.286134232	1.012574212	6.365177420
09° 02′ 30″	0.15715269	0.98757432	0.159129990	6.284170585	1.012582023	6.363238164
09° 02′ 40″	0.15720057	0.98756670	0.159179699	6.282208133	1.012589836	6.361300105
09° 02′ 50″	0.15724845	0.98755907	0.159229409	6.280246877	1.012597652	6.359363241
09° 03′ 00″	0.15729633	0.98755145	0.159279120	6.278286814	1.012605470	6.357427571
09° 03′ 10″	0.15734420	0.98754382	0.159328832	6.276327945	1.012613291	6.355493094
09° 03′ 20″	0.15739208	0.98753619	0.159378544	6.274370267	1.012621114	6.353559809
09° 03′ 30″	0.15743996	0.98752856	0.159428258	6.272413779	1.012628940	6.351627714
09° 03′ 40″ 09° 03′ 50″	0.15748783	0.98752093	0.159477972	6.270458482	1.012636768	6.349696809
	0.15753571	0.98751329	0.159527686	6.268504372	1.012644598	6.347767093

68 09° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
09° 04′ 00″	0.15758359	0.98750565	0.159577402	6.266551451	1.012652432	6.345838564
09° 04′ 10″	0.15763146	0.98749801	0.159627118	6.264599715	1.012660267	6.343911222
09° 04′ 20″	0.15767934	0.98749037	0.159676835	6.262649165	1.012668105	6.341985064
09° 04′ 30″	0.15772721	0.98748272	0.159726553	6.260699798	1.012675946	6.340060091
09° 04′ 40″	0.15777509	0.98747507	0.159776272	6.258751615	1.012683789	6.338136302
09° 04′ 50″	0.15782296	0.98746742	0.159825991	6.256804614	1.012691635	6.336213694
09° 05′ 00″	0.15787083	0.98745977	0.159875712	6.254858793	1.012699483	6.334292267
09° 05′ 10″	0.15791871	0.98745212	0.159925432	6.252914152	1.012707334	6.332372020
09° 05′ 20″	0.15796658	0.98744446	0.159975154	6.250970690	1.012715187	6.330452951
09° 05′ 30″	0.15801445	0.98743680	0.160024877	6.249028406	1.012723043	6.328535061
09° 05′ 40″	0.15806232	0.98742914	0.160074600	6.247087298	1.012730901	6.326618347
09° 05′ 50″	0.15811020	0.98742147	0.160124324	6.245147365	1.012738762	6.324702808
09° 06′ 00″	0.15815807	0.98741381	0.160174049	6.243208607	1.012746625	6.322788444
09° 06′ 10″	0.15820594	0.98740614	0.160223774	6.241271022	1.012754490	6.320875254
09° 06′ 20″	0.15825381	0.98739847	0.160273501	6.239334609	1.012762359	6.318963235
09° 06′ 30″	0.15830168	0.98739079	0.160323228	6.237399368	1.012770229	6.317052388
09° 06′ 40″	0.15834955	0.98738312	0.160372956	6.235465296	1.012778103	6.315142711
09° 06′ 50″	0.15839742	0.98737544	0.160422684	6.233532394	1.012785978	6.313234203
09° 07′ 00″	0.15844529	0.98736776	0.160472414	6.231600660	1.012793856	6.311326864
09° 07′ 10″	0.15849316	0.98736008	0.160522144	6.229670092	1.012801737	6.309420691
09° 07′ 20″	0.15854102	0.98735239	0.160571875	6.227740690	1.012809620	6.307515684
09° 07′ 30″	0.15858889	0.98734470	0.160621607	6.225812453	1.012817506	6.305611842
09° 07′ 40″	0.15863676	0.98733701	0.160671339	6.223885379	1.012825394	6.303709163
09° 07′ 50″	0.15868463	0.98732932	0.160721073	6.221959469	1.012833285	6.301807648
09° 08′ 00″	0.15873249	0.98732163	0.160770807	6.220034719	1.012841178	6.299907294
09° 08′ 10″	0.15878036	0.98731393	0.160820542	6.218111131	1.012849074	6.298008100
09° 08′ 20″	0.15882823	0.98730623	0.160870277	6.216188701	1.012856972	6.296110066
09° 08′ 30″	0.15887609	0.98729853	0.160920014	6.214267430	1.012864873	6.294213191
09° 08′ 40″	0.15892396	0.98729083	0.160969751	6.212347316	1.012872776	6.292317473
09° 08′ 50″	0.15897182	0.98728312	0.161019489	6.210428359	1.012880682	6.290422911
09° 09′ 00″	0.15901969	0.98727541	0.161069228	6.208510557	1.012888590	6.288529505
09° 09′ 10″	0.15906755	0.98726770	0.161118967	6.206593909	1.012896501	6.286637253
09° 09′ 20″	0.15911542	0.98725999	0.161168707	6.204678414	1.012904414	6.284746154
09° 09′ 30″	0.15916328	0.98725227	0.161218449	6.202764071	1.012912330	6.282856207
09° 09′ 40″	0.15921114	0.98724456	0.161268190	6.200850879	1.012920248	6.280967412
09° 09′ 50″	0.15925901	0.98723684	0.161317933	6.198938837	1.012928169	6.279079766
09° 10′ 00″	0.15930687	0.98722911	0.161367676	6.197027944	1.012936092	6.277193269
09° 10′ 10″	0.15935473	0.98722139	0.161417421	6.195118199	1.012944018	6.275307921
09° 10′ 20″	0.15940259	0.98721366	0.161467166	6.193209601	1.012951946	6.273423719
09° 10′ 30″ 09° 10′ 40″	0.15945045	0.98720593	0.161516911	6.191302148	1.012959877	6.271540663
09° 10′ 40″ 09° 10′ 50″	0.15949831	0.98719820	0.161566658 0.161616405	6.189395841	1.012967810	6.269658752
09° 10′ 50″ 09° 11′ 00″	0.15954617	0.98719047 0.98718273		6.187490677	1.012975746	6.267777985 6.265898361
09° 11′ 00″ 09° 11′ 10″	0.15959403	0.98718273	0.161666153 0.161715902	6.185586655 6.183683775	1.012983685 1.012991625	6.263898361
09° 11′ 10″ 09° 11′ 20″	0.15964189	0.98717499	0.161715902	6.183683775	1.012991625	6.264019878
09° 11′ 30″	0.15968975	0.98715951	0.161765652	6.181782036	1.012999369	6.262142336
09° 11′ 40″	0.15973761	0.98715176	0.161865153	6.177981976	1.013007514	6.258391270
09° 11′ 50″	0.15983333	0.98713176	0.161665155	6.176083652	1.013013463	6.256517344
=======================================	0.13/03333	0.70/14402	0.101/14703	0.170003032	1.013043414	0,23031/344

69 09° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
09° 12′ 00″	0.15988119	0.98713627	0.161964658	6.174186465	1.013031367	6.254644555
09° 12′ 10″	0.15992905	0.98712851	0.162014412	6.172290413	1.013039323	6.252772901
09° 12′ 20″	0.15997690	0.98712076	0.162064166	6.170395496	1.013047281	6.250902381
09° 12′ 30″	0.16002476	0.98711300	0.162113921	6.168501712	1.013055242	6.249032995
09° 12′ 40″	0.16007262	0.98710524	0.162163677	6.166609061	1.013063205	6.247164742
09° 12′ 50″	0.16012047	0.98709748	0.162213434	6.164717541	1.013071171	6.245297620
09° 13′ 00″	0.16016833	0.98708972	0.162263191	6.162827151	1.013079140	6.243431628
09° 13′ 10″	0.16021618	0.98708195	0.162312949	6.160937891	1.013087111	6.241566766
09° 13′ 20″	0.16026404	0.98707418	0.162362708	6.159049758	1.013095084	6.239703032
09° 13′ 30″	0.16031189	0.98706641	0.162412468	6.157162753	1.013103060	6.237840425
09° 13′ 40″	0.16035975	0.98705864	0.162462229	6.155276875	1.013111038	6.235978945
09° 13′ 50″	0.16040760	0.98705086	0.162511990	6.153392121	1.013119019	6.234118590
09° 14′ 00″	0.16045545	0.98704308	0.162561752	6.151508492	1.013127003	6.232259359
09° 14′ 10″	0.16050331	0.98703530	0.162611515	6.149625986	1.013134988	6.230401252
09° 14′ 20″	0.16055116	0.98702752	0.162661279	6.147744602	1.013142977	6.228544267
09° 14′ 30″	0.16059901	0.98701974	0.162711044	6.145864339	1.013150968	6.226688403
09° 14′ 40″	0.16064686	0.98701195	0.162760809	6.143985196	1.013158961	6.224833660
09° 14′ 50″	0.16069471	0.98700416	0.162810575	6.142107173	1.013166957	6.222980035
09° 15′ 00″	0.16074257	0.98699637	0.162860342	6.140230267	1.013174956	6.221127529
09° 15′ 10″	0.16079042	0.98698857	0.162910109	6.138354479	1.013182957	6.219276140
09° 15′ 20″	0.16083827	0.98698078	0.162959878	6.136479807	1.013190960	6.217425868
09° 15′ 30″	0.16088612	0.98697298	0.163009647	6.134606250	1.013198966	6.215576710
09° 15′ 40″	0.16093397	0.98696518	0.163059417	6.132733807	1.013206975	6.213728667
09° 15′ 50″	0.16098182	0.98695737	0.163109188	6.130862477	1.013214986	6.211881737
09° 16′ 00″	0.16102966	0.98694957	0.163158960	6.128992260	1.013222999	6.210035919
09° 16′ 10″	0.16107751	0.98694176	0.163208732	6.127123153	1.013231015	6.208191213
09° 16′ 20″	0.16112536	0.98693395	0.163258505	6.125255156	1.013239034	6.206347616
09° 16′ 30″	0.16117321	0.98692614	0.163308279	6.123388269	1.013247055	6.204505129
09° 16′ 40″	0.16122106	0.98691832	0.163358054	6.121522490	1.013255078	6.202663750
09° 16′ 50″	0.16126890	0.98691050	0.163407829	6.119657818	1.013263104	6.200823478
09° 17′ 00″	0.16131675	0.98690268	0.163457606	6.117794252	1.013271133	6.198984313
09° 17′ 10″	0.16136460	0.98689486	0.163507383	6.115931791	1.013279164	6.197146252
09° 17′ 20″	0.16141244	0.98688704	0.163557161	6.114070434	1.013287198	6.195309296
09° 17′ 30″	0.16146029	0.98687921	0.163606939	6.112210181	1.013295234	6.193473443
09° 17′ 40″		0.98687138	0.163656719	6.110351029	1.013303272	6.191638693
09° 17′ 50″ 09° 18′ 00″	0.16155598	0.98686355	0.163706499	6.108492979	1.013311313	6.189805044
09° 18′ 10″	0.16160382	0.98685572 0.98684788	0.163756280 0.163806062	6.106636029	1.013319357	6.187972495
09° 18′ 10″	0.16165167			6.104780178	1.013327403	6.186141045
09° 18′ 30″	0.16169951	0.98684004 0.98683220	0.163855845 0.163905628	6.102925426 6.101071770	1.013335452 1.013343503	6.184310693 6.182481439
09° 18′ 40″	0.16174733	0.98682436	0.163703626	6.099219211	1.013343303	6.180653282
09° 18′ 50″	0.16174314	0.98681651	0.163933412	6.097367748	1.013351337	6.178826219
09° 19′ 00″	0.16189088	0.98680867	0.164005197	6.095517378	1.013337613	6.177000251
09° 19′ 10″	0.16193872	0.78680887	0.164104770	6.073517378	1.013367671	6.175175377
09° 19′ 20″	0.16173672	0.78680082	0.164154557	6.091819918	1.013373733	6.173173377
09° 19′ 30″	0.16203440	0.78677276	0.164204345	6.089972825	1.013383776	6.173531373
09° 19′ 40″	0.16203440	0.98677725	0.164254134	6.088126823	1.013371802	6.169707304
09° 19′ 50″	0.16213008	0.98676939	0.164303924	6.086281911	1.013408002	6.167886793
	3.10213000	2.70070737	5.10 130372 1	3.000201711		2,107,0007,73

70 09° 19′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
09° 20′ 00″	0.16217792	0.98676153	0.164353714	6.084438086	1.013416076	6.166067371
09° 20′ 10″	0.16222576	0.98675367	0.164403506	6.082595350	1.013424152	6.164249037
09° 20′ 20″	0.16227360	0.98674580	0.164453298	6.080753699	1.013432231	6.162431789
09° 20′ 30″	0.16232144	0.98673793	0.164503091	6.078913135	1.013440312	6.160615626
09° 20′ 40″	0.16236928	0.98673006	0.164552885	6.077073654	1.013448396	6.158800549
09° 20′ 50″	0.16241712	0.98672219	0.164602679	6.075235258	1.013456483	6.156986555
09° 21′ 00″	0.16246495	0.98671431	0.164652474	6.073397944	1.013464571	6.155173644
09° 21′ 10″	0.16251279	0.98670644	0.164702271	6.071561711	1.013472663	6.153361814
09° 21′ 20″	0.16256063	0.98669856	0.164752068	6.069726560	1.013480756	6.151551065
09° 21′ 30″	0.16260846	0.98669067	0.164801865	6.067892488	1.013488853	6.149741397
09° 21′ 40″	0.16265630	0.98668279	0.164851664	6.066059495	1.013496952	6.147932807
09° 21′ 50″	0.16270414	0.98667490	0.164901463	6.064227579	1.013505053	6.146125294
09° 22′ 00″	0.16275197	0.98666701	0.164951263	6.062396741	1.013513157	6.144318859
09° 22′ 10″	0.16279980	0.98665912	0.165001064	6.060566978	1.013521263	6.142513500
09° 22′ 20″	0.16284764	0.98665123	0.165050866	6.058738291	1.013529372	6.140709216
09° 22′ 30″	0.16289547	0.98664333	0.165100668	6.056910677	1.013537484	6.138906006
09° 22′ 40″	0.16294331	0.98663543	0.165150471	6.055084137	1.013545598	6.137103869
09° 22′ 50″	0.16299114	0.98662753	0.165200276	6.053258668	1.013553714	6.135302805
09° 23′ 00″	0.16303897	0.98661963	0.165250080	6.051434271	1.013561833	6.133502811
09° 23′ 10″	0.16308681	0.98661172	0.165299886	6.049610944	1.013569954	6.131703888
09° 23′ 20″	0.16313464	0.98660382	0.165349693	6.047788686	1.013578078	6.129906034
09° 23′ 30″	0.16318247	0.98659591	0.165399500	6.045967496	1.013586205	6.128109249
09° 23′ 40″	0.16323030	0.98658799	0.165449308	6.044147374	1.013594334	6.126313531
09° 23′ 50″	0.16327813	0.98658008	0.165499117	6.042328318	1.013602465	6.124518879
09° 24′ 00″	0.16332596	0.98657216	0.165548926	6.040510327	1.013610599	6.122725293
09° 24′ 10″	0.16337379	0.98656424	0.165598737	6.038693401	1.013618736	6.120932771
09° 24′ 20″	0.16342162	0.98655632	0.165648548	6.036877539	1.013626875	6.119141314
09° 24′ 30″	0.16346945	0.98654840	0.165698360	6.035062739	1.013635016	6.117350918
09° 24′ 40″	0.16351728	0.98654047	0.165748173	6.033249000	1.013643161	6.115561585
09° 24′ 50″	0.16356511	0.98653254	0.165797987	6.031436323	1.013651307	6.113773313
09° 25′ 00″	0.16361294	0.98652461	0.165847801	6.029624705	1.013659456	6.111986100
09° 25′ 10″	0.16366077	0.98651668	0.165897617	6.027814146	1.013667608	6.110199946
09° 25′ 20″	0.16370859	0.98650874	0.165947433	6.026004645	1.013675762	6.108414851
09° 25′ 30″	0.16375642	0.98650080	0.165997250	6.024196202	1.013683919	6.106630812
09° 25′ 40″	0.16380425	0.98649286	0.166047067	6.022388814	1.013692078	6.104847830
09° 25′ 50″	0.16385207	0.98648492	0.166096886	6.020582481	1.013700239	6.103065902
09° 26′ 00″	0.16389990	0.98647698	0.166146705	6.018777202	1.013708404	6.101285029
09° 26′ 10″	0.16394772	0.98646903	0.166196525	6.016972977	1.013716570	6.099505210
09° 26′ 20″	0.16399555	0.98646108	0.166246346	6.015169804	1.013724740	6.097726443
09° 26′ 30″	0.16404337	0.98645313	0.166296168	6.013367682	1.013732911	6.095948727
09° 26′ 40″	0.16409120	0.98644517	0.166345990	6.011566611	1.013741085	6.094172062
09° 26′ 50″	0.16413902	0.98643722	0.166395813	6.009766589	1.013749262	6.092396446
09° 27′ 00″	0.16418685	0.98642926	0.166445638	6.007967616	1.013757442	6.090621879
09° 27′ 10″	0.16423467	0.98642130	0.166495462	6.006169691	1.013765623	6.088848360
09° 27′ 20″	0.16428249	0.98641333	0.166545288	6.004372812	1.013773808	6.087075888
09° 27′ 30″	0.16433032	0.98640537	0.166595115	6.002576979	1.013781994	6.085304462
09° 27′ 40″	0.16437814	0.98639740	0.166644942	6.000782191	1.013790184	6.083534081
09° 27′ 50″	0.16442596	0.98638943	0.166694770	5.998988448	1.013798376	6.081764743

71 09° 27′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
09° 28′ 00″	0.16447378	0.98638146	0.166744599	5.997195747	1.013806570	6.079996449
09° 28′ 10″	0.16452160	0.98637348	0.166794429	5.995404088	1.013814767	6.078229198
09° 28′ 20″	0.16456942	0.98636550	0.166844259	5.993613471	1.013822966	6.076462987
09° 28′ 30″	0.16461724	0.98635752	0.166894091	5.991823894	1.013831168	6.074697817
09° 28′ 40″	0.16466506	0.98634954	0.166943923	5.990035356	1.013839373	6.072933687
09° 28′ 50″	0.16471288	0.98634156	0.166993756	5.988247857	1.013847580	6.071170595
09° 29′ 00″	0.16476070	0.98633357	0.167043590	5.986461395	1.013855789	6.069408541
09° 29′ 10″	0.16480852	0.98632558	0.167093424	5.984675971	1.013864001	6.067647524
09° 29′ 20″	0.16485634	0.98631759	0.167143259	5.982891581	1.013872215	6.065887542
09° 29′ 30″	0.16490415	0.98630960	0.167193096	5.981108227	1.013880432	6.064128596
09° 29′ 40″	0.16495197	0.98630160	0.167242933	5.979325907	1.013888652	6.062370683
09° 29′ 50″	0.16499979	0.98629360	0.167292770	5.977544620	1.013896874	6.060613804
09° 30′ 00″	0.16504761	0.98628560	0.167342609	5.975764364	1.013905099	6.058857957
09° 30′ 10″	0.16509542	0.98627760	0.167392449	5.973985141	1.013913326	6.057103141
09° 30′ 20″	0.16514324	0.98626959	0.167442289	5.972206947	1.013921555	6.055349355
09° 30′ 30″	0.16519105	0.98626159	0.167492130	5.970429783	1.013929787	6.053596600
09° 30′ 40″	0.16523887	0.98625358	0.167541972	5.968653647	1.013938022	6.051844872
09° 30′ 50″	0.16528668	0.98624556	0.167591814	5.966878539	1.013946259	6.050094173
09° 31′ 00″	0.16533450	0.98623755	0.167641658	5.965104458	1.013954499	6.048344500
09° 31′ 10″	0.16538231	0.98622953	0.167691502	5.963331402	1.013962741	6.046595853
09° 31′ 20″	0.16543013	0.98622151	0.167741347	5.961559372	1.013970986	6.044848232
09° 31′ 30″	0.16547794	0.98621349	0.167791193	5.959788365	1.013979233	6.043101634
09° 31′ 40″	0.16552575	0.98620547	0.167841040	5.958018382	1.013987482	6.041356059
09° 31′ 50″	0.16557356	0.98619744	0.167890887	5.956249421	1.013995735	6.039611507
09° 32′ 00″	0.16562138	0.98618941	0.167940736	5.954481481	1.014003989	6.037867977
09° 32′ 10″	0.16566919	0.98618138	0.167990585	5.952714561	1.014012247	6.036125467
09° 32′ 20″	0.16571700	0.98617335	0.168040435	5.950948661	1.014020507	6.034383976
09° 32′ 30″	0.16576481	0.98616531	0.168090285	5.949183780	1.014028769	6.032643504
09° 32′ 40″	0.16581262	0.98615728	0.168140137	5.947419917	1.014037034	6.030904051
09° 32′ 50″	0.16586043	0.98614924	0.168189989	5.945657070	1.014045301	6.029165614
09° 33′ 00″	0.16590824	0.98614119	0.168239843	5.943895240	1.014053571	6.027428193
09° 33′ 10″	0.16595605	0.98613315	0.168289697	5.942134425	1.014061843	6.025691788
09° 33′ 20″	0.16600386	0.98612510	0.168339552	5.940374623	1.014070118	6.023956396
09° 33′ 30″	0.16605167	0.98611705	0.168389407	5.938615836	1.014078396	6.022222019
09° 33′ 40″	0.16609947	0.98610900	0.168439264	5.936858060	1.014086676	6.020488653
09° 33′ 50″	0.16614728	0.98610095	0.168489121	5.935101296	1.014094958	6.018756300
09° 34′ 00″	0.16619509	0.98609289	0.168538979	5.933345543	1.014103243	6.017024957
09° 34′ 10″	0.16624290	0.98608483	0.168588838	5.931590800	1.014111530	6.015294624
09° 34′ 20″	0.16629070	0.98607677	0.168638698	5.929837066	1.014119821	6.013565301
09° 34′ 30″	0.16633851	0.98606871	0.168688558	5.928084339	1.014128113	6.011836985
09° 34′ 40″	0.16638631	0.98606064	0.168738420	5.926332620	1.014136408	6.010109677
09° 34′ 50″	0.16643412	0.98605258	0.168788282	5.924581908	1.014144706	6.008383375
09° 35′ 00″	0.16648193	0.98604451	0.168838145	5.922832200	1.014153006	6.006658079
09° 35′ 10″	0.16652973	0.98603643	0.168888008	5.921083498	1.014161308	6.004933787
09° 35′ 20″	0.16657753	0.98602836	0.168937873	5.919335798	1.014169614	6.003210499
09° 35′ 30″	0.16662534	0.98602028	0.168987739	5.917589102	1.014177921	6.001488214
09° 35′ 40″	0.16667314	0.98601220	0.169037605	5.915843408	1.014186231	5.999766931
09° 35′ 50″	0.16672094	0.98600412	0.169087472	5.914098715	1.014194544	5.998046649

72 09° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
09° 36′ 00″	0.16676875	0.98599604	0.169137340	5.912355021	1.014202859	5.996327368
09° 36′ 10″	0.16681655	0.98598795	0.169187208	5.910612328	1.014202837	5.994609086
09° 36′ 20″	0.16686435	0.98597986	0.169237078	5.908870632	1.014211177	5.992891802
09° 36′ 30″	0.16691215	0.98597177	0.169286948	5.907129935	1.014217477	5.991175516
09° 36′ 40″	0.16695995	0.98596368	0.169336819	5.905390234	1.014236145	5.989460227
07° 36′ 50″	0.16700775	0.78576568	0.167336617	5.903651529	1.014244473	5.987745934
07 36 30 09° 37′ 00″	0.16705755	0.78575538	0.169436564	5.901913819	1.014252803	5.986032636
07 37 00 09° 37′ 10″	0.16703335	0.78574748	0.169486438	5.900177103	1.014252803	5.984320333
09° 37′ 20″	0.16715115	0.98593128	0.169536312	5.898441380	1.014267472	5.982609023
09° 37′ 30″	0.16719895	0.98592318	0.169586188	5.896706650	1.014277810	5.980898705
09° 37′ 40″	0.16724675	0.98591507	0.169636064	5.894972911	1.014286150	5.979189379
09° 37′ 50″	0.16729455	0.98590696	0.169685941	5.893240164	1.014294493	5.977481044
09° 38′ 00″	0.16734235	0.98589885	0.169735818	5.891508406	1.014302838	5.975773698
09° 38′ 10″	0.16739015	0.98589073	0.169785697	5.889777636	1.014311186	5.974067342
09° 38′ 20″	0.16743794	0.98588262	0.169835576	5.888047856	1.014319537	5.972361974
09° 38′ 30″	0.16748574	0.98587450	0.169885456	5.886319062	1.014327890	5.970657593
09° 38′ 40″	0.16753354	0.98586638	0.169935337	5.884591255	1.014336245	5.968954199
09° 38′ 50″	0.16758133	0.98585825	0.169985219	5.882864433	1.014344604	5.967251791
09° 39′ 00″	0.16762913	0.98585013	0.170035102	5.881138596	1.014352964	5.965550368
09° 39′ 10″	0.16767692	0.98584200	0.170084985	5.879413743	1.014361327	5.963849928
09° 39′ 20″	0.16772472	0.98583387	0.170134870	5.877689873	1.014369693	5.962150472
09° 39′ 30″	0.16777251	0.98582574	0.170184755	5.875966985	1.014378061	5.960451997
09° 39′ 40″	0.16782031	0.98581760	0.170234641	5.874245079	1.014386432	5.958754505
09° 39′ 50″	0.16786810	0.98580947	0.170284527	5.872524153	1.014394805	5.957057993
09° 40′ 00″	0.16791589	0.98580133	0.170334415	5.870804207	1.014403181	5.955362460
09° 40′ 10″	0.16796368	0.98579318	0.170384303	5.869085239	1.014411559	5.953667907
09° 40′ 20″	0.16801148	0.98578504	0.170434193	5.867367250	1.014419940	5.951974331
09° 40′ 30″	0.16805927	0.98577689	0.170484083	5.865650237	1.014428323	5.950281733
09° 40′ 40″	0.16810706	0.98576874	0.170533974	5.863934201	1.014436709	5.948590111
09° 40′ 50″	0.16815485	0.98576059	0.170583865	5.862219140	1.014445097	5.946899465
09° 41′ 00″	0.16820264	0.98575244	0.170633758	5.860505054	1.014453488	5.945209793
09° 41′ 10″	0.16825043	0.98574428	0.170683651	5.858791942	1.014461881	5.943521096
09° 41′ 20″	0.16829822	0.98573612	0.170733545	5.857079802	1.014470277	5.941833371
09° 41′ 30″	0.16834601	0.98572796	0.170783440	5.855368635	1.014478676	5.940146618
09° 41′ 40″	0.16839380	0.98571980	0.170833336	5.853658439	1.014487077	5.938460837
09° 41′ 50″	0.16844159	0.98571164	0.170883233	5.851949213	1.014495480	5.936776027
09° 42′ 00″	0.16848938	0.98570347	0.170933130	5.850240957	1.014503886	5.935092186
09° 42′ 10″	0.16853717	0.98569530	0.170983029	5.848533669	1.014512295	5.933409313
09° 42′ 20″	0.16858496	0.98568713	0.171032928	5.846827350	1.014520706	5.931727409
09° 42′ 30″	0.16863274	0.98567895	0.171082828	5.845121997	1.014529119	5.930046472
09° 42′ 40″	0.16868053	0.98567078	0.171132729	5.843417611	1.014537535	5.928366502
09° 42′ 50″	0.16872832	0.98566260	0.171182630	5.841714190	1.014545954	5.926687496
09° 43′ 00″	0.16877610	0.98565442	0.171232533	5.840011734	1.014554375	5.925009456
09° 43′ 10″	0.16882389	0.98564623	0.171282436	5.838310242	1.014562799	5.923332379
09° 43′ 20″	0.16887167	0.98563805	0.171332340	5.836609712	1.014571225	5.921656266
09° 43′ 30″	0.16891946	0.98562986	0.171382245	5.834910145	1.014579654	5.919981115
09° 43′ 40″	0.16896724	0.98562167	0.171432151	5.833211539	1.014588085	5.918306925
09° 43′ 50″	0.16901503	0.98561347	0.171482057	5.831513893	1.014596519	5.916633695

73 09° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
09° 44′ 00″	0.16906281	0.98560528	0.171531965	5.829817207	1.014604955	5.914961426
09° 44′ 10″	0.16911059	0.98559708	0.171581873	5.828121480	1.014613394	5.913290115
09° 44′ 20″	0.16915838	0.98558888	0.171631782	5.826426711	1.014621835	5.911619763
09° 44′ 30″	0.16920616	0.98558068	0.171681692	5.824732899	1.014630279	5.909950367
09° 44′ 40″	0.16925394	0.98557248	0.171731603	5.823040043	1.014638726	5.908281929
09° 44′ 50″	0.16930172	0.98556427	0.171781514	5.821348143	1.014647174	5.906614445
09° 45′ 00″	0.16934950	0.98555606	0.171831427	5.819657198	1.014655626	5.904947917
09° 45′ 10″	0.16939728	0.98554785	0.171881340	5.817967207	1.014664080	5.903282343
09° 45′ 20″	0.16944507	0.98553963	0.171931254	5.816278168	1.014672536	5.901617722
09° 45′ 30″	0.16949285	0.98553142	0.171981169	5.814590082	1.014680995	5.899954053
09° 45′ 40″	0.16954063	0.98552320	0.172031085	5.812902948	1.014689457	5.898291336
09° 45′ 50″	0.16958840	0.98551498	0.172081001	5.811216764	1.014697921	5.896629569
09° 46′ 00″	0.16963618	0.98550676	0.172130919	5.809531530	1.014706388	5.894968753
09° 46′ 10″	0.16968396	0.98549853	0.172180837	5.807847245	1.014714857	5.893308886
09° 46′ 20″	0.16973174	0.98549030	0.172230756	5.806163908	1.014723328	5.891649967
09° 46′ 30″	0.16977952	0.98548207	0.172280676	5.804481519	1.014731803	5.889991995
09° 46′ 40″	0.16982729	0.98547384	0.172330597	5.802800076	1.014740279	5.888334970
09° 46′ 50″	0.16987507	0.98546561	0.172380518	5.801119579	1.014748759	5.886678891
09° 47′ 00″	0.16992285	0.98545737	0.172430441	5.799440027	1.014757240	5.885023758
09° 47′ 10″	0.16997062	0.98544913	0.172480364	5.797761420	1.014765725	5.883369568
09° 47′ 20″	0.17001840	0.98544089	0.172530288	5.796083755	1.014774211	5.881716322
09° 47′ 30″	0.17006618	0.98543264	0.172580213	5.794407033	1.014782701	5.880064019
09° 47′ 40″	0.17011395	0.98542440	0.172630139	5.792731253	1.014791193	5.878412658
09° 47′ 50″	0.17016173	0.98541615	0.172680065	5.791056415	1.014799687	5.876762237
09° 48′ 00″	0.17020950	0.98540790	0.172729993	5.789382516	1.014808184	5.875112758
09° 48′ 10″	0.17025727	0.98539965	0.172779921	5.787709556	1.014816683	5.873464217
09° 48′ 20″	0.17030505	0.98539139	0.172829850	5.786037536	1.014825185	5.871816615
09° 48′ 30″	0.17035282	0.98538313	0.172879780	5.784366453	1.014833690	5.870169951
09° 48′ 40″	0.17040059	0.98537487	0.172929711	5.782696306	1.014842197	5.868524224
09° 48′ 50″	0.17044836	0.98536661	0.172979642	5.781027097	1.014850707	5.866879434
09° 49′ 00″	0.17049614	0.98535834	0.173029575	5.779358822	1.014859219	5.865235579
09° 49′ 10″	0.17054391	0.98535008	0.173079508	5.777691482	1.014867733	5.863592659
09° 49′ 20″	0.17059168	0.98534181	0.173129442	5.776025076	1.014876250	5.861950672
09° 49′ 30″	0.17063945	0.98533354	0.173179377	5.774359603	1.014884770	5.860309619
09° 49′ 40″		0.98532526	0.173229313	5.772695063	1.014893292	5.858669498
09° 49′ 50″ 09° 50′ 00″	0.17073499	0.98531699	0.173279250	5.771031453 F 76026877F	1.014901817	5.857030309
09° 50′ 10″	0.17078276	0.98530871 0.98530043	0.173329187	5.769368775 5.767707026	1.014910344	5.855392050
09° 50′ 20″	0.17083053		0.173379125		1.014918874	5.853754721 5.852118322
09° 50′ 30″	0.17087829	0.98529214 0.98528386	0.173429065 0.173479005	5.766046206 5.764386315	1.014927406 1.014935941	5.850482851
09° 50′ 40″	0.17092808	0.98527557	0.173479003	5.762727351	1.014933941	5.848848307
09° 50′ 50″	0.17097383	0.98526728	0.173578887	5.761069314	1.014944479	5.847214691
09° 51′ 00″	0.17102160	0.98525899	0.173628830	5.759412203	1.014953019	5.845582000
09° 51′ 10″	0.17106736	0.78525069	0.173678773	5.757756017	1.014761361	5.843950235
09° 51′ 20″	0.17111713	0.78523067	0.173728717	5.756100755	1.014970108	5.842319394
07 51 20 09° 51′ 30″	0.17110470	0.78524240	0.173728717	5.754446417	1.014778034	5.840689477
07 51 30 09° 51′ 40″	0.17121260	0.78523410	0.173778602	5.752793001	1.014787204	5.839060482
09° 51′ 50″	0.17120043	0.78522377	0.173878555	5.751140508	1.015004311	5.837432410
	0.17 130017	0.70021777	V.17 307 0333	3.731170300	1.013007311	5.057 f32+10

74 09° 51′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\csc(x)$
09° 52′ 00″	0.17135596	0.98520918	0.173928502	5.749488936	1.015012869	5.835805259
09° 52′ 10″	0.17140372	0.98520088	0.173978451	5.747838284	1.015021429	5.834179029
09° 52′ 20″	0.17145149	0.98519256	0.174028400	5.746188553	1.015029992	5.832553719
09° 52′ 30″	0.17149925	0.98518425	0.174078350	5.744539740	1.015038557	5.830929327
09° 52′ 40″	0.17154701	0.98517593	0.174128301	5.742891845	1.015047125	5.829305854
09° 52′ 50″	0.17159477	0.98516762	0.174178253	5.741244867	1.015055695	5.827683298
09° 53′ 00″	0.17164254	0.98515930	0.174228205	5.739598807	1.015064268	5.826061659
09° 53′ 10″	0.17169030	0.98515097	0.174278159	5.737953661	1.015072843	5.824440936
09° 53′ 20″	0.17173806	0.98514265	0.174328113	5.736309432	1.015081421	5.822821128
09° 53′ 30″	0.17178582	0.98513432	0.174378068	5.734666116	1.015090001	5.821202235
09° 53′ 40″	0.17183358	0.98512599	0.174428024	5.733023714	1.015098584	5.819584255
09° 53′ 50″	0.17188134	0.98511766	0.174477981	5.731382224	1.015107170	5.817967188
09° 54′ 00″	0.17192910	0.98510933	0.174527939	5.729741647	1.015115758	5.816351033
09° 54′ 10″	0.17197686	0.98510099	0.174577897	5.728101980	1.015124348	5.814735789
09° 54′ 20″	0.17202462	0.98509265	0.174627857	5.726463225	1.015132941	5.813121456
09° 54′ 30″	0.17207238	0.98508431	0.174677817	5.724825378	1.015141537	5.811508033
09° 54′ 40″	0.17212013	0.98507597	0.174727778	5.723188441	1.015150135	5.809895518
09° 54′ 50″	0.17216789	0.98506762	0.174777740	5.721552412	1.015158736	5.808283912
09° 55′ 00″	0.17221565	0.98505927	0.174827703	5.719917290	1.015167339	5.806673214
09° 55′ 10″	0.17226341	0.98505092	0.174877666	5.718283075	1.015175944	5.805063422
09° 55′ 20″	0.17231116	0.98504257	0.174927631	5.716649766	1.015184553	5.803454536
09° 55′ 30″	0.17235892	0.98503421	0.174977596	5.715017362	1.015193163	5.801846555
09° 55′ 40″	0.17240667	0.98502586	0.175027562	5.713385862	1.015201777	5.800239479
09° 55′ 50″	0.17245443	0.98501750	0.175077529	5.711755266	1.015210393	5.798633306
09° 56′ 00″	0.17250218	0.98500914	0.175127497	5.710125572	1.015219011	5.797028036
09° 56′ 10″	0.17254994	0.98500077	0.175177466	5.708496781	1.015227632	5.795423669
09° 56′ 20″	0.17259769	0.98499240	0.175227435	5.706868891	1.015236255	5.793820202
09° 56′ 30″	0.17264545	0.98498404	0.175277406	5.705241901	1.015244881	5.792217637
09° 56′ 40″	0.17269320	0.98497566	0.175327377	5.703615812	1.015253510	5.790615971
09° 56′ 50″	0.17274095	0.98496729	0.175377349	5.701990621	1.015262141	5.789015205
09° 57′ 00″	0.17278870	0.98495891	0.175427322	5.700366329	1.015270774	5.787415337
09° 57′ 10″	0.17283646	0.98495054	0.175477296	5.698742934	1.015279410	5.785816366
09° 57′ 20″	0.17288421	0.98494216	0.175527271	5.697120436	1.015288049	5.784218293
09° 57′ 30″	0.17293196	0.98493377	0.175577246	5.695498834	1.015296690	5.782621115
09° 57′ 40″	0.17297971	0.98492539	0.175627222	5.693878127	1.015305334	5.781024833
09° 57′ 50″	0.17302746	0.98491700	0.175677200	5.692258315	1.015313980	5.779429446
09° 58′ 00″	0.17307521	0.98490861	0.175727178	5.690639396	1.015322629	5.777834953
09° 58′ 10″	0.17312296	0.98490022	0.175777157	5.689021371	1.015331280	5.776241352
09° 58′ 20″	0.17317071	0.98489182	0.175827136	5.687404238	1.015339934	5.774648644
09° 58′ 30″	0.17321846	0.98488343	0.175877117	5.685787996	1.015348591	5.773056828 F 77146F003
09° 58′ 40″	0.17326621	0.98487503	0.175927098	5.684172646	1.015357249	5.771465903
09° 58′ 50″	0.17331395	0.98486663	0.175977081	5.682558185 F (80044614	1.015365911	5.769875867
09° 59′ 00″	0.17336170	0.98485822	0.176027064	5.680944614	1.015374575	5.768286722
09° 59′ 10″ 09° 59′ 20″	0.17340945	0.98484982	0.176077048	5.679331931 5.677730136	1.015383241	5.766698465 5.765111005
09° 59′ 20″ 09° 59′ 30″	0.17345720	0.98484141	0.176127033	5.677720136 5.677100228	1.015391910	5.765111095 5.76524612
09° 59′ 30″ 09° 59′ 40″	0.17350494	0.98483300	0.176177018	5.676109228 5.674409207	1.015400582	5.763524613
09° 59′ 40″ 09° 59′ 50″	0.17355269 0.17360043	0.98482459	0.176227005 0.176276992	5.674499207 5.672890071	1.015409256	5.761939018
<u> </u>	0.17300043	0.98481617	0.1/62/6772	5.672890071	1.015417933	5.760354308

75 09° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
10° 00′ 00″	0.17364818	0.98480775	0.176326981	5.671281820	1.015426612	5.758770483
10° 00′ 10″	0.17369592	0.98479933	0.176376970	5.669674453	1.015435294	5.757187543
10° 00′ 20″	0.17374367	0.98479091	0.176426960	5.668067969	1.015443978	5.755605485
10° 00′ 30″	0.17379141	0.98478249	0.176476951	5.666462368	1.015452665	5.754024311
10° 00′ 40″	0.17383915	0.98477406	0.176526942	5.664857650	1.015461354	5.752444019
10° 00′ 50″	0.17388690	0.98476563	0.176576935	5.663253812	1.015470046	5.750864608
10° 01′ 00″	0.17393464	0.98475720	0.176626928	5.661650855	1.015478740	5.749286077
10° 01′ 10″	0.17378238	0.98474877	0.176676923	5.660048777	1.015487437	5.747708427
10° 01′ 20″	0.17403012	0.98474033	0.176726918	5.658447579	1.015496137	5.746131655
10° 01′ 30″	0.17407786	0.98473189	0.176776914	5.656847259	1.015504839	5.744555762
10° 01′ 40″	0.17412561	0.98472345	0.176826911	5.655247816	1.015513543	5.742980747
10° 01′ 50″	0.17417335	0.98471501	0.176876908	5.653649250	1.015522250	5.741406608
10° 02′ 00″	0.17422109	0.98470656	0.176926907	5.652051560	1.015530960	5.739833346
10° 02′ 10″	0.17426883	0.98469811	0.176976906	5.650454746	1.015539672	5.738260959
10° 02′ 20″	0.17431657	0.98468966	0.177026907	5.648858806	1.015548387	5.736689447
10° 02′ 30″	0.17436430	0.98468121	0.177076908	5.647263740	1.015557104	5.735118809
10° 02′ 40″	0.17441204	0.98467276	0.177126910	5.645669547	1.015565824	5.733549044
10° 02′ 50″	0.17445978	0.98466430	0.177176913	5.644076227	1.015574546	5.731980152
10° 03′ 00″	0.17450752	0.98465584	0.177226916	5.642483779	1.015583271	5.730412131
10° 03′ 10″	0.17455526	0.98464738	0.177276921	5.640892201	1.015591998	5.728844982
10° 03′ 20″	0.17460299	0.98463892	0.177326926	5.639301494	1.015600728	5.727278703
10° 03′ 30″	0.17465073	0.98463045	0.177376933	5.637711656	1.015609460	5.725713294
10° 03′ 40″	0.17469846	0.98462198	0.177426940	5.636122687	1.015618195	5.724148753
10° 03′ 50″	0.17474620	0.98461351	0.177476948	5.634534587	1.015626933	5.722585081
10° 04′ 00″	0.17479394	0.98460504	0.177526957	5.632947353	1.015635673	5.721022276
10° 04′ 10″	0.17484167	0.98459656	0.177576966	5.631360987	1.015644416	5.719460339
10° 04′ 20″	0.17488940	0.98458808	0.177626977	5.629775486	1.015653161	5.717899267
10° 04′ 30″	0.17493714	0.98457960	0.177676988	5.628190851	1.015661908	5.716339060
10° 04′ 40″	0.17498487	0.98457112	0.177727001	5.626607080	1.015670659	5.714779719
10° 04′ 50″	0.17503261	0.98456264	0.177777014	5.625024173	1.015679411	5.713221241
10° 05′ 00″	0.17508034	0.98455415	0.177827028	5.623442129	1.015688167	5.711663626
10° 05′ 10″	0.17512807	0.98454566	0.177877043	5.621860948	1.015696924	5.710106874
10° 05′ 20″	0.17517580	0.98453717	0.177927058	5.620280628	1.015705685	5.708550984
10° 05′ 30″	0.17522353	0.98452868	0.177977075	5.618701169	1.015714448	5.706995955
10° 05′ 40″	0.17527127	0.98452018	0.178027093	5.617122570	1.015723213	5.705441786
10° 05′ 50″	0.17531900	0.98451168	0.178077111	5.615544831	1.015731981	5.703888477
10° 06′ 00″	0.17536673	0.98450318	0.178127130	5.613967951	1.015740752	5.702336026
10° 06′ 10″	0.17541446	0.98449468	0.178177150	5.612391929	1.015749525	5.700784434
10° 06′ 20″	0.17546219	0.98448617	0.178227171	5.610816764	1.015758300	5.699233700
10° 06′ 30″	0.17550991	0.98447766	0.178277193	5.609242457	1.015767078	5.697683822
10° 06′ 40″	0.17555764	0.98446915	0.178327216	5.607669005	1.015775859	5.696134800
10° 06′ 50″	0.17560537	0.98446064	0.178377239	5.606096408	1.015784642	5.694586634
10° 07′ 00″	0.17565310	0.98445213	0.178427264	5.604524666	1.015793428	5.693039323
10° 07′ 10″	0.17570083	0.98444361	0.178477289	5.602953778	1.015802216	5.691492865
10° 07′ 20″	0.17574855	0.98443509	0.178527315	5.601383743	1.015811007	5.689947261
10° 07′ 30″	0.17579628	0.98442657	0.178577342	5.599814561	1.015819800	5.688402510
10° 07′ 40″	0.17584401	0.98441804	0.178627370	5.598246230	1.015828596	5.686858610
10° 07′ 50″	0.17589173	0.98440952	0.178677399	5.596678751	1.015837395	5.685315562
	I.					

76 10° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
10° 08′ 00″	0.17593946	0.98440099	0.178727428	5.595112121	1.015846196	5.683773364
10° 08′ 10″	0.17598718	0.98439246	0.178777459	5.593546342	1.015854999	5.682232016
10° 08′ 20″	0.17603491	0.98438392	0.178827490	5.591981412	1.015863805	5.680691517
10° 08′ 30″	0.17608263	0.98437539	0.178877522	5.590417329	1.015872614	5.679151866
10° 08′ 40″	0.17613035	0.98436685	0.178927555	5.588854095	1.015881425	5.677613063
10° 08′ 50″ 10° 09′ 00″	0.17617808	0.98435831	0.178977589	5.587291707	1.015890239	5.676075107
	0.17622580	0.98434977	0.179027624	5.585730166	1.015899055	5.674537998
10° 09′ 10″	0.17627352	0.98434122	0.179077660	5.584169470	1.015907874	5.673001734
10° 09′ 20″	0.17632124	0.98433268	0.179127696	5.582609619	1.015916695	5.671466315
10° 09′ 30″	0.17636897	0.98432413	0.179177734	5.581050612	1.015925519	5.669931740
10° 09′ 40″	0.17641669	0.98431558	0.179227772	5.579492448	1.015934345	5.668398008
10° 09′ 50″	0.17646441	0.98430702	0.179277811	5.577935128	1.015943174	5.666865120
10° 10′ 00″	0.17651213	0.98429847	0.179327851	5.576378649	1.015952006	5.665333074
10° 10′ 10″	0.17655985	0.98428991	0.179377892	5.574823012	1.015960840	5.663801869
10° 10′ 20″	0.17660757	0.98428135	0.179427934	5.573268215	1.015969676	5.662271505
10° 10′ 30″	0.17665529	0.98427278	0.179477976	5.571714258	1.015978516	5.660741981
10° 10′ 40″	0.17670301	0.98426422	0.179528020	5.570161141	1.015987357	5.659213296
10° 10′ 50″	0.17675072	0.98425565	0.179578064	5.568608862	1.015996201	5.657685450
10° 11′ 00″	0.17679844	0.98424708	0.179628109	5.567057421	1.016005048	5.656158443
10° 11′ 10″	0.17684616	0.98423851	0.179678156	5.565506817	1.016013897	5.654632272
10° 11′ 20″	0.17689388	0.98422993	0.179728203	5.563957050	1.016022749	5.653106938
10° 11′ 30″	0.17694159	0.98422135	0.179778250	5.562408119	1.016031604	5.651582441
10° 11′ 40″	0.17698931	0.98421277	0.179828299	5.560860023	1.016040460	5.650058778
10° 11′ 50″	0.17703702	0.98420419	0.179878349	5.559312761	1.016049320	5.648535950
10° 12′ 00″	0.17708474	0.98419561	0.179928399	5.557766334	1.016058182	5.647013956
10° 12′ 10″	0.17713246	0.98418702	0.179978451	5.556220739	1.016067046	5.645492795
10° 12′ 20″	0.17718017	0.98417843	0.180028503	5.554675977	1.016075913	5.643972467
10° 12′ 30″	0.17722788	0.98416984	0.180078556	5.553132047	1.016084783	5.642452971
10° 12′ 40″	0.17727560	0.98416125	0.180128610	5.551588947	1.016093655	5.640934306
10° 12′ 50″	0.17732331	0.98415265	0.180178665	5.550046679	1.016102530	5.639416471
10° 13′ 00″	0.17737102	0.98414405	0.180228720	5.548505240	1.016111407	5.637899466
10° 13′ 10″	0.17741874	0.98413545	0.180278777	5.546964630	1.016120287	5.636383291
10° 13′ 20″	0.17746645	0.98412685	0.180328835	5.545424848	1.016129169	5.634867944
10° 13′ 30″	0.17751416	0.98411825	0.180378893	5.543885894	1.016138054	5.633353425
10° 13′ 40″	0.17756187	0.98410964	0.180428952	5.542347767	1.016146942	5.631839733
10° 13′ 50″	0.17760958	0.98410103	0.180479012	5.540810467	1.016155831	5.630326867
10° 14′ 00″	0.17765729	0.98409242	0.180529073	5.539273992	1.016164724	5.628814827
10° 14′ 10″	0.17770500	0.98408380	0.180579135	5.537738342	1.016173619	5.627303612
10° 14′ 20″	0.17775271	0.98407519	0.180629198	5.536203517	1.016182517	5.625793222
10° 14′ 30″	0.17780042	0.98406657	0.180679261	5.534669515	1.016191417	5.624283656
10° 14′ 40″	0.17784813	0.98405795	0.180729326	5.533136336	1.016200319	5.622774913
10° 14′ 50″	0.17789584	0.98404932	0.180779391	5.531603980	1.016209225	5.621266992
10° 15′ 00″	0.17794355	0.98404070	0.180829457	5.530072445	1.016218132	5.619759893
10° 15′ 10″	0.17799125	0.98403207	0.180879525	5.528541732	1.016227043	5.618253615
10° 15′ 20″	0.17803896	0.98402344	0.180929593	5.527011838	1.016235956	5.616748157
10° 15′ 30″	0.17808667	0.98401481	0.180979661	5.525482765	1.016244871	5.615243519
10° 15′ 40″	0.17813437	0.98400617	0.181029731	5.523954510	1.016253789	5.613739701
10° 15′ 50″	0.17818208	0.98399753	0.181079802	5.522427074	1.016262709	5.612236701

77 10° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
10° 16′ 00″	0.17822978	0.98398889	0.181129873	5.520900455	1.016271632	5.610734518
10° 16′ 10″	0.17827749	0.98398025	0.181179946	5.519374653	1.016280558	5.609233153
10° 16′ 20″	0.17832519	0.98397161	0.181230019	5.517849668	1.016289486	5.607732604
10° 16′ 30″	0.17837290	0.98396296	0.181280093	5.516325498	1.016298417	5.606232871
10° 16′ 40″	0.17842060	0.98395431	0.181330168	5.514802144	1.016307350	5.604733953
10° 16′ 50″	0.17846830	0.98394566	0.181380244	5.513279604	1.016316286	5.603235850
10° 17′ 00″	0.17851601	0.98393701	0.181430321	5.511757877	1.016325224	5.601738560
10° 17′ 10″	0.17856371	0.98392835	0.181480399	5.510236964	1.016334165	5.600242084
10° 17′ 20″	0.17861141	0.98391969	0.181530477	5.508716863	1.016343108	5.598746420
10° 17′ 30″	0.17865911	0.98391103	0.181580556	5.507197573	1.016352054	5.597251568
10° 17′ 40″	0.17870681	0.98390237	0.181630637	5.505679095	1.016361003	5.595757527
10° 17′ 50″	0.17875451	0.98389371	0.181680718	5.504161427	1.016369954	5.594264296
10° 18′ 00″	0.17880222	0.98388504	0.181730800	5.502644569	1.016378908	5.592771876
10° 18′ 10″	0.17884991	0.98387637	0.181780883	5.501128520	1.016387864	5.591280264
10° 18′ 20″	0.17889761	0.98386770	0.181830967	5.499613279	1.016396822	5.589789461
10° 18′ 30″	0.17894531	0.98385902	0.181881052	5.498098847	1.016405784	5.588299467
10° 18′ 40″	0.17899301	0.98385035	0.181931137	5.496585221	1.016414747	5.586810279
10° 18′ 50″	0.17904071	0.98384167	0.181981224	5.495072402	1.016423714	5.585321898
10° 19′ 00″	0.17908841	0.98383298	0.182031311	5.493560389	1.016432683	5.583834323
10° 19′ 10″	0.17913611	0.98382430	0.182081399	5.492049181	1.016441654	5.582347553
10° 19′ 20″	0.17918380	0.98381562	0.182131488	5.490538777	1.016450628	5.580861588
10° 19′ 30″	0.17923150	0.98380693	0.182181578	5.489029178	1.016459604	5.579376427
10° 19′ 40″	0.17927920	0.98379824	0.182231669	5.487520381	1.016468584	5.577892069
10° 19′ 50″	0.17932689	0.98378954	0.182281761	5.486012387	1.016477565	5.576408514
10° 20′ 00″	0.17937459	0.98378085	0.182331854	5.484505196	1.016486549	5.574925761
10° 20′ 10″	0.17942228	0.98377215	0.182381947	5.482998805	1.016495536	5.573443809
10° 20′ 20″	0.17946998	0.98376345	0.182432042	5.481493215	1.016504525	5.571962658
10° 20′ 30″	0.17951767	0.98375475	0.182482137	5.479988425	1.016513517	5.570482308
10° 20′ 40″	0.17956536	0.98374604	0.182532233	5.478484435	1.016522511	5.569002756
10° 20′ 50″	0.17961306	0.98373734	0.182582331	5.476981243	1.016531508	5.567524004
10° 21′ 00″	0.17966075	0.98372863	0.182632429	5.475478849	1.016540508	5.566046050
10° 21′ 10″	0.17970844	0.98371992	0.182682527	5.473977253	1.016549510	5.564568893
10° 21′ 20″	0.17975613	0.98371120	0.182732627	5.472476453	1.016558514	5.563092533
10° 21′ 30″	0.17980382	0.98370249	0.182782728	5.470976450	1.016567521	5.561616970
10° 21′ 40″	0.17985152	0.98369377	0.182832829	5.469477242	1.016576531	5.560142202
10° 21′ 50″	0.17989921	0.98368505	0.182882932	5.467978829	1.016585543	5.558668229
10° 22′ 00″	0.17994690	0.98367633	0.182933035	5.466481211	1.016594558	5.557195050
10° 22′ 10″	0.17999459	0.98366760	0.182983139	5.464984385	1.016603575	5.555722665
10° 22′ 20″	0.18004228	0.98365887	0.183033245	5.463488353	1.016612595	5.554251073
10° 22′ 30″	0.18008996	0.98365014	0.183083351	5.461993113	1.016621618	5.552780274
10° 22′ 40″	0.18013765	0.98364141	0.183133457	5.460498665	1.016630642	5.551310266
10° 22′ 50″	0.18018534	0.98363268	0.183183565	5.459005008	1.016639670	5.549841050
10° 23′ 00″	0.18023303	0.98362394	0.183233674	5.457512141	1.016648700	5.548372624
10° 23′ 10″	0.18028072	0.98361520	0.183283783	5.456020064	1.016657733	5.546904988
10° 23′ 20″	0.18032840	0.98360646	0.183333894	5.454528777	1.016666768	5.545438141
10° 23′ 30″	0.18037609	0.98359772	0.183384005	5.453038277	1.016675805	5.543972083
10° 23′ 40″	0.18042377	0.98358897	0.183434117	5.451548566	1.016684846	5.542506813
10° 23′ 50″	0.18047146	0.98358022	0.183484231	5.450059642	1.016693888	5.541042330

78 10° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
10° 24′ 00″ 10° 24′ 10″	0.18051915	0.98357147	0.183534345	5.448571504	1.016702934	5.539578634
10° 24′ 10″ 10° 24′ 20″	0.18056683	0.98356272	0.183584459	5.447084153	1.016711982	5.538115724
10° 24′ 20″ 10° 24′ 30″	0.18061451	0.98355396	0.183634575	5.445597587	1.016721032	5.536653599
	0.18066220	0.98354520	0.183684692	5.444111805	1.016730085	5.535192259
10° 24′ 40″	0.18070988	0.98353645	0.183734810	5.442626808	1.016739141	5.533731704
10° 24′ 50″ 10° 25′ 00″	0.18075756	0.98352768	0.183784928	5.441142594	1.016748199	5.532271932
	0.18080525	0.98351892	0.183835047	5.439659163	1.016757259	5.530812943
10° 25′ 10″	0.18085293	0.98351015	0.183885168	5.438176514	1.016766323	5.529354736
10° 25′ 20″	0.18090061	0.98350138	0.183935289	5.436694647	1.016775388	5.527897311
10° 25′ 30″	0.18094829	0.98349261	0.183985411	5.435213561	1.016784457	5.526440668
10° 25′ 40″	0.18099597	0.98348384	0.184035534	5.433733255	1.016793528	5.524984804
10° 25′ 50″	0.18104365	0.98347506	0.184085658	5.432253729	1.016802601	5.523529721
10° 26′ 00″	0.18109133	0.98346628	0.184135782	5.430774982	1.016811677	5.522075416
10° 26′ 10″	0.18113901	0.98345750	0.184185908	5.429297013	1.016820755	5.520621890
10° 26′ 20″	0.18118669	0.98344872	0.184236034	5.427819822	1.016829837	5.519169143
10° 26′ 30″	0.18123437	0.98343993	0.184286162	5.426343409	1.016838920	5.517717172
10° 26′ 40″	0.18128205	0.98343115	0.184336290	5.424867772	1.016848006	5.516265978
10° 26′ 50″	0.18132973	0.98342236	0.184386419	5.423392911	1.016857095	5.514815561
10° 27′ 00″	0.18137740	0.98341356	0.184436550	5.421918826	1.016866186	5.513365919
10° 27′ 10″	0.18142508	0.98340477	0.184486681	5.420445515	1.016875280	5.511917051
10° 27′ 20″	0.18147276	0.98339597	0.184536812	5.418972978	1.016884376	5.510468958
10° 27′ 30″	0.18152043	0.98338717	0.184586945	5.417501215	1.016893475	5.509021639
10° 27′ 40″	0.18156811	0.98337837	0.184637079	5.416030225	1.016902577	5.507575092
10° 27′ 50″	0.18161579	0.98336957	0.184687213	5.414560007	1.016911681	5.506129318
10° 28′ 00″	0.18166346	0.98336076	0.184737349	5.413090561	1.016920788	5.504684316
10° 28′ 10″	0.18171113	0.98335195	0.184787485	5.411621886	1.016929897	5.503240085
10° 28′ 20″	0.18175881	0.98334314	0.184837623	5.410153981	1.016939008	5.501796625
10° 28′ 30″	0.18180648	0.98333433	0.184887761	5.408686846	1.016948123	5.500353934
10° 28′ 40″	0.18185416	0.98332551	0.184937900	5.407220481	1.016957239	5.498912013
10° 28′ 50″	0.18190183	0.98331670	0.184988040	5.405754884	1.016966359	5.497470860
10° 29′ 00″	0.18194950	0.98330788	0.185038181	5.404290055	1.016975481	5.496030476
10° 29′ 10″	0.18199717	0.98329905	0.185088323	5.402825993	1.016984605	5.494590859
10° 29′ 20″	0.18204484	0.98329023	0.185138465	5.401362698	1.016993732	5.493152009
10° 29′ 30″	0.18209251	0.98328140	0.185188609	5.399900169	1.017002862	5.491713925
10° 29′ 40″	0.18214019	0.98327257	0.185238753	5.398438406	1.017011994	5.490276607
10° 29′ 50″	0.18218786	0.98326374	0.185288899	5.396977408	1.017021129	5.488840054
10° 30′ 00″	0.18223553	0.98325491	0.185339045	5.395517174	1.017030266	5.487404266
10° 30′ 10″	0.18228319	0.98324607	0.185389192	5.394057704	1.017039406	5.485969241
10° 30′ 20″	0.18233086	0.98323723	0.185439340	5.392598997	1.017048548	5.484534980
10° 30′ 30″	0.18237853	0.98322839	0.185489489	5.391141053	1.017057693	5.483101481
10° 30′ 40″	0.18242620	0.98321955	0.185539639	5.389683870	1.017066840	5.481668744
10° 30′ 50″	0.18247387	0.98321070	0.185589790	5.388227449	1.017075990	5.480236769
10° 31′ 00″	0.18252154	0.98320186	0.185639942	5.386771789	1.017085143	5.478805555
10° 31′ 10″	0.18256920	0.98319301	0.185690094	5.385316889	1.017094298	5.477375100
10° 31′ 20″	0.18261687	0.98318415	0.185740248	5.383862748	1.017103456	5.475945406
10° 31′ 30″	0.18266453	0.98317530	0.185790402	5.382409366	1.017112616	5.474516470
10° 31′ 40″	0.18271220	0.98316644	0.185840557	5.380956742	1.017121779	5.473088293
10° 31′ 50″	0.18275986	0.98315758	0.185890714	5.379504876	1.017130944	5.471660874

79 10° 31′ 50″

	gin(y)	20g(x)	ton(v)	act(x)	sec(x)	aca(x)
X	$\sin(x)$	$\frac{\cos(x)}{\cos(x)}$	$\tan(x)$	$\frac{\cot(x)}{\cot(x)}$		csc(x)
10° 32′ 00″	0.18280753	0.98314872	0.185940871	5.378053768	1.017140112	5.470234211
10° 32′ 10″	0.18285519	0.98313986	0.185991029	5.376603415	1.017149282	5.468808306
10° 32′ 20″	0.18290286	0.98313099	0.186041188	5.375153819	1.017158455	5.467383156
10° 32′ 30″	0.18295052	0.98312212	0.186091347	5.373704978	1.017167631	5.465958762
10° 32′ 40″	0.18299818	0.98311325	0.186141508	5.372256892	1.017176809	5.464535123
10° 32′ 50″	0.18304585	0.98310438	0.186191670	5.370809560	1.017185990	5.463112238
10° 33′ 00″	0.18309351	0.98309550	0.186241832	5.369362981	1.017195173	5.461690107
10° 33′ 10″	0.18314117	0.98308662	0.186291996	5.367917155	1.017204359	5.460268728
10° 33′ 20″	0.18318883	0.98307774	0.186342160	5.366472082	1.017213547	5.458848103
10° 33′ 30″	0.18323649	0.98306886	0.186392325	5.365027760	1.017222738	5.457428229
10° 33′ 40″	0.18328415	0.98305998	0.186442492	5.363584190	1.017231932	5.456009106
10° 33′ 50″	0.18333181	0.98305109	0.186492659	5.362141370	1.017241128	5.454590734
10° 34′ 00″	0.18337947	0.98304220	0.186542827	5.360699300	1.017250326	5.453173112
10° 34′ 10″	0.18342713	0.98303331	0.186592995	5.359257980	1.017259527	5.451756239
10° 34′ 20″	0.18347479	0.98302442	0.186643165	5.357817408	1.017268731	5.450340116
10° 34′ 30″	0.18352245	0.98301552	0.186693336	5.356377584	1.017277937	5.448924740
10° 34′ 40″	0.18357010	0.98300662	0.186743508	5.354938508	1.017287146	5.447510113
10° 34′ 50″	0.18361776	0.98299772	0.186793680	5.353500179	1.017296357	5.446096232
10° 35′ 00″	0.18366542	0.98298882	0.186843854	5.352062597	1.017305571	5.444683098
10° 35′ 10″	0.18371307	0.98297991	0.186894028	5.350625760	1.017314788	5.443270710
10° 35′ 20″	0.18376073	0.98297100	0.186944203	5.349189669	1.017324007	5.441859068
10° 35′ 30″	0.18380839	0.98296209	0.186994379	5.347754322	1.017333229	5.440448170
10° 35′ 40″	0.18385604	0.98295318	0.187044556	5.346319719	1.017342453	5.439038016
10° 35′ 50″	0.18390370	0.98294427	0.187094734	5.344885860	1.017351679	5.437628606
10° 36′ 00″	0.18395135	0.98293535	0.187144913	5.343452744	1.017360909	5.436219939
10° 36′ 10″ 10° 36′ 20″	0.18399900	0.98292643	0.187195093	5.342020370	1.017370141	5.434812014
10° 36′ 20″	0.18404666	0.98291751	0.187245274	5.340588738	1.017379375	5.433404832
10° 36′ 40″	0.18409431	0.98290858	0.187295455	5.339157847	1.017388612	5.431998390
10° 36′ 50″	0.18414196	0.98289966 0.98289073	0.187345638 0.187395821	5.337727696 5.336298286	1.017397851 1.017407093	5.430592689 5.429187729
10° 36′ 50″ 10° 37′ 00″	0.18418962	0.98289073	0.187393821	5.334869615		5.427187729
10° 37′ 10″	0.18428492	0.98287287	0.187496191	5.333441682	1.017416338 1.017425585	5.427783308
10° 37′ 10″	0.18433257	0.98286393	0.187546377	5.332014488	1.017425365	5.426380023
10° 37′ 30″	0.18438022	0.78285499	0.187596564	5.330588032	1.017434633	5.423575275
10° 37′ 40″	0.18442787	0.78283477	0.187646752	5.329162313	1.017444087	5.422174007
10° 37′ 50″	0.18447552	0.78284603	0.187696941	5.327737330	1.017453542	5.420773474
10° 38′ 00″	0.18452317	0.78283711	0.187747131	5.326313084	1.017462660	5.419373678
10° 38′ 10″	0.18457082	0.78282810	0.187797322	5.324889572	1.017471880	5.417974618
10° 38′ 20″	0.18461846	0.78281722	0.187847513	5.323466796	1.017481122	5.416576292
10° 38′ 30″	0.18466611	0.78281027	0.187897706	5.322044753	1.017470387	5.415178700
10° 38′ 40″	0.18471376	0.78280132	0.187947899	5.320623445	1.017477633	5.413781843
10° 38′ 50″	0.18471376	0.98278341	0.187998094	5.319202869	1.017508925	5.413781843
10° 38′ 30″ 10° 39′ 00″	0.18480905	0.98277445	0.188048289	5.317202869	1.017518178	5.412383718
10° 39′ 00″ 10° 39′ 10″	0.18485670	0.98277443	0.188098485	5.316363915	1.017527473	5.410990326
10° 39′ 10″ 10° 39′ 20″	0.18490434	0.98276549	0.188148683	5.314945535	1.017536731	5.409393666
10° 39′ 30″	0.18490434	0.98273632	0.188198881	5.313527886	1.017546032	5.408201738
10° 39′ 40″	0.18499963	0.98274736	0.188249080	5.312110967	1.017553515	5.406808341
10° 39′ 40″ 10° 39′ 50″	0.18499963	0.98273839	0.188299279	5.312110967	1.017564600	5.403416073
=======================================	0.10304728	0.702/2702	0.1004774/7	3.310074778	1.01/3/3009	J.4U4UZ4336

80 10° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
10° 40′ 00″	0.18509492	0.98272065	0.188349480	5.309279318	1.017583179	5.402633328
10° 40′ 10″	0.18514257	0.98271167	0.188399682	5.307864586	1.017592473	5.401243048
10° 40′ 20″	0.18519021	0.98270269	0.188449885	5.306450582	1.017601768	5.399853496
10° 40′ 30″	0.18523785	0.98269372	0.188500088	5.305037306	1.017611067	5.398464672
10° 40′ 40″	0.18528549	0.98268473	0.188550293	5.303624756	1.017620368	5.397076575
10° 40′ 50″	0.18533314	0.98267575	0.188600498	5.302212933	1.017629671	5.395689204
10° 41′ 00″	0.18538078	0.98266676	0.188650704	5.300801835	1.017638977	5.394302559
10° 41′ 10″	0.18542842	0.98265777	0.188700912	5.299391462	1.017648286	5.392916639
10° 41′ 20″	0.18547606	0.98264878	0.188751120	5.297981814	1.017657597	5.391531443
10° 41′ 30″	0.18552370	0.98263979	0.188801329	5.296572890	1.017666911	5.390146972
10° 41′ 40″	0.18557134	0.98263079	0.188851539	5.295164689	1.017676227	5.388763224
10° 41′ 50″	0.18561898	0.98262180	0.188901750	5.293757211	1.017685546	5.387380199
10° 42′ 00″	0.18566662	0.98261280	0.188951962	5.292350456	1.017694868	5.385997897
10° 42′ 10″	0.18571425	0.98260379	0.189002174	5.290944422	1.017704192	5.384616316
10° 42′ 20″	0.18576189	0.98259479	0.189052388	5.289539109	1.017713518	5.383235457
10° 42′ 30″	0.18580953	0.98258578	0.189102603	5.288134517	1.017722847	5.381855318
10° 42′ 40″	0.18585717	0.98257677	0.189152818	5.286730644	1.017732179	5.380475900
10° 42′ 50″	0.18590480	0.98256776	0.189203035	5.285327492	1.017741513	5.379097201
10° 43′ 00″	0.18595244	0.98255875	0.189253252	5.283925058	1.017750850	5.377719221
10° 43′ 10″	0.18600007	0.98254973	0.189303470	5.282523342	1.017760190	5.376341959
10° 43′ 20″	0.18604771	0.98254071	0.189353689	5.281122345	1.017769532	5.374965416
10° 43′ 30″	0.18609534	0.98253169	0.189403909	5.279722064	1.017778876	5.373589589
10° 43′ 40″	0.18614298	0.98252267	0.189454131	5.278322500	1.017788223	5.372214480
10° 43′ 50″	0.18619061	0.98251364	0.189504352	5.276923653	1.017797573	5.370840087
10° 44′ 00″	0.18623824	0.98250461	0.189554575	5.275525521	1.017806925	5.369466409
10° 44′ 10″	0.18628588	0.98249558	0.189604799	5.274128103	1.017816280	5.368093447
10° 44′ 20″	0.18633351	0.98248655	0.189655024	5.272731401	1.017825637	5.366721199
10° 44′ 30″	0.18638114	0.98247752	0.189705250	5.271335412	1.017834997	5.365349665
10° 44′ 40″	0.18642877	0.98246848	0.189755476	5.269940137	1.017844360	5.363978844
10° 44′ 50″	0.18647641	0.98245944	0.189805704	5.268545574	1.017853725	5.362608737
10° 45′ 00″	0.18652404	0.98245040	0.189855932	5.267151723	1.017863092	5.361239342
10° 45′ 10″	0.18657167	0.98244135	0.189906161	5.265758585	1.017872463	5.359870658
10° 45′ 20″	0.18661930	0.98243231	0.189956392	5.264366157	1.017881835	5.358502686
10° 45′ 30″	0.18666693	0.98242326	0.190006623	5.262974440	1.017891211	5.357135424
10° 45′ 40″	0.18671455	0.98241421	0.190056855	5.261583433	1.017900589	5.355768873
10° 45′ 50″	0.18676218	0.98240515	0.190107088	5.260193135	1.017909969	5.354403031
10° 46′ 00″	0.18680981	0.98239610	0.190157322	5.258803547	1.017919352	5.353037899
10° 46′ 10″	0.18685744	0.98238704	0.190207557	5.257414667	1.017928738	5.351673474
10° 46′ 20″	0.18690507	0.98237798	0.190257793	5.256026494	1.017938126	5.350309758
10° 46′ 30″	0.18695269	0.98236892	0.190308030	5.254639029	1.017947516	5.348946749
10° 46′ 40″	0.18700032	0.98235985	0.190358267	5.253252271	1.017956910	5.347584447
10° 46′ 50″	0.18704795	0.98235079	0.190408506	5.251866219	1.017966305	5.346222852
10° 47′ 00″	0.18709557	0.98234172	0.190458745	5.250480872	1.017975704	5.344861962
10° 47′ 10″	0.18714320	0.98233264	0.190508986	5.249096231	1.017985105	5.343501777
10° 47′ 20″	0.18719082	0.98232357	0.190559227	5.247712294	1.017994508	5.342142297
10° 47′ 30″	0.18723844	0.98231449	0.190609470	5.246329061	1.018003914	5.340783521
10° 47′ 40″	0.18728607	0.98230542	0.190659713	5.244946532	1.018013323	5.339425448
10° 47′ 50″	0.18733369	0.98229633	0.190709957	5.243564705	1.018022734	5.338068079

81 10° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
10° 48′ 00″	0.18738131	0.98228725	0.190760202	5.242183581	1.018032148	5.336711412
10° 48′ 10″	0.18742894	0.98227817	0.190810448	5.240803159	1.018041565	5.335355447
10° 48′ 20″	0.18747656	0.98226908	0.190860695	5.239423438	1.018050983	5.334000184
10° 48′ 30″	0.18752418	0.98225999	0.190910943	5.238044418	1.018060405	5.332645621
10° 48′ 40″	0.18757180	0.98225089	0.190961192	5.236666098	1.018069829	5.331291759
10° 48′ 50″	0.18761942	0.98224180	0.191011442	5.235288478	1.018079256	5.329938597
10° 49′ 00″	0.18766704	0.98223270	0.191061692	5.233911556	1.018088685	5.328586133
10° 49′ 10″	0.18771466	0.98222360	0.191111944	5.232535334	1.018098117	5.327234369
10° 49′ 20″	0.18776228	0.98221450	0.191162197	5.231159809	1.018107551	5.325883303
10° 49′ 30″	0.18780990	0.98220540	0.191212450	5.229784983	1.018116988	5.324532934
10° 49′ 40″	0.18785752	0.98219629	0.191262705	5.228410853	1.018126427	5.323183262
10° 49′ 50″	0.18790514	0.98218718	0.191312960	5.227037419	1.018135869	5.321834287
10° 50′ 00″	0.18795275	0.98217807	0.191363216	5.225664682	1.018145314	5.320486008
10° 50′ 10″	0.18800037	0.98216896	0.191413473	5.224292639	1.018154761	5.319138425
10° 50′ 20″	0.18804799	0.98215984	0.191463732	5.222921292	1.018164211	5.317791536
10° 50′ 30″	0.18809560	0.98215072	0.191513991	5.221550639	1.018173663	5.316445342
10° 50′ 40″	0.18814322	0.98214160	0.191564251	5.220180680	1.018183118	5.315099842
10° 50′ 50″	0.18819084	0.98213248	0.191614512	5.218811414	1.018192576	5.313755035
10° 51′ 00″	0.18823845	0.98212336	0.191664773	5.217442840	1.018202036	5.312410921
10° 51′ 10″	0.18828606	0.98211423	0.191715036	5.216074959	1.018211498	5.311067499
10° 51′ 20″	0.18833368	0.98210510	0.191765300	5.214707770	1.018220963	5.309724769
10° 51′ 30″	0.18838129	0.98209597	0.191815565	5.213341272	1.018230431	5.308382731
10° 51′ 40″	0.18842891	0.98208683	0.191865830	5.211975464	1.018239901	5.307041383
10° 51′ 50″	0.18847652	0.98207770	0.191916097	5.210610346	1.018249374	5.305700725
10° 52′ 00″	0.18852413	0.98206856	0.191966364	5.209245918	1.018258850	5.304360756
10° 52′ 10″	0.18857174	0.98205942	0.192016633	5.207882179	1.018268328	5.303021477
10° 52′ 20″	0.18861935	0.98205027	0.192066902	5.206519128	1.018277808	5.301682887
10° 52′ 30″	0.18866696	0.98204113	0.192117172	5.205156766	1.018287291	5.300344984
10° 52′ 40″	0.18871458	0.98203198	0.192167444	5.203795090	1.018296777	5.299007769
10° 52′ 50″	0.18876219	0.98202283	0.192217716	5.202434102	1.018306265	5.297671242
10° 53′ 00″	0.18880979	0.98201368	0.192267989	5.201073800	1.018315756	5.296335400
10° 53′ 10″	0.18885740	0.98200452	0.192318263	5.199714184	1.018325250	5.295000245
10° 53′ 20″ 10° 53′ 30″	0.18890501	0.98199536	0.192368538	5.198355253	1.018334746	5.293665775
10° 53′ 40″	0.18895262	0.98198621 0.98197704	0.192418814 0.192469091	5.196997007 5.195639445	1.018344244 1.018353745	5.292331989 5.290998889
10° 53′ 50″	0.18904784	0.98197704	0.192519369	5.194282567	1.018363249	5.289666472
10° 54′ 00″	0.18909544	0.98195871	0.172517567	5.192926372	1.018372755	5.288334738
10° 54′ 10″	0.18914305	0.78173871	0.192619927	5.191570860	1.018372733	5.287003687
10° 54′ 20″	0.18919066	0.78174734	0.192670208	5.190216030	1.018391776	5.285673319
10° 54′ 30″	0.18717000	0.78174037	0.172070208	5.188861881	1.018401290	5.284343632
10° 54′ 40″	0.18723828	0.78173120	0.172720487	5.187508414	1.018410806	5.283014627
10° 54′ 50″	0.18728387	0.78172202	0.172770772	5.186155628	1.018420325	5.281686302
10° 55′ 00″	0.18938108	0.98190367	0.172821033	5.184803521	1.018429847	5.280358658
10° 55′ 10″	0.18942868	0.98189448	0.172871537	5.183452094	1.018439371	5.279031693
10° 55′ 20″	0.18947628	0.98188530	0.192971911	5.182101346	1.018448898	5.27705407
10° 55′ 30″	0.18752389	0.98187611	0.193022198	5.180751277	1.018458428	5.276379800
10° 55′ 40″	0.18957149	0.98186692	0.193072486	5.179401886	1.018467960	5.275054871
10° 55′ 50″	0.18961909	0.98185773	0.193122775	5.178053172	1.018477494	5.273730620
	1.10701707	21,0100113		211,0000112	.,0101/1/1/1	

82 10° 55′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
10° 56′ 00″	0.18966669	0.98184854	0.193173065	5.176705135	1.018487031	5.272407046
10° 56′ 10″	0.18971429	0.98183934	0.193223356	5.175357775	1.018496571	5.271084148
10° 56′ 20″	0.18976189	0.98183014	0.193273648	5.174011091	1.018506113	5.269761927
10° 56′ 30″	0.18980949	0.98182094	0.193323941	5.172665082	1.018515658	5.268440381
10° 56′ 40″	0.18985709	0.98181174	0.193374235	5.171319748	1.018525206	5.267119510
10° 56′ 50″	0.18990469	0.98180253	0.193424530	5.169975088	1.018534756	5.265799314
10° 57′ 00″	0.18995229	0.98179332	0.193474825	5.168631103	1.018544308	5.264479791
10° 57′ 10″	0.18999989	0.98178411	0.193525122	5.167287790	1.018553863	5.263160943
10° 57′ 20″	0.19004749	0.98177490	0.193575420	5.165945151	1.018563421	5.261842767
10° 57′ 30″	0.19009509	0.98176568	0.193625718	5.164603184	1.018572982	5.260525263
10° 57′ 40″	0.19014268	0.98175647	0.193676018	5.163261889	1.018582544	5.259208432
10° 57′ 50″	0.19019028	0.98174725	0.193726318	5.161921265	1.018592110	5.257892272
10° 58′ 00″	0.19023788	0.98173803	0.193776619	5.160581312	1.018601678	5.256576783
10° 58′ 10″	0.19028547	0.98172880	0.193826922	5.159242029	1.018611248	5.255261965
10° 58′ 20″	0.19033307	0.98171957	0.193877225	5.157903416	1.018620822	5.253947816
10° 58′ 30″	0.19038066	0.98171035	0.193927529	5.156565473	1.018630397	5.252634337
10° 58′ 40″	0.19042826	0.98170112	0.193977834	5.155228198	1.018639976	5.251321526
10° 58′ 50″	0.19047585	0.98169188	0.194028140	5.153891592	1.018649557	5.250009385
10° 59′ 00″	0.19052344	0.98168265	0.194078447	5.152555653	1.018659140	5.248697911
10° 59′ 10″	0.19057104	0.98167341	0.194128755	5.151220382	1.018668726	5.247387104
10° 59′ 20″	0.19061863	0.98166417	0.194179064	5.149885777	1.018678315	5.246076964
10° 59′ 30″	0.19066622	0.98165493	0.194229374	5.148551839	1.018687906	5.244767491
10° 59′ 40″	0.19071381	0.98164568	0.194279685	5.147218566	1.018697500	5.243458683
10° 59′ 50″	0.19076140	0.98163643	0.194329996	5.145885959	1.018707096	5.242150541
11° 00′ 00″	0.19080900	0.98162718	0.194380309	5.144554016	1.018716695	5.240843064
11° 00′ 10″	0.19085659	0.98161793	0.194430623	5.143222738	1.018726296	5.239536251
11° 00′ 20″	0.19090418	0.98160868	0.194480937	5.141892123	1.018735901	5.238230102
11° 00′ 30″	0.19095177	0.98159942	0.194531253	5.140562172	1.018745507	5.236924617
11° 00′ 40″	0.19099935	0.98159016	0.194581569	5.139232883	1.018755116	5.235619794
11° 00′ 50″	0.19104694	0.98158090	0.194631887	5.137904257	1.018764728	5.234315633
11° 01′ 00″	0.19109453	0.98157164	0.194682205	5.136576292	1.018774343	5.233012135
11° 01′ 10″	0.19114212	0.98156237	0.194732525	5.135248989	1.018783960	5.231709298
11° 01′ 20″	0.19118971	0.98155310	0.194782845	5.133922346	1.018793579	5.230407121
11° 01′ 30″	0.19123729	0.98154383	0.194833166	5.132596363	1.018803201	5.229105605
11° 01′ 40″	0.19128488	0.98153456	0.194883488	5.131271041	1.018812826	5.227804749
11° 01′ 50″	0.19133247	0.98152529	0.194933811	5.129946377	1.018822453	5.226504552
11° 02′ 00″	0.19138005	0.98151601	0.194984136	5.128622373	1.018832083	5.225205014
11° 02′ 10″	0.19142764	0.98150673	0.195034461	5.127299026	1.018841715	5.223906135
11° 02′ 20″	0.19147522	0.98149745	0.195084787	5.125976337	1.018851350	5.222607913
11° 02′ 30″	0.19152280	0.98148816	0.195135114	5.124654306	1.018860988	5.221310348
11° 02′ 40″	0.19157039	0.98147888	0.195185441	5.123332931	1.018870628	5.220013441
11° 02′ 50″	0.19161797	0.98146959	0.195235770	5.122012213	1.018880271	5.218717190
11° 03′ 00″	0.19166555	0.98146030	0.195286100	5.120692150 5.110272742	1.018889916	5.217421594
11° 03′ 10″	0.19171314	0.98145100	0.195336431	5.119372743	1.018899564	5.216126655
11° 03′ 20″ 11° 03′ 30″	0.19176072	0.98144171	0.195386763	5.118053990 E 116735991	1.018909214	5.214832370
	0.19180830	0.98143241	0.195437095	5.116735891	1.018918867	5.213538739
11° 03′ 40″ 11° 03′ 50″	0.19185588	0.98142311	0.195487429	5.115418447	1.018928523	5.212245762
= 11 03 30"	0.17170346	0.98141381	0.195537763	5.114101656	1.018938181	5.210953439

83 11° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
11° 04′ 00″	0.19195104	0.98140450	0.195588099	5.112785517	1.018947842	5.209661769
11° 04′ 10″	0.19199862	0.98139520	0.195638436	5.111470031	1.018957505	5.208370751
11° 04′ 20″	0.19204620	0.98138589	0.195688773	5.110155197	1.018967171	5.207080385
11° 04′ 30″	0.19209378	0.98137657	0.195739111	5.108841014	1.018976840	5.205790670
11° 04′ 40″	0.19214136	0.98136726	0.195789451	5.107527481	1.018986511	5.204501607
11° 04′ 50″	0.19218893	0.98135794	0.195839791	5.106214600	1.018996184	5.203213194
11° 05′ 00″	0.19223651	0.98134862	0.195890132	5.104902368	1.019005861	5.201925430
11° 05′ 10″	0.19228409	0.98133930	0.195940474	5.103590785	1.019015539	5.200638317
11° 05′ 20″	0.19233167	0.98132998	0.195990818	5.102279851	1.019025221	5.199351852
11° 05′ 30″	0.19237924	0.98132065	0.196041162	5.100969566	1.019034905	5.198066036
11° 05′ 40″	0.19242682	0.98131133	0.196091507	5.099659929	1.019044591	5.196780868
11° 05′ 50″	0.19247439	0.98130200	0.196141853	5.098350939	1.019054280	5.195496347
11° 06′ 00″	0.19252197	0.98129266	0.196192200	5.097042596	1.019063972	5.194212474
11° 06′ 10″	0.19256954	0.98128333	0.196242548	5.095734899	1.019073666	5.192929247
11° 06′ 20″	0.19261711	0.98127399	0.196292897	5.094427849	1.019083363	5.191646666
11° 06′ 30″	0.19266469	0.98126465	0.196343247	5.093121443	1.019093063	5.190364731
11° 06′ 40″	0.19271226	0.98125531	0.196393598	5.091815683	1.019102765	5.189083441
11° 06′ 50″	0.19275983	0.98124597	0.196443949	5.090510568	1.019112469	5.187802795
11° 07′ 00″	0.19280740	0.98123662	0.196494302	5.089206096	1.019122177	5.186522794
11° 07′ 10″	0.19285498	0.98122727	0.196544656	5.087902268	1.019131886	5.185243436
11° 07′ 20″	0.19290255	0.98121792	0.196595010	5.086599083	1.019141599	5.183964721
11° 07′ 30″	0.19295012	0.98120857	0.196645366	5.085296541	1.019151314	5.182686650
11° 07′ 40″	0.19299769	0.98119921	0.196695723	5.083994641	1.019161031	5.181409220
11° 07′ 50″	0.19304526	0.98118985	0.196746080	5.082693382	1.019170751	5.180132432
11° 08′ 00″	0.19309283	0.98118049	0.196796439	5.081392764	1.019180474	5.178856286
11° 08′ 10″	0.19314040	0.98117113	0.196846798	5.080092788	1.019190199	5.177580780
11° 08′ 20″	0.19318796	0.98116177	0.196897159	5.078793451	1.019199927	5.176305914
11° 08′ 30″	0.19323553	0.98115240	0.196947520	5.077494754	1.019209657	5.175031689
11° 08′ 40″	0.19328310	0.98114303	0.196997882	5.076196696	1.019219390	5.173758102
11° 08′ 50″	0.19333067	0.98113366	0.197048246	5.074899277	1.019229126	5.172485155
11° 09′ 00″	0.19337823	0.98112428	0.197098610	5.073602497	1.019238864	5.171212846
11° 09′ 10″	0.19342580	0.98111491	0.197148975	5.072306354	1.019248605	5.169941174
11° 09′ 20″ 11° 09′ 30″	0.19347336	0.98110553	0.197199341	5.071010848 5.069715980	1.019258348	5.168670141
11° 09′ 30″ 11° 09′ 40″	0.19352093	0.98109615 0.98108676	0.197249709 0.197300077	5.069713980	1.019268094 1.019277843	5.167399744 5.166129984
11° 09′ 40″ 11° 09′ 50″	0.19361606	0.98107738	0.197350446	5.066421747	1.019277843	
11° 10′ 00″	0.17361606	0.98107738	0.197330446	5.065835190	1.019297347	5.164860859 5.163592371
11° 10′ 10″	0.17366362	0.98105860	0.197451187	5.064542864	1.019297347	5.162324517
11° 10′ 10″	0.17371117	0.98104921	0.197431187	5.063251172	1.017307104	5.161057298
11° 10′ 30″	0.17373673	0.98103981	0.197551932	5.063231172	1.019326624	5.159790713
11° 10′ 40″	0.17380831	0.98103981	0.197602306	5.060669690	1.019336388	5.158524761
11° 10′ 40″	0.17383387	0.98102102	0.197652681	5.059379899	1.017336366	5.157259443
11° 11′ 00″	0.17370143	0.98101161	0.197703057	5.058090741	1.017346134	5.155994758
11° 11′ 10″	0.17374677	0.98100221	0.197753433	5.056802214	1.017333723	5.154730704
11° 11′ 20″	0.17377030	0.98099280	0.197803811	5.055514319	1.019375469	5.153467283
11° 11′ 30″	0.17404412	0.98098340	0.197854190	5.054227056	1.019385246	5.152204492
11° 11′ 40″	0.19413923	0.98097398	0.197904570	5.052940423	1.019395026	5.150942333
11° 11′ 50″	0.19418679	0.98096457	0.197954950	5.051654420	1.019404808	5.149680804
	1 2.1.7 11007 7	21,00,010	21177701700	2.001001120		

84 11° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
11° 12′ 00″	0.19423435	0.98095516	0.198005332	5.050369047	1.019414593	5.148419905
11° 12′ 10″	0.19428191	0.98094574	0.198055715	5.049084304	1.019424380	5.147159635
11° 12′ 20″	0.19432947	0.98093632	0.198106098	5.047800189	1.019434170	5.145899994
11° 12′ 30″	0.19437702	0.98092689	0.198156483	5.046516703	1.019443962	5.144640982
11° 12′ 40″	0.19442458	0.98091747	0.198206868	5.045233844	1.019453757	5.143382597
11° 12′ 50″	0.19447214	0.98090804	0.198257255	5.043951613	1.019463555	5.142124840
11° 13′ 00″	0.19451969	0.98089861	0.198307642	5.042670009	1.019473355	5.140867711
11° 13′ 10″	0.19456725	0.98088918	0.198358031	5.041389031	1.019483157	5.139611207
11° 13′ 20″	0.19461480	0.98087975	0.198408420	5.040108679	1.019492963	5.138355330
11° 13′ 30″	0.19466236	0.98087031	0.198458810	5.038828953	1.019502771	5.137100079
11° 13′ 40″	0.19470991	0.98086087	0.198509202	5.037549852	1.019512581	5.135845453
11° 13′ 50″	0.19475746	0.98085143	0.198559594	5.036271376	1.019522394	5.134591451
11° 14′ 00″	0.19480501	0.98084199	0.198609987	5.034993524	1.019532210	5.133338074
11° 14′ 10″	0.19485257	0.98083254	0.198660382	5.033716295	1.019542028	5.132085321
11° 14′ 20″	0.19490012	0.98082309	0.198710777	5.032439690	1.019551849	5.130833191
11° 14′ 30″	0.19494767	0.98081364	0.198761173	5.031163708	1.019561672	5.129581684
11° 14′ 40″	0.19499522	0.98080419	0.198811570	5.029888347	1.019571498	5.128330799
11° 14′ 50″	0.19504277	0.98079474	0.198861968	5.028613609	1.019581327	5.127080537
11° 15′ 00″	0.19509032	0.98078528	0.198912367	5.027339492	1.019591158	5.125830895
11° 15′ 10″	0.19513787	0.98077582	0.198962767	5.026065996	1.019600992	5.124581875
11° 15′ 20″	0.19518542	0.98076636	0.199013169	5.024793121	1.019610828	5.123333476
11° 15′ 30″	0.19523297	0.98075690	0.199063571	5.023520865	1.019620667	5.122085697
11° 15′ 40″	0.19528052	0.98074743	0.199113974	5.022249229	1.019630509	5.120838537
11° 15′ 50″	0.19532807	0.98073796	0.199164377	5.020978212	1.019640353	5.119591996
11° 16′ 00″	0.19537561	0.98072849	0.199214782	5.019707814	1.019650200	5.118346075
11° 16′ 10″	0.19542316	0.98071902	0.199265188	5.018438034	1.019660049	5.117100771
11° 16′ 20″	0.19547071	0.98070954	0.199315595	5.017168872	1.019669901	5.115856086
11° 16′ 30″	0.19551825	0.98070006	0.199366003	5.015900327	1.019679755	5.114612018
11° 16′ 40″	0.19556580	0.98069058	0.199416412	5.014632399	1.019689612	5.113368566
11° 16′ 50″	0.19561334	0.98068110	0.199466822	5.013365087	1.019699472	5.112125731
11° 17′ 00″	0.19566089	0.98067162	0.199517233	5.012098391	1.019709334	5.110883513
11° 17′ 10″ 11° 17′ 20″	0.19570843	0.98066213	0.199567644	5.010832310	1.019719199	5.109641910
11° 17′ 20″ 11° 17′ 30″	0.19575597	0.98065264	0.199618057	5.009566845	1.019729066 1.019738936	5.108400921
11° 17′ 30″ 11° 17′ 40″	0.19580352	0.98064315 0.98063365	0.199668471 0.199718885	5.008301994 5.007037757	1.019738936	5.107160548 5.105920789
11° 17′ 40″ 11° 17′ 50″	0.19589860	0.98062416	0.199769301	5.007037737	1.019748609	5.103920789
11° 18′ 00″	0.17587880	0.98061466	0.177767301	5.003774134	1.019768562	5.103443111
11° 18′ 10″	0.17574614	0.98060516	0.177817718	5.003248727	1.019778442	5.102205192
11° 18′ 20″	0.17577367	0.78050516	0.177870133	5.003248727	1.019788325	5.102203172
11° 18′ 30″	0.17604123	0.78057505	0.177720334	5.000725768	1.019798211	5.099731190
11° 18′ 40″	0.17603677	0.98057664	0.200021394	4.999465206	1.019808099	5.098495106
11° 18′ 50″	0.17613031	0.98056713	0.200071816	4.998205256	1.019817989	5.097259634
11° 19′ 00″	0.17618383	0.98055762	0.200122238	4.996945915	1.019827883	5.096024772
11° 19′ 10″	0.17623137	0.98054810	0.200172662	4.995687185	1.017827883	5.094790520
11° 19′ 20″	0.17627672	0.98053859	0.200223086	4.994429064	1.019847677	5.093556878
11° 19′ 30″	0.17637400	0.98052907	0.200273511	4.993171552	1.019857578	5.092323846
11° 19′ 40″	0.19642154	0.98051955	0.200323938	4.991914649	1.019867482	5.091091422
11° 19′ 50″	0.19646907	0.98051002	0.200374365	4.990658354	1.019877388	5.089859606
	1 2.1.76 10707	31,0001002	2.2007 1000	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

85 11° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
11° 20′ 00″	0.19651661	0.98050050	0.200424794	4.989402667	1.019887297	5.088628398
11° 20′ 10″	0.19656415	0.98049097	0.200475223	4.988147588	1.019897208	5.087397798
11° 20′ 20″	0.19661168	0.98048144	0.200525653	4.986893115	1.019907122	5.086167805
11° 20′ 30″	0.19665922	0.98047190	0.200576085	4.985639248	1.019917039	5.084938418
11° 20′ 40″	0.19670675	0.98046237	0.200626517	4.984385988	1.019926958	5.083709637
11° 20′ 50″	0.19675428	0.98045283	0.200676950	4.983133333	1.019936880	5.082481462
11° 21′ 00″	0.19680182	0.98044329	0.200727385	4.981881284	1.019946804	5.081253893
11° 21′ 10″	0.19684935	0.98043375	0.200777820	4.980629839	1.019956731	5.080026928
11° 21′ 20″	0.19689688	0.98042420	0.200828256	4.979378998	1.019966660	5.078800567
11° 21′ 30″	0.19694441	0.98041466	0.200878693	4.978128761	1.019976593	5.077574811
11° 21′ 40″	0.19699195	0.98040511	0.200929131	4.976879127	1.019986527	5.076349657
11° 21′ 50″	0.19703948	0.98039555	0.200979571	4.975630096	1.019996465	5.075125107
11° 22′ 00″	0.19708701	0.98038600	0.201030011	4.974381668	1.020006404	5.073901160
11° 22′ 10″	0.19713454	0.98037644	0.201080452	4.973133841	1.020016347	5.072677814
11° 22′ 20″	0.19718207	0.98036689	0.201130894	4.971886617	1.020026292	5.071455070
11° 22′ 30″	0.19722960	0.98035733	0.201181337	4.970639993	1.020036240	5.070232928
11° 22′ 40″	0.19727713	0.98034776	0.201231781	4.969393970	1.020046190	5.069011386
11° 22′ 50″	0.19732465	0.98033820	0.201282226	4.968148547	1.020056143	5.067790444
11° 23′ 00″	0.19737218	0.98032863	0.201332672	4.966903724	1.020066098	5.066570103
11° 23′ 10″	0.19741971	0.98031906	0.201383119	4.965659501	1.020076056	5.065350361
11° 23′ 20″	0.19746724	0.98030949	0.201433567	4.964415876	1.020086017	5.064131218
11° 23′ 30″	0.19751476	0.98029991	0.201484016	4.963172850	1.020095980	5.062912674
11° 23′ 40″	0.19756229	0.98029034	0.201534466	4.961930422	1.020105946	5.061694728
11° 23′ 50″	0.19760982	0.98028076	0.201584917	4.960688592	1.020115914	5.060477379
11° 24′ 00″	0.19765734	0.98027117	0.201635369	4.959447358	1.020125885	5.059260628
11° 24′ 10″	0.19770487	0.98026159	0.201685822	4.958206722	1.020135859	5.058044474
11° 24′ 20″	0.19775239	0.98025200	0.201736276	4.956966682	1.020145835	5.056828916
11° 24′ 30″	0.19779991	0.98024242	0.201786731	4.955727237	1.020155814	5.055613954
11° 24′ 40″	0.19784744	0.98023283	0.201837187	4.954488388	1.020165795	5.054399588
11° 24′ 50″	0.19789496	0.98022323	0.201887644	4.953250135	1.020175779	5.053185816
11° 25′ 00″	0.19794248	0.98021364	0.201938102	4.952012475	1.020185766	5.051972640
11° 25′ 10″	0.19799000	0.98020404	0.201988561	4.950775410	1.020195755	5.050760058
11° 25′ 20″	0.19803752	0.98019444	0.202039021	4.949538938	1.020205747	5.049548069
11° 25′ 30″	0.19808505	0.98018484	0.202089482	4.948303060	1.020215741	5.048336674
11° 25′ 40″	0.19813257	0.98017523	0.202139943	4.947067775	1.020225738	5.047125872
11° 25′ 50″	0.19818009	0.98016563	0.202190406	4.945833082	1.020235738	5.045915662
11° 26′ 00″	0.19822761	0.98015602	0.202240870	4.944598981	1.020245740	5.044706045
11° 26′ 10″	0.19827512	0.98014640	0.202291335	4.943365471	1.020255744	5.043497019
11° 26′ 20″ 11° 26′ 30″	0.19832264	0.98013679	0.202341801	4.942132553	1.020265752	5.042288585
11° 26′ 30″ 11° 26′ 40″	0.19837016	0.98012717 0.98011756	0.202392267	4.940900225	1.020275762	5.041080741 5.039873487
11° 26′ 40″ 11° 26′ 50″	0.19841768	0.98011756	0.202442735	4.939668488	1.020285774	
11° 26′ 50″ 11° 27′ 00″	0.19846520	0.98010794	0.202493204 0.202543674	4.938437340	1.020295789	5.038666824
11° 27′ 00″ 11° 27′ 10″	0.19851271 0.19856023	0.98009831	0.202543674	4.937206782 4.935976812	1.020305807 1.020315827	5.037460750 5.036255265
11° 27′ 10″ 11° 27′ 20″	0.19860775	0.98007906	0.202594145	4.934747432	1.020313827	5.035050369
11° 27′ 30″	0.19865526	0.98007906	0.202644616	4.933518639	1.020325850	5.033846061
11° 27′ 40″	0.17863326	0.98005980	0.202673067	4.932290434	1.020333676	5.032642340
11° 27′ 50″	0.17870278	0.98005916	0.202745363	4.732270434	1.020345704	5.031439207
=======================================	0.170/302/	0.70000010	0.2021/0030	r./31002010	1.020333734	3.03173/20/

86 11° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
11° 28′ 00″	0.19879780	0.98004053	0.202846513	4.929835785	1.020365968	5.030236661
11° 28′ 10″	0.19884532	0.98003089	0.202896990	4.928609341	1.020376004	5.029034702
11° 28′ 20″	0.19889283	0.98002125	0.202947468	4.927383482	1.020386042	5.027833329
11° 28′ 30″	0.19894034	0.98001160	0.202997946	4.926158209	1.020396083	5.026632541
11° 28′ 40″	0.19898785	0.98000196	0.203048426	4.924933521	1.020406127	5.025432338
11° 28′ 50″	0.19903537	0.97999231	0.203098907	4.923709418	1.020416173	5.024232721
11° 29′ 00″	0.19908288	0.97998266	0.203149388	4.922485899	1.020426222	5.023033687
11° 29′ 10″	0.19913039	0.97997300	0.203199871	4.921262964	1.020436273	5.021835238
11° 29′ 20″	0.19917790	0.97996335	0.203250355	4.920040612	1.020446327	5.020637372
11° 29′ 30″	0.19922541	0.97995369	0.203300839	4.918818843	1.020456384	5.019440090
11° 29′ 40″	0.19927292	0.97994403	0.203351325	4.917597657	1.020466443	5.018243390
11° 29′ 50″	0.19932043	0.97993437	0.203401812	4.916377053	1.020476505	5.017047272
11° 30′ 00″	0.19936793	0.97992470	0.203452299	4.915157031	1.020486569	5.015851736
11° 30′ 10″	0.19941544	0.97991504	0.203502788	4.913937590	1.020496636	5.014656782
11° 30′ 20″	0.19946295	0.97990537	0.203553278	4.912718730	1.020506706	5.013462408
11° 30′ 30″	0.19951046	0.97989570	0.203603768	4.911500450	1.020516778	5.012268616
11° 30′ 40″	0.19955796	0.97988602	0.203654260	4.910282751	1.020526853	5.011075403
11° 30′ 50″	0.19960547	0.97987635	0.203704753	4.909065631	1.020536930	5.009882770
11° 31′ 00″	0.19965297	0.97986667	0.203755246	4.907849090	1.020547010	5.008690716
11° 31′ 10″	0.19970048	0.97985699	0.203805741	4.906633128	1.020557093	5.007499242
11° 31′ 20″	0.19974798	0.97984731	0.203856237	4.905417745	1.020567178	5.006308346
11° 31′ 30″	0.19979549	0.97983762	0.203906733	4.904202939	1.020577266	5.005118028
11° 31′ 40″	0.19984299	0.97982793	0.203957231	4.902988711	1.020587356	5.003928287
11° 31′ 50″	0.19989050	0.97981824	0.204007729	4.901775060	1.020597449	5.002739124
11° 32′ 00″	0.19993800	0.97980855	0.204058229	4.900561986	1.020607545	5.001550537
11° 32′ 10″	0.19998550	0.97979886	0.204108730	4.899349488	1.020617643	5.000362527
11° 32′ 20″	0.20003300	0.97978916	0.204159231	4.898137566	1.020627744	4.999175093
11° 32′ 30″	0.20008050	0.97977946	0.204209734	4.896926219	1.020637847	4.997988235
11° 32′ 40″	0.20012800	0.97976976	0.204260237	4.895715448	1.020647953	4.996801952
11° 32′ 50″	0.20017550	0.97976006	0.204310742	4.894505251	1.020658062	4.995616243
11° 33′ 00″	0.20022300	0.97975035	0.204361248	4.893295628	1.020668173	4.994431109
11° 33′ 10″	0.20027050	0.97974064	0.204411754	4.892086579	1.020678287	4.993246549
11° 33′ 20″	0.20031800	0.97973093	0.204462262	4.890878103	1.020688403	4.992062562
11° 33′ 30″	0.20036550	0.97972122	0.204512771	4.889670201	1.020698522	4.990879148
11° 33′ 40″	0.20041300	0.97971150	0.204563280	4.888462870	1.020708644	4.989696307
11° 33′ 50″	0.20046050	0.97970179	0.204613791	4.887256112	1.020718768	4.988514038
11° 34′ 00″	0.20050799	0.97969207	0.204664302	4.886049926	1.020728895	4.987332341
11° 34′ 10″	0.20055549	0.97968234	0.204714815	4.884844311	1.020739024	4.986151216
11° 34′ 20″	0.20060299	0.97967262	0.204765329	4.883639267	1.020749156	4.984970661
11° 34′ 30″	0.20065048	0.97966289	0.204815843	4.882434794	1.020759291	4.983790677
11° 34′ 40″	0.20069798	0.97965316	0.204866359	4.881230890	1.020769428	4.982611264
11° 34′ 50″	0.20074547	0.97964343	0.204916876	4.880027556	1.020779568	4.981432420
11° 35′ 00″ 11° 35′ 10″	0.20079297	0.97963370	0.204967393	4.878824792	1.020789710	4.980254145
11° 35′ 10″ 11° 35′ 20″	0.20084046	0.97962396	0.205017912	4.877622596	1.020799855	4.979076440
11° 35′ 20″ 11° 35′ 30″	0.20088795	0.97961423	0.205068432	4.876420969	1.020810003	4.977899303
11° 35′ 30″ 11° 35′ 40″	0.20093545	0.97960448	0.205118952	4.875219910	1.020820153	4.976722734
11° 35′ 40″ 11° 35′ 50″	0.20098294 0.20103043	0.97959474 0.97958500	0.205169474 0.205219997	4.874019418 4.872819494	1.020830306 1.020840461	4.975546733 4.974371299
=======================================	0.20103043	0.///30300	0.203217777	7.0/ 4017474	1.020040401	7.//43/1477

87 11° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
11° 36′ 00″	0.20107792	0.97957525	0.205270520	4.871620136	1.020850619	4.973196432
11° 36′ 10″	0.20112541	0.97956550	0.205321045	4.870421345	1.020860780	4.972022132
11° 36′ 20″	0.20117290	0.97955575	0.205371571	4.869223120	1.020870943	4.970848398
11° 36′ 30″	0.20122039	0.97954599	0.205422097	4.868025460	1.020881109	4.969675229
11° 36′ 40″	0.20126788	0.97953624	0.205472625	4.866828366	1.020891277	4.968502626
11° 36′ 50″	0.20131537	0.97952648	0.205523154	4.865631836	1.020901448	4.967330588
11° 37′ 00″	0.20136286	0.97951672	0.205573683	4.864435871	1.020911622	4.966159114
11° 37′ 10″	0.20141035	0.97950695	0.205624214	4.863240470	1.020921798	4.964988204
11° 37′ 20″	0.20145784	0.97949719	0.205674746	4.862045632	1.020931977	4.963817858
11° 37′ 30″	0.20150532	0.97948742	0.205725279	4.860851357	1.020942158	4.962648075
11° 37′ 40″	0.20155281	0.97947765	0.205775812	4.859657646	1.020952342	4.961478855
11° 37′ 50″	0.20160030	0.97946788	0.205826347	4.858464496	1.020962529	4.960310198
11° 38′ 00″	0.20164778	0.97945810	0.205876883	4.857271909	1.020972718	4.959142103
11° 38′ 10″	0.20169527	0.97944832	0.205927420	4.856079883	1.020982910	4.957974569
11° 38′ 20″	0.20174275	0.97943854	0.205977957	4.854888418	1.020993104	4.956807597
11° 38′ 30″	0.20179024	0.97942876	0.206028496	4.853697514	1.021003301	4.955641185
11° 38′ 40″	0.20183772	0.97941898	0.206079036	4.852507170	1.021013501	4.954475334
11° 38′ 50″	0.20188520	0.97940919	0.206129577	4.851317386	1.021023703	4.953310043
11° 39′ 00″	0.20193269	0.97939940	0.206180119	4.850128162	1.021033908	4.952145312
11° 39′ 10″	0.20198017	0.97938961	0.206230661	4.848939497	1.021044115	4.950981140
11° 39′ 20″	0.20202765	0.97937982	0.206281205	4.847751391	1.021054326	4.949817526
11° 39′ 30″	0.20207513	0.97937002	0.206331750	4.846563842	1.021064538	4.948654472
11° 39′ 40″	0.20212261	0.97936022	0.206382296	4.845376852	1.021074753	4.947491975
11° 39′ 50″	0.20217009	0.97935042	0.206432843	4.844190420	1.021084971	4.946330036
11° 40′ 00″	0.20221757	0.97934062	0.206483391	4.843004544	1.021095192	4.945168654
11° 40′ 10″	0.20226505	0.97933082	0.206533940	4.841819226	1.021105415	4.944007829
11° 40′ 20″	0.20231253	0.97932101	0.206584490	4.840634463	1.021115641	4.942847561
11° 40′ 30″	0.20236001	0.97931120	0.206635041	4.839450257	1.021125869	4.941687848
11° 40′ 40″	0.20240749	0.97930139	0.206685592	4.838266606	1.021136100	4.940528692
11° 40′ 50″	0.20245497	0.97929157	0.206736145	4.837083511	1.021146333	4.939370090
11° 41′ 00″	0.20250244	0.97928176	0.206786699	4.835900970	1.021156569	4.938212044
11° 41′ 10″	0.20254992	0.97927194	0.206837254	4.834718983	1.021166808	4.937054552
11° 41′ 20″	0.20259740	0.97926212	0.206887810	4.833537551	1.021177049	4.935897614
11° 41′ 30″	0.20264487	0.97925229	0.206938367	4.832356672	1.021187293	4.934741229
11° 41′ 40″	0.20269235	0.97924247	0.206988925	4.831176346	1.021197540	4.933585399
11° 41′ 50″	0.20273982	0.97923264	0.207039484	4.829996573	1.021207789	4.932430120
11° 42′ 00″	0.20278730	0.97922281	0.207090044	4.828817352	1.021218041	4.931275395
11° 42′ 10″	0.20283477	0.97921298	0.207140605	4.827638684	1.021228295	4.930121222
11° 42′ 20″	0.20288224	0.97920314	0.207191168	4.826460567	1.021238552	4.928967600
11° 42′ 30″	0.20292972	0.97919331	0.207241731	4.825283001	1.021248811	4.927814530
11° 42′ 40″	0.20297719	0.97918347	0.207292295	4.824105986	1.021259074	4.926662010
11° 42′ 50″	0.20302466	0.97917362	0.207342860	4.822929521	1.021269338	4.925510041
11° 43′ 00″	0.20307213	0.97916378	0.207393426	4.821753607	1.021279606	4.924358623
11° 43′ 10″	0.20311960	0.97915393	0.207443993	4.820578242	1.021289876	4.923207754
11° 43′ 20″	0.20316707	0.97914409	0.207494561	4.819403426	1.021300148	4.922057434
11° 43′ 30″	0.20321454	0.97913423	0.207545131	4.818229160	1.021310424	4.920907664
11° 43′ 40″ 11° 43′ 50″	0.20326201	0.97912438	0.207595701	4.817055441	1.021320701	4.919758442
=======================================	0.20330948	0.97911453	0.207646272	4.815882271	1.021330982	4.918609768

88 11° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
11° 44′ 00″	0.20335695	0.97910467	0.207696844	4.814709649	1.021341265	4.917461642
11° 44′ 10″	0.20340442	0.97909481	0.207747418	4.813537573	1.021351550	4.916314063
11° 44′ 20″	0.20345189	0.97908495	0.207797992	4.812366045	1.021361839	4.915167032
11° 44′ 30″	0.20349935	0.97907508	0.207848567	4.811195063	1.021372129	4.914020547
11° 44′ 40″	0.20354682	0.97906521	0.207899143	4.810024628	1.021382423	4.912874609
11° 44′ 50″	0.20359429	0.97905534	0.207949721	4.808854738	1.021392719	4.911729216
11° 45′ 00″	0.20364175	0.97904547	0.208000299	4.807685394	1.021403018	4.910584369
11° 45′ 10″	0.20368922	0.97903560	0.208050879	4.806516594	1.021413319	4.909440067
11° 45′ 20″	0.20373668	0.97902572	0.208101459	4.805348339	1.021423623	4.908296309
11° 45′ 30″	0.20378415	0.97901584	0.208152040	4.804180629	1.021433929	4.907153096
11° 45′ 40″	0.20383161	0.97900596	0.208202623	4.803013462	1.021444238	4.906010427
11° 45′ 50″	0.20387907	0.97899608	0.208253206	4.801846838	1.021454550	4.904868302
11° 46′ 00″	0.20392654	0.97898619	0.208303791	4.800680758	1.021464864	4.903726720
11° 46′ 10″	0.20397400	0.97897631	0.208354376	4.799515220	1.021475181	4.902585680
11° 46′ 20″	0.20402146	0.97896642	0.208404963	4.798350225	1.021485501	4.901445183
11° 46′ 30″	0.20406892	0.97895652	0.208455550	4.797185771	1.021495823	4.900305228
11° 46′ 40″	0.20411638	0.97894663	0.208506139	4.796021859	1.021506148	4.899165814
11° 46′ 50″	0.20416384	0.97893673	0.208556728	4.794858489	1.021516475	4.898026942
11° 47′ 00″	0.20421130	0.97892683	0.208607319	4.793695659	1.021526805	4.896888611
11° 47′ 10″	0.20425876	0.97891693	0.208657911	4.792533369	1.021537138	4.895750820
11° 47′ 20″	0.20430622	0.97890703	0.208708503	4.791371619	1.021547473	4.894613569
11° 47′ 30″	0.20435368	0.97889712	0.208759097	4.790210409	1.021557811	4.893476858
11° 47′ 40″	0.20440114	0.97888721	0.208809692	4.789049738	1.021568151	4.892340687
11° 47′ 50″	0.20444859	0.97887730	0.208860288	4.787889606	1.021578494	4.891205054
11° 48′ 00″	0.20449605	0.97886739	0.208910884	4.786730012	1.021588840	4.890069960
11° 48′ 10″	0.20454351	0.97885747	0.208961482	4.785570957	1.021599188	4.888935404
11° 48′ 20″	0.20459096	0.97884756	0.209012081	4.784412439	1.021609539	4.887801386
11° 48′ 30″	0.20463842	0.97883764	0.209062681	4.783254459	1.021619892	4.886667905
11° 48′ 40″	0.20468588	0.97882771	0.209113282	4.782097015	1.021630248	4.885534962
11° 48′ 50″	0.20473333	0.97881779	0.209163884	4.780940108	1.021640607	4.884402555
11° 49′ 00″	0.20478078	0.97880786	0.209214486	4.779783737	1.021650968	4.883270684
11° 49′ 10″ 11° 49′ 20″	0.20482824	0.97879793	0.209265090	4.778627902	1.021661332	4.882139350
11° 49′ 20″ 11° 49′ 30″	0.20487569	0.97878800	0.209315695	4.777472603	1.021671699	4.881008550 4.879878287
11° 49′ 30″ 11° 49′ 40″	0.20492314	0.97877807 0.97876813	0.209366301 0.209416908	4.776317838 4.775163608	1.021682068 1.021692440	4.878748557
11° 49′ 40″	0.20497080	0.97875819	0.209416906	4.774009913	1.021692440	
11° 50′ 00″	0.20506550	0.97874825	0.209467316	4.774009913	1.021702814	4.877619363 4.876490702
11° 50′ 10″	0.20506550	0.77874823	0.209568736	4.771704123	1.021713171	4.875362575
11° 50′ 20″	0.20511273	0.77873831	0.207368736	4.771704123	1.021723371	4.874234981
11° 50′ 30″	0.20520785	0.77872836	0.207617347	4.769400466	1.021733733	4.873107921
11° 50′ 40″	0.20525530	0.97870847	0.209720572	4.768249437	1.021744338	4.871981393
11° 50′ 50″	0.20530275	0.97869851	0.209771186	4.767098939	1.021765115	4.870855396
11° 51′ 00″	0.20535027	0.97868856	0.209821802	4.765948973	1.021765115	4.869729932
11° 51′ 10″	0.20539764	0.97867860	0.209872418	4.764799538	1.021785903	4.868604999
11° 51′ 20″	0.20544509	0.97866864	0.209923035	4.763650635	1.021796301	4.867480598
11° 51′ 30″	0.20549254	0.97865868	0.209973654	4.762502261	1.021806701	4.866356727
11° 51′ 40″	0.20553999	0.97864872	0.210024273	4.761354418	1.021817105	4.865233386
11° 51′ 50″	0.20558743	0.97863875	0.210074893	4.760207105	1.021827510	4.864110575
	1 2.222007 10	3		20207 100		

89 11° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
11° 52′ 00″	0.20563488	0.97862878	0.210125515	4.759060322	1.021837919	4.862988294
11° 52′ 10″	0.20568232	0.97861881	0.210176137	4.757914067	1.021848330	4.861866541
11° 52′ 20″	0.20572977	0.97860884	0.210226761	4.756768341	1.021858743	4.860745318
11° 52′ 30″	0.20577721	0.97859887	0.210277385	4.755623143	1.021869159	4.859624623
11° 52′ 40″	0.20582465	0.97858889	0.210328011	4.754478473	1.021879578	4.858504457
11° 52′ 50″	0.20587210	0.97857891	0.210378637	4.753334331	1.021890000	4.857384817
11° 53′ 00″	0.20591954	0.97856893	0.210429265	4.752190716	1.021900424	4.856265706
11° 53′ 10″	0.20596698	0.97855894	0.210479894	4.751047628	1.021910850	4.855147121
11° 53′ 20″	0.20601442	0.97854895	0.210530523	4.749905067	1.021921279	4.854029063
11° 53′ 30″	0.20606186	0.97853897	0.210581154	4.748763031	1.021931711	4.852911531
11° 53′ 40″	0.20610931	0.97852897	0.210631786	4.747621521	1.021942146	4.851794525
11° 53′ 50″	0.20615675	0.97851898	0.210682419	4.746480537	1.021952583	4.850678044
11° 54′ 00″	0.20620419	0.97850899	0.210733053	4.745340077	1.021963023	4.849562089
11° 54′ 10″	0.20625162	0.97849899	0.210783687	4.744200143	1.021973465	4.848446658
11° 54′ 20″	0.20629906	0.97848899	0.210834323	4.743060732	1.021983910	4.847331751
11° 54′ 30″	0.20634650	0.97847898	0.210884960	4.741921845	1.021994357	4.846217369
11° 54′ 40″	0.20639394	0.97846898	0.210935598	4.740783482	1.022004808	4.845103510
11° 54′ 50″	0.20644138	0.97845897	0.210986237	4.739645642	1.022015260	4.843990175
11° 55′ 00″	0.20648881	0.97844896	0.211036877	4.738508325	1.022025716	4.842877363
11° 55′ 10″	0.20653625	0.97843895	0.211087518	4.737371531	1.022036174	4.841765073
11° 55′ 20″	0.20658369	0.97842894	0.211138160	4.736235258	1.022046634	4.840653305
11° 55′ 30″	0.20663112	0.97841892	0.211188804	4.735099507	1.022057098	4.839542059
11° 55′ 40″	0.20667856	0.97840890	0.211239448	4.733964277	1.022067563	4.838431334
11° 55′ 50″	0.20672599	0.97839888	0.211290093	4.732829569	1.022078032	4.837321131
11° 56′ 00″	0.20677342	0.97838885	0.211340739	4.731695381	1.022088503	4.836211448
11° 56′ 10″ 11° 56′ 20″	0.20682086	0.97837883	0.211391387	4.730561713	1.022098977	4.835102286
11° 56′ 20″ 11° 56′ 30″	0.20686829	0.97836880	0.211442035	4.729428565	1.022109453	4.833993644
11° 56′ 40″	0.20691572 0.20696315	0.97835877 0.97834874	0.211492684 0.211543335	4.728295936 4.727163827	1.022119932 1.022130414	4.832885521 4.831777918
11° 56′ 50″	0.20676313	0.97833870	0.211543333	4.72/16362/	1.022130414	4.830670834
11° 57′ 00″	0.20701037	0.77833870	0.211644639	4.724901165	1.022140878	4.829564268
11° 57′ 10″	0.20703802	0.77832867	0.211695292	4.723770611	1.022161874	4.828458220
11° 57′ 20″	0.20715288	0.77831863	0.211745947	4.722640574	1.022172366	4.827352690
11° 57′ 30″	0.20720031	0.97829854	0.211796602	4.721511056	1.022182861	4.826247678
11° 57′ 40″	0.20724774	0.97828849	0.211847259	4.720382054	1.022193358	4.825143183
11° 57′ 50″	0.20729516	0.97827844	0.211897917	4.719253568	1.022203858	4.824039204
11° 58′ 00″	0.20734259	0.97826839	0.211948576	4.718125599	1.022214360	4.822935742
11° 58′ 10″	0.20739002	0.97825834	0.211999235	4.716998146	1.022224866	4.821832796
11° 58′ 20″	0.20743745	0.97824828	0.212049896	4.715871209	1.022235373	4.820730366
11° 58′ 30″	0.20748487	0.97823823	0.212100558	4.714744786	1.022245884	4.819628450
11° 58′ 40″	0.20753230	0.97822817	0.212151221	4.713618879	1.022256397	4.818527050
11° 58′ 50″	0.20757973	0.97821810	0.212201885	4.712493486	1.022266912	4.817426165
11° 59′ 00″	0.20762715	0.97820804	0.212252550	4.711368607	1.022277431	4.816325793
11° 59′ 10″	0.20767458	0.97819797	0.212303216	4.710244242	1.022287951	4.815225936
11° 59′ 20″	0.20772200	0.97818790	0.212353883	4.709120390	1.022298475	4.814126592
11° 59′ 30″	0.20776942	0.97817783	0.212404551	4.707997051	1.022309001	4.813027761
11° 59′ 40″	0.20781685	0.97816776	0.212455220	4.706874225	1.022319530	4.811929444
11° 59′ 50″	0.20786427	0.97815768	0.212505890	4.705751911	1.022330061	4.810831638

90 11° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
12° 00′ 00″	0.20791169	0.97814760	0.212556562	4.704630109	1.022340595	4.809734345
12° 00′ 10″	0.20795911	0.97813752	0.212607234	4.703508819	1.022351131	4.808637563
12° 00′ 20″	0.20800653	0.97812744	0.212657907	4.702388040	1.022361671	4.807541293
12° 00′ 30″	0.20805395	0.97811735	0.212708582	4.701267773	1.022372212	4.806445534
12° 00′ 40″	0.20810137	0.97810726	0.212759257	4.700148015	1.022382757	4.805350285
12° 00′ 50″	0.20814879	0.97809717	0.212809934	4.699028768	1.022393304	4.804255547
12° 01′ 00″	0.20819621	0.97808708	0.212860611	4.697910031	1.022403854	4.803161319
12° 01′ 10″	0.20824363	0.97807699	0.212911290	4.696791803	1.022414406	4.802067600
12° 01′ 20″	0.20829105	0.97806689	0.212961969	4.695674084	1.022424961	4.800974391
12° 01′ 30″	0.20833847	0.97805679	0.213012650	4.694556874	1.022435518	4.799881691
12° 01′ 40″	0.20838589	0.97804669	0.213063332	4.693440173	1.022446078	4.798789499
12° 01′ 50″	0.20843330	0.97803658	0.213114014	4.692323979	1.022456641	4.797697815
12° 02′ 00″	0.20848072	0.97802648	0.213164698	4.691208293	1.022467207	4.796606639
12° 02′ 10″	0.20852813	0.97801637	0.213215383	4.690093115	1.022477775	4.795515971
12° 02′ 20″	0.20857555	0.97800626	0.213266069	4.688978444	1.022488345	4.794425810
12° 02′ 30″	0.20862296	0.97799614	0.213316756	4.687864279	1.022498919	4.793336156
12° 02′ 40″	0.20867038	0.97798603	0.213367444	4.686750621	1.022509494	4.792247008
12° 02′ 50″	0.20871779	0.97797591	0.213418133	4.685637469	1.022520073	4.791158366
12° 03′ 00″	0.20876521	0.97796579	0.213468823	4.684524822	1.022530654	4.790070230
12° 03′ 10″	0.20881262	0.97795567	0.213519514	4.683412681	1.022541238	4.788982599
12° 03′ 20″	0.20886003	0.97794554	0.213570206	4.682301044	1.022551824	4.787895474
12° 03′ 30″	0.20890744	0.97793542	0.213620900	4.681189912	1.022562413	4.786808853
12° 03′ 40″	0.20895485	0.97792529	0.213671594	4.680079285	1.022573005	4.785722736
12° 03′ 50″	0.20900227	0.97791516	0.213722289	4.678969161	1.022583599	4.784637124
12° 04′ 00″	0.20904968	0.97790502	0.213772986	4.677859541	1.022594196	4.783552015
12° 04′ 10″	0.20909709	0.97789489	0.213823683	4.676750423	1.022604795	4.782467410
12° 04′ 20″	0.20914450	0.97788475	0.213874381	4.675641809	1.022615397	4.781383307
12° 04′ 30″	0.20919190	0.97787461	0.213925081	4.674533698	1.022626002	4.780299707
12° 04′ 40″	0.20923931	0.97786446	0.213975782	4.673426088	1.022636610	4.779216609
12° 04′ 50″	0.20928672	0.97785432	0.214026483	4.672318980	1.022647219	4.778134014
12° 05′ 00″	0.20933413	0.97784417	0.214077186	4.671212374	1.022657832	4.777051919
12° 05′ 10″	0.20938154	0.97783402	0.214127890	4.670106269	1.022668447	4.775970327
12° 05′ 20″ 12° 05′ 30″	0.20942894	0.97782387	0.214178595	4.669000664	1.022679065 1.022689686	4.774889234 4.773808643
12° 05′ 30″ 12° 05′ 40″	0.20947635	0.97781371 0.97780356	0.214229300 0.214280007	4.667895560 4.666790956	1.022689686	4.772728552
12° 05′ 50″	0.20957116	0.977780336	0.214280007	4.665686852	1.022700309	
12° 06′ 00″	0.20957116	0.97778324	0.214381424	4.664583247	1.022710934	4.771648960 4.770569868
12° 06′ 10″	0.20966597	0.77778324	0.214381424	4.663480141	1.022721363	4.769491275
12° 06′ 20″	0.20766377	0.77777307	0.214432134	4.662377534	1.022742827	4.768413181
12° 06′ 30″	0.20771337	0.77776271	0.214533558	4.661275425	1.022742827	4.767335586
12° 06′ 40″	0.20980818	0.97774257	0.214584271	4.660173814	1.022764102	4.766258489
12° 06′ 50″	0.20785558	0.97773240	0.214634985	4.659072701	1.022774744	4.765181889
12° 07′ 00″	0.20783338	0.77773240	0.214685700	4.657972085	1.022785388	4.764105787
12° 07′ 10″	0.20995038	0.97771204	0.214736417	4.656871967	1.022796035	4.763030182
12° 07′ 20″	0.20999778	0.97770186	0.214787134	4.655772344	1.022806684	4.761955074
12° 07′ 30″	0.21004518	0.97769168	0.214837853	4.654673218	1.022817336	4.760880462
12° 07′ 40″	0.21009258	0.97768150	0.214888572	4.653574589	1.022827991	4.759806346
12° 07′ 50″	0.21013998	0.97767131	0.214939293	4.652476454	1.022838648	4.758732726
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91 12° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
12° 08′ 00″	0.21018738	0.97766112	0.214990015	4.651378815	1.022849308	4.757659601
12° 08′ 10″	0.21023478	0.97765093	0.215040737	4.650281671	1.022859970	4.756586972
12° 08′ 20″	0.21028217	0.97764074	0.215091461	4.649185022	1.022870635	4.755514837
12° 08′ 30″	0.21032957	0.97763054	0.215142186	4.648088866	1.022881303	4.754443197
12° 08′ 40″	0.21037697	0.97762034	0.215192912	4.646993205	1.022891973	4.753372050
12° 08′ 50″	0.21042436	0.97761014	0.215243639	4.645898037	1.022902646	4.752301397
12° 09′ 00″	0.21047176	0.97759994	0.215294367	4.644803363	1.022913322	4.751231238
12° 09′ 10″	0.21051915	0.97758973	0.215345096	4.643709181	1.022924000	4.750161572
12° 09′ 20″	0.21056655	0.97757953	0.215395826	4.642615492	1.022934681	4.749092398
12° 09′ 30″	0.21061394	0.97756932	0.215446557	4.641522295	1.022945365	4.748023717
12° 09′ 40″	0.21066134	0.97755910	0.215497290	4.640429590	1.022956051	4.746955528
12° 09′ 50″	0.21070873	0.97754889	0.215548023	4.639337377	1.022966740	4.745887830
12° 10′ 00″	0.21075612	0.97753867	0.215598757	4.638245655	1.022977431	4.744820624
12° 10′ 10″	0.21080352	0.97752845	0.215649493	4.637154423	1.022988125	4.743753909
12° 10′ 20″	0.21085091	0.97751823	0.215700229	4.636063683	1.022998822	4.742687684
12° 10′ 30″	0.21089830	0.97750801	0.215750967	4.634973432	1.023009521	4.741621950
12° 10′ 40″	0.21094569	0.97749778	0.215801706	4.633883671	1.023020223	4.740556706
12° 10′ 50″	0.21099308	0.97748756	0.215852445	4.632794400	1.023030927	4.739491951
12° 11′ 00″	0.21104047	0.97747732	0.215903186	4.631705618	1.023041634	4.738427686
12° 11′ 10″	0.21108786	0.97746709	0.215953928	4.630617325	1.023052344	4.737363910
12° 11′ 20″	0.21113525	0.97745686	0.216004671	4.629529521	1.023063057	4.736300622
12° 11′ 30″	0.21118263	0.97744662	0.216055415	4.628442204	1.023073772	4.735237823
12° 11′ 40″	0.21123002	0.97743638	0.216106160	4.627355376	1.023084489	4.734175511
12° 11′ 50″	0.21127741	0.97742614	0.216156906	4.626269035	1.023095210	4.733113688
12° 12′ 00″	0.21132480	0.97741589	0.216207653	4.625183181	1.023105933	4.732052352
12° 12′ 10″	0.21137218	0.97740565	0.216258401	4.624097814	1.023116658	4.730991502
12° 12′ 20″	0.21141957	0.97739540	0.216309150	4.623012934	1.023127386	4.729931140
12° 12′ 30″	0.21146695	0.97738515	0.216359901	4.621928540	1.023138117	4.728871263
12° 12′ 40″	0.21151434	0.97737489	0.216410652	4.620844631	1.023148851	4.727811873
12° 12′ 50″	0.21156172	0.97736464	0.216461405	4.619761208	1.023159587	4.726752968
12° 13′ 00″	0.21160911	0.97735438	0.216512158	4.618678271	1.023170325	4.725694549
12° 13′ 10″	0.21165649	0.97734412	0.216562913	4.617595818	1.023181067	4.724636615
12° 13′ 20″	0.21170387	0.97733386	0.216613668	4.616513850	1.023191811	4.723579165
12° 13′ 30″	0.21175125	0.97732359	0.216664425	4.615432366	1.023202557	4.722522200
12° 13′ 40″	0.21179864	0.97731333	0.216715183	4.614351366	1.023213306	4.721465718
12° 13′ 50″	0.21184602	0.97730306		4.613270850	1.023224058	4.720409721
12° 14′ 00″	0.21189340	0.97729279	0.216816702	4.612190816	1.023234813	4.719354206
12° 14′ 10″	0.21194078	0.97728251	0.216867463	4.611111266	1.023245570	4.718299175
12° 14′ 20″	0.21198816	0.97727223	0.216918225	4.610032198	1.023256330	4.717244627
12° 14′ 30″	0.21203554	0.97726196	0.216968988	4.608953612	1.023267092	4.716190560
12° 14′ 40″	0.21208292	0.97725168	0.217019752	4.607875509	1.023277857	4.715136976
12° 14′ 50″	0.21213029	0.97724139	0.217070517	4.606797887	1.023288625	4.714083874
12° 15′ 00″	0.21217767	0.97723111	0.217121284	4.605720746	1.023299395	4.713031253
12° 15′ 10″	0.21222505	0.97722082	0.217172051	4.604644086	1.023310168	4.711979113
12° 15′ 20″	0.21227243	0.97721053	0.217222819	4.603567907	1.023320943	4.710927453
12° 15′ 30″	0.21231980	0.97720024	0.217273589	4.602492208	1.023331722	4.709876275
12° 15′ 40″ 12° 15′ 50″	0.21236718	0.97718994	0.217324360	4.601416989	1.023342502	4.708825576
12- 15: 50"	0.21241455	0.97717964	0.217375131	4.600342249	1.023353286	4.707775357

92 12° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
12° 16′ 00″	0.21246193	0.97716935	0.217425904	4.599267989	1.023364072	4.706725617
12° 16′ 10″	0.21250930	0.97715904	0.217476678	4.598194208	1.023374861	4.705676356
12° 16′ 20″	0.21255668	0.97714874	0.217527453	4.597120905	1.023385652	4.704627575
12° 16′ 30″	0.21260405	0.97713843	0.217578229	4.596048081	1.023396446	4.703579271
12° 16′ 40″	0.21265142	0.97712812	0.217629006	4.594975735	1.023407243	4.702531446
12° 16′ 50″	0.21269879	0.97711781	0.217679784	4.593903866	1.023418042	4.701484099
12° 17′ 00″	0.21274617	0.97710750	0.217730563	4.592832475	1.023428844	4.700437229
12° 17′ 10″	0.21279354	0.97709719	0.217781343	4.591761560	1.023439648	4.699390836
12° 17′ 20″	0.21284091	0.97708687	0.217832124	4.590691123	1.023450455	4.698344920
12° 17′ 30″	0.21288828	0.97707655	0.217882907	4.589621162	1.023461265	4.697299480
12° 17′ 40″	0.21293565	0.97706623	0.217933690	4.588551677	1.023472077	4.696254517
12° 17′ 50″	0.21298302	0.97705590	0.217984475	4.587482667	1.023482893	4.695210030
12° 18′ 00″	0.21303039	0.97704557	0.218035260	4.586414133	1.023493710	4.694166018
12° 18′ 10″	0.21307775	0.97703525	0.218086047	4.585346074	1.023504530	4.693122481
12° 18′ 20″	0.21312512	0.97702491	0.218136835	4.584278490	1.023515353	4.692079419
12° 18′ 30″	0.21317249	0.97701458	0.218187624	4.583211381	1.023526179	4.691036832
12° 18′ 40″	0.21321986	0.97700424	0.218238414	4.582144745	1.023537007	4.689994719
12° 18′ 50″	0.21326722	0.97699391	0.218289205	4.581078583	1.023547838	4.688953080
12° 19′ 00″	0.21331459	0.97698357	0.218339997	4.580012895	1.023558672	4.687911914
12° 19′ 10″	0.21336195	0.97697322	0.218390790	4.578947680	1.023569508	4.686871222
12° 19′ 20″	0.21340932	0.97696288	0.218441584	4.577882938	1.023580346	4.685831003
12° 19′ 30″	0.21345668	0.97695253	0.218492379	4.576818668	1.023591188	4.684791257
12° 19′ 40″	0.21350405	0.97694218	0.218543176	4.575754870	1.023602032	4.683751982
12° 19′ 50″	0.21355141	0.97693183	0.218593973	4.574691544	1.023612879	4.682713180
12° 20′ 00″	0.21359877	0.97692147	0.218644772	4.573628690	1.023623728	4.681674850
12° 20′ 10″	0.21364613	0.97691112	0.218695571	4.572566307	1.023634580	4.680636990
12° 20′ 20″	0.21369350	0.97690076	0.218746372	4.571504395	1.023645434	4.679599602
12° 20′ 30″	0.21374086	0.97689040	0.218797174	4.570442954	1.023656292	4.678562685
12° 20′ 40″	0.21378822	0.97688003	0.218847976	4.569381983	1.023667151	4.677526238
12° 20′ 50″	0.21383558	0.97686967	0.218898780	4.568321482	1.023678014	4.676490261
12° 21′ 00″	0.21388294	0.97685930	0.218949585	4.567261450	1.023688879	4.675454754
12° 21′ 10″	0.21393030	0.97684893	0.219000391	4.566201888	1.023699747	4.674419716
12° 21′ 20″	0.21397766	0.97683856	0.219051198	4.565142795	1.023710617	4.673385148
12° 21′ 30″	0.21402501	0.97682818	0.219102007	4.564084171	1.023721490	4.672351048
12° 21′ 40″ 12° 21′ 50″	0.21407237	0.97681780	0.219152816	4.563026015	1.023732366	4.671317417
12° 21′ 50″ 12° 22′ 00″	0.21411973	0.97680742	0.219203626	4.561968327	1.023743244	4.670284254
12° 22′ 10″	0.21416709 0.21421444	0.97679704 0.97678666	0.219254438 0.219305250	4.560911106	1.023754125	4.669251559
12° 22′ 20″	0.21421444	0.97677627	0.219356064	4.559854354 4.558798068	1.023765009 1.023775895	4.668219331 4.667187571
12° 22′ 30″	0.21426180	0.97676588	0.219336064	4.557742249	1.023773873	4.666156278
12° 22′ 40″	0.21430913	0.97675549	0.219457694	4.556686897	1.023786784	4.665125451
12° 22′ 40″ 12° 22′ 50″	0.21433631	0.97673549	0.219437694	4.555632011	1.023/9/6/3	4.664095091
12° 23′ 00″	0.21445122	0.97673470	0.219559329	4.554577590	1.023819466	4.663065197
12° 23′ 10″	0.21449857	0.97672430	0.217537327	4.553523636	1.023830365	4.662035768
12° 23′ 20″	0.21447837	0.97671390	0.217610148	4.552470146	1.023830363	4.661006805
12° 23′ 30″	0.21459327	0.97670350	0.217660768	4.551417122	1.023852172	4.659978306
12° 23′ 40″	0.21457327	0.77670330	0.217711787	4.550364562	1.023863079	4.658950273
12° 23′ 50″	0.21468798	0.97668269	0.217702012	4.549312466	1.023873989	4.657922704
	0.21 1007 70	0.77000207	0.21/01J 1 JJ	1.3 1/312700	1.0230/3/0/	1.037 / 227 04

93 12° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
12° 24′ 00″	0.21473533	0.97667228	0.219864259	4.548260834	1.023884902	4.656895599
12° 24′ 10″	0.21478268	0.97666187	0.219915085	4.547209667	1.023895817	4.655868958
12° 24′ 20″	0.21483003	0.97665145	0.219965912	4.546158962	1.023906735	4.654842780
12° 24′ 30″	0.21487738	0.97664104	0.220016739	4.545108720	1.023917656	4.653817066
12° 24′ 40″	0.21492472	0.97663062	0.220067568	4.544058942	1.023928579	4.652791814
12° 24′ 50″	0.21497207	0.97662020	0.220118398	4.543009625	1.023939505	4.651767025
12° 25′ 00″	0.21501942	0.97660977	0.220169229	4.541960771	1.023950433	4.650742698
12° 25′ 10″	0.21506677	0.97659935	0.220220061	4.540912379	1.023961364	4.649718833
12° 25′ 20″	0.21511411	0.97658892	0.220270894	4.539864448	1.023972298	4.648695430
12° 25′ 30″	0.21516146	0.97657849	0.220321728	4.538816978	1.023983234	4.647672488
12° 25′ 40″	0.21520881	0.97656806	0.220372563	4.537769969	1.023994173	4.646650008
12° 25′ 50″	0.21525615	0.97655762	0.220423400	4.536723421	1.024005115	4.645627987
12° 26′ 00″	0.21530350	0.97654719	0.220474237	4.535677333	1.024016059	4.644606428
12° 26′ 10″	0.21535084	0.97653675	0.220525076	4.534631705	1.024027006	4.643585328
12° 26′ 20″	0.21539818	0.97652630	0.220575915	4.533586536	1.024037956	4.642564688
12° 26′ 30″	0.21544553	0.97651586	0.220626756	4.532541827	1.024048908	4.641544508
12° 26′ 40″	0.21549287	0.97650541	0.220677598	4.531497577	1.024059863	4.640524787
12° 26′ 50″	0.21554021	0.97649497	0.220728441	4.530453786	1.024070820	4.639505524
12° 27′ 00″	0.21558755	0.97648451	0.220779285	4.529410453	1.024081780	4.638486720
12° 27′ 10″	0.21563489	0.97647406	0.220830130	4.528367579	1.024092743	4.637468375
12° 27′ 20″	0.21568223	0.97646361	0.220880976	4.527325162	1.024103708	4.636450487
12° 27′ 30″	0.21572957	0.97645315	0.220931823	4.526283202	1.024114676	4.635433057
12° 27′ 40″	0.21577691	0.97644269	0.220982671	4.525241700	1.024125647	4.634416084
12° 27′ 50″	0.21582425	0.97643223	0.221033521	4.524200655	1.024136620	4.633399569
12° 28′ 00″	0.21587159	0.97642176	0.221084371	4.523160066	1.024147596	4.632383510
12° 28′ 10″	0.21591893	0.97641129	0.221135223	4.522119933	1.024158575	4.631367907
12° 28′ 20″	0.21596627	0.97640083	0.221186076	4.521080257	1.024169556	4.630352761
12° 28′ 30″	0.21601360	0.97639035	0.221236929	4.520041036	1.024180540	4.629338070
12° 28′ 40″	0.21606094	0.97637988	0.221287784	4.519002271	1.024191527	4.628323835
12° 28′ 50″	0.21610828	0.97636940	0.221338640	4.517963960	1.024202516	4.627310055
12° 29′ 00″	0.21615561	0.97635893	0.221389497	4.516926105	1.024213508	4.626296730
12° 29′ 10″	0.21620295	0.97634844	0.221440356	4.515888703	1.024224502	4.625283860
12° 29′ 20″ 12° 29′ 30″	0.21625028	0.97633796 0.97632748	0.221491215	4.514851756	1.024235499	4.624271443
12° 29′ 30″ 12° 29′ 40″	0.21629762 0.21634495	0.97632748	0.221542075 0.221592937	4.513815263 4.512779224	1.024246499 1.024257502	4.623259481 4.622247973
12° 29′ 50″	0.21634473	0.97630650	0.221643799	4.512779224	1.024257502	
12° 30′ 00″	0.21637228	0.97629601	0.221643744	4.511743637	1.024266307	4.621236917 4.620226315
12° 30′ 10″	0.21648695	0.97628551	0.221745527	4.509673823	1.024277514	4.619216166
12° 30′ 10″	0.21653428	0.77628551	0.221745327	4.508639594	1.024270323	4.618206469
12° 30′ 30″	0.21658161	0.77627302	0.221776373	4.507605818	1.024312553	4.617197224
12° 30′ 40″	0.21662894	0.97625402	0.221898128	4.506572493	1.024323572	4.616188432
12° 30′ 50″	0.21667627	0.97624351	0.221948997	4.505539620	1.024334592	4.615180090
12° 31′ 00″	0.21672360	0.97623301	0.221748777	4.504507198	1.024345616	4.614172200
12° 31′ 10″	0.21677093	0.97622250	0.222050739	4.503475226	1.024356642	4.613164761
12° 31′ 20″	0.21681825	0.97621199	0.222101611	4.502443706	1.024367671	4.612157773
12° 31′ 30″	0.21686558	0.97620147	0.222152484	4.501412635	1.024378703	4.611151235
12° 31′ 40″	0.21691291	0.97619096	0.222203359	4.500382014	1.024389737	4.610145147
12° 31′ 50″	0.21696024	0.97618044	0.222254235	4.499351843	1.024400774	4.609139509
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94 12° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
12° 32′ 00″	0.21700756	0.97616992	0.222305111	4.498322122	1.024411813	4.608134320
12° 32′ 10″	0.21705489	0.97615940	0.222355989	4.497292849	1.024422855	4.607129580
12° 32′ 20″	0.21710221	0.97614888	0.222406868	4.496264025	1.024433900	4.606125290
12° 32′ 30″	0.21714954	0.97613835	0.222457748	4.495235650	1.024444947	4.605121448
12° 32′ 40″	0.21719686	0.97612782	0.222508629	4.494207722	1.024455997	4.604118054
12° 32′ 50″	0.21724419	0.97611729	0.222559512	4.493180243	1.024467050	4.603115108
12° 33′ 00″	0.21729151	0.97610676	0.222610395	4.492153211	1.024478105	4.602112610
12° 33′ 10″	0.21733883	0.97609622	0.222661279	4.491126626	1.024489163	4.601110559
12° 33′ 20″	0.21738616	0.97608568	0.222712165	4.490100489	1.024500224	4.600108955
12° 33′ 30″	0.21743348	0.97607514	0.222763051	4.489074798	1.024511287	4.599107798
12° 33′ 40″	0.21748080	0.97606460	0.222813939	4.488049553	1.024522353	4.598107088
12° 33′ 50″	0.21752812	0.97605405	0.222864828	4.487024754	1.024533421	4.597106823
12° 34′ 00″	0.21757544	0.97604351	0.222915718	4.486000401	1.024544493	4.596107005
12° 34′ 10″	0.21762276	0.97603296	0.222966609	4.484976494	1.024555566	4.595107632
12° 34′ 20″	0.21767008	0.97602241	0.223017501	4.483953032	1.024566643	4.594108705
12° 34′ 30″	0.21771740	0.97601185	0.223068394	4.482930014	1.024577722	4.593110222
12° 34′ 40″	0.21776471	0.97600130	0.223119289	4.481907442	1.024588804	4.592112184
12° 34′ 50″	0.21781203	0.97599074	0.223170184	4.480885313	1.024599888	4.591114591
12° 35′ 00″	0.21785935	0.97598018	0.223221081	4.479863629	1.024610975	4.590117442
12° 35′ 10″	0.21790667	0.97596961	0.223271978	4.478842388	1.024622065	4.589120737
12° 35′ 20″	0.21795398	0.97595905	0.223322877	4.477821590	1.024633157	4.588124475
12° 35′ 30″	0.21800130	0.97594848	0.223373777	4.476801236	1.024644252	4.587128656
12° 35′ 40″	0.21804861	0.97593791	0.223424678	4.475781325	1.024655350	4.586133281
12° 35′ 50″	0.21809593	0.97592734	0.223475580	4.474761856	1.024666450	4.585138348
12° 36′ 00″	0.21814324	0.97591676	0.223526483	4.473742829	1.024677553	4.584143857
12° 36′ 10″	0.21819055	0.97590618	0.223577387	4.472724244	1.024688659	4.583149809
12° 36′ 20″	0.21823787	0.97589561	0.223628292	4.471706101	1.024699767	4.582156202
12° 36′ 30″	0.21828518	0.97588502	0.223679199	4.470688400	1.024710878	4.581163037
12° 36′ 40″	0.21833249	0.97587444	0.223730107	4.469671139	1.024721992	4.580170312
12° 36′ 50″	0.21837980	0.97586385	0.223781015	4.468654319	1.024733108	4.579178029
12° 37′ 00″	0.21842711	0.97585327	0.223831925	4.467637940	1.024744227	4.578186187
12° 37′ 10″	0.21847443	0.97584267	0.223882836	4.466622001	1.024755348	4.577194785
12° 37′ 20″	0.21852174	0.97583208	0.223933748	4.465606501	1.024766473	4.576203822
12° 37′ 30″	0.21856904	0.97582149	0.223984661	4.464591442	1.024777599	4.575213300
12° 37′ 40″	0.21861635	0.97581089	0.224035575	4.463576821	1.024788729	4.574223217
12° 37′ 50″	0.21866366	0.97580029	0.224086490	4.462562640	1.024799861	4.573233573
12° 38′ 00″	0.21871097	0.97578969	0.224137407	4.461548897	1.024810996	4.572244368
12° 38′ 10″	0.21875828	0.97577908	0.224188324	4.460535593	1.024822133	4.571255602
12° 38′ 20″	0.21880558	0.97576847	0.224239243	4.459522727	1.024833273	4.570267274
12° 38′ 30″	0.21885289	0.97575787	0.224290163	4.458510299	1.024844416	4.569279384
12° 38′ 40″	0.21890020	0.97574725	0.224341083	4.457498309	1.024855561	4.568291932
12° 38′ 50″	0.21894750	0.97573664	0.224392005	4.456486756	1.024866709	4.567304917
12° 39′ 00″	0.21899481	0.97572602	0.224442928	4.455475639	1.024877860	4.566318339
12° 39′ 10″	0.21904211	0.97571541	0.224493853	4.454464960	1.024889013	4.565332198
12° 39′ 20″	0.21908941	0.97570479	0.224544778	4.453454717	1.024900169	4.564346494
12° 39′ 30″	0.21913672	0.97569416	0.224595704	4.452444910	1.024911328	4.563361226
12° 39′ 40″	0.21918402	0.97568354	0.224646632	4.451435539	1.024922489	4.562376394
12° 39′ 50″	0.21923132	0.97567291	0.224697560	4.450426604	1.024933653	4.561391998
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95 12° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
12° 40′ 00″	0.21927862	0.97566228	0.224748490	4.449418104	1.024944820	4.560408037
12° 40′ 10″	0.21932593	0.97565165	0.224799421	4.448410038	1.024955989	4.559424511
12° 40′ 20″	0.21937323	0.97564101	0.224850353	4.447402408	1.024967161	4.558441420
12° 40′ 30″	0.21942053	0.97563038	0.224901286	4.446395212	1.024978336	4.557458764
12° 40′ 40″	0.21946783	0.97561974	0.224952220	4.445388450	1.024989513	4.556476541
12° 40′ 50″	0.21951512	0.97560910	0.225003155	4.444382122	1.025000693	4.555494753
12° 41′ 00″	0.21956242	0.97559845	0.225054091	4.443376228	1.025011875	4.554513399
12° 41′ 10″	0.21960972	0.97558781	0.225105029	4.442370767	1.025023060	4.553532478
12° 41′ 20″	0.21965702	0.97557716	0.225155968	4.441365738	1.025034248	4.552551990
12° 41′ 30″	0.21970432	0.97556651	0.225206907	4.440361143	1.025045439	4.551571935
12° 41′ 40″	0.21975161	0.97555586	0.225257848	4.439356980	1.025056632	4.550592313
12° 41′ 50″	0.21979891	0.97554520	0.225308790	4.438353249	1.025067827	4.549613123
12° 42′ 00″	0.21984620	0.97553454	0.225359733	4.437349950	1.025079026	4.548634364
12° 42′ 10″	0.21989350	0.97552388	0.225410677	4.436347083	1.025090227	4.547656038
12° 42′ 20″	0.21994079	0.97551322	0.225461622	4.435344647	1.025101431	4.546678143
12° 42′ 30″	0.21998809	0.97550256	0.225512569	4.434342642	1.025112637	4.545700679
12° 42′ 40″	0.22003538	0.97549189	0.225563516	4.433341067	1.025123846	4.544723646
12° 42′ 50″	0.22008267	0.97548122	0.225614465	4.432339924	1.025135058	4.543747044
12° 43′ 00″	0.22012997	0.97547055	0.225665415	4.431339210	1.025146272	4.542770872
12° 43′ 10″	0.22017726	0.97545988	0.225716365	4.430338926	1.025157489	4.541795130
12° 43′ 20″	0.22022455	0.97544920	0.225767317	4.429339072	1.025168709	4.540819817
12° 43′ 30″	0.22027184	0.97543853	0.225818270	4.428339647	1.025179931	4.539844934
12° 43′ 40″	0.22031913	0.97542784	0.225869225	4.427340651	1.025191156	4.538870481
12° 43′ 50″	0.22036642	0.97541716	0.225920180	4.426342084	1.025202384	4.537896456
12° 44′ 00″	0.22041371	0.97540648	0.225971136	4.425343945	1.025213614	4.536922860
12° 44′ 10″	0.22046100	0.97539579	0.226022094	4.424346235	1.025224847	4.535949692
12° 44′ 20″	0.22050829	0.97538510	0.226073053	4.423348953	1.025236083	4.534976952
12° 44′ 30″	0.22055557	0.97537441	0.226124012	4.422352098	1.025247321	4.534004640
12° 44′ 40″	0.22060286	0.97536372	0.226174973	4.421355670	1.025258562	4.533032756
12° 44′ 50″	0.22065015	0.97535302	0.226225935	4.420359670	1.025269805	4.532061298
12° 45′ 00″	0.22069744	0.97534232	0.226276898	4.419364096	1.025281052	4.531090268
12° 45′ 10″	0.22074472	0.97533162	0.226327862	4.418368949	1.025292300	4.530119664
12° 45′ 20″ 12° 45′ 30″	0.22079201	0.97532092	0.226378828	4.417374229	1.025303552	4.529149487
12° 45′ 30″ 12° 45′ 40″	0.22083929 0.22088657	0.97531021 0.97529950	0.226429794 0.226480762	4.416379934 4.415386065	1.025314806 1.025326063	4.528179736 4.527210410
12° 45′ 50″	0.22088837	0.97528879	0.226531731	4.413386063	1.025326063	4.526241511
12° 46′ 00″	0.22093386	0.97527808	0.226582700	4.414372621	1.025348585	4.525273036
12° 46′ 10″	0.22102842	0.97526737	0.226633671	4.412407009	1.025359850	4.524304986
12° 46′ 20″	0.22102642	0.97525665	0.226684643	4.411414839	1.025377830	4.523337361
12° 46′ 30″	0.22107371	0.77523663	0.226735617	4.410423095	1.025382387	4.522370161
12° 46′ 40″	0.22117027	0.77524575	0.226786591	4.409431774	1.025393660	4.521403385
12° 46′ 50″	0.22117027	0.77523321	0.226837566	4.408440877	1.025404935	4.520437032
12° 47′ 00″	0.22121733	0.97521376	0.226888543	4.407450403	1.025416214	4.519471104
12° 47′ 10″	0.22120403	0.97520303	0.226939521	4.406460353	1.025427494	4.518505598
12° 47′ 20″	0.22135939	0.97519230	0.226990499	4.405470725	1.025438778	4.517540516
12° 47′ 30″	0.22140667	0.97518157	0.227041479	4.404481520	1.025450064	4.516575856
12° 47′ 40″	0.22145394	0.97517083	0.227092460	4.403492738	1.025461353	4.515611619
12° 47′ 50″	0.22150122	0.97516009	0.227143443	4.402504378	1.025472644	4.514647804
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96 12° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
12° 48′ 00″	0.22154850	0.97514935	0.227194426	4.401516439	1.025483938	4.513684411
12° 48′ 10″	0.22159577	0.97513861	0.227245410	4.400528922	1.025495235	4.512721440
12° 48′ 20″	0.22164305	0.97512787	0.227296396	4.399541826	1.025506534	4.511758890
12° 48′ 30″	0.22169033	0.97511712	0.227347382	4.398555152	1.025517836	4.510796761
12° 48′ 40″	0.22173760	0.97510637	0.227398370	4.397568897	1.025529141	4.509835053
12° 48′ 50″	0.22178487	0.97509562	0.227449359	4.396583064	1.025540448	4.508873766
12° 49′ 00″	0.22183215	0.97508487	0.227500349	4.395597651	1.025551758	4.507912899
12° 49′ 10″	0.22187942	0.97507411	0.227551340	4.394612657	1.025563071	4.506952452
12° 49′ 20″	0.22192669	0.97506335	0.227602333	4.393628083	1.025574386	4.505992425
12° 49′ 30″	0.22197397	0.97505259	0.227653326	4.392643929	1.025585704	4.505032817
12° 49′ 40″	0.22202124	0.97504183	0.227704320	4.391660193	1.025597025	4.504073629
12° 49′ 50″	0.22206851	0.97503106	0.227755316	4.390676877	1.025608348	4.503114859
12° 50′ 00″	0.22211578	0.97502030	0.227806313	4.389693979	1.025619674	4.502156508
12° 50′ 10″	0.22216305	0.97500953	0.227857311	4.388711499	1.025631003	4.501198576
12° 50′ 20″	0.22221032	0.97499876	0.227908310	4.387729437	1.025642334	4.500241062
12° 50′ 30″	0.22225759	0.97498798	0.227959310	4.386747793	1.025653668	4.499283965
12° 50′ 40″	0.22230486	0.97497721	0.228010311	4.385766566	1.025665005	4.498327286
12° 50′ 50″	0.22235212	0.97496643	0.228061314	4.384785757	1.025676344	4.497371025
12° 51′ 00″	0.22239939	0.97495565	0.228112317	4.383805364	1.025687686	4.496415180
12° 51′ 10″	0.22244666	0.97494486	0.228163322	4.382825388	1.025699031	4.495459752
12° 51′ 20″	0.22249392	0.97493408	0.228214328	4.381845829	1.025710378	4.494504741
12° 51′ 30″	0.22254119	0.97492329	0.228265335	4.380866686	1.025721728	4.493550146
12° 51′ 40″	0.22258846	0.97491250	0.228316343	4.379887958	1.025733080	4.492595967
12° 51′ 50″	0.22263572	0.97490171	0.228367352	4.378909646	1.025744436	4.491642204
12° 52′ 00″	0.22268299	0.97489091	0.228418362	4.377931749	1.025755794	4.490688856
12° 52′ 10″	0.22273025	0.97488011	0.228469374	4.376954268	1.025767154	4.489735923
12° 52′ 20″	0.22277751	0.97486931	0.228520386	4.375977201	1.025778517	4.488783405
12° 52′ 30″	0.22282477	0.97485851	0.228571400	4.375000548	1.025789883	4.487831302
12° 52′ 40″	0.22287204	0.97484771	0.228622415	4.374024310	1.025801252	4.486879613
12° 52′ 50″	0.22291930	0.97483690	0.228673431	4.373048486	1.025812623	4.485928339
12° 53′ 00″	0.22296656	0.97482609	0.228724448	4.372073075	1.025823997	4.484977478
12° 53′ 10″ 12° 53′ 20″	0.22301382	0.97481528	0.228775466	4.371098078	1.025835374	4.484027030
12° 53′ 20″ 12° 53′ 30″	0.22306108	0.97480447	0.228826485	4.370123494 4.369149323	1.025846753	4.483076996
12° 53′ 30″ 12° 53′ 40″	0.22310834 0.22315560	0.97479365 0.97478284	0.228877506 0.228928528	4.369149323	1.025858135 1.025869519	4.482127375 4.481178167
12° 53′ 40″	0.22313360	0.97478284	0.228979550	4.367202218	1.025880907	4.480229371
12° 54′ 00″	0.22325012	0.97477202	0.229030574	4.367202218	1.025892296	4.479280987
12° 54′ 10″	0.22329737	0.97475117	0.229081599	4.365256762	1.025872278	4.478333015
12° 54′ 20″	0.22327737	0.77473037	0.227081377	4.364284651	1.025703087	4.477385455
12° 54′ 30″	0.22339189	0.77473734	0.227132623	4.363312952	1.025713084	4.476438307
12° 54′ 40″	0.22343914	0.97471788	0.229234681	4.362341663	1.025720482	4.475491569
12° 54′ 50″	0.22348640	0.97470705	0.229285711	4.361370785	1.025949286	4.474545243
12° 55′ 00″	0.22353365	0.97469621	0.229336741	4.360400318	1.025747280	4.473599327
12° 55′ 10″	0.22358091	0.97468537	0.229387773	4.359430261	1.025770072	4.472653821
12° 55′ 20″	0.22362816	0.97467453	0.229438806	4.358460614	1.025983511	4.471708726
12° 55′ 30″	0.22367541	0.97466369	0.229489840	4.357491377	1.025994925	4.470764040
12° 55′ 40″	0.22372267	0.97465284	0.229540875	4.356522549	1.026006342	4.469819764
12° 55′ 50″	0.22376992	0.97464200	0.229591912	4.355554130	1.026017761	4.468875897
		3				

97 12° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
12° 56′ 00″	0.22381717	0.97463115	0.229642949	4.354586121	1.026029183	4.467932439
12° 56′ 10″	0.22386442	0.97462030	0.229693988	4.353618519	1.026040607	4.466989390
12° 56′ 20″	0.22391167	0.97460944	0.229745028	4.352651327	1.026052035	4.466046750
12° 56′ 30″	0.22395892	0.97459858	0.229796069	4.351684542	1.026063465	4.465104518
12° 56′ 40″	0.22400617	0.97458773	0.229847111	4.350718165	1.026074897	4.464162693
12° 56′ 50″	0.22405342	0.97457686	0.229898154	4.349752196	1.026086332	4.463221277
12° 57′ 00″	0.22410067	0.97456600	0.229949198	4.348786634	1.026097770	4.462280268
12° 57′ 10″	0.22414792	0.97455513	0.230000244	4.347821479	1.026109211	4.461339666
12° 57′ 20″	0.22419517	0.97454427	0.230051290	4.346856731	1.026120654	4.460399471
12° 57′ 30″	0.22424241	0.97453340	0.230102338	4.345892390	1.026132100	4.459459683
12° 57′ 40″	0.22428966	0.97452252	0.230153387	4.344928454	1.026143548	4.458520301
12° 57′ 50″	0.22433691	0.97451165	0.230204437	4.343964925	1.026154999	4.457581325
12° 58′ 00″	0.22438415	0.97450077	0.230255488	4.343001802	1.026166453	4.456642755
12° 58′ 10″	0.22443140	0.97448989	0.230306540	4.342039084	1.026177910	4.455704591
12° 58′ 20″	0.22447864	0.97447901	0.230357594	4.341076771	1.026189369	4.454766832
12° 58′ 30″	0.22452588	0.97446813	0.230408649	4.340114863	1.026200831	4.453829479
12° 58′ 40″	0.22457313	0.97445724	0.230459704	4.339153360	1.026212295	4.452892530
12° 58′ 50″	0.22462037	0.97444635	0.230510761	4.338192262	1.026223763	4.451955986
12° 59′ 00″	0.22466761	0.97443546	0.230561819	4.337231567	1.026235233	4.451019846
12° 59′ 10″	0.22471485	0.97442457	0.230612878	4.336271277	1.026246705	4.450084110
12° 59′ 20″	0.22476209	0.97441367	0.230663939	4.335311390	1.026258180	4.449148778
12° 59′ 30″	0.22480934	0.97440277	0.230715000	4.334351906	1.026269658	4.448213849
12° 59′ 40″	0.22485658	0.97439187	0.230766063	4.333392826	1.026281139	4.447279324
12° 59′ 50″	0.22490382	0.97438097	0.230817126	4.332434149	1.026292622	4.446345202
13° 00′ 00″	0.22495105	0.97437006	0.230868191	4.331475874	1.026304108	4.445411483
13° 00′ 10″	0.22499829	0.97435916	0.230919257	4.330518002	1.026315596	4.444478166
13° 00′ 20″	0.22504553	0.97434825	0.230970324	4.329560532	1.026327088	4.443545251
13° 00′ 30″	0.22509277	0.97433734	0.231021393	4.328603464	1.026338581	4.442612739
13° 00′ 40″	0.22514001	0.97432642	0.231072462	4.327646797	1.026350078	4.441680628
13° 00′ 50″	0.22518724	0.97431551	0.231123533	4.326690532	1.026361577	4.440748918
13° 01′ 00″	0.22523448	0.97430459	0.231174604	4.325734667	1.026373079	4.439817610
13° 01′ 10″	0.22528171	0.97429367	0.231225677	4.324779204	1.026384584	4.438886703
13° 01′ 20″	0.22532895	0.97428274	0.231276751	4.323824141	1.026396091	4.437956197
13° 01′ 30″	0.22537618	0.97427182	0.231327826	4.322869479	1.026407601	4.437026091
13° 01′ 40″	0.22542342	0.97426089	0.231378903	4.321915216	1.026419114	4.436096385
13° 01′ 50″ 13° 02′ 00″	0.22547065	0.97424996	0.231429980	4.320961354	1.026430629	4.435167079
13° 02′ 00″ 13° 02′ 10″	0.22551788	0.97423903	0.231481059	4.320007890	1.026442147	4.434238173
13° 02′ 10″ 13° 02′ 20″	0.22556511	0.97422809	0.231532138	4.319054827	1.026453667	4.433309666
13° 02′ 20″ 13° 02′ 30″	0.22561235	0.97421716	0.231583219	4.318102162	1.026465191	4.432381559
13° 02′ 30″ 13° 02′ 40″	0.22565958 0.22570681	0.97420622 0.97419528	0.231634301 0.231685385	4.317149896 4.316198029	1.026476717 1.026488245	4.431453850
13° 02′ 40″ 13° 02′ 50″	0.22575404	0.97419528	0.231685385	4.315198029	1.026488245	4.430526540 4.429599629
13° 02′ 30″ 13° 03′ 00″	0.22575404	0.97418433	0.231736469	4.313246360	1.026499776	4.429399629
13° 03′ 10″	0.22584850	0.97417339	0.231787334	4.313344815	1.026511310	4.427747000
13° 03′ 20″	0.22589572	0.97416244	0.231889729	4.312394540	1.026522647	4.427747000
13° 03′ 30″	0.22594295	0.97413149	0.231940818	4.312374340	1.026545928	4.425895962
13° 03′ 40″	0.22599018	0.97414034	0.231740818	4.311444661	1.026543728	4.424971039
13° 03′ 50″	0.22577018	0.97412938	0.231771708	4.309546095	1.026557473	4.424971037
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98 13° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
13° 04′ 00″	0.22608463	0.97410766	0.232094091	4.308597407	1.026580570	4.423122383
13° 04′ 10″	0.22613186	0.97409670	0.232145185	4.307649115	1.026592123	4.422198649
13° 04′ 20″	0.22617908	0.97408574	0.232196280	4.306701219	1.026603678	4.421275312
13° 04′ 30″	0.22622631	0.97407477	0.232247375	4.305753718	1.026615236	4.420352371
13° 04′ 40″	0.22627353	0.97406380	0.232298472	4.304806614	1.026626797	4.419429825
13° 04′ 50″	0.22632076	0.97405283	0.232349570	4.303859904	1.026638360	4.418507675
13° 05′ 00″	0.22636798	0.97404186	0.232400670	4.302913590	1.026649926	4.417585920
13° 05′ 10″	0.22641520	0.97403088	0.232451770	4.301967670	1.026661495	4.416664560
13° 05′ 20″	0.22646242	0.97401990	0.232502872	4.301022145	1.026673066	4.415743594
13° 05′ 30″	0.22650965	0.97400892	0.232553974	4.300077014	1.026684640	4.414823023
13° 05′ 40″	0.22655687	0.97399794	0.232605078	4.299132277	1.026696217	4.413902846
13° 05′ 50″	0.22660409	0.97398695	0.232656183	4.298187933	1.026707797	4.412983063
13° 06′ 00″	0.22665131	0.97397597	0.232707290	4.297243984	1.026719379	4.412063673
13° 06′ 10″	0.22669853	0.97396498	0.232758397	4.296300427	1.026730963	4.411144677
13° 06′ 20″	0.22674575	0.97395399	0.232809505	4.295357264	1.026742551	4.410226074
13° 06′ 30″	0.22679296	0.97394299	0.232860615	4.294414493	1.026754141	4.409307864
13° 06′ 40″	0.22684018	0.97393200	0.232911726	4.293472114	1.026765734	4.408390046
13° 06′ 50″	0.22688740	0.97392100	0.232962838	4.292530128	1.026777329	4.407472621
13° 07′ 00″	0.22693462	0.97391000	0.233013951	4.291588534	1.026788927	4.406555588
13° 07′ 10″	0.22698183	0.97389899	0.233065065	4.290647332	1.026800528	4.405638946
13° 07′ 20″	0.22702905	0.97388799	0.233116181	4.289706521	1.026812132	4.404722697
13° 07′ 30″	0.22707626	0.97387698	0.233167297	4.288766101	1.026823738	4.403806838
13° 07′ 40″	0.22712348	0.97386597	0.233218415	4.287826072	1.026835347	4.402891371
13° 07′ 50″	0.22717069	0.97385496	0.233269534	4.286886435	1.026846958	4.401976295
13° 08′ 00″	0.22721791	0.97384394	0.233320654	4.285947187	1.026858572	4.401061610
13° 08′ 10″	0.22726512	0.97383293	0.233371775	4.285008330	1.026870189	4.400147314
13° 08′ 20″	0.22731233	0.97382191	0.233422897	4.284069863	1.026881809	4.399233409
13° 08′ 30″	0.22735954	0.97381088	0.233474021	4.283131785	1.026893431	4.398319894
13° 08′ 40″	0.22740675	0.97379986	0.233525146	4.282194097	1.026905056	4.397406769
13° 08′ 50″	0.22745397	0.97378883	0.233576271	4.281256799	1.026916683	4.396494032
13° 09′ 00″	0.22750118	0.97377781	0.233627398	4.280319889	1.026928314	4.395581685
13° 09′ 10″	0.22754839	0.97376678	0.233678527	4.279383368	1.026939947	4.394669727
13° 09′ 20″	0.22759559	0.97375574	0.233729656	4.278447236	1.026951582	4.393758158
13° 09′ 30″	0.22764280	0.97374471	0.233780786	4.277511492	1.026963220	4.392846977
13° 09′ 40″	0.22769001	0.97373367	0.233831918	4.276576136	1.026974861	4.391936184
13° 09′ 50″	0.22773722	0.97372263	0.233883051	4.275641167	1.026986505	4.391025779
13° 10′ 00″	0.22778443	0.97371159	0.233934185	4.274706587	1.026998151	4.390115762
13° 10′ 10″	0.22783163	0.97370054	0.233985320	4.273772393	1.027009800	4.389206132
13° 10′ 20″	0.22787884	0.97368950	0.234036456	4.272838587	1.027021452	4.388296889
13° 10′ 30″	0.22792604	0.97367845	0.234087593	4.271905167	1.027033106	4.387388034
13° 10′ 40″	0.22797325	0.97366740	0.234138732	4.270972134	1.027044763	4.386479565
13° 10′ 50″	0.22802045	0.97365634	0.234189872	4.270039488	1.027056423	4.385571482
13° 11′ 00″	0.22806766	0.97364529	0.234241013	4.269107227	1.027068085	4.384663786
13° 11′ 10″	0.22811486	0.97363423	0.234292155	4.268175352	1.027079750	4.383756475
13° 11′ 20″ 13° 11′ 30″	0.22816206	0.97362317	0.234343298	4.267243863	1.027091418	4.382849551
13° 11′ 30″ 13° 11′ 40″	0.22820927	0.97361210	0.234394442	4.266312759	1.027103089	4.381943012
13° 11′ 40″ 13° 11′ 50″	0.22825647 0.22830367	0.97360104 0.97358997	0.234445588 0.234496735	4.265382040 4.264451706	1.027114762 1.027126437	4.381036858 4.380131089
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99 13° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
13° 12′ 00″	0.22835087	0.97357890	0.234547882	4.263521757	1.027138116	4.379225704
13° 12′ 10″	0.22839807	0.97356783	0.234599032	4.262592192	1.027149797	4.378320705
13° 12′ 20″	0.22844527	0.97355676	0.234650182	4.261663011	1.027161481	4.377416089
13° 12′ 30″	0.22849247	0.97354568	0.234701333	4.260734214	1.027173167	4.376511858
13° 12′ 40″	0.22853967	0.97353460	0.234752486	4.259805800	1.027184857	4.375608010
13° 12′ 50″	0.22858687	0.97352352	0.234803639	4.258877770	1.027196548	4.374704546
13° 13′ 00″	0.22863406	0.97351244	0.234854794	4.257950124	1.027208243	4.373801465
13° 13′ 10″	0.22868126	0.97350135	0.234905950	4.257022860	1.027219940	4.372898767
13° 13′ 20″	0.22872846	0.97349026	0.234957107	4.256095978	1.027231640	4.371996452
13° 13′ 30″	0.22877565	0.97347917	0.235008266	4.255169480	1.027243343	4.371094520
13° 13′ 40″	0.22882285	0.97346808	0.235059425	4.254243363	1.027255048	4.370192970
13° 13′ 50″	0.22887004	0.97345699	0.235110586	4.253317628	1.027266756	4.369291802
13° 14′ 00″	0.22891724	0.97344589	0.235161748	4.252392275	1.027278466	4.368391015
13° 14′ 10″	0.22896443	0.97343479	0.235212911	4.251467304	1.027290180	4.367490611
13° 14′ 20″	0.22901162	0.97342369	0.235264075	4.250542714	1.027301896	4.366590588
13° 14′ 30″	0.22905882	0.97341258	0.235315240	4.249618504	1.027313614	4.365690946
13° 14′ 40″	0.22910601	0.97340148	0.235366407	4.248694676	1.027325336	4.364791684
13° 14′ 50″	0.22915320	0.97339037	0.235417575	4.247771228	1.027337060	4.363892804
13° 15′ 00″	0.22920039	0.97337926	0.235468743	4.246848160	1.027348787	4.362994304
13° 15′ 10″	0.22924758	0.97336815	0.235519914	4.245925472	1.027360516	4.362096184
13° 15′ 20″	0.22929477	0.97335703	0.235571085	4.245003164	1.027372248	4.361198444
13° 15′ 30″	0.22934196	0.97334591	0.235622257	4.244081236	1.027383983	4.360301083
13° 15′ 40″	0.22938915	0.97333479	0.235673431	4.243159687	1.027395720	4.359404102
13° 15′ 50″	0.22943634	0.97332367	0.235724605	4.242238517	1.027407460	4.358507501
13° 16′ 00″	0.22948353	0.97331255	0.235775781	4.241317726	1.027419203	4.357611278
13° 16′ 10″	0.22953071	0.97330142	0.235826958	4.240397313	1.027430949	4.356715434
13° 16′ 20″	0.22957790	0.97329029	0.235878136	4.239477279	1.027442697	4.355819968
13° 16′ 30″	0.22962509	0.97327916	0.235929316	4.238557623	1.027454448	4.354924881
13° 16′ 40″	0.22967227	0.97326802	0.235980496	4.237638345	1.027466201	4.354030172
13° 16′ 50″	0.22971946	0.97325689	0.236031678	4.236719444	1.027477957	4.353135841
13° 17′ 00″	0.22976664	0.97324575	0.236082861	4.235800921	1.027489716	4.352241887
13° 17′ 10″ 13° 17′ 20″	0.22981383	0.97323461 0.97322347	0.236134045	4.234882775	1.027501478	4.351348310
13° 17′ 20″ 13° 17′ 30″	0.22990819	0.97321232	0.236185230 0.236236417	4.233965006 4.233047613	1.027513242 1.027525009	4.350455111 4.349562288
13° 17′ 40″	0.22995537	0.97321232	0.236287604	4.232130598	1.027525007	4.348669842
13° 17′ 50″	0.23000256	0.97319002	0.236338793	4.232130378	1.027538777	4.347777772
13° 18′ 00″	0.23000236	0.97317887	0.236389983	4.230297694	1.027560326	4.346886079
13° 18′ 10″	0.23009692	0.97316772	0.236441174	4.229381806	1.027572104	4.345994761
13° 18′ 20″	0.23007072	0.97315656	0.236492366	4.228466294	1.027583884	4.345103819
13° 18′ 30″	0.23019128	0.97314540	0.236543560	4.227551157	1.027595667	4.344213253
13° 18′ 40″	0.23023846	0.97313424	0.236594754	4.226636395	1.027607453	4.343323061
13° 18′ 50″	0.23028564	0.97312308	0.236645950	4.225722008	1.027619242	4.342433245
13° 19′ 00″	0.23033281	0.97311191	0.236697147	4.224807995	1.027631033	4.341543803
13° 19′ 10″	0.23033201	0.97310074	0.236748345	4.223894357	1.027642827	4.340654736
13° 19′ 20″	0.23042717	0.97308957	0.236799545	4.222981092	1.027654623	4.339766043
13° 19′ 30″	0.23047434	0.97307840	0.236850745	4.222068202	1.027666422	4.338877724
13° 19′ 40″	0.23052152	0.97306723	0.236901947	4.221155685	1.027678224	4.337989779
13° 19′ 50″	0.23056870	0.97305605	0.236953150	4.220243542	1.027690029	4.337102207
	1					

100 13° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
13° 20′ 00″	0.23061587	0.97304487	0.237004354	4.219331772	1.027701836	4.336215009
13° 20′ 10″	0.23066305	0.97303369	0.237055559	4.218420375	1.027713646	4.335328184
13° 20′ 20″	0.23071022	0.97302250	0.237106765	4.217509351	1.027725459	4.334441731
13° 20′ 30″	0.23075739	0.97301132	0.237157973	4.216598699	1.027737274	4.333555652
13° 20′ 40″	0.23080456	0.97300013	0.237209182	4.215688419	1.027749092	4.332669944
13° 20′ 50″	0.23085174	0.97298894	0.237260392	4.214778511	1.027760913	4.331784609
13° 21′ 00″	0.23089891	0.97297775	0.237311603	4.213868975	1.027772736	4.330899646
13° 21′ 10″	0.23094608	0.97296655	0.237362815	4.212959811	1.027784562	4.330015054
13° 21′ 20″	0.23099325	0.97295535	0.237414028	4.212051018	1.027796391	4.329130834
13° 21′ 30″	0.23104042	0.97294415	0.237465243	4.211142596	1.027808222	4.328246985
13° 21′ 40″	0.23108759	0.97293295	0.237516459	4.210234545	1.027820056	4.327363507
13° 21′ 50″	0.23113476	0.97292175	0.237567676	4.209326865	1.027831893	4.326480400
13° 22′ 00″	0.23118193	0.97291054	0.237618894	4.208419554	1.027843733	4.325597664
13° 22′ 10″	0.23122909	0.97289933	0.237670113	4.207512615	1.027855575	4.324715297
13° 22′ 20″	0.23127626	0.97288812	0.237721334	4.206606045	1.027867420	4.323833301
13° 22′ 30″	0.23132343	0.97287690	0.237772556	4.205699844	1.027879267	4.322951675
13° 22′ 40″	0.23137059	0.97286569	0.237823778	4.204794014	1.027891118	4.322070418
13° 22′ 50″	0.23141776	0.97285447	0.237875003	4.203888552	1.027902971	4.321189530
13° 23′ 00″	0.23146492	0.97284325	0.237926228	4.202983459	1.027914826	4.320309012
13° 23′ 10″	0.23151209	0.97283203	0.237977454	4.202078736	1.027926685	4.319428863
13° 23′ 20″	0.23155925	0.97282080	0.238028682	4.201174380	1.027938546	4.318549082
13° 23′ 30″	0.23160642	0.97280957	0.238079911	4.200270394	1.027950409	4.317669670
13° 23′ 40″	0.23165358	0.97279834	0.238131141	4.199366775	1.027962276	4.316790626
13° 23′ 50″	0.23170074	0.97278711	0.238182372	4.198463524	1.027974145	4.315911950
13° 24′ 00″	0.23174790	0.97277588	0.238233604	4.197560640	1.027986017	4.315033642
13° 24′ 10″	0.23179506	0.97276464	0.238284838	4.196658125	1.027997891	4.314155701
13° 24′ 20″	0.23184223	0.97275340	0.238336072	4.195755976	1.028009768	4.313278128
13° 24′ 30″	0.23188939	0.97274216	0.238387308	4.194854194	1.028021648	4.312400922
13° 24′ 40″	0.23193655	0.97273092	0.238438545	4.193952779	1.028033531	4.311524082
13° 24′ 50″	0.23198370	0.97271967	0.238489784	4.193051730	1.028045416	4.310647610
13° 25′ 00″	0.23203086	0.97270842	0.238541023	4.192151048	1.028057304	4.309771503
13° 25′ 10″	0.23207802	0.97269717	0.238592264	4.191250732	1.028069194	4.308895763
13° 25′ 20″	0.23212518	0.97268592	0.238643506	4.190350781	1.028081088	4.308020389
13° 25′ 30″	0.23217233	0.97267467	0.238694749	4.189451196	1.028092984	4.307145380
13° 25′ 40″	0.23221949	0.97266341	0.238745993	4.188551977	1.028104882	4.306270737
13° 25′ 50″ 13° 26′ 00″	0.23226665	0.97265215	0.238797238	4.187653123	1.028116784	4.305396460
13° 26′ 10″	0.23231380 0.23236096	0.97264089	0.238848485	4.186754633	1.028128688	4.304522547
13° 26′ 10″	0.23240811	0.97262962	0.238899732	4.185856508	1.028140595	4.303648999
13° 26′ 20″	0.23245526	0.97261836 0.97260709	0.238950981 0.239002232	4.184958748 4.184061352	1.028152504 1.028164416	4.302775816 4.301902997
13° 26′ 40″	0.23250242	0.97259582	0.239053483	4.183164320	1.028176331	4.301702777
13° 26′ 40″ 13° 26′ 50″	0.23254957	0.97258455	0.239104735	4.182267651	1.028178331	4.301030342
13° 26′ 30″ 13° 27′ 00″	0.23259672	0.97257327	0.239155989	4.181371346	1.028188249	4.299286724
13° 27′ 10″	0.23257672	0.97256199	0.237133787	4.181371346	1.028212092	4.298415360
13° 27′ 10″ 13° 27′ 20″	0.23269102	0.97255071	0.237207244	4.179579826	1.028212072	4.297544360
13° 27′ 30″	0.23273817	0.77253943	0.237238300	4.178684611	1.028235946	4.296673722
13° 27′ 40″	0.23278532	0.77253743	0.237307737	4.177789758	1.028247877	4.295803448
13° 27′ 50″	0.23283247	0.97251686	0.239412275	4.176895268	1.028259810	4.294933536
	J.23203247	5.77 <u>2</u> 3 1000	0.237 F12273	1.17 0073200	1.020237010	1,2/1/33330

101 13° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
13° 28′ 00″	0.23287962	0.97250557	0.239463536	4.176001139	1.028271747	4.294063986
13° 28′ 10″	0.23292677	0.97249428	0.239514798	4.175107373	1.028283686	4.293194798
13° 28′ 20″	0.23297392	0.97248298	0.239566061	4.174213968	1.028295628	4.292325972
13° 28′ 30″	0.23302107	0.97247169	0.239617326	4.173320925	1.028307572	4.291457508
13° 28′ 40″	0.23306821	0.97246039	0.239668591	4.172428244	1.028319519	4.290589406
13° 28′ 50″	0.23311536	0.97244909	0.239719858	4.171535923	1.028331469	4.289721664
13° 29′ 00″	0.23316250	0.97243779	0.239771126	4.170643963	1.028343422	4.288854284
13° 29′ 10″	0.23320965	0.97242648	0.239822395	4.169752364	1.028355377	4.287987264
13° 29′ 20″	0.23325679	0.97241517	0.239873666	4.168861125	1.028367335	4.287120605
13° 29′ 30″	0.23330394	0.97240386	0.239924937	4.167970247	1.028379296	4.286254306
13° 29′ 40″	0.23335108	0.97239255	0.239976210	4.167079728	1.028391259	4.285388368
13° 29′ 50″	0.23339822	0.97238124	0.240027484	4.166189569	1.028403225	4.284522789
13° 30′ 00″	0.23344536	0.97236992	0.240078759	4.165299770	1.028415194	4.283657570
13° 30′ 10″	0.23349251	0.97235860	0.240130035	4.164410330	1.028427165	4.282792710
13° 30′ 20″	0.23353965	0.97234728	0.240181313	4.163521249	1.028439139	4.281928210
13° 30′ 30″	0.23358679	0.97233596	0.240232592	4.162632527	1.028451116	4.281064068
13° 30′ 40″	0.23363393	0.97232463	0.240283872	4.161744164	1.028463096	4.280200285
13° 30′ 50″	0.23368107	0.97231330	0.240335153	4.160856159	1.028475078	4.279336861
13° 31′ 00″	0.23372820	0.97230197	0.240386435	4.159968512	1.028487063	4.278473795
13° 31′ 10″	0.23377534	0.97229064	0.240437718	4.159081223	1.028499050	4.277611088
13° 31′ 20″	0.23382248	0.97227931	0.240489003	4.158194292	1.028511041	4.276748738
13° 31′ 30″	0.23386962	0.97226797	0.240540289	4.157307718	1.028523034	4.275886746
13° 31′ 40″	0.23391675	0.97225663	0.240591576	4.156421502	1.028535029	4.275025111
13° 31′ 50″	0.23396389	0.97224529	0.240642864	4.155535643	1.028547028	4.274163834
13° 32′ 00″	0.23401103	0.97223394	0.240694154	4.154650140	1.028559029	4.273302913
13° 32′ 10″	0.23405816	0.97222260	0.240745445	4.153764995	1.028571033	4.272442350
13° 32′ 20″	0.23410530	0.97221125	0.240796736	4.152880205	1.028583039	4.271582142
13° 32′ 30″	0.23415243	0.97219990	0.240848029	4.151995772	1.028595048	4.270722292
13° 32′ 40″	0.23419956	0.97218854	0.240899324	4.151111695	1.028607060	4.269862797
13° 32′ 50″	0.23424670	0.97217719	0.240950619	4.150227974	1.028619075	4.269003658
13° 33′ 00″	0.23429383	0.97216583	0.241001916	4.149344608	1.028631092	4.268144875
13° 33′ 10″	0.23434096	0.97215447	0.241053214	4.148461598	1.028643112	4.267286448
13° 33′ 20″	0.23438809	0.97214311	0.241104513	4.147578943	1.028655135	4.266428376
13° 33′ 30″	0.23443522	0.97213174	0.241155813	4.146696642	1.028667160	4.265570658
13° 33′ 40″	0.23448235	0.97212038	0.241207114	4.145814696	1.028679188	4.264713296
13° 33′ 50″ 13° 34′ 00″	0.23452948	0.97210901	0.241258417	4.144933105	1.028691219	4.263856288
13° 34′ 00″ 13° 34′ 10″	0.23457661 0.23462374	0.97209764	0.241309721	4.144051868	1.028703252	4.262999635
13° 34′ 10″ 13° 34′ 20″		0.97208626	0.241361026	4.143170985 4.142290456	1.028715289	4.262143336
13° 34′ 20″ 13° 34′ 30″	0.23467087 0.23471799	0.97207489 0.97206351	0.241412332 0.241463640		1.028727327 1.028739369	4.261287390 4.260431799
13° 34′ 40″	0.23471777	0.97205213	0.241463640	4.141410280 4.140530458	1.028751413	4.259576561
13° 34′ 50″		0.97204074				4.258721676
13° 35′ 00″	0.23481225 0.23485937	0.97204074	0.241566258 0.241617569	4.139650989 4.138771873	1.028763460 1.028775510	4.257867144
13° 35′ 00″ 13° 35′ 10″	0.23483937	0.97202936	0.241617369	4.138//18/3	1.028775510	4.257867144
13° 35′ 20″	0.23495362	0.97201797	0.241720195	4.137014699	1.0287879617	4.25/012763
13° 35′ 30″	0.23473362	0.97200636	0.241720193	4.13/014677	1.028811675	4.255305666
13° 35′ 40″	0.23504787	0.97198380	0.241771310	4.135258934	1.028823736	4.254452544
13° 35′ 50″	0.23509499	0.77178380	0.241874143	4.134381579	1.028835799	4.253599775
	0.2330/4//	0.77177240	0.2710/7173	r.13730137/	1.020033777	1,4333////3

102 13° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
13° 36′ 00″	0.23514211	0.97196100	0.241925461	4.133504576	1.028847865	4.252747357
13° 36′ 10″	0.23518923	0.97194960	0.241976780	4.132627925	1.028859933	4.251895291
13° 36′ 20″	0.23523636	0.97193820	0.242028101	4.131751624	1.028872005	4.251043576
13° 36′ 30″	0.23528348	0.97192679	0.242079423	4.130875675	1.028884079	4.250192212
13° 36′ 40″	0.23533060	0.97191538	0.242130746	4.130000076	1.028896155	4.249341200
13° 36′ 50″	0.23537772	0.97190397	0.242182070	4.129124828	1.028908235	4.248490538
13° 37′ 00″	0.23542484	0.97189256	0.242233396	4.128249931	1.028920317	4.247640226
13° 37′ 10″	0.23547195	0.97188114	0.242284723	4.127375383	1.028932401	4.246790265
13° 37′ 20″	0.23551907	0.97186973	0.242336051	4.126501186	1.028944489	4.245940654
13° 37′ 30″	0.23556619	0.97185831	0.242387380	4.125627338	1.028956579	4.245091392
13° 37′ 40″	0.23561331	0.97184689	0.242438710	4.124753839	1.028968672	4.244242481
13° 37′ 50″	0.23566042	0.97183546	0.242490042	4.123880690	1.028980768	4.243393919
13° 38′ 00″	0.23570754	0.97182404	0.242541374	4.123007890	1.028992866	4.242545706
13° 38′ 10″	0.23575465	0.97181261	0.242592708	4.122135439	1.029004967	4.241697842
13° 38′ 20″	0.23580177	0.97180118	0.242644043	4.121263337	1.029017071	4.240850326
13° 38′ 30″	0.23584888	0.97178974	0.242695380	4.120391583	1.029029177	4.240003160
13° 38′ 40″	0.23589599	0.97177831	0.242746717	4.119520177	1.029041286	4.239156341
13° 38′ 50″	0.23594311	0.97176687	0.242798056	4.118649119	1.029053398	4.238309871
13° 39′ 00″	0.23599022	0.97175543	0.242849396	4.117778409	1.029065513	4.237463749
13° 39′ 10″	0.23603733	0.97174399	0.242900737	4.116908046	1.029077630	4.236617974
13° 39′ 20″	0.23608444	0.97173254	0.242952080	4.116038031	1.029089750	4.235772547
13° 39′ 30″	0.23613155	0.97172110	0.243003423	4.115168363	1.029101872	4.234927468
13° 39′ 40″	0.23617866	0.97170965	0.243054768	4.114299042	1.029113998	4.234082735
13° 39′ 50″	0.23622577	0.97169820	0.243106114	4.113430068	1.029126126	4.233238349
13° 40′ 00″	0.23627288	0.97168674	0.243157461	4.112561440	1.029138257	4.232394310
13° 40′ 10″ 13° 40′ 20″	0.23631999	0.97167529	0.243208810	4.111693159	1.029150390	4.231550618
13° 40′ 20″ 13° 40′ 30″	0.23636710	0.97166383	0.243260160	4.110825223	1.029162526	4.230707271
13° 40′ 40″	0.23641421 0.23646131	0.97165237 0.97164090	0.243311511 0.243362863	4.109957634 4.109090390	1.029174665 1.029186807	4.229864271 4.229021617
13° 40′ 50″	0.23650842	0.97164090	0.243362665	4.109090390	1.029198951	4.228179308
13° 41′ 00″	0.23655552	0.97161797	0.243465570	4.108223472	1.027178731	4.227337344
13° 41′ 10″	0.23660263	0.97160650	0.243516926	4.10/338/3/	1.027211078	4.226495726
13° 41′ 20″	0.23664973	0.97159503	0.243568283	4.105624867	1.027223248	4.225654452
13° 41′ 30″	0.23669684	0.97158356	0.243619641	4.104759349	1.029247555	4.224813524
13° 41′ 40″	0.23674394	0.97157208	0.243671001	4.103894175	1.029259713	4.223972940
13° 41′ 50″	0.23679104	0.97156060	0.243722361	4.103029345	1.029271873	4.223132700
13° 42′ 00″	0.23683815	0.97154912	0.243773723	4.102164859	1.029284037	4.222292805
13° 42′ 10″	0.23688525	0.97153764	0.243825086	4.101300717	1.029296203	4.221453253
13° 42′ 20″	0.23693235	0.97152615	0.243876450	4.100436918	1.029308371	4.220614045
13° 42′ 30″	0.23697945	0.97151466	0.243927816	4.099573463	1.029320543	4.219775181
13° 42′ 40″	0.23702655	0.97150317	0.243979182	4.098710351	1.029332717	4.218936660
13° 42′ 50″	0.23707365	0.97149168	0.244030550	4.097847582	1.029344893	4.218098482
13° 43′ 00″	0.23712075	0.97148019	0.244081919	4.096985155	1.029357073	4.217260647
13° 43′ 10″	0.23716785	0.97146869	0.244133290	4.096123071	1.029369255	4.216423154
13° 43′ 20″	0.23721494	0.97145719	0.244184661	4.095261330	1.029381440	4.215586004
13° 43′ 30″	0.23726204	0.97144569	0.244236034	4.094399930	1.029393627	4.214749197
13° 43′ 40″	0.23730914	0.97143418	0.244287408	4.093538873	1.029405818	4.213912731
13° 43′ 50″	0.23735623	0.97142268	0.244338783	4.092678157	1.029418011	4.213076607

103 13° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
13° 44′ 00″	0.23740333	0.97141117	0.244390159	4.091817783	1.029430206	4.212240825
13° 44′ 10″	0.23745043	0.97139966	0.244441537	4.090957750	1.029442405	4.211405384
13° 44′ 20″	0.23749752	0.97138814	0.244492916	4.090098058	1.029454606	4.210570285
13° 44′ 30″	0.23754461	0.97137663	0.244544296	4.089238707	1.029466810	4.209735527
13° 44′ 40″	0.23759171	0.97136511	0.244595677	4.088379697	1.029479016	4.208901109
13° 44′ 50″	0.23763880	0.97135359	0.244647060	4.087521027	1.029491226	4.208067032
13° 45′ 00″	0.23768589	0.97134207	0.244698443	4.086662697	1.029503438	4.207233295
13° 45′ 10″	0.23773298	0.97133055	0.244749828	4.085804708	1.029515652	4.206399899
13° 45′ 20″	0.23778008	0.97131902	0.244801214	4.084947058	1.029527870	4.205566842
13° 45′ 30″	0.23782717	0.97130749	0.244852602	4.084089748	1.029540090	4.204734126
13° 45′ 40″	0.23787426	0.97129596	0.244903990	4.083232777	1.029552313	4.203901749
13° 45′ 50″	0.23792135	0.97128442	0.244955380	4.082376146	1.029564538	4.203069711
13° 46′ 00″	0.23796843	0.97127289	0.245006771	4.081519853	1.029576766	4.202238012
13° 46′ 10″	0.23801552	0.97126135	0.245058163	4.080663900	1.029588997	4.201406653
13° 46′ 20″	0.23806261	0.97124981	0.245109557	4.079808285	1.029601231	4.200575632
13° 46′ 30″	0.23810970	0.97123827	0.245160951	4.078953008	1.029613467	4.199744949
13° 46′ 40″	0.23815678	0.97122672	0.245212347	4.078098070	1.029625706	4.198914606
13° 46′ 50″	0.23820387	0.97121517	0.245263744	4.077243469	1.029637948	4.198084600
13° 47′ 00″	0.23825096	0.97120363	0.245315143	4.076389206	1.029650193	4.197254932
13° 47′ 10″	0.23829804	0.97119207	0.245366542	4.075535281	1.029662440	4.196425602
13° 47′ 20″	0.23834513	0.97118052	0.245417943	4.074681694	1.029674690	4.195596609
13° 47′ 30″	0.23839221	0.97116896	0.245469345	4.073828443	1.029686942	4.194767954
13° 47′ 40″	0.23843929	0.97115740	0.245520748	4.072975530	1.029699198	4.193939636
13° 47′ 50″	0.23848638	0.97114584	0.245572153	4.072122953	1.029711456	4.193111654
13° 48′ 00″	0.23853346	0.97113428	0.245623558	4.071270713	1.029723717	4.192284010
13° 48′ 10″	0.23858054	0.97112271	0.245674965	4.070418809	1.029735980	4.191456702
13° 48′ 20″	0.23862762	0.97111115	0.245726374	4.069567242	1.029748246	4.190629730
13° 48′ 30″	0.23867470	0.97109958	0.245777783	4.068716010	1.029760515	4.189803094
13° 48′ 40″	0.23872178	0.97108800	0.245829193	4.067865114	1.029772787	4.188976795
13° 48′ 50″	0.23876886	0.97107643	0.245880605	4.067014554	1.029785061	4.188150831
13° 49′ 00″	0.23881594	0.97106485	0.245932018	4.066164329	1.029797338	4.187325202
13° 49′ 10″ 13° 49′ 20″	0.23886302	0.97105327	0.245983433	4.065314439	1.029809618	4.186499909
13° 49′ 20″ 13° 49′ 30″	0.23891009 0.23895717	0.97104169	0.246034848	4.064464884	1.029821900	4.185674951
13° 49′ 40″	0.23893717	0.97103011 0.97101852	0.246086265 0.246137683	4.063615664 4.062766778	1.029834186 1.029846473	4.184850327 4.184026039
13° 49′ 50″	0.23905132	0.97101632	0.246137663	4.062766778	1.029858764	4.183202085
13° 50′ 00″	0.23909840	0.97100693	0.246169102	4.061718227	1.029871057	4.182378465
13° 50′ 10″	0.23707640	0.97098375	0.246291944	4.061070010	1.029883353	4.181555179
13° 50′ 20″	0.23714348	0.77078373	0.2462/1/44	4.059374577	1.027883333	4.180732227
13° 50′ 30″	0.23717233	0.77077213	0.246394791	4.058527361	1.029907954	4.179909609
13° 50′ 40″	0.23723702	0.97094896	0.246446216	4.057680479	1.029920258	4.179087325
13° 50′ 50″	0.23728670	0.97093735	0.246497643	4.056833929	1.029932565	4.178265373
13° 51′ 00″	0.23733377	0.97092575	0.246549070	4.055987713	1.029944874	4.177443755
13° 51′ 10″	0.23730004	0.97091414	0.246600499	4.055141829	1.029957187	4.176622469
13° 51′ 20″	0.23742771	0.97090253	0.246651930	4.054296278	1.029969502	4.175801517
13° 51′ 30″	0.23952205	0.97089092	0.246703361	4.053451059	1.029981819	4.174980896
13° 51′ 40″	0.23956912	0.97087931	0.246754794	4.052606172	1.029994140	4.174160608
13° 51′ 50″	0.23961619	0.97086769	0.246806228	4.051761617	1.030006463	4.173340652
	1 2.20.01017	3				

13° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
13° 52′ 00″	0.23966326	0.97085608	0.246857663	4.050917394	1.030018789	4.172521028
13° 52′ 10″	0.23971033	0.97084446	0.246909099	4.050073502	1.030031118	4.171701736
13° 52′ 20″	0.23975740	0.97083283	0.246960537	4.049229942	1.030043449	4.170882775
13° 52′ 30″	0.23980446	0.97082121	0.247011976	4.048386713	1.030055783	4.170064146
13° 52′ 40″	0.23985153	0.97080958	0.247063416	4.047543815	1.030068120	4.169245847
13° 52′ 50″	0.23989860	0.97079795	0.247114857	4.046701247	1.030080459	4.168427879
13° 53′ 00″	0.23994566	0.97078632	0.247166300	4.045859011	1.030092801	4.167610242
13° 53′ 10″	0.23999273	0.97077469	0.247217743	4.045017104	1.030105146	4.166792936
13° 53′ 20″	0.24003979	0.97076305	0.247269188	4.044175528	1.030117494	4.165975960
13° 53′ 30″	0.24008685	0.97075141	0.247320635	4.043334281	1.030129844	4.165159314
13° 53′ 40″	0.24013392	0.97073977	0.247372082	4.042493364	1.030142197	4.164342998
13° 53′ 50″	0.24018098	0.97072813	0.247423531	4.041652777	1.030154553	4.163527011
13° 54′ 00″	0.24022804	0.97071648	0.247474981	4.040812520	1.030166912	4.162711354
13° 54′ 10″	0.24027510	0.97070483	0.247526432	4.039972591	1.030179273	4.161896026
13° 54′ 20″	0.24032216	0.97069318	0.247577884	4.039132991	1.030191637	4.161081028
13° 54′ 30″	0.24036922	0.97068153	0.247629338	4.038293720	1.030204004	4.160266358
13° 54′ 40″	0.24041628	0.97066988	0.247680793	4.037454778	1.030216373	4.159452017
13° 54′ 50″	0.24046334	0.97065822	0.247732249	4.036616164	1.030228745	4.158638005
13° 55′ 00″	0.24051040	0.97064656	0.247783706	4.035777878	1.030241120	4.157824321
13° 55′ 10″	0.24055746	0.97063490	0.247835165	4.034939920	1.030253497	4.157010965
13° 55′ 20″	0.24060452	0.97062324	0.247886625	4.034102290	1.030265878	4.156197937
13° 55′ 30″	0.24065157	0.97061157	0.247938086	4.033264988	1.030278261	4.155385236
13° 55′ 40″	0.24069863	0.97059990	0.247989548	4.032428013	1.030290646	4.154572863
13° 55′ 50″	0.24074569	0.97058823	0.248041011	4.031591365	1.030303035	4.153760818
13° 56′ 00″	0.24079274	0.97057656	0.248092476	4.030755044	1.030315426	4.152949099
13° 56′ 10″	0.24083980	0.97056488	0.248143942	4.029919050	1.030327820	4.152137708
13° 56′ 20″	0.24088685	0.97055321	0.248195410	4.029083382	1.030340216	4.151326643
13° 56′ 30″	0.24093390	0.97054153	0.248246878	4.028248041	1.030352616	4.150515905
13° 56′ 40″	0.24098096	0.97052984	0.248298348	4.027413026	1.030365018	4.149705494
13° 56′ 50″	0.24102801	0.97051816	0.248349819	4.026578337	1.030377422	4.148895408
13° 57′ 00″	0.24107506	0.97050647	0.248401291	4.025743974	1.030389830	4.148085648
13° 57′ 10″	0.24112211	0.97049478	0.248452764	4.024909937	1.030402240	4.147276214
13° 57′ 20″ 13° 57′ 30″	0.24116916	0.97048309	0.248504239	4.024076225	1.030414653	4.146467106
13° 57′ 40″	0.24121621 0.24126326	0.97047140 0.97045970	0.248555715 0.248607192	4.023242838 4.022409776	1.030427068 1.030439487	4.145658323 4.144849866
13° 57′ 50″	0.24126326	0.97043970	0.248658671	4.022409776	1.030457467	4.144041733
13° 58′ 00″	0.24131031	0.97044601	0.248710150	4.021377039	1.030451708	4.143233925
13° 58′ 10″	0.24133736	0.97043631	0.248761631	4.019912539	1.030464332	4.143233723
13° 58′ 20″	0.24145145	0.97042460	0.248813113	4.019980776	1.030476738	4.141619283
13° 58′ 30″	0.24149149	0.97040119	0.248864597	4.018249337	1.030501619	4.140812448
13° 58′ 40″	0.24147850	0.97038948	0.248916081	4.017418221	1.030514054	4.140005938
13° 58′ 50″	0.24159259	0.97037777	0.248967567	4.016587429	1.030526491	4.139199751
13° 59′ 00″	0.24163964	0.97036606	0.249019054	4.015756961	1.030538931	4.138393888
13° 59′ 10″	0.24168668	0.97035434	0.249070542	4.014926816	1.030551374	4.137588348
13° 59′ 20″	0.24173373	0.97034262	0.249122032	4.014096994	1.030563820	4.136783131
13° 59′ 30″	0.24178077	0.97033090	0.249173523	4.013267495	1.030576268	4.135978238
13° 59′ 40″	0.24182781	0.97031918	0.249225015	4.012438319	1.030588719	4.135173668
13° 59′ 50″	0.24187485	0.97030745	0.249276508	4.011609465	1.030601173	4.134369420
	1 2.2	2.77 0307 13	2.2.7.27.0000			

13° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
14° 00′ 00″	0.24192190	0.97029573	0.249328003	4.010780934	1.030613629	4.133565494
14° 00′ 10″	0.24196894	0.97028400	0.249379499	4.009952724	1.030626089	4.132761891
14° 00′ 20″	0.24201598	0.97027226	0.249430996	4.009124837	1.030638550	4.131958610
14° 00′ 30″	0.24206302	0.97026053	0.249482494	4.008297271	1.030651015	4.131155651
14° 00′ 40″	0.24211006	0.97024879	0.249533994	4.007470028	1.030663482	4.130353014
14° 00′ 50″	0.24215709	0.97023705	0.249585494	4.006643105	1.030675952	4.129550698
14° 01′ 00″	0.24220413	0.97022531	0.249636996	4.005816504	1.030688425	4.128748704
14° 01′ 10″	0.24225117	0.97021357	0.249688500	4.004990223	1.030700901	4.127947031
14° 01′ 20″	0.24229821	0.97020182	0.249740004	4.004164264	1.030713379	4.127145678
14° 01′ 30″	0.24234524	0.97019008	0.249791510	4.003338625	1.030725860	4.126344647
14° 01′ 40″	0.24239228	0.97017833	0.249843017	4.002513306	1.030738344	4.125543936
14° 01′ 50″	0.24243932	0.97016657	0.249894525	4.001688308	1.030750830	4.124743545
14° 02′ 00″	0.24248635	0.97015482	0.249946035	4.000863630	1.030763319	4.123943475
14° 02′ 10″	0.24253338	0.97014306	0.249997546	4.000039271	1.030775811	4.123143725
14° 02′ 20″	0.24258042	0.97013130	0.250049058	3.999215233	1.030788306	4.122344294
14° 02′ 30″	0.24262745	0.97011954	0.250100571	3.998391514	1.030800803	4.121545183
14° 02′ 40″	0.24267448	0.97010778	0.250152085	3.997568114	1.030813303	4.120746391
14° 02′ 50″	0.24272151	0.97009601	0.250203601	3.996745033	1.030825806	4.119947919
14° 03′ 00″	0.24276855	0.97008424	0.250255118	3.995922271	1.030838311	4.119149766
14° 03′ 10″	0.24281558	0.97007247	0.250306636	3.995099828	1.030850820	4.118351932
14° 03′ 20″	0.24286261	0.97006070	0.250358156	3.994277703	1.030863331	4.117554416
14° 03′ 30″	0.24290964	0.97004892	0.250409677	3.993455897	1.030875844	4.116757219
14° 03′ 40″	0.24295667	0.97003714	0.250461199	3.992634409	1.030888361	4.115960340
14° 03′ 50″	0.24300369	0.97002536	0.250512722	3.991813238	1.030900880	4.115163779
14° 04′ 00″	0.24305072	0.97001358	0.250564247	3.990992386	1.030913402	4.114367536
14° 04′ 10″	0.24309775	0.97000180	0.250615772	3.990171851	1.030925926	4.113571611
14° 04′ 20″	0.24314478	0.96999001	0.250667299	3.989351634	1.030938454	4.112776004
14° 04′ 30″	0.24319180	0.96997822	0.250718828	3.988531734	1.030950984	4.111980714
14° 04′ 40″	0.24323883	0.96996643	0.250770357	3.987712150	1.030963516	4.111185741
14° 04′ 50″	0.24328585	0.96995463	0.250821888	3.986892884	1.030976052	4.110391085
14° 05′ 00″	0.24333288	0.96994284	0.250873420	3.986073934	1.030988590	4.109596745
14° 05′ 10″	0.24337990	0.96993104	0.250924953	3.985255301	1.031001131	4.108802723
14° 05′ 20″	0.24342692	0.96991924	0.250976488	3.984436984	1.031013675	4.108009017
14° 05′ 30″	0.24347395	0.96990744	0.251028024	3.983618983	1.031026221	4.107215627
14° 05′ 40″	0.24352097	0.96989563	0.251079561	3.982801298	1.031038770	4.106422553
14° 05′ 50″ 14° 06′ 00″	0.24356799	0.96988382	0.251131099	3.981983929	1.031051322	4.105629795
14° 06′ 00″ 14° 06′ 10″	0.24361501 0.24366203	0.96987202 0.96986020	0.251182638 0.251234179	3.981166875	1.031063877 1.031076434	4.104837352 4.104045226
14° 06′ 10″	0.24366203	0.96984839	0.251234179	3.980350137 3.979533714	1.031076434	4.104043226
14° 06′ 30″	0.24370903	0.76764657	0.251283721	3.978717606	1.031088774	4.103233414
14° 06′ 40″	0.24373607	0.96982475	0.251387263	3.977901812	1.031101337	4.102461718
14° 06′ 50″	0.24385011	0.76782473	0.251388807	3.977086333	1.031114122	4.101870738
14° 06′ 30″ 14° 07′ 00″	0.24389713	0.96980111	0.251440333	3.976271169	1.031126671	4.100077007
14° 07′ 10″	0.24394414	0.96978928	0.251491902	3.975456319	1.031157262	4.100089317
14° 07′ 10″ 14° 07′ 20″	0.24394114	0.76778728	0.251545451	3.974641782	1.031151633	4.098509156
14° 07′ 30″	0.24377118	0.96976563	0.251575000	3.973827560	1.031164412	4.097719546
14° 07′ 40″	0.24408519	0.76776363	0.251648331	3.973013651	1.031176771	4.096930250
14° 07′ 50″	0.24413221	0.96974196	0.251749657	3.972200056	1.031107373	4.096141268
	0.21113221	5.75777170	0,231/7/03/	3.77 2200030	1.031202137	1.070171200

106 14° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
14° 08′ 00″	0.24417922	0.96973012	0.251801211	3.971386774	1.031214745	4.095352599
14° 08′ 10″	0.24422623	0.96971828	0.251852767	3.970573806	1.031227335	4.094564244
14° 08′ 20″	0.24427325	0.96970644	0.251904324	3.969761150	1.031239928	4.093776201
14° 08′ 30″	0.24432026	0.96969460	0.251955883	3.968948807	1.031252523	4.092988472
14° 08′ 40″	0.24436727	0.96968275	0.252007442	3.968136776	1.031265122	4.092201055
14° 08′ 50″	0.24441428	0.96967090	0.252059003	3.967325058	1.031277723	4.091413951
14° 09′ 00″	0.24446129	0.96965905	0.252110566	3.966513652	1.031290326	4.090627159
14° 09′ 10″	0.24450830	0.96964720	0.252162129	3.965702558	1.031302933	4.089840679
14° 09′ 20″	0.24455531	0.96963534	0.252213694	3.964891776	1.031315542	4.089054511
14° 09′ 30″	0.24460232	0.96962349	0.252265260	3.964081306	1.031328154	4.088268655
14° 09′ 40″	0.24464933	0.96961163	0.252316827	3.963271147	1.031340769	4.087483111
14° 09′ 50″	0.24469634	0.96959976	0.252368395	3.962461299	1.031353386	4.086697878
14° 10′ 00″	0.24474334	0.96958790	0.252419965	3.961651762	1.031366006	4.085912956
14° 10′ 10″	0.24479035	0.96957603	0.252471536	3.960842537	1.031378629	4.085128345
14° 10′ 20″	0.24483736	0.96956416	0.252523109	3.960033622	1.031391255	4.084344046
14° 10′ 30″	0.24488436	0.96955229	0.252574682	3.959225017	1.031403883	4.083560057
14° 10′ 40″	0.24493137	0.96954042	0.252626257	3.958416723	1.031416514	4.082776378
14° 10′ 50″	0.24497837	0.96952854	0.252677833	3.957608739	1.031429148	4.081993010
14° 11′ 00″	0.24502538	0.96951667	0.252729410	3.956801065	1.031441785	4.081209952
14° 11′ 10″	0.24507238	0.96950479	0.252780989	3.955993701	1.031454424	4.080427203
14° 11′ 20″	0.24511938	0.96949290	0.252832569	3.955186647	1.031467066	4.079644765
14° 11′ 30″	0.24516638	0.96948102	0.252884150	3.954379902	1.031479711	4.078862636
14° 11′ 40″	0.24521338	0.96946913	0.252935732	3.953573466	1.031492358	4.078080817
14° 11′ 50″	0.24526039	0.96945724	0.252987316	3.952767339	1.031505008	4.077299307
14° 12′ 00″	0.24530739	0.96944535	0.253038901	3.951961521	1.031517661	4.076518106
14° 12′ 10″	0.24535439	0.96943346	0.253090487	3.951156012	1.031530317	4.075737214
14° 12′ 20″	0.24540138	0.96942156	0.253142075	3.950350812	1.031542975	4.074956630
14° 12′ 30″	0.24544838	0.96940966	0.253193663	3.949545920	1.031555636	4.074176355
14° 12′ 40″	0.24549538	0.96939776	0.253245253	3.948741336	1.031568300	4.073396388
14° 12′ 50″	0.24554238	0.96938586	0.253296845	3.947937060	1.031580967	4.072616730
14° 13′ 00″	0.24558938	0.96937395	0.253348437	3.947133092	1.031593636	4.071837379
14° 13′ 10″ 14° 13′ 20″	0.24563637	0.96936204	0.253400031	3.946329431	1.031606308	4.071058337
14° 13′ 20″ 14° 13′ 30″	0.24568337	0.96935013	0.253451626	3.945526078	1.031618983	4.070279601 4.069501174
14° 13′ 30″ 14° 13′ 40″	0.24573036 0.24577736	0.96933822	0.253503222 0.253554820	3.944723032 3.943920294	1.031631661 1.031644341	4.069501174
14° 13′ 40″ 14° 13′ 50″	0.24577736	0.96931439	0.253606419	3.943117862	1.031644341	4.066723033
14 13 30 14° 14′ 00″	0.24587134	0.96930247	0.253658019	3.942315737	1.031637024	4.067743240
14° 14′ 10″	0.24591834	0.96929055	0.253709620	3.941513919	1.031682399	4.066390533
14° 14′ 10″	0.24571634	0.76727033	0.253761223	3.940712407	1.031682377	4.065613640
14° 14′ 30″	0.24576333	0.76727663	0.253812827	3.939911201	1.031707784	4.064837053
14° 14′ 40″	0.24605931	0.96925477	0.253864432	3.939110301	1.031707784	4.064060772
14° 14′ 50″	0.24610630	0.96924284	0.253916039	3.938309707	1.031733180	4.063284798
14° 15′ 00″	0.24615329	0.96923091	0.253967646	3.937509419	1.031745882	4.062509129
14° 15′ 10″	0.24620028	0.96921897	0.254019256	3.936709436	1.031743882	4.061733765
14° 15′ 20″	0.24624727	0.96920704	0.254070866	3.935909758	1.031730307	4.060958708
14° 15′ 30″	0.24629426	0.96919510	0.254122477	3.935110386	1.031771275	4.060183955
14° 15′ 40″	0.24634125	0.96918316	0.254174090	3.934311318	1.031796718	4.059409507
14° 15′ 50″	0.24638823	0.96917121	0.254225704	3.933512556	1.031809434	4.058635365
	1.2.1030023	3., 0, 1, 121	2.20 .220 0 1	2.7.00012000		

107 14° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
14° 16′ 00″	0.24643522	0.96915927	0.254277320	3.932714098	1.031822153	4.057861527
14° 16′ 10″	0.24648221	0.96914732	0.254328936	3.931915944	1.031834874	4.057087994
14° 16′ 20″	0.24652919	0.96913537	0.254380554	3.931118094	1.031847598	4.056314765
14° 16′ 30″	0.24657618	0.96912341	0.254432174	3.930320549	1.031860325	4.055541840
14° 16′ 40″	0.24662316	0.96911146	0.254483794	3.929523308	1.031873055	4.054769220
14° 16′ 50″	0.24667014	0.96909950	0.254535416	3.928726370	1.031885787	4.053996903
14° 17′ 00″	0.24671713	0.96908754	0.254587039	3.927929736	1.031898522	4.053224890
14° 17′ 10″	0.24676411	0.96907558	0.254638663	3.927133405	1.031911260	4.052453180
14° 17′ 20″	0.24681109	0.96906361	0.254690289	3.926337377	1.031924001	4.051681774
14° 17′ 30″	0.24685807	0.96905165	0.254741916	3.925541652	1.031936744	4.050910671
14° 17′ 40″	0.24690505	0.96903968	0.254793544	3.924746230	1.031949490	4.050139871
14° 17′ 50″	0.24695203	0.96902771	0.254845173	3.923951111	1.031962239	4.049369373
14° 18′ 00″	0.24699901	0.96901573	0.254896804	3.923156294	1.031974990	4.048599179
14° 18′ 10″	0.24704599	0.96900376	0.254948436	3.922361780	1.031987745	4.047829286
14° 18′ 20″	0.24709297	0.96899178	0.255000069	3.921567567	1.032000502	4.047059696
14° 18′ 30″	0.24713995	0.96897980	0.255051703	3.920773657	1.032013261	4.046290408
14° 18′ 40″	0.24718692	0.96896781	0.255103339	3.919980048	1.032026024	4.045521422
14° 18′ 50″	0.24723390	0.96895583	0.255154976	3.919186741	1.032038789	4.044752738
14° 19′ 00″	0.24728088	0.96894384	0.255206615	3.918393735	1.032051557	4.043984355
14° 19′ 10″	0.24732785	0.96893185	0.255258254	3.917601031	1.032064328	4.043216274
14° 19′ 20″	0.24737483	0.96891986	0.255309895	3.916808627	1.032077101	4.042448494
14° 19′ 30″	0.24742180	0.96890787	0.255361537	3.916016525	1.032089877	4.041681014
14° 19′ 40″	0.24746878	0.96889587	0.255413181	3.915224723	1.032102656	4.040913836
14° 19′ 50″	0.24751575	0.96888387	0.255464826	3.914433222	1.032115438	4.040146959
14° 20′ 00″	0.24756272	0.96887187	0.255516472	3.913642021	1.032128222	4.039380382
14° 20′ 10″	0.24760969	0.96885987	0.255568119	3.912851120	1.032141009	4.038614105
14° 20′ 20″	0.24765666	0.96884786	0.255619767	3.912060519	1.032153799	4.037848128
14° 20′ 30″	0.24770364	0.96883585	0.255671417	3.911270218	1.032166592	4.037082452
14° 20′ 40″	0.24775061	0.96882384	0.255723068	3.910480217	1.032179387	4.036317075
14° 20′ 50″	0.24779758	0.96881183	0.255774721	3.909690516	1.032192185	4.035551998
14° 21′ 00″	0.24784454	0.96879982	0.255826374	3.908901113	1.032204986	4.034787220
14° 21′ 10″	0.24789151	0.96878780	0.255878029	3.908112010	1.032217790	4.034022742
14° 21′ 20″ 14° 21′ 30″	0.24793848	0.96877578 0.96876376	0.255929686	3.907323206 3.906534700	1.032230596	4.033258563
14° 21′ 30″ 14° 21′ 40″	0.24798545 0.24803241	0.96875173	0.255981343 0.256033002	3.905746493	1.032243405 1.032256217	4.032494682 4.031731101
14° 21′ 50″	0.24807938	0.96873971		3.904958585	1.032256217	4.031731101
14° 21′ 30″ 14° 22′ 00″	0.24812635	0.96872768	0.256084662 0.256136324	3.904170975	1.032281849	4.030767818
14° 22′ 10″	0.24817331	0.96871565	0.256187986	3.903383662	1.032294669	4.029442147
14° 22′ 20″	0.24817331	0.76871363	0.256239650	3.902596648	1.032307492	4.028679759
14° 22′ 30″	0.24826724	0.96869158	0.256291315	3.901809932	1.032320318	4.027917669
14° 22′ 40″	0.24831420	0.96867954	0.256342982	3.901023513	1.032320316	4.027155876
14° 22′ 50″	0.24836117	0.96866750	0.256394650	3.900237392	1.032345977	4.026394381
14° 23′ 00″	0.24840813	0.96865546	0.256446319	3.899451568	1.032358811	4.025633183
14° 23′ 10″	0.24845509	0.96864342	0.256497989	3.898666040	1.032371647	4.024872283
14° 23′ 20″	0.24850205	0.96863137	0.256549661	3.897880810	1.032384487	4.024111680
14° 23′ 30″	0.24854901	0.96861932	0.256601334	3.897095877	1.032397329	4.023351373
14° 23′ 40″	0.24859597	0.96860727	0.256653008	3.896311240	1.032410174	4.022591363
14° 23′ 50″	0.24864293	0.96859522	0.256704684	3.895526899	1.032423021	4.021831650
	1 3.2 .30 .273	3., 000,0 22	1.200.01001	2.2.2320077		

108 14° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
14° 24′ 00″	0.24868989	0.96858316	0.256756360	3.894742855	1.032435871	4.021072233
14° 24′ 10″	0.24873685	0.96857110	0.256808038	3.893959107	1.032448724	4.020313113
14° 24′ 20″	0.24878380	0.96855904	0.256859718	3.893175654	1.032461580	4.019554288
14° 24′ 30″	0.24883076	0.96854698	0.256911398	3.892392497	1.032474439	4.018795759
14° 24′ 40″	0.24887772	0.96853492	0.256963080	3.891609636	1.032487300	4.018037526
14° 24′ 50″	0.24892467	0.96852285	0.257014764	3.890827070	1.032500164	4.017279588
14° 25′ 00″	0.24897163	0.96851078	0.257066448	3.890044800	1.032513031	4.016521946
14° 25′ 10″	0.24901858	0.96849871	0.257118134	3.889262824	1.032525900	4.015764599
14° 25′ 20″	0.24906553	0.96848663	0.257169821	3.888481143	1.032538773	4.015007547
14° 25′ 30″	0.24911249	0.96847456	0.257221510	3.887699757	1.032551648	4.014250789
14° 25′ 40″	0.24915944	0.96846248	0.257273199	3.886918665	1.032564525	4.013494327
14° 25′ 50″	0.24920639	0.96845040	0.257324890	3.886137868	1.032577406	4.012738158
14° 26′ 00″	0.24925334	0.96843832	0.257376582	3.885357365	1.032590289	4.011982284
14° 26′ 10″	0.24930029	0.96842623	0.257428276	3.884577155	1.032603175	4.011226705
14° 26′ 20″	0.24934725	0.96841414	0.257479971	3.883797240	1.032616064	4.010471419
14° 26′ 30″	0.24939419	0.96840205	0.257531667	3.883017618	1.032628955	4.009716427
14° 26′ 40″	0.24944114	0.96838996	0.257583364	3.882238290	1.032641850	4.008961728
14° 26′ 50″	0.24948809	0.96837787	0.257635063	3.881459255	1.032654747	4.008207323
14° 27′ 00″	0.24953504	0.96836577	0.257686763	3.880680513	1.032667646	4.007453212
14° 27′ 10″	0.24958199	0.96835367	0.257738464	3.879902064	1.032680549	4.006699393
14° 27′ 20″	0.24962893	0.96834157	0.257790167	3.879123908	1.032693454	4.005945868
14° 27′ 30″	0.24967588	0.96832947	0.257841871	3.878346045	1.032706362	4.005192635
14° 27′ 40″	0.24972283	0.96831736	0.257893576	3.877568474	1.032719273	4.004439695
14° 27′ 50″	0.24976977	0.96830525	0.257945282	3.876791195	1.032732186	4.003687047
14° 28′ 00″	0.24981672	0.96829314	0.257996990	3.876014209	1.032745103	4.002934692
14° 28′ 10″	0.24986366	0.96828103	0.258048699	3.875237514	1.032758022	4.002182628
14° 28′ 20″	0.24991060	0.96826891	0.258100410	3.874461111	1.032770943	4.001430857
14° 28′ 30″	0.24995755	0.96825680	0.258152121	3.873685000	1.032783868	4.000679377
14° 28′ 40″	0.25000449	0.96824468	0.258203834	3.872909180	1.032796795	3.999928189
14° 28′ 50″	0.25005143	0.96823256	0.258255548	3.872133652	1.032809725	3.999177293
14° 29′ 00″	0.25009837	0.96822043	0.258307264	3.871358415	1.032822658	3.998426687
14° 29′ 10″	0.25014531	0.96820831	0.258358981	3.870583468	1.032835593	3.997676373
14° 29′ 20″	0.25019225	0.96819618	0.258410699	3.869808813	1.032848532	3.996926350
14° 29′ 30″	0.25023919	0.96818405	0.258462418	3.869034448	1.032861473	3.996176617
14° 29′ 40″	0.25028613	0.96817191	0.258514139	3.868260373	1.032874416	3.995427176
14° 29′ 50″	0.25033307	0.96815978	0.258565861	3.867486589	1.032887363	3.994678024
14° 30′ 00″	0.25038000	0.96814764	0.258617584	3.866713095	1.032900312	3.993929163
14° 30′ 10″	0.25042694	0.96813550	0.258669309	3.865939891	1.032913264	3.993180592
14° 30′ 20″	0.25047388	0.96812336	0.258721035	3.865166976	1.032926219	3.992432311
14° 30′ 30″	0.25052081	0.96811121	0.258772762	3.864394352	1.032939177	3.991684319
14° 30′ 40″	0.25056775	0.96809907	0.258824491	3.863622016	1.032952137	3.990936618
14° 30′ 50″	0.25061468	0.96808692	0.258876220	3.862849970	1.032965100	3.990189205
14° 31′ 00″	0.25066162	0.96807477	0.258927951	3.862078213	1.032978066	3.989442082
14° 31′ 10″	0.25070855	0.96806261	0.258979684	3.861306745	1.032991034	3.988695248
14° 31′ 20″	0.25075548	0.96805046	0.259031417	3.860535566	1.033004005	3.987948703
14° 31′ 30″	0.25080241	0.96803830	0.259083152	3.859764676	1.033016979	3.987202447
14° 31′ 40″	0.25084935	0.96802614	0.259134889	3.858994074	1.033029956	3.986456479
14° 31′ 50″	0.25089628	0.96801398	0.259186626	3.858223760	1.033042936	3.985710800

109 14° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
14° 32′ 00″	0.25094321	0.96800181	0.259238365	3.857453734	1.033055918	3.984965409
14° 32′ 10″	0.25099014	0.96798964	0.259290105	3.856683996	1.033068903	3.984220306
14° 32′ 20″	0.25103707	0.96797747	0.259341847	3.855914547	1.033081891	3.983475491
14° 32′ 30″	0.25108399	0.96796530	0.259393590	3.855145384	1.033094882	3.982730964
14° 32′ 40″	0.25113092	0.96795313	0.259445334	3.854376509	1.033107875	3.981986725
14° 32′ 50″	0.25117785	0.96794095	0.259497079	3.853607922	1.033120871	3.981242773
14° 33′ 00″	0.25122478	0.96792877	0.259548826	3.852839622	1.033133870	3.980499108
14° 33′ 10″	0.25127170	0.96791659	0.259600574	3.852071608	1.033146871	3.979755730
14° 33′ 20″	0.25131863	0.96790441	0.259652323	3.851303881	1.033159876	3.979012640
14° 33′ 30″	0.25136555	0.96789222	0.259704074	3.850536441	1.033172883	3.978269836
14° 33′ 40″	0.25141248	0.96788004	0.259755826	3.849769288	1.033185893	3.977527319
14° 33′ 50″	0.25145940	0.96786785	0.259807579	3.849002421	1.033198905	3.976785088
14° 34′ 00″	0.25150633	0.96785565	0.259859333	3.848235840	1.033211921	3.976043143
14° 34′ 10″	0.25155325	0.96784346	0.259911089	3.847469545	1.033224939	3.975301485
14° 34′ 20″	0.25160017	0.96783126	0.259962846	3.846703535	1.033237960	3.974560113
14° 34′ 30″	0.25164709	0.96781906	0.260014605	3.845937812	1.033250983	3.973819026
14° 34′ 40″	0.25169401	0.96780686	0.260066364	3.845172374	1.033264010	3.973078225
14° 34′ 50″	0.25174093	0.96779466	0.260118126	3.844407221	1.033277039	3.972337710
14° 35′ 00″	0.25178785	0.96778245	0.260169888	3.843642353	1.033290071	3.971597480
14° 35′ 10″	0.25183477	0.96777025	0.260221651	3.842877771	1.033303106	3.970857535
14° 35′ 20″	0.25188169	0.96775803	0.260273416	3.842113473	1.033316143	3.970117875
14° 35′ 30″	0.25192861	0.96774582	0.260325183	3.841349460	1.033329183	3.969378500
14° 35′ 40″	0.25197553	0.96773361	0.260376950	3.840585732	1.033342226	3.968639409
14° 35′ 50″	0.25202244	0.96772139	0.260428719	3.839822287	1.033355272	3.967900603
14° 36′ 00″	0.25206936	0.96770917	0.260480489	3.839059127	1.033368320	3.967162082
14° 36′ 10″	0.25211627	0.96769695	0.260532261	3.838296251	1.033381371	3.966423844
14° 36′ 20″	0.25216319	0.96768472	0.260584034	3.837533659	1.033394425	3.965685891
14° 36′ 30″	0.25221010	0.96767250	0.260635808	3.836771351	1.033407482	3.964948221
14° 36′ 40″	0.25225702	0.96766027	0.260687583	3.836009326	1.033420542	3.964210836
14° 36′ 50″	0.25230393	0.96764804	0.260739360	3.835247585	1.033433604	3.963473733
14° 37′ 00″	0.25235084	0.96763581	0.260791138	3.834486126	1.033446669	3.962736914
14° 37′ 10″ 14° 37′ 20″	0.25239775 0.25244467	0.96762357	0.260842917 0.260894698	3.833724951 3.832964059	1.033459737	3.962000379
14° 37′ 30″	0.25244467	0.96761133 0.96759909	0.260674676	3.832203449	1.033472807 1.033485881	3.961264126 3.960528156
14° 37′ 40″	0.25253849	0.96758685	0.260948480	3.831443122	1.033498957	3.959792469
14° 37′ 50″	0.25258540	0.96757461	0.261050048	3.830683078	1.033478737	3.757772467
14° 38′ 00″	0.25263231	0.96756236	0.261101834	3.829923315	1.033512033	3.958321943
14° 38′ 10″	0.25267921	0.96755011	0.261153621	3.829163835	1.033538201	3.957587103
14° 38′ 20″	0.25272612	0.96753786	0.261205409	3.828404637	1.033551288	3.956852545
14° 38′ 30″	0.25272012	0.96752560	0.261257199	3.827645720	1.033564378	3.956118269
14° 38′ 40″	0.25281994	0.96751335	0.261308990	3.826887086	1.033577471	3.955384275
14° 38′ 50″	0.25286684	0.96750109	0.261360783	3.826128732	1.033590566	3.954650563
14° 39′ 00″	0.25291375	0.96748883	0.261412576	3.825370660	1.033603664	3.953917132
14° 39′ 10″	0.25296065	0.96747657	0.261464371	3.824612869	1.033616765	3.953183982
14° 39′ 20″	0.25300756	0.96746430	0.261516168	3.823855359	1.033629869	3.952451114
14° 39′ 30″	0.25305446	0.96745203	0.261567966	3.823098130	1.033642975	3.951718526
14° 39′ 40″	0.25310136	0.96743977	0.261619765	3.822341181	1.033656085	3.950986219
14° 39′ 50″	0.25314827	0.96742749	0.261671565	3.821584513	1.033669197	3.950254193

110 14° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
14° 40′ 00″	0.25319517	0.96741522	0.261723367	3.820828125	1.033682311	3.949522447
14° 40′ 10″	0.25324207	0.96740294	0.261775170	3.820072018	1.033695429	3.948790982
14° 40′ 20″	0.25328897	0.96739066	0.261826974	3.819316190	1.033708549	3.948059797
14° 40′ 30″	0.25333587	0.96737838	0.261878779	3.818560642	1.033721672	3.947328892
14° 40′ 40″	0.25338277	0.96736610	0.261930586	3.817805374	1.033734798	3.946598266
14° 40′ 50″	0.25342967	0.96735381	0.261982395	3.817050386	1.033747926	3.945867921
14° 41′ 00″	0.25347657	0.96734153	0.262034204	3.816295677	1.033761058	3.945137855
14° 41′ 10″	0.25352346	0.96732924	0.262086015	3.815541247	1.033774192	3.944408068
14° 41′ 20″	0.25357036	0.96731694	0.262137827	3.814787096	1.033787328	3.943678560
14° 41′ 30″	0.25361726	0.96730465	0.262189641	3.814033224	1.033800468	3.942949332
14° 41′ 40″	0.25366415	0.96729235	0.262241455	3.813279631	1.033813610	3.942220382
14° 41′ 50″	0.25371105	0.96728005	0.262293271	3.812526316	1.033826755	3.941491712
14° 42′ 00″	0.25375794	0.96726775	0.262345089	3.811773280	1.033839903	3.940763319
14° 42′ 10″	0.25380484	0.96725545	0.262396908	3.811020522	1.033853054	3.940035205
14° 42′ 20″	0.25385173	0.96724314	0.262448728	3.810268042	1.033866207	3.939307370
14° 42′ 30″	0.25389863	0.96723083	0.262500549	3.809515841	1.033879364	3.938579813
14° 42′ 40″	0.25394552	0.96721852	0.262552372	3.808763917	1.033892522	3.937852533
14° 42′ 50″	0.25399241	0.96720621	0.262604196	3.808012270	1.033905684	3.937125531
14° 43′ 00″	0.25403930	0.96719390	0.262656021	3.807260901	1.033918849	3.936398807
14° 43′ 10″	0.25408619	0.96718158	0.262707848	3.806509810	1.033932016	3.935672361
14° 43′ 20″	0.25413308	0.96716926	0.262759676	3.805758995	1.033945186	3.934946191
14° 43′ 30″	0.25417997	0.96715694	0.262811505	3.805008458	1.033958359	3.934220299
14° 43′ 40″	0.25422686	0.96714461	0.262863336	3.804258197	1.033971534	3.933494684
14° 43′ 50″	0.25427375	0.96713229	0.262915168	3.803508213	1.033984712	3.932769346
14° 44′ 00″	0.25432064	0.96711996	0.262967001	3.802758506	1.033997893	3.932044285
14° 44′ 10″	0.25436752	0.96710763	0.263018836	3.802009075	1.034011077	3.931319500
14° 44′ 20″	0.25441441	0.96709529	0.263070672	3.801259921	1.034024264	3.930594991
14° 44′ 30″	0.25446129	0.96708296	0.263122509	3.800511042	1.034037453	3.929870759
14° 44′ 40″	0.25450818	0.96707062	0.263174347	3.799762439	1.034050645	3.929146802
14° 44′ 50″	0.25455506	0.96705828	0.263226187	3.799014112	1.034063840	3.928423122
14° 45′ 00″	0.25460195	0.96704594	0.263278028	3.798266061	1.034077038	3.927699717
14° 45′ 10″	0.25464883	0.96703359	0.263329871	3.797518285	1.034090238	3.926976588
14° 45′ 20″	0.25469571	0.96702125	0.263381715	3.796770784	1.034103441	3.926253735
14° 45′ 30″	0.25474260	0.96700890	0.263433560	3.796023559	1.034116647	3.925531156
14° 45′ 40″	0.25478948	0.96699655	0.263485407	3.795276609	1.034129856	3.924808853
14° 45′ 50″	0.25483636	0.96698419	0.263537254	3.794529933	1.034143068	3.924086825
14° 46′ 00″	0.25488324	0.96697184	0.263589103	3.793783532	1.034156282	3.923365072
14° 46′ 10″	0.25493012	0.96695948	0.263640954	3.793037405	1.034169499	3.922643593
14° 46′ 20″	0.25497700	0.96694712	0.263692806	3.792291553	1.034182719	3.921922389
14° 46′ 30″	0.25502388	0.96693476	0.263744659	3.791545975	1.034195941	3.921201459
14° 46′ 40″	0.25507076	0.96692239	0.263796513	3.790800672	1.034209167	3.920480804
14° 46′ 50″	0.25511763	0.96691002	0.263848369	3.790055642	1.034222395	3.919760422
14° 47′ 00″	0.25516451	0.96689765	0.263900226	3.789310886	1.034235626	3.919040315
14° 47′ 10″	0.25521139	0.96688528	0.263952085	3.788566403	1.034248859	3.918320481
14° 47′ 20″	0.25525826	0.96687291	0.264003944	3.787822194	1.034262096	3.917600920
14° 47′ 30″	0.25530514	0.96686053	0.264055806	3.787078258	1.034275335	3.916881634
14° 47′ 40″ 14° 47′ 50″	0.25535201 0.25539888	0.96684815	0.264107668	3.786334595	1.034288577	3.916162620 3.915443880
=======================================	0.23337888	0.96683577	0.264159532	3.785591205	1.034301822	3.713 44 3880

111 14° 47′ 50″

~	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	csc(v)
140 48/ 00//						$\frac{\csc(x)}{2.014735412}$
14° 48′ 00″	0.25544576	0.96682339	0.264211397	3.784848088	1.034315069	3.914725412
14° 48′ 10″ 14° 48′ 20″	0.25549263	0.96681100	0.264263263	3.784105244	1.034328319	3.914007217
	0.25553950	0.96679862	0.264315131	3.783362672	1.034341572	3.913289295
14° 48′ 30″	0.25558637	0.96678623	0.264367000	3.782620373	1.034354828	3.912571646
14° 48′ 40″	0.25563324	0.96677383	0.264418870	3.781878346	1.034368087	3.911854269
14° 48′ 50″	0.25568012	0.96676144	0.264470742	3.781136590	1.034381348	3.911137164
14° 49′ 00″ 14° 49′ 10″	0.25572698 0.25577385	0.96674904	0.264522615	3.780395107	1.034394612	3.910420331
14° 49′ 10″ 14° 49′ 20″		0.96673664	0.264574490	3.779653896 3.778912956	1.034407879	3.909703770
14° 49′ 20″ 14° 49′ 30″	0.25582072	0.96672424	0.264626365		1.034421149	3.908987481
14° 49′ 30″ 14° 49′ 40″	0.25586759 0.25591446	0.96671184 0.96669943	0.264678242 0.264730121	3.778172287 3.777431890	1.034434421 1.034447696	3.908271463 3.907555717
14° 49′ 50″	0.25596132	0.96668702	0.264782000	3.776691764	1.034447696	3.906840242
14° 50′ 00″	0.25600819	0.96667461	0.264833881	3.775951909	1.034460974	3.906125039
14° 50′ 10″	0.25605506	0.96666220	0.264885764	3.775212325	1.034474233	3.905410106
14° 50′ 10″ 14° 50′ 20″	0.25610192	0.96664978	0.2648837647	3.774473011	1.034487339	3.904695444
14° 50′ 30″	0.25614878	0.96663737	0.264989533	3.773733968	1.034500825	3.903981053
14° 50′ 40″	0.25619565	0.96662495	0.265041419	3.772995195	1.034527406	3.903266932
14° 50′ 50″	0.25624251	0.96661253	0.265093307	3.772256693	1.034540701	3.902553082
14° 51′ 00″	0.25628937	0.96660010	0.265145196	3.771518461	1.034553998	3.901839502
14° 51′ 10″	0.25633623	0.96658768	0.265197086	3.770780498	1.034567298	3.901126192
14° 51′ 20″	0.25638310	0.96657525	0.265248978	3.770042805	1.034580601	3.900413152
14° 51′ 30″	0.25642996	0.96656282	0.265300871	3.769305382	1.034593907	3.899700381
14° 51′ 40″	0.25647682	0.96655038	0.265352765	3.768568229	1.034607215	3.898987881
14° 51′ 50″	0.25652368	0.96653795	0.265404661	3.767831344	1.034620527	3.898275650
14° 52′ 00″	0.25657053	0.96652551	0.265456558	3.767094729	1.034633841	3.897563688
14° 52′ 10″	0.25661739	0.96651307	0.265508456	3.766358383	1.034647157	3.896851995
14° 52′ 20″	0.25666425	0.96650063	0.265560356	3.765622306	1.034660477	3.896140571
14° 52′ 30″	0.25671111	0.96648818	0.265612257	3.764886497	1.034673799	3.895429416
14° 52′ 40″	0.25675796	0.96647574	0.265664159	3.764150957	1.034687124	3.894718530
14° 52′ 50″	0.25680482	0.96646329	0.265716063	3.763415686	1.034700452	3.894007913
14° 53′ 00″	0.25685167	0.96645084	0.265767968	3.762680683	1.034713783	3.893297564
14° 53′ 10″	0.25689853	0.96643838	0.265819875	3.761945947	1.034727117	3.892587483
14° 53′ 20″	0.25694538	0.96642593	0.265871782	3.761211480	1.034740453	3.891877670
14° 53′ 30″	0.25699224	0.96641347	0.265923691	3.760477281	1.034753792	3.891168125
14° 53′ 40″	0.25703909	0.96640101	0.265975602	3.759743349	1.034767134	3.890458848
14° 53′ 50″	0.25708594	0.96638854	0.266027514	3.759009685	1.034780478	3.889749839
14° 54′ 00″	0.25713279	0.96637608	0.266079427	3.758276288	1.034793826	3.889041097
14° 54′ 10″	0.25717964	0.96636361	0.266131341	3.757543158	1.034807176	3.888332623
14° 54′ 20″	0.25722649	0.96635114	0.266183257	3.756810295	1.034820529	3.887624416
14° 54′ 30″	0.25727334	0.96633867	0.266235174	3.756077700	1.034833884	3.886916475
14° 54′ 40″	0.25732019	0.96632620	0.266287092	3.755345371	1.034847243	3.886208802
14° 54′ 50″	0.25736704	0.96631372	0.266339012	3.754613308	1.034860604	3.885501396
14° 55′ 00″	0.25741389	0.96630124	0.266390933	3.753881513	1.034873968	3.884794256
14° 55′ 10″	0.25746074	0.96628876	0.266442856	3.753149983	1.034887335	3.884087382
14° 55′ 20″	0.25750758	0.96627628	0.266494780	3.752418720	1.034900704	3.883380775
14° 55′ 30″	0.25755443	0.96626379	0.266546705	3.751687722	1.034914077	3.882674435
14° 55′ 40″	0.25760128	0.96625130	0.266598631	3.750956991	1.034927452	3.881968360
14° 55′ 50″	0.25764812	0.96623881	0.266650559	3.750226525	1.034940830	3.881262551

112 14° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
14° 56′ 00″	0.25769496	0.96622632	0.266702488	3.749496325	1.034954210	3.880557008
14° 56′ 10″	0.25774181	0.96621383	0.266754419	3.748766390	1.034967594	3.879851730
14° 56′ 20″	0.25778865	0.96620133	0.266806351	3.748036720	1.034980980	3.879146718
14° 56′ 30″	0.25783549	0.96618883	0.266858284	3.747307316	1.034994369	3.878441971
14° 56′ 40″	0.25788234	0.96617633	0.266910219	3.746578177	1.035007761	3.877737489
14° 56′ 50″	0.25792918	0.96616383	0.266962154	3.745849302	1.035021155	3.877033272
14° 57′ 00″	0.25797602	0.96615132	0.267014092	3.745120692	1.035034553	3.876329320
14° 57′ 10″	0.25802286	0.96613881	0.267066030	3.744392347	1.035047953	3.875625633
14° 57′ 20″	0.25806970	0.96612630	0.267117970	3.743664266	1.035061356	3.874922210
14° 57′ 30″	0.25811654	0.96611379	0.267169912	3.742936449	1.035074761	3.874219052
14° 57′ 40″	0.25816337	0.96610127	0.267221854	3.742208896	1.035088170	3.873516158
14° 57′ 50″	0.25821021	0.96608876	0.267273798	3.741481608	1.035101581	3.872813528
14° 58′ 00″	0.25825705	0.96607624	0.267325743	3.740754583	1.035114995	3.872111162
14° 58′ 10″	0.25830388	0.96606372	0.267377690	3.740027822	1.035128412	3.871409060
14° 58′ 20″	0.25835072	0.96605119	0.267429638	3.739301324	1.035141832	3.870707221
14° 58′ 30″	0.25839756	0.96603867	0.267481588	3.738575090	1.035155254	3.870005646
14° 58′ 40″	0.25844439	0.96602614	0.267533538	3.737849119	1.035168679	3.869304334
14° 58′ 50″	0.25849122	0.96601361	0.267585490	3.737123410	1.035182107	3.868603286
14° 59′ 00″	0.25853806	0.96600107	0.267637444	3.736397965	1.035195538	3.867902501
14° 59′ 10″	0.25858489	0.96598854	0.267689398	3.735672783	1.035208971	3.867201978
14° 59′ 20″	0.25863172	0.96597600	0.267741355	3.734947863	1.035222407	3.866501719
14° 59′ 30″	0.25867855	0.96596346	0.267793312	3.734223206	1.035235847	3.865801722
14° 59′ 40″	0.25872539	0.96595092	0.267845271	3.733498811	1.035249288	3.865101987
14° 59′ 50″	0.25877222	0.96593837	0.267897231	3.732774678	1.035262733	3.864402515
15° 00′ 00″	0.25881905	0.96592583	0.267949192	3.732050808	1.035276180	3.863703305
15° 00′ 10″	0.25886587	0.96591328	0.268001155	3.731327199	1.035289631	3.863004357
15° 00′ 20″	0.25891270	0.96590073	0.268053119	3.730603852	1.035303084	3.862305671
15° 00′ 30″	0.25895953	0.96588817	0.268105085	3.729880766	1.035316539	3.861607247
15° 00′ 40″	0.25900636	0.96587562	0.268157052	3.729157942	1.035329998	3.860909085
15° 00′ 50″	0.25905318	0.96586306	0.268209020	3.728435380	1.035343459	3.860211183
15° 01′ 00″	0.25910001	0.96585050	0.268260990	3.727713078	1.035356923	3.859513544
15° 01′ 10″	0.25914684	0.96583794	0.268312961	3.726991038	1.035370390	3.858816165
15° 01′ 20″	0.25919366	0.96582537	0.268364933	3.726269258	1.035383860	3.858119048
15° 01′ 30″	0.25924049	0.96581280	0.268416907	3.725547739	1.035397332	3.857422191
15° 01′ 40″	0.25928731	0.96580023	0.268468882	3.724826481	1.035410808	3.856725595
15° 01′ 50″	0.25933413	0.96578766	0.268520858	3.724105483	1.035424286	3.856029260
15° 02′ 00″	0.25938095	0.96577509	0.268572836	3.723384746	1.035437766	3.855333185
15° 02′ 10″	0.25942778	0.96576251	0.268624815	3.722664269	1.035451250	3.854637370
15° 02′ 20″	0.25947460	0.96574993	0.268676795	3.721944051	1.035464736	3.853941816
15° 02′ 30″	0.25952142	0.96573735	0.268728777	3.721224094	1.035478226	3.853246522
15° 02′ 40″	0.25956824	0.96572477	0.268780760	3.720504396	1.035491718	3.852551487
15° 02′ 50″	0.25961506	0.96571218	0.268832745	3.719784958	1.035505212	3.851856713
15° 03′ 00″	0.25966188	0.96569960	0.268884731	3.719065779	1.035518710	3.851162198
15° 03′ 10″	0.25970869	0.96568701	0.268936718	3.718346860	1.035532210	3.850467942
15° 03′ 20″	0.25975551	0.96567441	0.268988706	3.717628200	1.035545713	3.849773946
15° 03′ 30″	0.25980233	0.96566182	0.269040696	3.716909799	1.035559219	3.849080208
15° 03′ 40″	0.25984914	0.96564922	0.269092687	3.716191656	1.035572728	3.848386730
15° 03′ 50″	0.25989596	0.96563662	0.269144680	3.715473773	1.035586239	3.847693511

113 15° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
15° 04′ 00″	0.25994278	0.96562402	0.269196674	3.714756148	1.035599753	3.847000551
15° 04′ 10″	0.25998959	0.96561142	0.269248669	3.714038781	1.035613270	3.846307849
15° 04′ 20″	0.26003640	0.96559881	0.269300666	3.713321673	1.035626790	3.845615405
15° 04′ 30″	0.26008322	0.96558621	0.269352664	3.712604822	1.035640313	3.844923220
15° 04′ 40″	0.26013003	0.96557360	0.269404664	3.711888230	1.035653838	3.844231293
15° 04′ 50″	0.26017684	0.96556098	0.269456664	3.711171896	1.035667366	3.843539624
15° 05′ 00″	0.26022365	0.96554837	0.269508666	3.710455819	1.035680897	3.842848213
15° 05′ 10″	0.26027046	0.96553575	0.269560670	3.709740001	1.035694431	3.842157060
15° 05′ 20″	0.26031727	0.96552313	0.269612675	3.709024439	1.035707968	3.841466164
15° 05′ 30″	0.26036408	0.96551051	0.269664681	3.708309135	1.035721507	3.840775526
15° 05′ 40″	0.26041089	0.96549789	0.269716689	3.707594088	1.035735049	3.840085145
15° 05′ 50″	0.26045770	0.96548526	0.269768698	3.706879298	1.035748594	3.839395021
15° 06′ 00″	0.26050451	0.96547263	0.269820708	3.706164764	1.035762142	3.838705154
15° 06′ 10″	0.26055132	0.96546000	0.269872719	3.705450488	1.035775692	3.838015544
15° 06′ 20″	0.26059812	0.96544737	0.269924732	3.704736468	1.035789246	3.837326191
15° 06′ 30″	0.26064493	0.96543473	0.269976747	3.704022704	1.035802802	3.836637095
15° 06′ 40″	0.26069173	0.96542209	0.270028763	3.703309197	1.035816360	3.835948254
15° 06′ 50″	0.26073854	0.96540945	0.270080780	3.702595946	1.035829922	3.835259671
15° 07′ 00″	0.26078534	0.96539681	0.270132798	3.701882951	1.035843487	3.834571343
15° 07′ 10″	0.26083215	0.96538417	0.270184818	3.701170212	1.035857054	3.833883272
15° 07′ 20″	0.26087895	0.96537152	0.270236839	3.700457729	1.035870624	3.833195456
15° 07′ 30″	0.26092575	0.96535887	0.270288862	3.699745501	1.035884197	3.832507896
15° 07′ 40″	0.26097255	0.96534622	0.270340886	3.699033529	1.035897772	3.831820592
15° 07′ 50″	0.26101935	0.96533357	0.270392911	3.698321812	1.035911351	3.831133543
15° 08′ 00″	0.26106615	0.96532091	0.270444937	3.697610350	1.035924932	3.830446750
15° 08′ 10″	0.26111295	0.96530825	0.270496965	3.696899143	1.035938516	3.829760211
15° 08′ 20″	0.26115975	0.96529559	0.270548995	3.696188192	1.035952102	3.829073928
15° 08′ 30″	0.26120655	0.96528293	0.270601026	3.695477494	1.035965692	3.828387900
15° 08′ 40″	0.26125335	0.96527027	0.270653058	3.694767052	1.035979284	3.827702126
15° 08′ 50″	0.26130015	0.96525760	0.270705091	3.694056864	1.035992879	3.827016607
15° 09′ 00″	0.26134694	0.96524493	0.270757126	3.693346930	1.036006477	3.826331343
15° 09′ 10″	0.26139374	0.96523226	0.270809162	3.692637251	1.036020078	3.825646333
15° 09′ 20″	0.26144053	0.96521958	0.270861200	3.691927825	1.036033682	3.824961577
15° 09′ 30″	0.26148733	0.96520691	0.270913239	3.691218654	1.036047288	3.824277075
15° 09′ 40″	0.26153412	0.96519423	0.270965279	3.690509736	1.036060897	3.823592828
15° 09′ 50″	0.26158092	0.96518155	0.271017321	3.689801072	1.036074509	3.822908834
15° 10′ 00″	0.26162771	0.96516887	0.271069364	3.689092661	1.036088124	3.822225093
15° 10′ 10″	0.26167450	0.96515618	0.271121408	3.688384504	1.036101741	3.821541606
15° 10′ 20″	0.26172129	0.96514349	0.271173454	3.687676600	1.036115361	3.820858373
15° 10′ 30″	0.26176809	0.96513080	0.271225501	3.686968949	1.036128984	3.820175393
15° 10′ 40″	0.26181488	0.96511811	0.271277549	3.686261551	1.036142610	3.819492665
15° 10′ 50″	0.26186167	0.96510542	0.271329599	3.685554406	1.036156239	3.818810191
15° 11′ 00″	0.26190846	0.96509272	0.271381651	3.684847513	1.036169870	3.818127970
15° 11′ 10″	0.26195524	0.96508002	0.271433703	3.684140873	1.036183505	3.817446001
15° 11′ 20″	0.26200203	0.96506732	0.271485757	3.683434485	1.036197142	3.816764285
15° 11′ 30″	0.26204882	0.96505462	0.271537812	3.682728350	1.036210781	3.816082821
15° 11′ 40″ 15° 11′ 50″	0.26209561 0.26214239	0.96504191 0.96502920	0.271589869	3.682022467	1.036224424	3.815401610
13 11 30"	0.20214239	0.70302720	0.271641927	3.681316835	1.036238069	3.814720651

114 15° 11′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
15° 12′ 00″	0.26218918	0.96501649	0.271693987	3.680611456	1.036251718	3.814039943
15° 12′ 10″	0.26223596	0.96500378	0.271746048	3.679906328	1.036265369	3.813359488
15° 12′ 20″	0.26228275	0.96499107	0.271798110	3.679201452	1.036279022	3.812679284
15° 12′ 30″	0.26232953	0.96497835	0.271850173	3.678496827	1.036292679	3.811999332
15° 12′ 40″	0.26237631	0.96496563	0.271902238	3.677792453	1.036306338	3.811319631
15° 12′ 50″	0.26242310	0.96495291	0.271954305	3.677088331	1.036320001	3.810640181
15° 13′ 00″	0.26246988	0.96494019	0.272006372	3.676384459	1.036333666	3.809960983
15° 13′ 10″	0.26251666	0.96492746	0.272058441	3.675680839	1.036347333	3.809282036
15° 13′ 20″	0.26256344	0.96491473	0.272110512	3.674977469	1.036361004	3.808603339
15° 13′ 30″	0.26261022	0.96490200	0.272162584	3.674274350	1.036374677	3.807924894
15° 13′ 40″	0.26265700	0.96488927	0.272214657	3.673571481	1.036388354	3.807246699
15° 13′ 50″	0.26270378	0.96487653	0.272266731	3.672868862	1.036402033	3.806568754
15° 14′ 00″	0.26275056	0.96486380	0.272318807	3.672166494	1.036415714	3.805891060
15° 14′ 10″	0.26279734	0.96485106	0.272370885	3.671464376	1.036429399	3.805213616
15° 14′ 20″	0.26284411	0.96483831	0.272422963	3.670762508	1.036443086	3.804536422
15° 14′ 30″	0.26289089	0.96482557	0.272475043	3.670060889	1.036456776	3.803859478
15° 14′ 40″	0.26293766	0.96481282	0.272527125	3.669359520	1.036470469	3.803182784
15° 14′ 50″	0.26298444	0.96480007	0.272579208	3.668658401	1.036484165	3.802506339
15° 15′ 00″	0.26303121	0.96478732	0.272631292	3.667957531	1.036497864	3.801830144
15° 15′ 10″	0.26307799	0.96477457	0.272683377	3.667256910	1.036511565	3.801154199
15° 15′ 20″	0.26312476	0.96476182	0.272735464	3.666556538	1.036525269	3.800478502
15° 15′ 30″	0.26317153	0.96474906	0.272787553	3.665856415	1.036538976	3.799803055
15° 15′ 40″	0.26321831	0.96473630	0.272839642	3.665156541	1.036552686	3.799127857
15° 15′ 50″	0.26326508	0.96472353	0.272891733	3.664456916	1.036566398	3.798452907
15° 16′ 00″	0.26331185	0.96471077	0.272943826	3.663757539	1.036580114	3.797778206
15° 16′ 10″	0.26335862	0.96469800	0.272995920	3.663058411	1.036593832	3.797103754
15° 16′ 20″	0.26340539	0.96468523	0.273048015	3.662359530	1.036607553	3.796429550
15° 16′ 30″	0.26345216	0.96467246	0.273100112	3.661660898	1.036621277	3.795755595
15° 16′ 40″	0.26349893	0.96465969	0.273152210	3.660962515	1.036635003	3.795081887
15° 16′ 50″	0.26354569	0.96464691	0.273204309	3.660264378	1.036648732	3.794408428
15° 17′ 00″	0.26359246	0.96463414	0.273256410	3.659566490	1.036662465	3.793735217
15° 17′ 10″	0.26363923	0.96462135	0.273308512	3.658868849	1.036676200	3.793062253
15° 17′ 20″	0.26368599	0.96460857	0.273360615	3.658171456	1.036689937	3.792389537
15° 17′ 30″	0.26373276	0.96459579	0.273412720	3.657474310	1.036703678	3.791717069
15° 17′ 40″	0.26377952	0.96458300	0.273464826	3.656777411	1.036717421	3.791044847
15° 17′ 50″	0.26382629	0.96457021	0.273516934	3.656080759	1.036731167	3.790372873
15° 18′ 00″	0.26387305	0.96455742	0.273569043	3.655384355	1.036744916	3.789701147
15° 18′ 10″	0.26391981	0.96454462	0.273621153	3.654688197	1.036758668	3.789029667
15° 18′ 20″	0.26396657	0.96453183	0.273673265	3.653992285	1.036772423	3.788358433
15° 18′ 30″	0.26401334	0.96451903	0.273725378	3.653296620	1.036786180	3.787687447
15° 18′ 40″	0.26406010	0.96450623	0.273777493	3.652601202	1.036799940	3.787016707
15° 18′ 50″	0.26410686	0.96449343	0.273829609	3.651906030	1.036813703	3.786346214
15° 19′ 00″	0.26415362	0.96448062	0.273881726	3.651211104	1.036827469	3.785675966
15° 19′ 10″	0.26420038	0.96446781	0.273933845	3.650516423	1.036841237	3.785005965
15° 19′ 20″	0.26424713	0.96445500	0.273985965	3.649821989	1.036855009	3.784336210
15° 19′ 30″	0.26429389	0.96444219	0.274038087	3.649127801	1.036868783	3.783666701
15° 19′ 40″	0.26434065	0.96442938	0.274090209	3.648433858	1.036882560	3.782997438
15° 19′ 50″	0.26438741	0.96441656	0.274142334	3.647740160	1.036896340	3.782328420

115 15° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
15° 20′ 00″	0.26443416	0.96440374	0.274194459	3.647046708	1.036910122	3.781659648
15° 20′ 10″	0.26448092	0.96439092	0.274246586	3.646353501	1.036923908	3.780991120
15° 20′ 20″	0.26452767	0.96437810	0.274298715	3.645660539	1.036937696	3.780322839
15° 20′ 30″	0.26457443	0.96436527	0.274350844	3.644967822	1.036951487	3.779654802
15° 20′ 40″	0.26462118	0.96435244	0.274402976	3.644275350	1.036965281	3.778987010
15° 20′ 50″	0.26466793	0.96433961	0.274455108	3.643583122	1.036979077	3.778319463
15° 21′ 00″	0.26471468	0.96432678	0.274507242	3.642891139	1.036992877	3.777652161
15° 21′ 10″	0.26476144	0.96431394	0.274559378	3.642199400	1.037006679	3.776985103
15° 21′ 20″	0.26480819	0.96430111	0.274611514	3.641507905	1.037020484	3.776318290
15° 21′ 30″	0.26485494	0.96428827	0.274663652	3.640816655	1.037034292	3.775651721
15° 21′ 40″	0.26490169	0.96427543	0.274715792	3.640125649	1.037048102	3.774985396
15° 21′ 50″	0.26494844	0.96426258	0.274767933	3.639434886	1.037061916	3.774319315
15° 22′ 00″	0.26499518	0.96424974	0.274820075	3.638744367	1.037075732	3.773653478
15° 22′ 10″	0.26504193	0.96423689	0.274872219	3.638054092	1.037089551	3.772987885
15° 22′ 20″	0.26508868	0.96422404	0.274924364	3.637364060	1.037103373	3.772322535
15° 22′ 30″	0.26513543	0.96421118	0.274976510	3.636674272	1.037117197	3.771657429
15° 22′ 40″	0.26518217	0.96419833	0.275028658	3.635984727	1.037131025	3.770992566
15° 22′ 50″	0.26522892	0.96418547	0.275080807	3.635295424	1.037144855	3.770327946
15° 23′ 00″	0.26527566	0.96417261	0.275132958	3.634606365	1.037158688	3.769663570
15° 23′ 10″	0.26532241	0.96415975	0.275185110	3.633917549	1.037172524	3.768999436
15° 23′ 20″	0.26536915	0.96414688	0.275237263	3.633228975	1.037186363	3.768335545
15° 23′ 30″	0.26541589	0.96413402	0.275289418	3.632540643	1.037200204	3.767671897
15° 23′ 40″	0.26546263	0.96412115	0.275341574	3.631852555	1.037214049	3.767008492
15° 23′ 50″	0.26550938	0.96410828	0.275393732	3.631164708	1.037227896	3.766345329
15° 24′ 00″	0.26555612	0.96409540	0.275445891	3.630477104	1.037241746	3.765682408
15° 24′ 10″	0.26560286	0.96408253	0.275498051	3.629789741	1.037255598	3.765019730
15° 24′ 20″	0.26564960	0.96406965	0.275550213	3.629102620	1.037269454	3.764357293
15° 24′ 30″	0.26569634	0.96405677	0.275602376	3.628415742	1.037283312	3.763695098
15° 24′ 40″	0.26574308	0.96404389	0.275654541	3.627729104	1.037297173	3.763033146
15° 24′ 50″	0.26578981	0.96403100	0.275706707	3.627042709	1.037311037	3.762371434
15° 25′ 00″	0.26583655	0.96401812	0.275758874	3.626356554	1.037324904	3.761709965
15° 25′ 10″	0.26588329	0.96400523	0.275811043	3.625670641	1.037338774	3.761048736
15° 25′ 20″ 15° 25′ 30″	0.26593002	0.96399234	0.275863213	3.624984969	1.037352646	3.760387749
15° 25′ 40″	0.26597676 0.26602349	0.96397944 0.96396655	0.275915384 0.275967557	3.624299538 3.623614348	1.037366521 1.037380399	3.759727003 3.759066499
15° 25′ 50″	0.26607023	0.96395365	0.276019732	3.622929398	1.037380377	3.758406235
15° 26′ 00″	0.26611696	0.96394075	0.276019732	3.622244689	1.037374260	3.757746211
15° 26′ 10″	0.26616369	0.76374073	0.276124084	3.622244667	1.037408164	3.757086428
15° 26′ 20″	0.26621043	0.76372764	0.276124064	3.620875992	1.037422030	3.756426886
15° 26′ 30″	0.26625716	0.96390203	0.276176263	3.620192004	1.037433737	3.755767584
15° 26′ 40″	0.26630389	0.76370203	0.276280624	3.619508256	1.037447831	3.755108523
15° 26′ 50″	0.26635062	0.96387621	0.276332807	3.618824748	1.037477624	3.754449701
15° 27′ 00″	0.26639735	0.96386330	0.276384991	3.618141480	1.037477624	3.753791119
15° 27′ 10″	0.26644408	0.96385038	0.276437176	3.617458451	1.037471324	3.753132778
15° 27′ 20″	0.26649081	0.96383746	0.276489363	3.616775662	1.037519334	3.752474676
15° 27′ 30″	0.26653753	0.96382454	0.276541552	3.616093113	1.037533243	3.751816813
15° 27′ 40″	0.26658426	0.96381162	0.276593741	3.615410802	1.037547154	3.751159190
15° 27′ 50″	0.26663099	0.96379869	0.276645932	3.614728731	1.037561069	3.750501806
	1.20003077	3.7.007	5.2, 65 15/5Z	5.01.7.20751		

116 15° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\csc(x)$
15° 28′ 00″	0.26667771	0.96378576	0.276698125	3.614046899	1.037574986	3.749844662
15° 28′ 10″	0.26672444	0.76376376	0.276750319	3.613365305	1.037574788	3.749187756
15° 28′ 20″	0.26677116	0.76377283	0.276802514	3.612683951	1.037602829	3.748531089
15° 28′ 30″	0.26681789	0.76373770	0.276854711	3.612002835	1.037602827	3.747874662
15° 28′ 40″	1	0.76374677	0.276906909	3.612002833		3.747218472
15° 28′ 50″	0.26686461	0.96373403	0.276959108	3.610641318	1.037630684 1.037644615	3.746562522
15° 28′ 00″	0.26695806	0.96372109	0.276737108	3.609960918	1.037644613	3.745906810
15° 29′ 10″	0.26700478	0.96369521	0.277011309	3.609280755	1.037636330	3.745251336
15° 29′ 20″	0.26705150	0.76367321	0.277115715	3.608600830	1.037672467	3.744596100
15° 29′ 30″	0.26703130	0.76366226				3.743941102
15° 29′ 40″	0.26707822	0.96365636	0.277167920 0.277220127	3.607921143	1.037700369	
15° 29′ 50″				3.607241694	1.037714315	3.743286342
15° 30′ 00″	0.26719166	0.96364341	0.277272335	3.606562483	1.037728263	3.742631820
	0.26723838	0.96363045	0.277324544	3.605883509	1.037742214	3.741977536
15° 30′ 10″	0.26728509	0.96361750	0.277376755	3.605204772	1.037756168	3.741323489
15° 30′ 20″ 15° 30′ 30″	0.26733181	0.96360454	0.277428967	3.604526273	1.037770125	3.740669679
15° 30′ 40″	0.26737853	0.96359157	0.277481180	3.603848010	1.037784084	3.740016107
	0.26742524	0.96357861	0.277533395	3.603169985	1.037798047	3.739362772
15° 30′ 50″ 15° 31′ 00″	0.26747196	0.96356564	0.277585612	3.602492196	1.037812012	3.738709674
	0.26751867	0.96355268	0.277637829	3.601814645	1.037825980	3.738056813
15° 31′ 10″	0.26756539	0.96353971	0.277690049	3.601137329	1.037839951	3.737404188
15° 31′ 20″ 15° 31′ 30″	0.26761210	0.96352673	0.277742269	3.600460251	1.037853924	3.736751800
	0.26765881	0.96351376	0.277794491	3.599783408	1.037867901	3.736099649
15° 31′ 40″	0.26770553	0.96350078	0.277846714	3.599106802	1.037881880	3.735447734
15° 31′ 50″	0.26775224	0.96348780	0.277898939	3.598430432	1.037895862	3.734796055
15° 32′ 00″ 15° 32′ 10″	0.26779895	0.96347482	0.277951165	3.597754298	1.037909847	3.734144612
15° 32′ 10″ 15° 32′ 20″	0.26784566	0.96346183	0.278003393	3.597078399	1.037923835	3.733493406
	0.26789237	0.96344885	0.278055622	3.596402737	1.037937825	3.732842435
15° 32′ 30″ 15° 32′ 40″	0.26793908	0.96343586	0.278107852	3.595727310	1.037951819	3.732191700
15° 32′ 40″ 15° 32′ 50″	0.26798579	0.96342287	0.278160084	3.595052118	1.037965815	3.731541201
15° 33′ 00″	0.26803249	0.96340987	0.278212317	3.594377162	1.037979814	3.730890937
15° 33′ 10″	0.26807920	0.96339688	0.278264552	3.593702441	1.037993815	3.730240908
15° 33′ 20″	0.26812591	0.96338388	0.278316788	3.593027955	1.038007820	3.729591115
15° 33′ 30″	0.26817261 0.26821932	0.96337088 0.96335788	0.278369026 0.278421264	3.592353703 3.591679687	1.038021828	3.728941556 3.728292233
15° 33′ 40″	0.26826602	0.96334487	0.278473505	3.591005906	1.038035838 1.038049851	3.727643145
15° 33′ 50″	0.26831273		0.278525746			
15° 34′ 00″		0.96333186		3.590332359 3.589659046	1.038063867 1.038077885	3.726994291
15° 34′ 10″	0.26835943	0.96331886	0.278577989	3.588985968		3.726345672
15° 34′ 10″ 15° 34′ 20″	0.26840613	0.96330584	0.278630234		1.038091907	3.725697287
15° 34′ 30″	0.26845283	0.96329283	0.278682480	3.588313124	1.038105931	3.725049137
15° 34′ 40″	0.26849954	0.96327981	0.278734727	3.587640514 3.586968138	1.038119958 1.038133988	3.724401221
15° 34′ 40″ 15° 34′ 50″	0.26854624 0.26859294	0.96326680	0.278786976			3.723753539
15° 34′ 50″ 15° 35′ 00″		0.96325377	0.278839226 0.278891478	3.586295995	1.038148021 1.038162057	3.723106091 3.722458877
15° 35′ 00″ 15° 35′ 10″	0.26863964	0.96324075		3.585624087		3.721811897
	0.26868634	0.96322773	0.278943731	3.584952412	1.038176095	
15° 35′ 20″ 15° 35′ 30″	0.26873303	0.96321470	0.278995985	3.584280970	1.038190137	3.721165150
	0.26877973	0.96320167	0.279048241	3.583609762	1.038204181	3.720518637
15° 35′ 40″	0.26882643	0.96318864	0.279100498	3.582938787	1.038218228	3.719872357
15° 35′ 50″	0.26887312	0.96317560	0.279152757	3.582268045	1.038232277	3.719226310

117 15° 35′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
15° 36′ 00″	0.26891982	0.96316257	0.279205017	3.581597536	1.038246330	3.718580496
15° 36′ 10″	0.26896652	0.96314953	0.279257278	3.580927259	1.038260385	3.717934916
15° 36′ 20″	0.26901321	0.96313649	0.279309541	3.580257216	1.038274443	3.717289568
15° 36′ 30″	0.26905990	0.96312344	0.279361805	3.579587405	1.038288504	3.716644453
15° 36′ 40″	0.26910660	0.96311040	0.279414071	3.578917826	1.038302568	3.715999570
15° 36′ 50″	0.26915329	0.96309735	0.279466338	3.578248480	1.038316635	3.715354920
15° 37′ 00″	0.26919998	0.96308430	0.279518607	3.577579366	1.038330704	3.714710503
15° 37′ 10″	0.26924667	0.96307125	0.279570877	3.576910484	1.038344777	3.714066317
15° 37′ 20″	0.26929336	0.96305819	0.279623148	3.576241834	1.038358852	3.713422364
15° 37′ 30″	0.26934005	0.96304514	0.279675421	3.575573416	1.038372930	3.712778643
15° 37′ 40″	0.26938674	0.96303208	0.279727695	3.574905229	1.038387010	3.712135154
15° 37′ 50″	0.26943343	0.96301902	0.279779971	3.574237274	1.038401094	3.711491896
15° 38′ 00″	0.26948012	0.96300595	0.279832248	3.573569551	1.038415180	3.710848870
15° 38′ 10″	0.26952681	0.96299289	0.279884526	3.572902059	1.038429270	3.710206075
15° 38′ 20″	0.26957349	0.96297982	0.279936806	3.572234798	1.038443362	3.709563512
15° 38′ 30″	0.26962018	0.96296675	0.279989087	3.571567768	1.038457457	3.708921180
15° 38′ 40″	0.26966687	0.96295368	0.280041370	3.570900969	1.038471554	3.708279079
15° 38′ 50″	0.26971355	0.96294060	0.280093654	3.570234401	1.038485655	3.707637209
15° 39′ 00″	0.26976024	0.96292752	0.280145940	3.569568063	1.038499758	3.706995571
15° 39′ 10″	0.26980692	0.96291444	0.280198227	3.568901957	1.038513864	3.706354162
15° 39′ 20″	0.26985360	0.96290136	0.280250515	3.568236080	1.038527973	3.705712985
15° 39′ 30″	0.26990029	0.96288828	0.280302805	3.567570434	1.038542085	3.705072038
15° 39′ 40″	0.26994697	0.96287519	0.280355096	3.566905019	1.038556200	3.704431321
15° 39′ 50″	0.26999365	0.96286210	0.280407389	3.566239833	1.038570317	3.703790835
15° 40′ 00″	0.27004033	0.96284901	0.280459683	3.565574877	1.038584437	3.703150578
15° 40′ 10″	0.27008701	0.96283592	0.280511979	3.564910152	1.038598561	3.702510552
15° 40′ 20″	0.27013369	0.96282282	0.280564275	3.564245655	1.038612687	3.701870756
15° 40′ 30″	0.27018037	0.96280973	0.280616574	3.563581389	1.038626815	3.701231189
15° 40′ 40″	0.27022704	0.96279663	0.280668874	3.562917352	1.038640947	3.700591852
15° 40′ 50″	0.27027372	0.96278352	0.280721175	3.562253544	1.038655081	3.699952745
15° 41′ 00″	0.27032040	0.96277042	0.280773477	3.561589966	1.038669219	3.699313867
15° 41′ 10″	0.27036707	0.96275731	0.280825781	3.560926617	1.038683359	3.698675218
15° 41′ 20″	0.27041375	0.96274420	0.280878087	3.560263497	1.038697502	3.698036799
15° 41′ 30″	0.27046043	0.96273109	0.280930394	3.559600605	1.038711647	3.697398608
15° 41′ 40″	0.27050710	0.96271798	0.280982702	3.558937943	1.038725796	3.696760647
15° 41′ 50″	0.27055377	0.96270486	0.281035012	3.558275509	1.038739947	3.696122914
15° 42′ 00″	0.27060045	0.96269175	0.281087323	3.557613303	1.038754101	3.695485410
15° 42′ 10″	0.27064712	0.96267863	0.281139636	3.556951326	1.038768258	3.694848134
15° 42′ 20″	0.27069379	0.96266550	0.281191950	3.556289577	1.038782418	3.694211087
15° 42′ 30″	0.27074046	0.96265238	0.281244265	3.555628057	1.038796581	3.693574268
15° 42′ 40″	0.27078713	0.96263925	0.281296582	3.554966764	1.038810747	3.692937678
15° 42′ 50″	0.27083380	0.96262612	0.281348900	3.554305699	1.038824915	3.692301315
15° 43′ 00″	0.27088047	0.96261299	0.281401220	3.553644862	1.038839086	3.691665181
15° 43′ 10″	0.27092714	0.96259986	0.281453541	3.552984253	1.038853260	3.691029274
15° 43′ 20″	0.27097381	0.96258672	0.281505864	3.552323871	1.038867437	3.690393595
15° 43′ 30″	0.27102047	0.96257358	0.281558188	3.551663717	1.038881617	3.689758144
15° 43′ 40″	0.27106714	0.96256044	0.281610513	3.551003790	1.038895799	3.689122920
15° 43′ 50″	0.27111381	0.96254730	0.281662840	3.550344090	1.038909984	3.688487923

118 15° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
15° 44′ 00″	0.27116047	0.96253415	0.281715168	3.549684617	1.038924172	3.687853154
15° 44′ 10″	0.27120714	0.96252101	0.281767498	3.549025372	1.038938363	3.687218611
15° 44′ 20″	0.27125380	0.96250786	0.281819829	3.548366353	1.038952557	3.686584296
15° 44′ 30″	0.27130046	0.96249471	0.281872162	3.547707560	1.038966754	3.685950208
15° 44′ 40″	0.27134713	0.96248155	0.281924496	3.547048995	1.038980953	3.685316346
15° 44′ 50″	0.27139379	0.96246840	0.281976831	3.546390655	1.038995156	3.684682711
15° 45′ 00″	0.27144045	0.96245524	0.282029168	3.545732543	1.039009361	3.684049303
15° 45′ 10″	0.27148711	0.96244208	0.282081507	3.545074656	1.039023569	3.683416120
15° 45′ 20″	0.27153377	0.96242891	0.282133846	3.544416995	1.039037780	3.682783165
15° 45′ 30″	0.27158043	0.96241575	0.282186188	3.543759561	1.039051993	3.682150435
15° 45′ 40″	0.27162709	0.96240258	0.282238530	3.543102352	1.039066210	3.681517931
15° 45′ 50″	0.27167375	0.96238941	0.282290874	3.542445369	1.039080429	3.680885653
15° 46′ 00″	0.27172041	0.96237624	0.282343220	3.541788612	1.039094651	3.680253601
15° 46′ 10″	0.27176706	0.96236306	0.282395567	3.541132080	1.039108876	3.679621775
15° 46′ 20″	0.27181372	0.96234989	0.282447915	3.540475773	1.039123104	3.678990174
15° 46′ 30″	0.27186037	0.96233671	0.282500265	3.539819692	1.039137334	3.678358799
15° 46′ 40″	0.27190703	0.96232353	0.282552616	3.539163836	1.039151568	3.677727649
15° 46′ 50″	0.27195368	0.96231034	0.282604969	3.538508205	1.039165804	3.677096724
15° 47′ 00″	0.27200034	0.96229716	0.282657323	3.537852799	1.039180043	3.676466024
15° 47′ 10″	0.27204699	0.96228397	0.282709678	3.537197618	1.039194285	3.675835550
15° 47′ 20″	0.27209364	0.96227078	0.282762035	3.536542661	1.039208530	3.675205300
15° 47′ 30″	0.27214030	0.96225758	0.282814393	3.535887929	1.039222777	3.674575274
15° 47′ 40″	0.27218695	0.96224439	0.282866753	3.535233421	1.039237028	3.673945474
15° 47′ 50″	0.27223360	0.96223119	0.282919115	3.534579138	1.039251281	3.673315898
15° 48′ 00″	0.27228025	0.96221799	0.282971477	3.533925079	1.039265537	3.672686546
15° 48′ 10″	0.27232690	0.96220479	0.283023841	3.533271244	1.039279796	3.672057418
15° 48′ 20″	0.27237355	0.96219159	0.283076207	3.532617633	1.039294058	3.671428515
15° 48′ 30″	0.27242019	0.96217838	0.283128574	3.531964246	1.039308323	3.670799836
15° 48′ 40″	0.27246684	0.96216517	0.283180942	3.531311082	1.039322590	3.670171380
15° 48′ 50″	0.27251349	0.96215196	0.283233312	3.530658142	1.039336860	3.669543148
15° 49′ 00″	0.27256013	0.96213875	0.283285684	3.530005426	1.039351133	3.668915140
15° 49′ 10″	0.27260678	0.96212553	0.283338056	3.529352933	1.039365409	3.668287356
15° 49′ 20″	0.27265342	0.96211232	0.283390431	3.528700663	1.039379688	3.667659795
15° 49′ 30″	0.27270007	0.96209910	0.283442806	3.528048616	1.039393970	3.667032457
15° 49′ 40″	0.27274671	0.96208588	0.283495183	3.527396793	1.039408254	3.666405342
15° 49′ 50″	0.27279335	0.96207265	0.283547562	3.526745192	1.039422541	3.665778451
15° 50′ 00″	0.27284000	0.96205942	0.283599942	3.526093814	1.039436832	3.665151782
15° 50′ 10″	0.27288664	0.96204620	0.283652323	3.525442659	1.039451125	3.664525336
15° 50′ 20″	0.27293328	0.96203296	0.283704706	3.524791726	1.039465420	3.663899113
15° 50′ 30″	0.27297992	0.96201973	0.283757090	3.524141016	1.039479719	3.663273113
15° 50′ 40″	0.27302656	0.96200650	0.283809476	3.523490528	1.039494020	3.662647335
15° 50′ 50″	0.27307320	0.96199326	0.283861863	3.522840262	1.039508325	3.662021779
15° 51′ 00″	0.27311984	0.96198002	0.283914252	3.522190218	1.039522632	3.661396446
15° 51′ 10″	0.27316647	0.96196678	0.283966642	3.521540397	1.039536942	3.660771335
15° 51′ 20″	0.27321311	0.96195353	0.284019033	3.520890797	1.039551255	3.660146446
15° 51′ 30″	0.27325975	0.96194028	0.284071426	3.520241419	1.039565570	3.659521778
15° 51′ 40″	0.27330638	0.96192703	0.284123820	3.519592262	1.039579889	3.658897333
15° 51′ 50″	0.27335302	0.96191378	0.284176216	3.518943327	1.039594210	3.658273109

119 15° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
15° 52′ 00″	0.27339965	0.96190053	0.284228614	3.518294613	1.039608534	3.657649107
15° 52′ 10″	0.27344629	0.96188727	0.284281012	3.517646121	1.039622861	3.657025326
15° 52′ 20″	0.27349292	0.96187402	0.284333412	3.516997850	1.039637191	3.656401766
15° 52′ 30″	0.27353955	0.96186076	0.284385814	3.516349800	1.039651524	3.655778428
15° 52′ 40″	0.27358619	0.96184749	0.284438217	3.515701970	1.039665859	3.655155311
15° 52′ 50″	0.27363282	0.96183423	0.284490621	3.515054362	1.039680198	3.654532414
15° 53′ 00″	0.27367945	0.96182096	0.284543027	3.514406974	1.039694539	3.653909739
15° 53′ 10″	0.27372608	0.96180769	0.284595435	3.513759807	1.039708883	3.653287284
15° 53′ 20″	0.27377271	0.96179442	0.284647844	3.513112860	1.039723230	3.652665050
15° 53′ 30″	0.27381934	0.96178115	0.284700254	3.512466134	1.039737580	3.652043037
15° 53′ 40″	0.27386596	0.96176787	0.284752666	3.511819628	1.039751932	3.651421243
15° 53′ 50″	0.27391259	0.96175459	0.284805079	3.511173341	1.039766288	3.650799670
15° 54′ 00″	0.27395922	0.96174131	0.284857493	3.510527275	1.039780646	3.650178318
15° 54′ 10″	0.27400584	0.96172803	0.284909909	3.509881429	1.039795007	3.649557185
15° 54′ 20″	0.27405247	0.96171474	0.284962327	3.509235803	1.039809371	3.648936272
15° 54′ 30″	0.27409910	0.96170145	0.285014746	3.508590396	1.039823738	3.648315579
15° 54′ 40″	0.27414572	0.96168816	0.285067166	3.507945209	1.039838107	3.647695106
15° 54′ 50″	0.27419234	0.96167487	0.285119588	3.507300241	1.039852480	3.647074852
15° 55′ 00″	0.27423897	0.96166158	0.285172011	3.506655492	1.039866855	3.646454818
15° 55′ 10″	0.27428559	0.96164828	0.285224436	3.506010963	1.039881233	3.645835003
15° 55′ 20″	0.27433221	0.96163498	0.285276862	3.505366652	1.039895614	3.645215408
15° 55′ 30″	0.27437883	0.96162168	0.285329290	3.504722561	1.039909998	3.644596031
15° 55′ 40″	0.27442545	0.96160838	0.285381719	3.504078689	1.039924385	3.643976874
15° 55′ 50″	0.27447207	0.96159507	0.285434150	3.503435035	1.039938774	3.643357935
15° 56′ 00″	0.27451869	0.96158176	0.285486582	3.502791600	1.039953166	3.642739215
15° 56′ 10″	0.27456531	0.96156845	0.285539015	3.502148383	1.039967562	3.642120714
15° 56′ 20″	0.27461193	0.96155514	0.285591450	3.501505385	1.039981960	3.641502432
15° 56′ 30″	0.27465854	0.96154183	0.285643886	3.500862605	1.039996360	3.640884368
15° 56′ 40″	0.27470516	0.96152851	0.285696324	3.500220043	1.040010764	3.640266522
15° 56′ 50″	0.27475178	0.96151519	0.285748763	3.499577699	1.040025171	3.639648894
15° 57′ 00″	0.27479839	0.96150187	0.285801204	3.498935573	1.040039580	3.639031485
15° 57′ 10″	0.27484501	0.96148855	0.285853646	3.498293665	1.040053992	3.638414293
15° 57′ 20″	0.27489162	0.96147522	0.285906090	3.497651975	1.040068407	3.637797319
15° 57′ 30″	0.27493823	0.96146189	0.285958535	3.497010502	1.040082825	3.637180564
15° 57′ 40″	0.27498485	0.96144856	0.286010982	3.496369247	1.040097246	3.636564025
15° 57′ 50″	0.27503146	0.96143523	0.286063429	3.495728209	1.040111670	3.635947705
15° 58′ 00″	0.27507807	0.96142189	0.286115879	3.495087388	1.040126096	3.635331601
15° 58′ 10″	0.27512468	0.96140856	0.286168330	3.494446785	1.040140526	3.634715715
15° 58′ 20″	0.27517129	0.96139522	0.286220782	3.493806398	1.040154958	3.634100046
15° 58′ 30″	0.27521790	0.96138187	0.286273236	3.493166228	1.040169393	3.633484595
15° 58′ 40″	0.27526451	0.96136853	0.286325691	3.492526276	1.040183831	3.632869360
15° 58′ 50″	0.27531112	0.96135518	0.286378148	3.491886539	1.040198271	3.632254342
15° 59′ 00″	0.27535772	0.96134183	0.286430606	3.491247020	1.040212715	3.631639541
15° 59′ 10″	0.27540433	0.96132848	0.286483066	3.490607717	1.040227161	3.631024956
15° 59′ 20″ 15° 59′ 30″	0.27545094	0.96131513	0.286535527	3.489968630	1.040241610	3.630410588
	0.27549754	0.96130178	0.286587989	3.489329759	1.040256063	3.629796436
15° 59′ 40″ 15° 59′ 50″	0.27554415	0.96128842	0.286640453 0.286692919	3.488691105	1.040270517	3.629182501 3.628568782
15 57 50"	0.27559075	0.96127506	0.200072719	3.488052666	1.040284975	3.020308/82

120 15° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
16° 00′ 00″	0.27563736	0.96126170	0.286745386	3.487414444	1.040299436	3.627955279
16° 00′ 10″	0.27568396	0.96124833	0.286797854	3.486776437	1.040313899	3.627341991
16° 00′ 20″	0.27573056	0.96123496	0.286850324	3.486138646	1.040328366	3.626728920
16° 00′ 30″	0.27577716	0.96122160	0.286902795	3.485501070	1.040342835	3.626116064
16° 00′ 40″	0.27582376	0.96120822	0.286955268	3.484863710	1.040357307	3.625503424
16° 00′ 50″	0.27587036	0.76120822	0.287007742	3.484226565	1.040371782	3.624891000
16° 01′ 00″	0.27591696	0.96118148	0.287060218	3.483589636	1.040386259	3.624278791
16° 01′ 10″	0.27576356	0.96116810	0.287112695	3.482952921	1.040400740	3.623666797
16° 01′ 20″	0.27601016	0.96115472	0.287165174	3.482316422	1.040415223	3.623055018
16° 01′ 30″	0.27605676	0.96114133	0.287217654	3.481680137	1.040429710	3.622443454
16° 01′ 40″	0.27610336	0.96112795	0.287270135	3.481044068	1.040444199	3.621832105
16° 01′ 50″	0.27614995	0.96111456	0.287322618	3.480408212	1.040458691	3.621220972
16° 02′ 00″	0.27619655	0.96110117	0.287375103	3.479772572	1.040473185	3.620610052
16° 02′ 10″	0.27624314	0.96108778	0.287427589	3.479137146	1.040487683	3.619999348
16° 02′ 20″	0.27628974	0.96107439	0.287480076	3.478501934	1.040502184	3.619388858
16° 02′ 30″	0.27633633	0.96106099	0.287532565	3.477866936	1.040516687	3.618778582
16° 02′ 40″	0.27638293	0.96104759	0.287585055	3.477232152	1.040531193	3.618168520
16° 02′ 50″	0.27642952	0.96103419	0.287637547	3.476597583	1.040545702	3.617558673
16° 03′ 00″	0.27647611	0.96102079	0.287690040	3.475963227	1.040560214	3.616949040
16° 03′ 10″	0.27652270	0.96100739	0.287742535	3.475329085	1.040574729	3.616339621
16° 03′ 20″	0.27656929	0.96099398	0.287795031	3.474695157	1.040589246	3.615730415
16° 03′ 30″	0.27661588	0.96098057	0.287847528	3.474061442	1.040603767	3.615121423
16° 03′ 40″	0.27666247	0.96096716	0.287900028	3.473427941	1.040618290	3.614512645
16° 03′ 50″	0.27670906	0.96095374	0.287952528	3.472794653	1.040632816	3.613904080
16° 04′ 00″	0.27675565	0.96094033	0.288005030	3.472161578	1.040647345	3.613295729
16° 04′ 10″	0.27680224	0.96092691	0.288057534	3.471528717	1.040661877	3.612687591
16° 04′ 20″	0.27684882	0.96091349	0.288110039	3.470896068	1.040676412	3.612079666
16° 04′ 30″	0.27689541	0.96090006	0.288162545	3.470263632	1.040690949	3.611471954
16° 04′ 40″	0.27694199	0.96088664	0.288215053	3.469631409	1.040705490	3.610864455
16° 04′ 50″	0.27698858	0.96087321	0.288267562	3.468999399	1.040720033	3.610257169
16° 05′ 00″	0.27703516	0.96085978	0.288320073	3.468367601	1.040734579	3.609650096
16° 05′ 10″	0.27708175	0.96084635	0.288372585	3.467736016	1.040749128	3.609043235
16° 05′ 20″	0.27712833	0.96083291	0.288425099	3.467104643	1.040763680	3.608436587
16° 05′ 30″	0.27717491	0.96081948	0.288477614	3.466473482	1.040778235	3.607830151
16° 05′ 40″	0.27722149	0.96080604	0.288530131	3.465842533	1.040792792	3.607223928
16° 05′ 50″	0.27726807	0.96079260	0.288582649	3.465211796	1.040807353	3.606617916
16° 06′ 00″	0.27731465	0.96077915	0.288635169	3.464581272	1.040821916	3.606012117
16° 06′ 10″	0.27736123	0.96076571	0.288687690	3.463950959	1.040836482	3.605406530
16° 06′ 20″	0.27740781	0.96075226	0.288740212	3.463320857	1.040851051	3.604801154
16° 06′ 30″	0.27745439	0.96073881	0.288792736	3.462690967	1.040865623	3.604195990
16° 06′ 40″	0.27750097	0.96072536	0.288845262	3.462061289	1.040880197	3.603591038
16° 06′ 50″	0.27754754	0.96071190	0.288897789	3.461431822	1.040894775	3.602986297
16° 07′ 00″	0.27759412	0.96069845	0.288950317	3.460802566	1.040909355	3.602381768
16° 07′ 10″	0.27764070	0.96068499	0.289002847	3.460173522	1.040923939	3.601777450
16° 07′ 20″	0.27768727	0.96067153	0.289055379	3.459544688	1.040938525	3.601173343
16° 07′ 30″	0.27773385	0.96065806	0.289107912	3.458916065	1.040953114	3.600569447
16° 07′ 40″	0.27778042	0.96064460	0.289160446	3.458287653	1.040967705	3.599965763
16° 07′ 50″	0.27782699	0.96063113	0.289212982	3.457659452	1.040982300	3.599362289
	1					

121 16° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
16° 08′ 00″	0.27787356	0.96061766	0.289265519	3.457031461	1.040996897	3.598759026
16° 08′ 10″	0.27792014	0.96060418	0.289318058	3.456403681	1.041011498	3.598155973
16° 08′ 20″	0.27796671	0.96059071	0.289370598	3.455776111	1.041026101	3.597553131
16° 08′ 30″	0.27801328	0.96057723	0.289423140	3.455148752	1.041040707	3.596950500
16° 08′ 40″	0.27805985	0.96056375	0.289475683	3.454521602	1.041055316	3.596348078
16° 08′ 50″	0.27810642	0.96055027	0.289528228	3.453894663	1.041069928	3.595745867
16° 09′ 00″	0.27815299	0.96053679	0.289580774	3.453267933	1.041084542	3.595143866
16° 09′ 10″	0.27819955	0.96052330	0.289633321	3.452641414	1.041099160	3.594542075
16° 09′ 20″	0.27824612	0.96050981	0.289685870	3.452015104	1.041113780	3.593940494
16° 09′ 30″	0.27829269	0.96049632	0.289738421	3.451389003	1.041128404	3.593339123
16° 09′ 40″	0.27833925	0.96048283	0.289790973	3.450763112	1.041143030	3.592737961
16° 09′ 50″	0.27838582	0.96046933	0.289843527	3.450137431	1.041157659	3.592137009
16° 10′ 00″	0.27843238	0.96045583	0.289896082	3.449511959	1.041172290	3.591536266
16° 10′ 10″	0.27847895	0.96044233	0.289948638	3.448886696	1.041186925	3.590935733
16° 10′ 20″	0.27852551	0.96042883	0.290001196	3.448261642	1.041201562	3.590335409
16° 10′ 30″	0.27857207	0.96041533	0.290053755	3.447636797	1.041216203	3.589735294
16° 10′ 40″	0.27861863	0.96040182	0.290106316	3.447012161	1.041230846	3.589135388
16° 10′ 50″	0.27866520	0.96038831	0.290158879	3.446387733	1.041245492	3.588535691
16° 11′ 00″	0.27871176	0.96037480	0.290211443	3.445763514	1.041260141	3.587936203
16° 11′ 10″	0.27875832	0.96036129	0.290264008	3.445139504	1.041274793	3.587336923
16° 11′ 20″	0.27880488	0.96034777	0.290316575	3.444515702	1.041289448	3.586737852
16° 11′ 30″	0.27885143	0.96033425	0.290369143	3.443892109	1.041304105	3.586138990
16° 11′ 40″	0.27889799	0.96032073	0.290421713	3.443268723	1.041318765	3.585540336
16° 11′ 50″	0.27894455	0.96030721	0.290474284	3.442645546	1.041333429	3.584941890
16° 12′ 00″	0.27899111	0.96029369	0.290526857	3.442022577	1.041348095	3.584343652
16° 12′ 10″	0.27903766	0.96028016	0.290579431	3.441399815	1.041362764	3.583745623
16° 12′ 20″	0.27908422	0.96026663	0.290632007	3.440777262	1.041377436	3.583147801
16° 12′ 30″	0.27913077	0.96025310	0.290684584	3.440154916	1.041392110	3.582550187
16° 12′ 40″	0.27917733	0.96023956	0.290737163	3.439532777	1.041406788	3.581952781
16° 12′ 50″	0.27922388	0.96022603	0.290789743	3.438910846	1.041421468	3.581355583
16° 13′ 00″	0.27927043	0.96021249	0.290842324	3.438289123	1.041436151	3.580758592
16° 13′ 10″	0.27931698	0.96019895	0.290894907	3.437667606	1.041450838	3.580161808
16° 13′ 20″	0.27936354	0.96018541	0.290947492	3.437046297	1.041465527	3.579565232
16° 13′ 30″	0.27941009	0.96017186	0.291000078	3.436425195	1.041480218	3.578968863
16° 13′ 40″	0.27945664	0.96015831	0.291052666	3.435804300	1.041494913	3.578372701
16° 13′ 50″	0.27950319	0.96014476	0.291105255	3.435183611	1.041509611	3.577776746
16° 14′ 00″	0.27954974	0.96013121	0.291157845	3.434563129	1.041524311	3.577180998
16° 14′ 10″	0.27959628	0.96011766	0.291210437	3.433942854	1.041539015	3.576585456
16° 14′ 20″	0.27964283	0.96010410	0.291263031	3.433322786	1.041553721	3.575990122
16° 14′ 30″	0.27968938	0.96009054	0.291315626	3.432702923	1.041568430	3.575394994
16° 14′ 40″	0.27973592	0.96007698	0.291368222	3.432083267	1.041583142	3.574800072
16° 14′ 50″	0.27978247	0.96006342	0.291420820	3.431463818	1.041597856	3.574205357
16° 15′ 00″	0.27982901	0.96004985	0.291473420	3.430844574	1.041612574	3.573610848
16° 15′ 10″	0.27987556	0.96003629	0.291526021	3.430225536	1.041627294	3.573016545
16° 15′ 20″	0.27992210	0.96002272	0.291578623	3.429606704	1.041642018	3.572422448
16° 15′ 30″	0.27996864	0.96000914	0.291631227	3.428988078	1.041656744	3.571828557
16° 15′ 40″	0.28001519	0.95999557	0.291683832	3.428369657	1.041671473	3.571234872
16° 15′ 50″	0.28006173	0.95998199	0.291736439	3.427751442	1.041686205	3.570641392

122 16° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
16° 16′ 00″	0.28010827	0.95996841	0.291789047	3.427133433	1.041700940	3.570048118
16° 16′ 10″	0.28015481	0.95995483	0.291841657	3.426515629	1.041715678	3.569455050
16° 16′ 20″	0.28020135	0.95994125	0.291894269	3.425898030	1.041730418	3.568862187
16° 16′ 30″	0.28024789	0.95992766	0.291946882	3.425280636	1.041745162	3.568269529
16° 16′ 40″	0.28029443	0.95991408	0.291999496	3.424663447	1.041759908	3.567677077
16° 16′ 50″	0.28034096	0.95990049	0.292052112	3.424046463	1.041774657	3.567084830
16° 17′ 00″	0.28038750	0.95988689	0.292104729	3.423429684	1.041789409	3.566492787
16° 17′ 10″	0.28043404	0.95987330	0.292157348	3.422813110	1.041804164	3.565900950
16° 17′ 20″	0.28048057	0.95985970	0.292209968	3.422196740	1.041818922	3.565309317
16° 17′ 30″	0.28052711	0.95984610	0.292262590	3.421580575	1.041833682	3.564717889
16° 17′ 40″	0.28057364	0.95983250	0.292315213	3.420964614	1.041848446	3.564126666
16° 17′ 50″	0.28062018	0.95981890	0.292367838	3.420348857	1.041863212	3.563535646
16° 18′ 00″	0.28066671	0.95980529	0.292420464	3.419733305	1.041877981	3.562944832
16° 18′ 10″	0.28071324	0.95979168	0.292473092	3.419117956	1.041892753	3.562354221
16° 18′ 20″	0.28075977	0.95977807	0.292525721	3.418502812	1.041907528	3.561763815
16° 18′ 30″	0.28080630	0.95976446	0.292578352	3.417887871	1.041922306	3.561173613
16° 18′ 40″	0.28085283	0.95975085	0.292630984	3.417273134	1.041937087	3.560583614
16° 18′ 50″	0.28089936	0.95973723	0.292683618	3.416658601	1.041951870	3.559993820
16° 19′ 00″	0.28094589	0.95972361	0.292736253	3.416044272	1.041966657	3.559404229
16° 19′ 10″	0.28099242	0.95970999	0.292788890	3.415430146	1.041981446	3.558814842
16° 19′ 20″	0.28103895	0.95969636	0.292841528	3.414816223	1.041996238	3.558225658
16° 19′ 30″	0.28108548	0.95968274	0.292894168	3.414202503	1.042011033	3.557636678
16° 19′ 40″	0.28113200	0.95966911	0.292946809	3.413588987	1.042025831	3.557047901
16° 19′ 50″	0.28117853	0.95965548	0.292999451	3.412975674	1.042040632	3.556459327
16° 20′ 00″	0.28122505	0.95964184	0.293052096	3.412362563	1.042055436	3.555870957
16° 20′ 10″	0.28127158	0.95962821	0.293104741	3.411749655	1.042070242	3.555282789
16° 20′ 20″	0.28131810	0.95961457	0.293157388	3.411136951	1.042085051	3.554694825
16° 20′ 30″	0.28136462	0.95960093	0.293210037	3.410524448	1.042099864	3.554107063
16° 20′ 40″	0.28141115	0.95958729	0.293262687	3.409912149	1.042114679	3.553519503
16° 20′ 50″	0.28145767	0.95957365	0.293315339	3.409300051	1.042129497	3.552932147
16° 21′ 00″	0.28150419	0.95956000	0.293367992	3.408688156	1.042144318	3.552344993
16° 21′ 10″	0.28155071	0.95954635	0.293420647	3.408076463	1.042159141	3.551758041
16° 21′ 20″ 16° 21′ 30″	0.28159723	0.95953270	0.293473303	3.407464973	1.042173968	3.551171291
16° 21′ 40″	0.28164375	0.95951905 0.95950539	0.293525961 0.293578620	3.406853684 3.406242597	1.042188797 1.042203630	3.550584744 3.549998399
16° 21′ 50″	0.28173679	0.95949173	0.273378620		1.042203630	3.547776577
16° 21′ 30″ 16° 22′ 00″	0.28178330	0.95947807	0.273631260	3.405631712 3.405021029	1.042233303	3.548826314
16° 22′ 10″	0.28178330	0.75747807	0.273663742	3.403021027	1.042248144	3.548240574
16° 22′ 20″	0.28187634	0.75746441	0.293789271	3.403800267	1.042248144	3.547655036
16° 22′ 30″	0.28192285	0.75743074	0.293841938	3.403190188	1.042277835	3.547069700
16° 22′ 40″	0.28172283	0.75743708	0.293894606	3.402580311	1.042277633	3.546484565
16° 22′ 50″	0.28201588	0.75742341	0.273874606	3.401970634	1.042272664	3.545899631
16° 23′ 00″	0.28206239	0.95939606	0.293999947	3.401770834	1.042322392	3.545314899
16° 23′ 10″	0.28210890	0.75737606	0.294052620	3.400751884	1.042322372	3.544730368
16° 23′ 20″	0.28215542	0.95936871	0.294105294	3.400142811	1.042352111	3.544146038
16° 23′ 30″	0.28220193	0.95935503	0.294157969	3.399533938	1.042366975	3.543561908
16° 23′ 40″	0.28224844	0.95934135	0.294210647	3.398925266	1.042381842	3.542977980
16° 23′ 50″	0.28229495	0.95932766	0.294263325	3.398316795	1.042396712	3.542394252
	J.2022/ 1/3	3., 3, 32, 30	5.27.203323	2.070010770		0.0 1207 1202

123 16° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
16° 24′ 00″	0.28234146	0.95931397	0.294316005	3.397708524	1.042411584	3.541810725
16° 24′ 10″	0.28238797	0.95930029	0.294368687	3.397100453	1.042426460	3.541227399
16° 24′ 20″	0.28243447	0.95928659	0.294421370	3.396492583	1.042441338	3.540644273
16° 24′ 30″	0.28248098	0.95927290	0.294474055	3.395884913	1.042456219	3.540061347
16° 24′ 40″	0.28252749	0.95925920	0.294526741	3.395277442	1.042471103	3.539478621
16° 24′ 50″	0.28257399	0.95924550	0.294579429	3.394670172	1.042485990	3.538896096
16° 25′ 00″	0.28262050	0.95923180	0.294632118	3.394063102	1.042500880	3.538313771
16° 25′ 10″	0.28266700	0.95921810	0.294684809	3.393456231	1.042515773	3.537731645
16° 25′ 20″	0.28271351	0.95920440	0.294737501	3.392849560	1.042530668	3.537149720
16° 25′ 30″	0.28276001	0.95919069	0.294790195	3.392243089	1.042545567	3.536567994
16° 25′ 40″	0.28280651	0.95917698	0.294842890	3.391636817	1.042560468	3.535986468
16° 25′ 50″	0.28285301	0.95916327	0.294895586	3.391030744	1.042575372	3.535405141
16° 26′ 00″	0.28289952	0.95914955	0.294948285	3.390424871	1.042590279	3.534824013
16° 26′ 10″	0.28294602	0.95913584	0.295000984	3.389819197	1.042605189	3.534243085
16° 26′ 20″	0.28299252	0.95912212	0.295053686	3.389213722	1.042620102	3.533662357
16° 26′ 30″	0.28303901	0.95910840	0.295106388	3.388608445	1.042635018	3.533081827
16° 26′ 40″	0.28308551	0.95909467	0.295159093	3.388003368	1.042649936	3.532501496
16° 26′ 50″	0.28313201	0.95908095	0.295211798	3.387398489	1.042664858	3.531921365
16° 27′ 00″	0.28317851	0.95906722	0.295264506	3.386793809	1.042679782	3.531341432
16° 27′ 10″	0.28322501	0.95905349	0.295317214	3.386189328	1.042694709	3.530761698
16° 27′ 20″	0.28327150	0.95903976	0.295369925	3.385585045	1.042709640	3.530182162
16° 27′ 30″	0.28331800	0.95902602	0.295422637	3.384980960	1.042724573	3.529602825
16° 27′ 40″	0.28336449	0.95901229	0.295475350	3.384377074	1.042739508	3.529023686
16° 27′ 50″	0.28341098	0.95899855	0.295528065	3.383773386	1.042754447	3.528444746
16° 28′ 00″	0.28345748	0.95898481	0.295580781	3.383169895	1.042769389	3.527866004
16° 28′ 10″	0.28350397	0.95897106	0.295633499	3.382566603	1.042784333	3.527287460
16° 28′ 20″	0.28355046	0.95895732	0.295686218	3.381963508	1.042799281	3.526709114
16° 28′ 30″	0.28359695	0.95894357	0.295738939	3.381360612	1.042814231	3.526130966
16° 28′ 40″	0.28364344	0.95892982	0.295791661	3.380757913	1.042829184	3.525553015
16° 28′ 50″	0.28368993	0.95891607	0.295844385	3.380155411	1.042844140	3.524975263
16° 29′ 00″	0.28373642	0.95890231	0.295897111	3.379553107	1.042859099	3.524397708
16° 29′ 10″	0.28378291	0.95888855	0.295949838	3.378951000	1.042874061	3.523820350
16° 29′ 20″	0.28382940	0.95887479	0.296002566	3.378349090	1.042889025	3.523243190
16° 29′ 30″	0.28387589	0.95886103	0.296055296	3.377747378	1.042903993	3.522666227
16° 29′ 40″	0.28392237	0.95884727	0.296108028	3.377145863	1.042918963	3.522089462
16° 29′ 50″	0.28396886	0.95883350	0.296160760	3.376544544	1.042933937	3.521512893
16° 30′ 00″	0.28401534	0.95881973	0.296213495	3.375943423	1.042948913	3.520936522
16° 30′ 10″	0.28406183	0.95880596	0.296266231	3.375342498	1.042963892	3.520360348
16° 30′ 20″	0.28410831	0.95879219	0.296318968	3.374741769	1.042978874	3.519784370
16° 30′ 30″	0.28415480	0.95877842	0.296371708	3.374141238	1.042993859	3.519208589
16° 30′ 40″	0.28420128	0.95876464	0.296424448	3.373540903	1.043008846	3.518633005
16° 30′ 50″	0.28424776	0.95875086	0.296477190	3.372940764	1.043023837	3.518057617
16° 31′ 00″	0.28429424	0.95873708	0.296529934	3.372340821	1.043038830	3.517482425
16° 31′ 10″	0.28434072	0.95872329	0.296582679	3.371741074	1.043053827	3.516907430
16° 31′ 20″	0.28438720	0.95870951	0.296635425	3.371141524	1.043068826	3.516332631
16° 31′ 30″	0.28443368	0.95869572	0.296688174	3.370542169	1.043083828	3.515758029
16° 31′ 40″ 16° 31′ 50″	0.28448016	0.95868193	0.296740923	3.369943011	1.043098833	3.515183622
10 31 30"	0.28452664	0.95866813	0.296793674	3.369344048	1.043113841	3.514609411

124 16° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
16° 32′ 00″	0.28457312	0.95865434	0.296846427	3.368745280	1.043128852	3.514035396
16° 32′ 10″	0.28461959	0.95864054	0.296899181	3.368146709	1.043143865	3.513461577
16° 32′ 20″	0.28466607	0.95862674	0.296951937	3.367548332	1.043158882	3.512887953
16° 32′ 30″	0.28471254	0.95861294	0.297004694	3.366950152	1.043173901	3.512314525
16° 32′ 40″	0.28475902	0.95859914	0.297057453	3.366352166	1.043188924	3.511741292
16° 32′ 50″	0.28480549	0.95858533	0.297110213	3.365754375	1.043203949	3.511168255
16° 33′ 00″	0.28485196	0.95857152	0.297162975	3.365156780	1.043218977	3.510595413
16° 33′ 10″	0.28489844	0.95855771	0.297215738	3.364559379	1.043234008	3.510022766
16° 33′ 20″	0.28494491	0.95854390	0.297268503	3.363962174	1.043249042	3.509450314
16° 33′ 30″	0.28499138	0.95853008	0.297321269	3.363365163	1.043264078	3.508878057
16° 33′ 40″	0.28503785	0.95851626	0.297374037	3.362768347	1.043279118	3.508305995
16° 33′ 50″	0.28508432	0.95850244	0.297426807	3.362171725	1.043294161	3.507734127
16° 34′ 00″	0.28513079	0.95848862	0.297479578	3.361575298	1.043309206	3.507162455
16° 34′ 10″	0.28517726	0.95847479	0.297532350	3.360979065	1.043324254	3.506590976
16° 34′ 20″	0.28522373	0.95846097	0.297585124	3.360383027	1.043339305	3.506019693
16° 34′ 30″	0.28527019	0.95844714	0.297637900	3.359787182	1.043354359	3.505448603
16° 34′ 40″	0.28531666	0.95843331	0.297690677	3.359191532	1.043369416	3.504877708
16° 34′ 50″	0.28536313	0.95841947	0.297743455	3.358596076	1.043384476	3.504307007
16° 35′ 00″	0.28540959	0.95840564	0.297796235	3.358000813	1.043399539	3.503736500
16° 35′ 10″	0.28545606	0.95839180	0.297849017	3.357405745	1.043414604	3.503166187
16° 35′ 20″	0.28550252	0.95837796	0.297901800	3.356810870	1.043429673	3.502596068
16° 35′ 30″	0.28554898	0.95836412	0.297954585	3.356216188	1.043444744	3.502026143
16° 35′ 40″	0.28559544	0.95835027	0.298007371	3.355621701	1.043459819	3.501456411
16° 35′ 50″	0.28564191	0.95833642	0.298060158	3.355027406	1.043474896	3.500886873
16° 36′ 00″	0.28568837	0.95832257	0.298112948	3.354433305	1.043489976	3.500317528
16° 36′ 10″	0.28573483	0.95830872	0.298165738	3.353839397	1.043505059	3.499748377
16° 36′ 20″	0.28578129	0.95829487	0.298218531	3.353245682	1.043520145	3.499179419
16° 36′ 30″	0.28582775	0.95828101	0.298271324	3.352652160	1.043535233	3.498610654
16° 36′ 40″	0.28587421	0.95826715	0.298324120	3.352058831	1.043550325	3.498042082
16° 36′ 50″	0.28592066	0.95825329	0.298376917	3.351465695	1.043565419	3.497473704
16° 37′ 00″	0.28596712	0.95823943	0.298429715	3.350872752	1.043580517	3.496905518
16° 37′ 10″ 16° 37′ 20″	0.28601358	0.95822557	0.298482515	3.350280001	1.043595617	3.496337525
16° 37′ 30″	0.28606003	0.95821170 0.95819783	0.298535316	3.349687443	1.043610720	3.495769724
16° 37′ 40″	0.28610649 0.28615294	0.95819785	0.298588119 0.298640924	3.349095077 3.348502904	1.043625826 1.043640935	3.495202117 3.494634701
16° 37′ 40″ 16° 37′ 50″	0.28619244	0.95817008	0.298693730	3.347910922	1.043640933	3.494067479
16° 38′ 00″	0.28624585	0.75817608	0.278673730	3.347319133	1.043671162	3.493500448
16° 38′ 10″	0.28629230	0.75813621	0.298799346	3.346727536	1.043686279	3.492933610
16° 38′ 20″	0.28633875	0.73814233	0.298852157	3.346136131	1.043701400	3.492366964
16° 38′ 30″	0.28638520	0.75812845	0.298904969	3.345544918	1.043716523	3.491800510
16° 38′ 40″	0.28643165	0.73811438	0.298957783	3.344953896	1.043716323	3.491234247
16° 38′ 50″	0.28647810	0.95808679	0.299010598	3.344363067	1.043746778	3.490668177
16° 39′ 00″	0.28652455	0.7580777	0.299063415	3.343772428	1.043740776	3.490102298
16° 39′ 10″	0.28657100	0.95805901	0.299116233	3.343181982	1.043777046	3.489536611
16° 39′ 20″	0.28661745	0.95804511	0.299169053	3.342591726	1.043792183	3.488971116
16° 39′ 30″	0.28666390	0.95803122	0.299221874	3.342001662	1.043807324	3.488405812
16° 39′ 40″	0.28671034	0.95801732	0.299274697	3.341411789	1.043822468	3.487840699
16° 39′ 50″	0.28675679	0.95800342	0.299327521	3.340822107	1.043837614	3.487275778
	1.200,00,7	355000.12		2.0.0322.07		

125 16° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
16° 40′ 00″	0.28680323	0.95798951	0.299380347	3.340232616	1.043852764	3.486711048
16° 40′ 10″	0.28684968	0.75778751	0.299433175	3.339643316	1.043867916	3.486146509
16° 40′ 10″	0.28689612	0.95796170	0.277433173	3.339054207	1.043883071	3.485582160
16° 40′ 30″						3.485018003
	0.28694256	0.95794779	0.299538834	3.338465288	1.043898229	
16° 40′ 40″	0.28698901	0.95793388	0.299591666	3.337876560	1.043913390	3.484454037
16° 40′ 50″	0.28703545	0.95791996	0.299644500	3.337288023	1.043928554	3.483890261
16° 41′ 00″	0.28708189	0.95790604	0.299697335	3.336699676	1.043943721	3.483326675
16° 41′ 10″	0.28712833	0.95789212	0.299750171	3.336111519	1.043958891	3.482763281
16° 41′ 20″	0.28717477	0.95787820	0.299803010	3.335523553	1.043974063	3.482200076
16° 41′ 30″	0.28722121	0.95786428	0.299855849	3.334935777	1.043989239	3.481637062
16° 41′ 40″	0.28726765	0.95785035	0.299908691	3.334348190	1.044004417	3.481074239
16° 41′ 50″	0.28731408	0.95783643	0.299961533	3.333760794	1.044019598	3.480511605
16° 42′ 00″	0.28736052	0.95782249	0.300014378	3.333173587	1.044034782	3.479949161
16° 42′ 10″	0.28740696	0.95780856	0.300067224	3.332586571	1.044049969	3.479386907
16° 42′ 20″	0.28745339	0.95779463	0.300120071	3.331999744	1.044065159	3.478824843
16° 42′ 30″	0.28749983	0.95778069	0.300172920	3.331413106	1.044080352	3.478262969
16° 42′ 40″	0.28754626	0.95776675	0.300225771	3.330826658	1.044095548	3.477701285
16° 42′ 50″	0.28759269	0.95775281	0.300278623	3.330240399	1.044110747	3.477139790
16° 43′ 00″	0.28763913	0.95773886	0.300331476	3.329654330	1.044125948	3.476578484
16° 43′ 10″	0.28768556	0.95772492	0.300384331	3.329068450	1.044141153	3.476017368
16° 43′ 20″	0.28773199	0.95771097	0.300437188	3.328482759	1.044156360	3.475456441
16° 43′ 30″	0.28777842	0.95769702	0.300490046	3.327897256	1.044171570	3.474895703
16° 43′ 40″	0.28782485	0.95768307	0.300542906	3.327311943	1.044186783	3.474335155
16° 43′ 50″	0.28787128	0.95766911	0.300595767	3.326726819	1.044201999	3.473774795
16° 44′ 00″	0.28791771	0.95765515	0.300648630	3.326141883	1.044217218	3.473214624
16° 44′ 10″	0.28796414	0.95764119	0.300701494	3.325557136	1.044232440	3.472654642
16° 44′ 20″	0.28801057	0.95762723	0.300754360	3.324972577	1.044247665	3.472094849
16° 44′ 30″	0.28805699	0.95761327	0.300807228	3.324388207	1.044262892	3.471535244
16° 44′ 40″	0.28810342	0.95759930	0.300860097	3.323804025	1.044278123	3.470975828
16° 44′ 50″	0.28814984	0.95758533	0.300912967	3.323220032	1.044293356	3.470416600
16° 45′ 00″	0.28819627	0.95757136	0.300965839	3.322636226	1.044308592	3.469857561
16° 45′ 10″	0.28824269	0.95755739	0.301018713	3.322052609	1.044323832	3.469298710
16° 45′ 20″	0.28828912	0.95754341	0.301071588	3.321469180	1.044339074	3.468740047
16° 45′ 30″	0.28833554	0.95752943	0.301124465	3.320885938	1.044354319	3.468181572
16° 45′ 40″	0.28838196	0.95751545	0.301177343	3.320302884	1.044369567	3.467623285
16° 45′ 50″	0.28842838	0.95750147	0.301230223	3.319720018	1.044384817	3.467065185
16° 46′ 00″	0.28847480	0.95748749	0.301283104	3.319137340	1.044400071	3.466507274
16° 46′ 10″	0.28852122	0.95747350	0.301335987	3.318554849	1.044415328	3.465949550
16° 46′ 20″	0.28856764	0.95745951	0.301388871	3.317972545	1.044430587	3.465392014
16° 46′ 30″	0.28861406	0.95744552	0.301441757	3.317390429	1.044445850	3.464834665
16° 46′ 40″	0.28866048	0.95743153	0.301494645	3.316808500	1.044461115	3.464277504
16° 46′ 50″	0.28870690	0.95741753	0.301547534	3.316226758	1.044476383	3.463720530
16° 47′ 00″	0.28875331	0.95740353	0.301600424	3.315645203	1.044491654	3.463163743
16° 47′ 10″	0.28879973	0.95738953	0.301653316	3.315063835	1.044506928	3.462607143
16° 47′ 20″	0.28884614	0.95737553	0.301706210	3.314482654	1.044522205	3.462050731
16° 47′ 30″	0.28889256	0.95736153	0.301759105	3.313901659	1.044537485	3.461494505
16° 47′ 40″	0.28893897	0.95734752	0.301812002	3.313320852	1.044552768	3.460938466
16° 47′ 50″	0.28898538	0.95733351	0.301864900	3.312740230	1.044568053	3.460382614

126 16° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
16° 48′ 00″	0.28903180	0.95731950	0.301917800	3.312159796	1.044583342	3.459826948
16° 48′ 10″	0.28907821	0.95730548	0.301970702	3.311579547	1.044598633	3.459271469
16° 48′ 20″	0.28912462	0.95729147	0.302023605	3.310999485	1.044613928	3.458716177
16° 48′ 30″	0.28917103	0.95727745	0.302076509	3.310419610	1.044629225	3.458161071
16° 48′ 40″	0.28921744	0.95726343	0.302129415	3.309839920	1.044644525	3.457606151
16° 48′ 50″	0.28926385	0.95724941	0.302182323	3.309260416	1.044659828	3.457051417
16° 49′ 00″	0.28931026	0.95723538	0.302235232	3.308681098	1.044675134	3.456496870
16° 49′ 10″	0.28935667	0.95722135	0.302288143	3.308101966	1.044690443	3.455942508
16° 49′ 20″	0.28940307	0.95720732	0.302341055	3.307523020	1.044705755	3.455388333
16° 49′ 30″	0.28944948	0.95719329	0.302393969	3.306944260	1.044721069	3.454834343
16° 49′ 40″	0.28949588	0.95717926	0.302446884	3.306365684	1.044736387	3.454280539
16° 49′ 50″	0.28954229	0.95716522	0.302499801	3.305787295	1.044751707	3.453726920
16° 50′ 00″	0.28958869	0.95715118	0.302552720	3.305209091	1.044767031	3.453173487
16° 50′ 10″	0.28963510	0.95713714	0.302605640	3.304631072	1.044782357	3.452620240
16° 50′ 20″	0.28968150	0.95712310	0.302658561	3.304053238	1.044797686	3.452067178
16° 50′ 30″	0.28972790	0.95710905	0.302711485	3.303475589	1.044813018	3.451514301
16° 50′ 40″	0.28977430	0.95709501	0.302764409	3.302898126	1.044828353	3.450961609
16° 50′ 50″	0.28982071	0.95708096	0.302817336	3.302320847	1.044843691	3.450409103
16° 51′ 00″	0.28986711	0.95706691	0.302870263	3.301743753	1.044859032	3.449856781
16° 51′ 10″	0.28991351	0.95705285	0.302923193	3.301166844	1.044874376	3.449304644
16° 51′ 20″	0.28995990	0.95703879	0.302976124	3.300590119	1.044889722	3.448752692
16° 51′ 30″	0.29000630	0.95702474	0.303029056	3.300013579	1.044905072	3.448200925
16° 51′ 40″	0.29005270	0.95701067	0.303081990	3.299437223	1.044920424	3.447649343
16° 51′ 50″	0.29009910	0.95699661	0.303134926	3.298861052	1.044935779	3.447097945
16° 52′ 00″	0.29014549	0.95698255	0.303187863	3.298285065	1.044951138	3.446546731
16° 52′ 10″	0.29019189	0.95696848	0.303240802	3.297709262	1.044966499	3.445995702
16° 52′ 20″	0.29023828	0.95695441	0.303293742	3.297133644	1.044981863	3.445444857
16° 52′ 30″	0.29028468	0.95694034	0.303346684	3.296558209	1.044997230	3.444894196
16° 52′ 40″	0.29033107	0.95692626	0.303399627	3.295982958	1.045012600	3.444343720
16° 52′ 50″	0.29037746	0.95691218	0.303452572	3.295407891	1.045027973	3.443793427
16° 53′ 00″	0.29042386	0.95689811	0.303505518	3.294833008	1.045043348	3.443243318
16° 53′ 10″	0.29047025	0.95688402	0.303558466	3.294258308	1.045058727	3.442693393
16° 53′ 20″ 16° 53′ 30″	0.29051664	0.95686994	0.303611416	3.293683792	1.045074108	3.442143652
	0.29056303	0.95685585	0.303664367	3.293109459	1.045089493	3.441594095
16° 53′ 40″ 16° 53′ 50″	0.29060942	0.95684177	0.303717320	3.292535310	1.045104880	3.441044721
16° 54′ 00″	0.29065581	0.95682768	0.303770274	3.291961344	1.045120270	3.440495530
16° 54′ 10″	0.29070219 0.29074858	0.95681358 0.95679949	0.303823230 0.303876187	3.291387561 3.290813962	1.045135663 1.045151060	3.439946523 3.439397699
16° 54′ 20″	0.29074636	0.95678539	0.303929146	3.290240545	1.045151060	3.437377677
16° 54′ 30″	0.29079497	0.95678339	0.303929146	3.289667311	1.045181860	3.438300600
16° 54′ 40″	0.29088774	0.95675719	0.303782107	3.289094260	1.045197265	3.437752325
16° 54′ 50″	0.27088774	0.75673717	0.304033067	3.288521392	1.045177263	3.437732323
16° 55′ 00″	0.27073412	0.75674307	0.304140998	3.287948706	1.045228083	3.436656325
16° 55′ 10″	0.27078031	0.75672878	0.304193965	3.287376203	1.045243497	3.436108598
16° 55′ 20″	0.27102007	0.95670076	0.304246933	3.286803882	1.045258913	3.435561055
16° 55′ 30″	0.27107327	0.95668665	0.304299903	3.286231744	1.045274333	3.435013694
16° 55′ 40″	0.29116604	0.95667254	0.304352874	3.285659788	1.045289755	3.434466515
16° 55′ 50″	0.29121242	0.95665842	0.304405847	3.285088014	1.045305180	3.433919519
	0,2/121212	5.7500501Z	2.30 1 1030 17	3,20300017	13303100	3,133/1/31/

127 16° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
16° 56′ 00″	0.29125880	0.95664430	0.304458822	3.284516422	1.045320608	3.433372705
16° 56′ 10″	0.27123660	0.95663018	0.304511798	3.283945013	1.045336039	3.432826073
16° 56′ 20″	0.27130318	0.75661605	0.304564776	3.283373785	1.045351473	3.432279623
16° 56′ 30″	0.29139793	0.95660193	0.304564776	3.282802739	1.045366910	3.431733355
16° 56′ 40″						
	0.29144431	0.95658780	0.304670736	3.282231875	1.045382350	3.431187270
16° 56′ 50″	0.29149068	0.95657367	0.304723718	3.281661192	1.045397792	3.430641366
16° 57′ 00″	0.29153706	0.95655953	0.304776702	3.281090691	1.045413238	3.430095643
16° 57′ 10″	0.29158344	0.95654540	0.304829688	3.280520372	1.045428686	3.429550103
16° 57′ 20″	0.29162981	0.95653126	0.304882675	3.279950233	1.045444138	3.429004744
16° 57′ 30″	0.29167618	0.95651712	0.304935663	3.279380277	1.045459592	3.428459566
16° 57′ 40″	0.29172256	0.95650298	0.304988654	3.278810501	1.045475049	3.427914570
16° 57′ 50″	0.29176893	0.95648884	0.305041645	3.278240906	1.045490509	3.427369755
16° 58′ 00″	0.29181530	0.95647469	0.305094639	3.277671493	1.045505973	3.426825122
16° 58′ 10″	0.29186167	0.95646054	0.305147634	3.277102260	1.045521438	3.426280669
16° 58′ 20″	0.29190804	0.95644639	0.305200630	3.276533209	1.045536907	3.425736398
16° 58′ 30″	0.29195441	0.95643224	0.305253628	3.275964338	1.045552379	3.425192307
16° 58′ 40″	0.29200078	0.95641808	0.305306628	3.275395647	1.045567854	3.424648397
16° 58′ 50″	0.29204715	0.95640392	0.305359629	3.274827138	1.045583331	3.424104669
16° 59′ 00″	0.29209351	0.95638976	0.305412632	3.274258808	1.045598812	3.423561120
16° 59′ 10″	0.29213988	0.95637560	0.305465636	3.273690660	1.045614295	3.423017753
16° 59′ 20″	0.29218625	0.95636144	0.305518642	3.273122691	1.045629782	3.422474565
16° 59′ 30″	0.29223261	0.95634727	0.305571650	3.272554903	1.045645271	3.421931559
16° 59′ 40″	0.29227898	0.95633310	0.305624659	3.271987295	1.045660763	3.421388732
16° 59′ 50″	0.29232534	0.95631893	0.305677669	3.271419867	1.045676258	3.420846086
17° 00′ 00″	0.29237170	0.95630476	0.305730681	3.270852618	1.045691756	3.420303620
17° 00′ 10″	0.29241807	0.95629058	0.305783695	3.270285550	1.045707257	3.419761334
17° 00′ 20″	0.29246443	0.95627640	0.305836711	3.269718662	1.045722761	3.419219228
17° 00′ 30″	0.29251079	0.95626222	0.305889727	3.269151953	1.045738268	3.418677302
17° 00′ 40″	0.29255715	0.95624804	0.305942746	3.268585424	1.045753778	3.418135555
17° 00′ 50″	0.29260351	0.95623385	0.305995766	3.268019074	1.045769290	3.417593988
17° 01′ 00″	0.29264987	0.95621967	0.306048788	3.267452904	1.045784806	3.417052601
17° 01′ 10″	0.29269623	0.95620548	0.306101811	3.266886913	1.045800324	3.416511394
17° 01′ 20″	0.29274259	0.95619129	0.306154836	3.266321102	1.045815846	3.415970366
17° 01′ 30″	0.29278894	0.95617709	0.306207862	3.265755469	1.045831370	3.415429517
17° 01′ 40″	0.29283530	0.95616290	0.306260890	3.265190016	1.045846897	3.414888847
17° 01′ 50″	0.29288166	0.95614870	0.306313919	3.264624742	1.045862427	3.414348357
17° 02′ 00″	0.29292801	0.95613450	0.306366950	3.264059646	1.045877961	3.413808046
17° 02′ 10″	0.29297437	0.95612030	0.306419983	3.263494730	1.045893497	3.413267914
17° 02′ 20″	0.29302072	0.95610609	0.306473017	3.262929992	1.045909035	3.412727960
17° 02′ 30″	0.29306707	0.95609188	0.306526053	3.262365432	1.045924577	3.412188186
17° 02′ 40″	0.29311342	0.95607767	0.306579091	3.261801052	1.045940122	3.411648590
17° 02′ 50″	0.29315978	0.95606346	0.306632130	3.261236850	1.045955670	3.411109173
17° 03′ 00″	0.29320613	0.95604925	0.306685170	3.260672826	1.045971220	3.410569934
17° 03′ 10″	0.29325248	0.95603503	0.306738212	3.260108980	1.045986774	3.410030874
17° 03′ 20″	0.29329883	0.95602081	0.306791256	3.259545313	1.046002330	3.409491992
17° 03′ 30″	0.29334518	0.95600659	0.306844301	3.258981824	1.046017889	3.408953289
17° 03′ 40″	0.29339152	0.95599237	0.306897348	3.258418513	1.046033452	3.408414764
17° 03′ 50″	0.29343787	0.95597815	0.306950396	3.257855379	1.046049017	3.407876417

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x	$\sin(\mathbf{x})$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
17° 04′ 00″	0.29348422	0.95596392	0.307003446	3.257292424	1.046064585	3.407338248
17° 04′ 10″	0.29353056	0.95594969	0.307056498	3.256729646	1.046080156	3.406800257
17° 04′ 20″	0.29357691	0.95593546	0.307109551	3.256167047	1.046095730	3.406262444
17° 04′ 30″	0.29362325	0.95592122	0.307162606	3.255604624	1.046111307	3.405724808
17° 04′ 40″	0.29366960	0.95590699	0.307215662	3.255042379	1.046126887	3.405187350
17° 04′ 50″	0.29371594	0.95589275	0.307268720	3.254480312	1.046142469	3.404650070
17° 05′ 00″	0.29376228	0.95587851	0.307321780	3.253918422	1.046158055	3.404112968
17° 05′ 10″	0.29380863	0.95586426	0.307374841	3.253356709	1.046173644	3.403576043
17° 05′ 20″	0.29385497	0.95585002	0.307427903	3.252795174	1.046189235	3.403039295
17° 05′ 30″	0.29390131	0.95583577	0.307480967	3.252233815	1.046204830	3.402502724
17° 05′ 40″	0.29394765	0.95582152	0.307534033	3.251672634	1.046220427	3.401966331
17° 05′ 50″	0.29399399	0.95580727	0.307587101	3.251111629	1.046236027	3.401430115
17° 06′ 00″	0.29404033	0.95579301	0.307640170	3.250550801	1.046251630	3.400894075
17° 06′ 10″	0.29408666	0.95577876	0.307693240	3.249990150	1.046267236	3.400358213
17° 06′ 20″	0.29413300	0.95576450	0.307746312	3.249429676	1.046282845	3.399822527
17° 06′ 30″	0.29417934	0.95575024	0.307799386	3.248869378	1.046298457	3.399287019
17° 06′ 40″	0.29422567	0.95573597	0.307852461	3.248309257	1.046314072	3.398751687
17° 06′ 50″	0.29427201	0.95572171	0.307905538	3.247749312	1.046329690	3.398216531
17° 07′ 00″	0.29431834	0.95570744	0.307958617	3.247189543	1.046345311	3.397681552
17° 07′ 10″	0.29436468	0.95569317	0.308011697	3.246629951	1.046360935	3.397146749
17° 07′ 20″	0.29441101	0.95567890	0.308064778	3.246070534	1.046376561	3.396612123
17° 07′ 30″	0.29445734	0.95566462	0.308117862	3.245511294	1.046392191	3.396077673
17° 07′ 40″	0.29450367	0.95565035	0.308170947	3.244952230	1.046407823	3.395543399
17° 07′ 50″	0.29455000	0.95563607	0.308224033	3.244393341	1.046423458	3.395009301
17° 08′ 00″	0.29459633	0.95562179	0.308277121	3.243834629	1.046439097	3.394475379
17° 08′ 10″	0.29464266	0.95560750	0.308330210	3.243276092	1.046454738	3.393941633
17° 08′ 20″	0.29468899	0.95559322	0.308383302	3.242717730	1.046470382	3.393408062
17° 08′ 30″	0.29473532	0.95557893	0.308436394	3.242159545	1.046486029	3.392874668
17° 08′ 40″	0.29478165	0.95556464	0.308489489	3.241601534	1.046501679	3.392341449
17° 08′ 50″	0.29482797	0.95555035	0.308542585	3.241043699	1.046517332	3.391808406
17° 09′ 00″	0.29487430	0.95553605	0.308595682	3.240486040	1.046532988	3.391275538
17° 09′ 10″	0.29492063	0.95552176	0.308648781	3.239928555	1.046548647	3.390742845
17° 09′ 20″	0.29496695	0.95550746	0.308701882	3.239371246	1.046564309	3.390210328
17° 09′ 30″	0.29501327	0.95549315	0.308754984	3.238814111	1.046579973	3.389677986
17° 09′ 40″	0.29505960	0.95547885	0.308808088	3.238257152	1.046595641	3.389145819
17° 09′ 50″	0.29510592	0.95546454	0.308861194	3.237700367	1.046611311	3.388613827
17° 10′ 00″	0.29515224	0.95545024	0.308914301	3.237143757	1.046626985	3.388082010
17° 10′ 10″	0.29519856	0.95543593	0.308967409	3.236587322	1.046642661	3.387550368
17° 10′ 20″	0.29524488	0.95542161	0.309020520	3.236031062	1.046658340	3.387018901
17° 10′ 30″	0.29529120	0.95540730	0.309073631	3.235474976	1.046674023	3.386487608
17° 10′ 40″	0.29533752	0.95539298	0.309126745	3.234919064	1.046689708	3.385956490
17° 10′ 50″	0.29538384	0.95537866	0.309179860	3.234363327	1.046705396	3.385425546
17° 11′ 00″	0.29543016	0.95536434	0.309232976	3.233807764	1.046721087	3.384894777
17° 11′ 10″	0.29547648	0.95535002	0.309286095	3.233252375	1.046736781	3.384364183
17° 11′ 20″	0.29552279	0.95533569	0.309339214	3.232697160	1.046752478	3.383833762
17° 11′ 30″	0.29556911	0.95532136	0.309392336	3.232142120	1.046768178	3.383303516
17° 11′ 40″	0.29561542	0.95530703	0.309445459	3.231587253	1.046783880	3.382773444
17° 11′ 50″	0.29566174	0.95529270	0.309498583	3.231032560	1.046799586	3.382243546

129 17° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
17° 12′ 00″	0.29570805	0.95527836	0.309551710	3.230478041	1.046815295	3.381713822
17° 12′ 10″	0.29575436	0.95526402	0.309604837	3.229923695	1.046831006	3.381184271
17° 12′ 20″	0.29580068	0.95524968	0.309657967	3.229369523	1.046846721	3.380654895
17° 12′ 30″	0.29584699	0.95523534	0.309711098	3.228815525	1.046862438	3.380125692
17° 12′ 40″	0.29589330	0.95522100	0.309764230	3.228261700	1.046878158	3.379596663
17° 12′ 50″	0.29593961	0.95520665	0.309817364	3.227708048	1.046893882	3.379067807
17° 13′ 00″	0.29598592	0.95519230	0.309870500	3.227154570	1.046909608	3.378539124
17° 13′ 10″	0.29603223	0.95517795	0.309923637	3.226601264	1.046925337	3.378010615
17° 13′ 20″	0.29607853	0.95516360	0.309976776	3.226048132	1.046941069	3.377482280
17° 13′ 30″	0.29612484	0.95514924	0.310029917	3.225495173	1.046956804	3.376954117
17° 13′ 40″	0.29617115	0.95513489	0.310083059	3.224942386	1.046972542	3.376426128
17° 13′ 50″	0.29621745	0.95512053	0.310136203	3.224389773	1.046988283	3.375898311
17° 14′ 00″	0.29626376	0.95510616	0.310189348	3.223837332	1.047004027	3.375370668
17° 14′ 10″	0.29631006	0.95509180	0.310242495	3.223285064	1.047019773	3.374843197
17° 14′ 20″	0.29635637	0.95507743	0.310295643	3.222732969	1.047035523	3.374315899
17° 14′ 30″	0.29640267	0.95506306	0.310348794	3.222181046	1.047051276	3.373788774
17° 14′ 40″	0.29644897	0.95504869	0.310401945	3.221629295	1.047067031	3.373261821
17° 14′ 50″	0.29649527	0.95503432	0.310455099	3.221077717	1.047082790	3.372735041
17° 15′ 00″	0.29654157	0.95501994	0.310508253	3.220526311	1.047098551	3.372208433
17° 15′ 10″	0.29658788	0.95500557	0.310561410	3.219975077	1.047114315	3.371681998
17° 15′ 20″	0.29663417	0.95499119	0.310614568	3.219424015	1.047130083	3.371155735
17° 15′ 30″	0.29668047	0.95497680	0.310667728	3.218873125	1.047145853	3.370629644
17° 15′ 40″	0.29672677	0.95496242	0.310720889	3.218322408	1.047161626	3.370103725
17° 15′ 50″	0.29677307	0.95494803	0.310774052	3.217771861	1.047177402	3.369577978
17° 16′ 00″	0.29681937	0.95493364	0.310827217	3.217221487	1.047193181	3.369052404
17° 16′ 10″	0.29686566	0.95491925	0.310880383	3.216671285	1.047208963	3.368527000
17° 16′ 20″	0.29691196	0.95490486	0.310933550	3.216121253	1.047224748	3.368001769
17° 16′ 30″	0.29695825	0.95489046	0.310986720	3.215571394	1.047240536	3.367476710
17° 16′ 40″	0.29700455	0.95487606	0.311039891	3.215021706	1.047256327	3.366951822
17° 16′ 50″	0.29705084	0.95486166	0.311093063	3.214472189	1.047272120	3.366427105
17° 17′ 00″	0.29709713	0.95484726	0.311146237	3.213922843	1.047287917	3.365902560
17° 17′ 10″	0.29714342	0.95483286	0.311199413	3.213373669	1.047303717	3.365378186
17° 17′ 20″	0.29718972	0.95481845	0.311252590	3.212824666	1.047319519	3.364853984
17° 17′ 30″	0.29723601	0.95480404	0.311305769	3.212275833	1.047335325	3.364329953
17° 17′ 40″	0.29728230	0.95478963	0.311358950	3.211727172	1.047351133	3.363806092
17° 17′ 50″	0.29732859	0.95477522	0.311412132	3.211178681	1.047366944	3.363282403
17° 18′ 00″	0.29737487	0.95476080	0.311465316	3.210630362	1.047382759	3.362758885
17° 18′ 10″	0.29742116	0.95474638	0.311518501	3.210082213	1.047398576	3.362235538
17° 18′ 20″	0.29746745	0.95473196	0.311571688	3.209534234	1.047414396	3.361712361
17° 18′ 30″	0.29751374	0.95471754	0.311624877	3.208986426	1.047430219	3.361189355
17° 18′ 40″ 17° 18′ 50″	0.29756002	0.95470311	0.311678067	3.208438788	1.047446045	3.360666520
17° 18′ 50″ 17° 19′ 00″	0.29760631 0.29765259	0.95468869	0.311731259 0.311784452	3.207891321 3.207344024	1.047461874	3.360143855 3.359621361
17° 19′ 00″ 17° 19′ 10″	0.29765259	0.95467426 0.95465982	0.311/84452	3.20/344024	1.047477706 1.047493541	3.359621361
17° 19′ 10″ 17° 19′ 20″	0.29769887	0.95463982	0.311837647	3.206796897	1.047493541	3.359099037
17° 19′ 20″ 17° 19′ 30″	0.29774316	0.95463095	0.311890844	3.205703154	1.047509379	3.358054900
17° 19′ 30″ 17° 19′ 40″	0.29779144	0.95461652	0.311944042	3.205703134	1.047525219	3.357533086
17 19 40 17° 19′ 50″	0.29788400	0.95460208	0.311777242	3.203136337	1.047541065	3.357011443
=======================================	0.27700400	0.73400200	0.312030444	J.404010070	1.04/330710	3.337011443

130 17° 19′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
17° 20′ 00″	0.29793028	0.95458763	0.312103647	3.204063813	1.047572759	3.356489970
17° 20′ 10″	0.29797656	0.95457319	0.312156851	3.203517705	1.047588612	3.355968666
17° 20′ 20″	0.29802284	0.95455874	0.312210058	3.202971768	1.047604467	3.355447533
17° 20′ 30″	0.29806912	0.95454429	0.312263265	3.202425999	1.047620326	3.354926569
17° 20′ 40″	0.29811539	0.95452984	0.312316475	3.201880400	1.047636187	3.354405774
17° 20′ 50″	0.29816167	0.95451538	0.312369686	3.201334971	1.047652051	3.353885149
17° 21′ 00″	0.29820795	0.95450093	0.312422899	3.200789711	1.047667919	3.353364694
17° 21′ 10″	0.29825422	0.95448647	0.312476113	3.200244620	1.047683789	3.352844408
17° 21′ 20″	0.29830050	0.95447201	0.312529329	3.199699698	1.047699662	3.352324291
17° 21′ 30″	0.29834677	0.95445754	0.312582547	3.199154945	1.047715538	3.351804344
17° 21′ 40″	0.29839304	0.95444308	0.312635766	3.198610361	1.047731417	3.351284566
17° 21′ 50″	0.29843932	0.95442861	0.312688987	3.198065946	1.047747299	3.350764956
17° 22′ 00″	0.29848559	0.95441414	0.312742209	3.197521699	1.047763184	3.350245516
17° 22′ 10″	0.29853186	0.95439967	0.312795433	3.196977622	1.047779072	3.349726245
17° 22′ 20″	0.29857813	0.95438520	0.312848659	3.196433713	1.047794962	3.349207142
17° 22′ 30″	0.29862440	0.95437072	0.312901886	3.195889973	1.047810856	3.348688208
17° 22′ 40″	0.29867067	0.95435624	0.312955115	3.195346401	1.047826753	3.348169443
17° 22′ 50″	0.29871693	0.95434176	0.313008345	3.194802997	1.047842652	3.347650847
17° 23′ 00″	0.29876320	0.95432728	0.313061578	3.194259762	1.047858555	3.347132418
17° 23′ 10″	0.29880947	0.95431279	0.313114811	3.193716695	1.047874461	3.346614159
17° 23′ 20″	0.29885574	0.95429830	0.313168047	3.193173796	1.047890369	3.346096067
17° 23′ 30″	0.29890200	0.95428381	0.313221284	3.192631065	1.047906280	3.345578144
17° 23′ 40″	0.29894827	0.95426932	0.313274522	3.192088502	1.047922195	3.345060389
17° 23′ 50″	0.29899453	0.95425483	0.313327762	3.191546108	1.047938112	3.344542802
17° 24′ 00″	0.29904079	0.95424033	0.313381004	3.191003880	1.047954032	3.344025383
17° 24′ 10″	0.29908705	0.95422583	0.313434247	3.190461821	1.047969955	3.343508133
17° 24′ 20″	0.29913332	0.95421133	0.313487493	3.189919930	1.047985882	3.342991049
17° 24′ 30″	0.29917958	0.95419682	0.313540739	3.189378205	1.048001811	3.342474134
17° 24′ 40″	0.29922584	0.95418232	0.313593987	3.188836649	1.048017743	3.341957387
17° 24′ 50″	0.29927210	0.95416781	0.313647237	3.188295260	1.048033678	3.341440806
17° 25′ 00″	0.29931836	0.95415330	0.313700489	3.187754038	1.048049616	3.340924394
17° 25′ 10″	0.29936462	0.95413879	0.313753742	3.187212983	1.048065556	3.340408149
17° 25′ 20″	0.29941087	0.95412427	0.313806997	3.186672096	1.048081500	3.339892071
17° 25′ 30″	0.29945713	0.95410976	0.313860253	3.186131376	1.048097447	3.339376161
17° 25′ 40″	0.29950339	0.95409524	0.313913511	3.185590823	1.048113397	3.338860418
17° 25′ 50″	0.29954964	0.95408072	0.313966771	3.185050436	1.048129349	3.338344842
17° 26′ 00″	0.29959590	0.95406619	0.314020032	3.184510217	1.048145305	3.337829433
17° 26′ 10″	0.29964215	0.95405167	0.314073295	3.183970164	1.048161264	3.337314191
17° 26′ 20″	0.29968840	0.95403714	0.314126559	3.183430278	1.048177225	3.336799115
17° 26′ 30″	0.29973466	0.95402261	0.314179825	3.182890559	1.048193190	3.336284207
17° 26′ 40″	0.29978091	0.95400807	0.314233093	3.182351006	1.048209157	3.335769465
17° 26′ 50″	0.29982716	0.95399354	0.314286362	3.181811620	1.048225127	3.335254890
17° 27′ 00″	0.29987341	0.95397900	0.314339633	3.181272400	1.048241101	3.334740482
17° 27′ 10″	0.29991966	0.95396446	0.314392906	3.180733346	1.048257077	3.334226240
17° 27′ 20″	0.29996591	0.95394992	0.314446180	3.180194459	1.048273056	3.333712165
17° 27′ 30″	0.30001216	0.95393538	0.314499456	3.179655738	1.048289038	3.333198255
17° 27′ 40″	0.30005841	0.95392083	0.314552734	3.179117182	1.048305023	3.332684512
17° 27′ 50″	0.30010465	0.95390628	0.314606013	3.178578793	1.048321012	3.332170936

131 17° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
17° 28′ 00″	0.30015090	0.95389173	0.314659293	3.178040570	1.048337003	3.331657525
17° 28′ 10″	0.30019714	0.95387718	0.314712576	3.177502512	1.048352997	3.331144280
17° 28′ 20″	0.30024339	0.95386262	0.314765860	3.176964621	1.048368993	3.330631202
17° 28′ 30″	0.30028963	0.95384807	0.314819145	3.176426895	1.048384993	3.330118289
17° 28′ 40″	0.30033588	0.95383351	0.314872432	3.175889334	1.048400996	3.329605542
17° 28′ 50″	0.30038212	0.95381895	0.314925721	3.175351939	1.048417002	3.329092960
17° 29′ 00″	0.30042836	0.95380438	0.314979012	3.174814710	1.048433011	3.328580544
17° 29′ 10″	0.30047460	0.95378982	0.315032304	3.174277646	1.048449022	3.328068294
17° 29′ 20″	0.30052084	0.95377525	0.315085598	3.173740747	1.048465037	3.327556209
17° 29′ 30″	0.30056708	0.95376068	0.315138893	3.173204013	1.048481055	3.327044290
17° 29′ 40″	0.30061332	0.95374610	0.315192190	3.172667444	1.048497075	3.326532536
17° 29′ 50″	0.30065956	0.95373153	0.315245489	3.172131041	1.048513099	3.326020947
17° 30′ 00″	0.30070580	0.95371695	0.315298789	3.171594802	1.048529125	3.325509523
17° 30′ 10″	0.30075204	0.95370237	0.315352091	3.171058729	1.048545155	3.324998265
17° 30′ 20″	0.30079827	0.95368779	0.315405394	3.170522820	1.048561187	3.324487171
17° 30′ 30″	0.30084451	0.95367320	0.315458699	3.169987076	1.048577222	3.323976242
17° 30′ 40″	0.30089074	0.95365862	0.315512006	3.169451496	1.048593261	3.323465478
17° 30′ 50″	0.30093698	0.95364403	0.315565315	3.168916081	1.048609302	3.322954879
17° 31′ 00″	0.30098321	0.95362944	0.315618625	3.168380831	1.048625346	3.322444445
17° 31′ 10″	0.30102944	0.95361485	0.315671936	3.167845745	1.048641393	3.321934175
17° 31′ 20″	0.30107568	0.95360025	0.315725250	3.167310823	1.048657443	3.321424070
17° 31′ 30″	0.30112191	0.95358565	0.315778564	3.166776066	1.048673496	3.320914129
17° 31′ 40″	0.30116814	0.95357105	0.315831881	3.166241472	1.048689552	3.320404352
17° 31′ 50″	0.30121437	0.95355645	0.315885199	3.165707043	1.048705611	3.319894740
17° 32′ 00″	0.30126060	0.95354185	0.315938519	3.165172778	1.048721673	3.319385292
17° 32′ 10″	0.30130683	0.95352724	0.315991841	3.164638677	1.048737738	3.318876008
17° 32′ 20″	0.30135306	0.95351263	0.316045164	3.164104739	1.048753806	3.318366888
17° 32′ 30″	0.30139928	0.95349802	0.316098488	3.163570966	1.048769877	3.317857932
17° 32′ 40″	0.30144551	0.95348341	0.316151815	3.163037356	1.048785950	3.317349140
17° 32′ 50″	0.30149173	0.95346879	0.316205143	3.162503910	1.048802027	3.316840512
17° 33′ 00″	0.30153796	0.95345417	0.316258472	3.161970627	1.048818107	3.316332047
17° 33′ 10″	0.30158418	0.95343955	0.316311804	3.161437508	1.048834190	3.315823746
17° 33′ 20″	0.30163041	0.95342493	0.316365136	3.160904552	1.048850275	3.315315609
17° 33′ 30″	0.30167663	0.95341031	0.316418471	3.160371760	1.048866364	3.314807635
17° 33′ 40″	0.30172285	0.95339568	0.316471807	3.159839130	1.048882455	3.314299825
17° 33′ 50″	0.30176907	0.95338105	0.316525145	3.159306664	1.048898550	3.313792178
17° 34′ 00″	0.30181530	0.95336642	0.316578484	3.158774361	1.048914647	3.313284694
17° 34′ 10″	0.30186152	0.95335178	0.316631826	3.158242222	1.048930747	3.312777374
17° 34′ 20″	0.30190774	0.95333715	0.316685168	3.157710244	1.048946851	3.312270217
17° 34′ 30″	0.30195395	0.95332251	0.316738513	3.157178430	1.048962957	3.311763222
17° 34′ 40″	0.30200017	0.95330787	0.316791859	3.156646779	1.048979066	3.311256391
17° 34′ 50″ 17° 35′ 00″	0.30204639	0.95329323	0.316845206	3.156115290	1.048995179	3.310749723
17° 35′ 00″ 17° 35′ 10″	0.30209261	0.95327858	0.316898555	3.155583964	1.049011294	3.310243217
	0.30213882	0.95326394	0.316951906	3.155052801	1.049027412	3.309736874
17° 35′ 20″ 17° 35′ 30″	0.30218504	0.95324929	0.317005259	3.154521800	1.049043533	3.309230694
17° 35′ 30″ 17° 35′ 40″	0.30223125	0.95323464	0.317058613	3.153990961	1.049059657 1.049075784	3.308724676
17° 35′ 40″ 17° 35′ 50″	0.30227747 0.30232368	0.95321998 0.95320533	0.317111969 0.317165326	3.153460285 3.152929771	1.049075784	3.308218821 3.307713128
=======================================	0.30232300	0./3320333	0.31/103320	J.1J4/47//1	1.04/071714	3.307713140

132 17° 35′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
17° 36′ 00″	0.30236989	0.95319067	0.317218686	3.152399419	1.049108047	3.307207598
17° 36′ 10″	0.30241610	0.95317601	0.317272046	3.151869229	1.049124183	3.306702230
17° 36′ 20″	0.30246231	0.95316134	0.317325409	3.151339201	1.049140322	3.306197024
17° 36′ 30″	0.30250852	0.95314668	0.317378773	3.150809335	1.049156464	3.305691980
17° 36′ 40″	0.30255473	0.95313201	0.317432138	3.150279631	1.049172609	3.305187098
17° 36′ 50″	0.30260094	0.95311734	0.317485506	3.149750089	1.049188756	3.304682378
17° 37′ 00″	0.30264715	0.95310267	0.317538875	3.149220708	1.049204907	3.304177820
17° 37′ 10″	0.30269336	0.95308800	0.317592245	3.148691489	1.049221061	3.303673424
17° 37′ 20″	0.30273956	0.95307332	0.317645618	3.148162432	1.049237217	3.303169190
17° 37′ 30″	0.30278577	0.95305864	0.317698992	3.147633536	1.049253377	3.302665117
17° 37′ 40″	0.30283198	0.95304396	0.317752367	3.147104801	1.049269540	3.302161206
17° 37′ 50″	0.30287818	0.95302928	0.317805744	3.146576228	1.049285705	3.301657456
17° 38′ 00″	0.30292438	0.95301459	0.317859123	3.146047816	1.049301874	3.301153868
17° 38′ 10″	0.30297059	0.95299991	0.317912504	3.145519565	1.049318045	3.300650441
17° 38′ 20″	0.30301679	0.95298522	0.317965886	3.144991476	1.049334220	3.300147176
17° 38′ 30″	0.30306299	0.95297053	0.318019269	3.144463547	1.049350397	3.299644071
17° 38′ 40″	0.30310919	0.95295583	0.318072655	3.143935779	1.049366577	3.299141128
17° 38′ 50″	0.30315539	0.95294114	0.318126042	3.143408172	1.049382761	3.298638346
17° 39′ 00″	0.30320159	0.95292644	0.318179431	3.142880726	1.049398947	3.298135725
17° 39′ 10″	0.30324779	0.95291174	0.318232821	3.142353441	1.049415136	3.297633264
17° 39′ 20″	0.30329399	0.95289703	0.318286213	3.141826316	1.049431329	3.297130965
17° 39′ 30″	0.30334019	0.95288233	0.318339607	3.141299352	1.049447524	3.296628826
17° 39′ 40″	0.30338638	0.95286762	0.318393002	3.140772548	1.049463722	3.296126848
17° 39′ 50″	0.30343258	0.95285291	0.318446399	3.140245905	1.049479923	3.295625031
17° 40′ 00″	0.30347877	0.95283820	0.318499797	3.139719422	1.049496127	3.295123374
17° 40′ 10″	0.30352497	0.95282349	0.318553198	3.139193099	1.049512334	3.294621877
17° 40′ 20″	0.30357116	0.95280877	0.318606600	3.138666936	1.049528544	3.294120541
17° 40′ 30″	0.30361736	0.95279405	0.318660003	3.138140934	1.049544757	3.293619365
17° 40′ 40″	0.30366355	0.95277933	0.318713408	3.137615092	1.049560973	3.293118349
17° 40′ 50″	0.30370974	0.95276461	0.318766815	3.137089409	1.049577192	3.292617494
17° 41′ 00″	0.30375593	0.95274988	0.318820224	3.136563886	1.049593414	3.292116798
17° 41′ 10″	0.30380212	0.95273515	0.318873634	3.136038524	1.049609639	3.291616263
17° 41′ 20″	0.30384831	0.95272042	0.318927046	3.135513321	1.049625867	3.291115887
17° 41′ 30″	0.30389450	0.95270569	0.318980459	3.134988277	1.049642098	3.290615672
17° 41′ 40″	0.30394069	0.95269096	0.319033874	3.134463393	1.049658332	3.290115616
17° 41′ 50″	0.30398687	0.95267622	0.319087291	3.133938669	1.049674568	3.289615719
17° 42′ 00″	0.30403306	0.95266148	0.319140709	3.133414104	1.049690808	3.289115983
17° 42′ 10″	0.30407925	0.95264674	0.319194129	3.132889699	1.049707051	3.288616406
17° 42′ 20″	0.30412543	0.95263200	0.319247551	3.132365452	1.049723296	3.288116988
17° 42′ 30″	0.30417162	0.95261725	0.319300975	3.131841365	1.049739545	3.287617730
17° 42′ 40″	0.30421780	0.95260250	0.319354400	3.131317437	1.049755797	3.287118631
17° 42′ 50″	0.30426398	0.95258775	0.319407826	3.130793669	1.049772051	3.286619691
17° 43′ 00″	0.30431017	0.95257300	0.319461255	3.130270059	1.049788309	3.286120911
17° 43′ 10″	0.30435635	0.95255825	0.319514685	3.129746608	1.049804569	3.285622289
17° 43′ 20″	0.30440253	0.95254349	0.319568116	3.129223315	1.049820833	3.285123827
17° 43′ 30″	0.30444871	0.95252873	0.319621549	3.128700182	1.049837099	3.284625523
17° 43′ 40″	0.30449489	0.95251397	0.319674984	3.128177207	1.049853369	3.284127379
17° 43′ 50″	0.30454107	0.95249921	0.319728421	3.127654391	1.049869641	3.283629393
						

133 17° 43′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
17° 44′ 00″	0.30458725	0.95248444	0.319781859	3.127131733	1.049885916	3.283131566
17° 44′ 10″	0.30463342	0.95246967	0.319835299	3.126609234	1.049902195	3.282633897
17° 44′ 20″	0.30467960	0.95245490	0.319888741	3.126086894	1.049918476	3.282136387
17° 44′ 30″	0.30472578	0.95244013	0.319942184	3.125564711	1.049934760	3.281639036
17° 44′ 40″	0.30477195	0.95242536	0.319995629	3.125042687	1.049951048	3.281141843
17° 44′ 50″	0.30481813	0.95241058	0.320049075	3.124520821	1.049967338	3.280644808
17° 45′ 00″	0.30486430	0.95239580	0.320102524	3.123999113	1.049983631	3.280147932
17° 45′ 10″	0.30491047	0.95238102	0.320155974	3.123477563	1.049999927	3.279651214
17° 45′ 20″	0.30495664	0.95236623	0.320209425	3.122956171	1.050016227	3.279154654
17° 45′ 30″	0.30500282	0.95235145	0.320262878	3.122434936	1.050032529	3.278658252
17° 45′ 40″	0.30504899	0.95233666	0.320316333	3.121913860	1.050048834	3.278162008
17° 45′ 50″	0.30509516	0.95232187	0.320369790	3.121392941	1.050065142	3.277665922
17° 46′ 00″	0.30514133	0.95230708	0.320423248	3.120872180	1.050081453	3.277169993
17° 46′ 10″	0.30518750	0.95229228	0.320476708	3.120351577	1.050097767	3.276674223
17° 46′ 20″	0.30523366	0.95227749	0.320530169	3.119831131	1.050114084	3.276178610
17° 46′ 30″	0.30527983	0.95226269	0.320583632	3.119310842	1.050130404	3.275683155
17° 46′ 40″	0.30532600	0.95224789	0.320637097	3.118790711	1.050146727	3.275187857
17° 46′ 50″	0.30537216	0.95223308	0.320690564	3.118270737	1.050163053	3.274692716
17° 47′ 00″	0.30541833	0.95221828	0.320744032	3.117750920	1.050179382	3.274197734
17° 47′ 10″	0.30546449	0.95220347	0.320797502	3.117231260	1.050195714	3.273702908
17° 47′ 20″	0.30551066	0.95218866	0.320850973	3.116711758	1.050212049	3.273208240
17° 47′ 30″	0.30555682	0.95217384	0.320904446	3.116192412	1.050228386	3.272713728
17° 47′ 40″	0.30560298	0.95215903	0.320957921	3.115673223	1.050244727	3.272219374
17° 47′ 50″	0.30564914	0.95214421	0.321011397	3.115154191	1.050261071	3.271725177
17° 48′ 00″	0.30569530	0.95212939	0.321064876	3.114635316	1.050277418	3.271231137
17° 48′ 10″	0.30574147	0.95211457	0.321118355	3.114116597	1.050293768	3.270737254
17° 48′ 20″	0.30578762	0.95209975	0.321171837	3.113598035	1.050310120	3.270243527
17° 48′ 30″	0.30583378	0.95208492	0.321225320	3.113079630	1.050326476	3.269749957
17° 48′ 40″	0.30587994	0.95207009	0.321278805	3.112561381	1.050342835	3.269256544
17° 48′ 50″	0.30592610	0.95205526	0.321332291	3.112043289	1.050359196	3.268763288
17° 49′ 00″	0.30597226	0.95204043	0.321385779	3.111525352	1.050375561	3.268270187
17° 49′ 10″	0.30601841	0.95202559	0.321439269	3.111007572	1.050391929	3.267777244
17° 49′ 20″	0.30606457	0.95201076	0.321492760	3.110489949	1.050408299	3.267284457
17° 49′ 30″	0.30611072	0.95199592	0.321546254	3.109972481	1.050424673	3.266791826
17° 49′ 40″	0.30615687	0.95198108	0.321599748	3.109455169	1.050441049	3.266299351
17° 49′ 50″	0.30620303	0.95196623	0.321653245	3.108938013	1.050457429	3.265807032
17° 50′ 00″	0.30624918	0.95195139	0.321706743	3.108421013	1.050473811	3.265314869
17° 50′ 10″	0.30629533	0.95193654	0.321760243	3.107904169	1.050490197	3.264822863
17° 50′ 20″	0.30634148	0.95192169	0.321813744	3.107387481	1.050506585	3.264331012
17° 50′ 30″	0.30638763	0.95190683	0.321867247	3.106870948	1.050522977	3.263839317
17° 50′ 40″ 17° 50′ 50″	0.30643378	0.95189198	0.321920752	3.106354571	1.050539371	3.263347778
17° 50′ 50″ 17° 51′ 00″	0.30647993	0.95187712	0.321974259 0.322027767	3.105838350 3.105322283	1.050555769	3.262856395
17° 51′ 00″ 17° 51′ 10″	0.30652608	0.95186226	0.322027767		1.050572169 1.050588573	3.262365167 3.261874095
17° 51′ 10″ 17° 51′ 20″	0.30657223	0.95184740		3.104806373		
17° 51′ 20″ 17° 51′ 30″	0.30661837 0.30666452	0.95183253	0.322134788	3.104290617	1.050604979	3.261383178
17° 51′ 30″ 17° 51′ 40″	0.30666452	0.95181767 0.95180280	0.322188301 0.322241816	3.103775017 3.103259572	1.050621388 1.050637801	3.260892417 3.260401811
17 51 40 17° 51′ 50″	0.30675681	0.95178793	0.322295333	3.103237372	1.050657801	3.259911360
=======================================	0.300/3001	0./31/0/73	0.3444/3333	J.104/44401	1.030034410	<i>3,43//</i> 11360

134 17° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
17° 52′ 00″	0.30680295	0.95177306	0.322348851	3.102229146	1.050670634	3.259421065
17° 52′ 10″	0.30684909	0.95175818	0.322402371	3.101714166	1.050687055	3.258930924
17° 52′ 20″	0.30689524	0.95174330	0.322455892	3.101199341	1.050703480	3.258440939
17° 52′ 30″	0.30694138	0.95172842	0.322509415	3.100684670	1.050719907	3.257951109
17° 52′ 40″	0.30698752	0.95171354	0.322562940	3.100170155	1.050736337	3.257461433
17° 52′ 50″	0.30703366	0.95169866	0.322616467	3.099655794	1.050752770	3.256971912
17° 53′ 00″	0.30707980	0.95168377	0.322669995	3.099141587	1.050769207	3.256482547
17° 53′ 10″	0.30712594	0.95166888	0.322723525	3.098627535	1.050785646	3.255993335
17° 53′ 20″	0.30717207	0.95165399	0.322777056	3.098113637	1.050802088	3.255504279
17° 53′ 30″	0.30721821	0.95163910	0.322830590	3.097599894	1.050818533	3.255015377
17° 53′ 40″	0.30726435	0.95162420	0.322884124	3.097086305	1.050834981	3.254526629
17° 53′ 50″	0.30731048	0.95160930	0.322937661	3.096572870	1.050851432	3.254038036
17° 54′ 00″	0.30735662	0.95159440	0.322991199	3.096059589	1.050867886	3.253549597
17° 54′ 10″	0.30740275	0.95157950	0.323044739	3.095546463	1.050884344	3.253061312
17° 54′ 20″	0.30744889	0.95156460	0.323098281	3.095033490	1.050900804	3.252573182
17° 54′ 30″	0.30749502	0.95154969	0.323151824	3.094520671	1.050917267	3.252085206
17° 54′ 40″	0.30754115	0.95153478	0.323205369	3.094008007	1.050933733	3.251597383
17° 54′ 50″	0.30758728	0.95151987	0.323258916	3.093495495	1.050950202	3.251109715
17° 55′ 00″	0.30763341	0.95150496	0.323312464	3.092983138	1.050966674	3.250622201
17° 55′ 10″	0.30767954	0.95149004	0.323366014	3.092470934	1.050983149	3.250134840
17° 55′ 20″	0.30772567	0.95147512	0.323419566	3.091958884	1.050999627	3.249647633
17° 55′ 30″	0.30777180	0.95146020	0.323473119	3.091446987	1.051016108	3.249160580
17° 55′ 40″	0.30781793	0.95144528	0.323526674	3.090935244	1.051032592	3.248673681
17° 55′ 50″	0.30786405	0.95143036	0.323580231	3.090423654	1.051049079	3.248186935
17° 56′ 00″	0.30791018	0.95141543	0.323633789	3.089912218	1.051065569	3.247700342
17° 56′ 10″	0.30795631	0.95140050	0.323687350	3.089400934	1.051082062	3.247213903
17° 56′ 20″	0.30800243	0.95138557	0.323740911	3.088889804	1.051098558	3.246727617
17° 56′ 30″	0.30804856	0.95137064	0.323794475	3.088378827	1.051115056	3.246241485
17° 56′ 40″	0.30809468	0.95135570	0.323848040	3.087868002	1.051131558	3.245755505
17° 56′ 50″	0.30814080	0.95134076	0.323901607	3.087357331	1.051148063	3.245269679
17° 57′ 00″	0.30818692	0.95132582	0.323955175	3.086846813	1.051164571	3.244784006
17° 57′ 10″ 17° 57′ 20″	0.30823304	0.95131088	0.324008745	3.086336447	1.051181082	3.244298486
17° 57′ 20″ 17° 57′ 30″	0.30827917 0.30832528	0.95129594 0.95128099	0.324062317 0.324115891	3.085826234 3.085316174	1.051197596 1.051214113	3.243813118 3.243327904
17° 57′ 40″	0.30837140	0.75126604	0.324113871	3.084806266	1.051214113	3.242842842
17° 57′ 50″	0.30837140	0.95125109	0.324167466	3.084296511	1.051230632	3.242357933
17° 58′ 00″	0.30846364	0.75123107	0.324276622	3.083786908	1.051247133	3.241873177
17° 58′ 10″	0.30850976	0.75123613	0.324330202	3.083277457	1.051280210	3.241388573
17° 58′ 20″	0.30855587	0.75122118	0.324383784	3.082768159	1.051286216	3.240904121
17° 58′ 30″	0.30860199	0.75120022	0.324437367	3.082259013	1.051270742	3.240419822
17° 58′ 40″	0.30864810	0.75117126	0.324490953	3.081750019	1.051313277	3.239935676
17° 58′ 50″	0.30869422	0.95116133	0.324544540	3.081241178	1.051346355	3.239451681
17° 59′ 00″	0.30874033	0.95114637	0.324598129	3.080732488	1.051340393	3.238967839
17° 59′ 10″	0.30878644	0.95113140	0.324651719	3.080223950	1.051379446	3.238484149
17° 59′ 20″	0.30883255	0.95111642	0.324705311	3.079715564	1.051395995	3.238000611
17° 59′ 30″	0.30887867	0.95110145	0.324758905	3.079207330	1.051412548	3.237517225
17° 59′ 40″	0.30892478	0.95108647	0.324812500	3.078699247	1.051429104	3.237033990
17° 59′ 50″	0.30897089	0.95107150	0.324866097	3.078191316	1.051445663	3.236550908
	1.00077007	3	1.02.300077			2.20000,00

135 17° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
18° 00′ 00″	0.30901699	0.95105652	0.324919696	3.077683537	1.051462224	3.236067977
18° 00′ 10″	0.30906310	0.95104153	0.324973297	3.077175909	1.051478789	3.235585199
18° 00′ 20″	0.30910921	0.95102655	0.325026899	3.076668433	1.051495357	3.235102571
18° 00′ 30″	0.30915532	0.95101156	0.325080503	3.076161108	1.051511927	3.234620096
18° 00′ 40″	0.30920142	0.95099657	0.325134108	3.075653935	1.051528501	3.234137772
18° 00′ 50″	0.30924753	0.95098158	0.325187716	3.075146912	1.051545078	3.233655599
18° 01′ 00″	0.30929363	0.95096659	0.325241325	3.074640041	1.051561657	3.233173577
18° 01′ 10″	0.30933974	0.95095159	0.325294935	3.074133321	1.051578240	3.232691707
18° 01′ 20″	0.30938584	0.95093659	0.325348548	3.073626752	1.051594826	3.232209988
18° 01′ 30″	0.30943194	0.95092159	0.325402162	3.073120333	1.051611414	3.231728421
18° 01′ 40″	0.30947804	0.95090659	0.325455778	3.072614066	1.051628006	3.231247004
18° 01′ 50″	0.30952414	0.95089158	0.325509395	3.072107950	1.051644601	3.230765738
18° 02′ 00″	0.30957024	0.95087658	0.325563014	3.071601984	1.051661198	3.230284623
18° 02′ 10″	0.30961634	0.95086157	0.325616635	3.071096169	1.051677799	3.229803659
18° 02′ 20″	0.30966244	0.95084656	0.325670257	3.070590504	1.051694403	3.229322846
18° 02′ 30″	0.30970854	0.95083154	0.325723882	3.070084990	1.051711009	3.228842184
18° 02′ 40″	0.30975464	0.95081653	0.325777508	3.069579627	1.051727619	3.228361672
18° 02′ 50″	0.30980073	0.95080151	0.325831135	3.069074414	1.051744232	3.227881311
18° 03′ 00″	0.30984683	0.95078649	0.325884764	3.068569351	1.051760847	3.227401100
18° 03′ 10″	0.30989293	0.95077146	0.325938395	3.068064438	1.051777466	3.226921040
18° 03′ 20″	0.30993902	0.95075644	0.325992028	3.067559676	1.051794087	3.226441130
18° 03′ 30″	0.30998511	0.95074141	0.326045662	3.067055064	1.051810712	3.225961371
18° 03′ 40″	0.31003121	0.95072638	0.326099298	3.066550602	1.051827340	3.225481761
18° 03′ 50″	0.31007730	0.95071135	0.326152936	3.066046289	1.051843970	3.225002302
18° 04′ 00″	0.31012339	0.95069631	0.326206576	3.065542127	1.051860604	3.224522993
18° 04′ 10″	0.31016948	0.95068128	0.326260217	3.065038115	1.051877241	3.224043834
18° 04′ 20″	0.31021557	0.95066624	0.326313860	3.064534252	1.051893880	3.223564825
18° 04′ 30″	0.31026166	0.95065120	0.326367504	3.064030539	1.051910523	3.223085966
18° 04′ 40″	0.31030775	0.95063616	0.326421151	3.063526976	1.051927168	3.222607257
18° 04′ 50″	0.31035384	0.95062111	0.326474798	3.063023562	1.051943817	3.222128697
18° 05′ 00″	0.31039992	0.95060606	0.326528448	3.062520297	1.051960469	3.221650287
18° 05′ 10″	0.31044601	0.95059101	0.326582099	3.062017183	1.051977123	3.221172027
18° 05′ 20″ 18° 05′ 30″	0.31049209	0.95057596	0.326635752	3.061514217	1.051993781	3.220693916
18° 05′ 40″	0.31053818 0.31058426	0.95056091 0.95054585	0.326689407 0.326743064	3.061011401 3.060508734	1.052010441 1.052027105	3.220215955 3.219738143
18° 05′ 50″	0.31038428	0.95053079	0.326796722	3.060006216	1.052027103	3.219260480
18° 06′ 00″	0.31063033	0.95051573	0.326776722	3.059503847	1.052043772	3.217260460
18° 06′ 10″	0.31067643	0.95050067	0.326904043	3.057303647	1.052077114	3.218305603
18° 06′ 20″	0.31072231	0.95048560	0.326757706	3.058499556	1.052077114	3.217828388
18° 06′ 30″	0.31076837	0.95047054	0.327011371	3.057997634	1.052073787	3.217828388
18° 06′ 40″	0.31086075	0.95045547	0.327065038	3.057495861	1.052110468	3.216874405
18° 06′ 50″	0.31090683	0.95044039	0.327118706	3.056994237	1.052143834	3.216397638
18° 07′ 00″	0.31075003	0.95042532	0.327172376	3.056492761	1.052160522	3.215921018
18° 07′ 10″	0.31099899	0.95041024	0.327226048	3.055991434	1.052177213	3.215444548
18° 07′ 20″	0.31104506	0.95039516	0.327279722	3.055490255	1.052177213	3.214968227
18° 07′ 30″	0.31109114	0.95038008	0.327333397	3.054989225	1.052210603	3.214492054
18° 07′ 40″	0.31113722	0.95036500	0.327387074	3.054488343	1.052227302	3.214016029
18° 07′ 50″	0.31118329	0.95034991	0.327440752	3.053987609	1.052244005	3.213540154

136 18° 07′ 50″

18° 08′ 10″ 0.31127544 0.95031974 0.327548114 3.052986587 1.052277419 18° 08′ 20″ 0.31132151 0.95030464 0.327601798 3.052486298 1.052294131 18° 08′ 30″ 0.31136758 0.95028955 0.327655483 3.051986157 1.052310846 18° 08′ 40″ 0.31141365 0.95027445 0.327709171 3.051486165 1.052327563 18° 08′ 50″ 0.31145972 0.95025935 0.327762859 3.050986320 1.052344284 18° 09′ 00″ 0.31150579 0.95024425 0.327816550 3.050486622 1.052361008 18° 09′ 10″ 0.31155186 0.95022915 0.327870242 3.049987073 1.052377734 18° 09′ 30″ 0.31164400 0.95019894 0.327977632 3.048988418 1.052411197 18° 09′ 40″ 0.31169006 0.95018383 0.328085028 3.047990352 1.052444671 18° 10′ 00″ 0.31178219 0.95015360 0.328138729 3.047491541 1.052478157 18° 10′ 20″ 0.31187432 0.95012336 0.328246135 3.046494360 1.052478157 18° 10′ 30″ 0.31196645	3.213064426 3.212588847 3.212113417 3.211638134 3.211163000 3.210688014 3.210213176 3.209738486 3.209263943 3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284 3.205472922
18° 08′ 10″ 0.31127544 0.95031974 0.327548114 3.052986587 1.052277419 18° 08′ 20″ 0.31132151 0.95030464 0.327601798 3.052486298 1.052294131 18° 08′ 30″ 0.31136758 0.95028955 0.327655483 3.051986157 1.052310846 18° 08′ 40″ 0.31141365 0.95027445 0.327709171 3.051486165 1.052327563 18° 08′ 50″ 0.31145972 0.95025935 0.327762859 3.050986320 1.052344284 18° 09′ 00″ 0.31150579 0.95024425 0.327816550 3.050486622 1.052361008 18° 09′ 10″ 0.31159793 0.95021404 0.327923936 3.049987073 1.052377734 18° 09′ 30″ 0.31164400 0.95019894 0.327977632 3.048988418 1.052411197 18° 09′ 50″ 0.31173613 0.95016871 0.328085028 3.047990352 1.052444671 18° 10′ 00″ 0.31182826 0.95013848 0.328138729 3.047491541 1.052478157 18° 10′ 20″ 0.31187432 0.95012336 0.328246135 3.046992877 1.052478157 18° 10′ 30″ 0.31196645	3.212588847 3.212113417 3.211638134 3.211163000 3.210688014 3.210213176 3.209738486 3.209263943 3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 08′ 20″ 0.31132151 0.95030464 0.327601798 3.052486298 1.052294131 18° 08′ 30″ 0.31136758 0.95028955 0.327655483 3.051986157 1.052310846 18° 08′ 40″ 0.31141365 0.95027445 0.327709171 3.051486165 1.052327563 18° 08′ 50″ 0.31145972 0.95025935 0.327762859 3.050986320 1.052344284 18° 09′ 00″ 0.31150579 0.95024425 0.327816550 3.050486622 1.052361008 18° 09′ 10″ 0.31155186 0.95022915 0.327870242 3.049987073 1.052377734 18° 09′ 30″ 0.31164400 0.95019894 0.327923936 3.048988418 1.052411197 18° 09′ 40″ 0.31169006 0.95018383 0.328031329 3.048489311 1.052427932 18° 10′ 00″ 0.31173613 0.95016871 0.328085028 3.047990352 1.052444671 18° 10′ 10″ 0.31182826 0.95013848 0.328138729 3.047491541 1.052461413 18° 10′ 20″ 0.31187432 0.95012336 0.328246135 3.046494360 1.052478157 18° 10′ 30″ 0.31196645	3.212113417 3.211638134 3.211163000 3.210688014 3.210213176 3.209738486 3.209263943 3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 08′ 30″ 0.31136758 0.95028955 0.327655483 3.051986157 1.052310846 18° 08′ 40″ 0.31141365 0.95027445 0.327709171 3.051486165 1.052327563 18° 08′ 50″ 0.31145972 0.95025935 0.327762859 3.050986320 1.052344284 18° 09′ 00″ 0.31150579 0.95024425 0.327816550 3.050486622 1.052361008 18° 09′ 10″ 0.31155186 0.95022915 0.327870242 3.049987073 1.052377734 18° 09′ 20″ 0.31159793 0.95021404 0.327923936 3.049487671 1.052394464 18° 09′ 30″ 0.31164400 0.95019894 0.327977632 3.048988418 1.052411197 18° 09′ 50″ 0.31173613 0.95018383 0.328031329 3.0484889311 1.052427932 18° 10′ 00″ 0.31178219 0.95015360 0.328138729 3.047491541 1.052461413 18° 10′ 10″ 0.31187432 0.95013848 0.328192431 3.046494360 1.052478157 18° 10′ 30″ 0.31187039 0.95010824 0.328299841 3.045995990 1.052511656 18° 10′ 40″ 0.31196645	3.211163000 3.210688014 3.210213176 3.209738486 3.209263943 3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 08′ 40″ 0.31141365 0.95027445 0.327709171 3.051486165 1.052327563 18° 08′ 50″ 0.31145972 0.95025935 0.327762859 3.050986320 1.052344284 18° 09′ 00″ 0.31150579 0.95024425 0.327816550 3.050486622 1.052361008 18° 09′ 10″ 0.31155186 0.95022915 0.327870242 3.049987073 1.052377734 18° 09′ 20″ 0.31159793 0.95021404 0.327923936 3.049487671 1.052394464 18° 09′ 30″ 0.31164400 0.95019894 0.327977632 3.048988418 1.052411197 18° 09′ 50″ 0.31173613 0.95016871 0.328085028 3.047990352 1.052444671 18° 10′ 00″ 0.31178219 0.95015360 0.328138729 3.047491541 1.052461413 18° 10′ 10″ 0.31182826 0.95013848 0.328192431 3.046992877 1.052478157 18° 10′ 30″ 0.31187432 0.95012336 0.328246135 3.046494360 1.0522494905 18° 10′ 40″ 0.31192039 0.95010824 0.328353549 3.045499768 1.052528410 18° 10′ 50″ 0.31201251	3.211163000 3.210688014 3.210213176 3.209738486 3.209263943 3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 09′ 00″ 0.31150579 0.95024425 0.327816550 3.050486622 1.052361008 18° 09′ 10″ 0.31155186 0.95022915 0.327870242 3.049987073 1.052377734 18° 09′ 20″ 0.31159793 0.95021404 0.327923936 3.049487671 1.052394464 18° 09′ 30″ 0.31164400 0.95019894 0.327977632 3.048988418 1.052411197 18° 09′ 40″ 0.31169006 0.95018383 0.328031329 3.048489311 1.052427932 18° 09′ 50″ 0.31173613 0.95016871 0.328085028 3.047990352 1.052444671 18° 10′ 00″ 0.31178219 0.95015360 0.328138729 3.047491541 1.052461413 18° 10′ 10″ 0.31182826 0.95013848 0.328192431 3.046992877 1.052478157 18° 10′ 20″ 0.31187432 0.95012336 0.328246135 3.046494360 1.052494905 18° 10′ 30″ 0.31192039 0.95010824 0.328353549 3.045499768 1.052528410 18° 10′ 50″ 0.31201251 0.95007799 0.328407258 3.044999693 1.052545166	3.210213176 3.209738486 3.209263943 3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 09' 10" 0.31155186 0.95022915 0.327870242 3.049987073 1.052377734 18° 09' 20" 0.31159793 0.95021404 0.327923936 3.049487671 1.052394464 18° 09' 30" 0.31164400 0.95019894 0.327977632 3.048988418 1.052411197 18° 09' 40" 0.31169006 0.95018383 0.328031329 3.048489311 1.052427932 18° 09' 50" 0.31173613 0.95016871 0.328085028 3.047990352 1.052444671 18° 10' 00" 0.31178219 0.95015360 0.328138729 3.047491541 1.052461413 18° 10' 10" 0.31182826 0.95013848 0.328192431 3.046992877 1.052478157 18° 10' 20" 0.31187432 0.95012336 0.328246135 3.046494360 1.052494905 18° 10' 30" 0.31192039 0.95010824 0.328299841 3.045995990 1.052511656 18° 10' 40" 0.31196645 0.95009312 0.328353549 3.044999693 1.052545166 18° 10' 50" 0.31201251 0.95007799 0.328407258 3.044999693 1.052545166	3.209738486 3.209263943 3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 09′ 20″ 0.31159793 0.95021404 0.327923936 3.049487671 1.052394464 18° 09′ 30″ 0.31164400 0.95019894 0.327977632 3.048988418 1.052411197 18° 09′ 40″ 0.31169006 0.95018383 0.328031329 3.048489311 1.052427932 18° 09′ 50″ 0.31173613 0.95016871 0.328085028 3.047990352 1.052444671 18° 10′ 00″ 0.31178219 0.95015360 0.328138729 3.047491541 1.052461413 18° 10′ 10″ 0.31182826 0.95013848 0.328192431 3.046992877 1.052478157 18° 10′ 20″ 0.31187432 0.95012336 0.328246135 3.046494360 1.052494905 18° 10′ 30″ 0.31192039 0.95010824 0.328299841 3.045995990 1.052511656 18° 10′ 40″ 0.31196645 0.95009312 0.328353549 3.044999693 1.052528410 18° 10′ 50″ 0.31201251 0.95007799 0.328407258 3.044999693 1.052545166	3.209263943 3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 09′ 30″ 0.31164400 0.95019894 0.327977632 3.048988418 1.052411197 18° 09′ 40″ 0.31169006 0.95018383 0.328031329 3.048489311 1.052427932 18° 09′ 50″ 0.31173613 0.95016871 0.328085028 3.047990352 1.052444671 18° 10′ 00″ 0.31178219 0.95015360 0.328138729 3.047491541 1.052461413 18° 10′ 10″ 0.31182826 0.95013848 0.328192431 3.046992877 1.052478157 18° 10′ 20″ 0.31187432 0.95012336 0.328246135 3.046494360 1.052494905 18° 10′ 30″ 0.31192039 0.95010824 0.328299841 3.045995990 1.052511656 18° 10′ 40″ 0.31196645 0.95009312 0.328353549 3.044999693 1.052528410 18° 10′ 50″ 0.31201251 0.95007799 0.328407258 3.044999693 1.052545166	3.208789549 3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 09′ 40″ 0.31169006 0.95018383 0.328031329 3.048489311 1.052427932 3.047990352 1.052444671 3.047990352 1.052444671 3.047990352 1.052444671 3.047990352 1.052444671 3.047990352 1.052444671 3.047990352 1.052444671 3.047990352 1.052461413 3.047990352 1.052461413 3.047990352 1.052461413 3.047990352 1.052478157 3.046992877 1.052478157 3.046992877 1.052478157 3.046494360 1.052494905 3.046494360 1.052494905 3.046494360 1.052494905 3.046494360 1.052549166 3.046494360 1.052511656 3.046494360 1.052528410 3.045497768 1.052528410 3.0454997693 1.052545166 3.046499693 1.052545166 3.046499693 1.052545166 3.046499693 3.044999693 3.044999693 3.044999693 3.044999693 3.044999693 3.044999693 3.044999693 3.044999693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499693 3.04499	3.208315302 3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 09′ 50″ 0.31173613 0.95016871 0.328085028 3.047990352 1.052444671 3.047491541 1.052444671 3.047491541 1.052461413 3.047491541 1.052461413 3.047491541 1.052461413 3.047491541 1.052461413 3.047491541 1.052461413 3.047491541 1.052461413 3.046992877 1.052478157 3.046992877 1.052478157 3.046494360 1.052494905 3.046494360 1.052494905 3.046494360 1.052494905 3.046494360 1.052511656 3.046494360 1.052511656 3.046494360 1.052511656 3.046494360 1.052511656 3.046494360 1.052511656 3.046494360 1.052511656 3.046494360 1.052511656 3.046494360 1.052511656 3.046494360 1.052511656 3.046494360 1.052511656 3.0464949768 1.052511656 3.0464949768 1.05251666 3.0464997693 1.052545166 3.0464997693 1.052545166 3.0464997693 1.052545166 3.0464997693 1.052545166 3.0464997693 1.052545166 3.0464997693 1.052545166 3.0464997693 1.052545166 3.0464997693 1.052545166 3.0464997693 1.052545166 3.0464997693 1.052545166 3.046499	3.207841204 3.207367252 3.206893449 3.206419792 3.205946284
18° 10′ 00″ 0.31178219 0.95015360 0.328138729 3.047491541 1.052461413 3.046992877 1.052478157 3.046992877 1.052478157 3.046992877 1.052478157 3.046992877 1.052478157 3.046494360 1.052494905 3.046494360 1.052494905 3.046992877 3.046992877 1.052494905 3.046992877	3.207367252 3.206893449 3.206419792 3.205946284
18° 10′ 10″ 0.31182826 0.95013848 0.328192431 3.046992877 1.052478157 3.046992877 1.052478157 3.046992877 1.052478157 3.046992877 1.052494905 3.046992877 3.046992877 1.052494905 3.046992877 3.046992877 1.052494905 3.046992877 3.046992877 3.0469992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877 3.046992877	3.206893449 3.206419792 3.205946284
18° 10′ 20″ 0.31187432 0.95012336 0.328246135 3.046494360 1.052494905 3.045995990 1.052511656 3.045995990 1.052511656 3.045995990 1.052511656 3.045497768 1.052528410 3.045497768 1.052528410 3.0454999693 1.052545166 3.044999693 1.052545166 3.0454997693 1.052545166 3.0454997693 3.044999693 3.044999693 3.044999693 3.044999693 3.044999693 3.044999693 3.044999693 3.044996	3.206419792 3.205946284
18° 10′ 30″ 0.31192039 0.95010824 0.328299841 3.045995990 1.052511656 3.045497768 1.052528410 3.045497768 1.052528410 3.045497768 1.052528410 3.044999693 1.052545166 3.044999693 1.052545166 3.044999693 3.044999693 3.04499693 <	3.205946284
18° 10′ 40″ 0.31196645 0.95009312 0.328353549 3.045497768 1.052528410 18° 10′ 50″ 0.31201251 0.95007799 0.328407258 3.044999693 1.052545166	
18° 10′ 50″ 0.31201251 0.95007799 0.328407258 3.044999693 1.052545166 3	3.205472922
	3.204999708
	3.204526641
	3.204053721
	3.203580949
	3.203108323
	3.202635845
	3.202163513
	3.201691328
	3.201219290
	3.200747398
	3.200275653 3.199804055
	3.199332603
	3.177332603
	3.178390139
	3.197919126
	3.197448260
	3.196977539
	3.196506965
	3.196036537
	3.195566254
	3.195096118
	3.194626127
18° 14′ 40″ 0.31307172 0.94972949 0.329643045 3.033584407 1.052931402 3	3.194156283
	3.193686583
	3.193217030
18° 15′ 10″ 0.31320985 0.94968394 0.329804301 3.032101149 1.052981898 3	3.192747622
	3.192278359
	3.191809242
	3.191340271
18° 15′ 50″ 0.31339401 0.94962319 0.330019334 3.030125505 1.053049268 3	3.190871444

137 18° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
18° 16′ 00″	0.31344005	0.94960799	0.330073096	3.029631956	1.053066118	3.190402763
18° 16′ 10″	0.31348609	0.94959279	0.330126860	3.029138553	1.053082971	3.189934227
18° 16′ 20″	0.31353212	0.94957759	0.330180626	3.028645294	1.053099827	3.189465836
18° 16′ 30″	0.31357816	0.94956239	0.330234394	3.028152181	1.053116686	3.188997590
18° 16′ 40″	0.31362420	0.94954719	0.330288163	3.027659212	1.053133548	3.188529489
18° 16′ 50″	0.31367023	0.94953198	0.330341934	3.027166388	1.053150414	3.188061533
18° 17′ 00″	0.31371627	0.94951677	0.330395707	3.026673708	1.053167282	3.187593722
18° 17′ 10″	0.31376230	0.94950156	0.330449482	3.026181173	1.053184153	3.187126055
18° 17′ 20″	0.31380833	0.94948635	0.330503258	3.025688783	1.053201027	3.186658534
18° 17′ 30″	0.31385436	0.94947114	0.330557036	3.025196537	1.053217904	3.186191157
18° 17′ 40″	0.31390040	0.94945592	0.330610816	3.024704435	1.053234785	3.185723924
18° 17′ 50″	0.31394643	0.94944070	0.330664597	3.024212478	1.053251668	3.185256836
18° 18′ 00″	0.31399246	0.94942548	0.330718380	3.023720665	1.053268554	3.184789892
18° 18′ 10″	0.31403849	0.94941025	0.330772165	3.023228996	1.053285443	3.184323093
18° 18′ 20″	0.31408451	0.94939503	0.330825952	3.022737471	1.053302336	3.183856438
18° 18′ 30″	0.31413054	0.94937980	0.330879740	3.022246090	1.053319231	3.183389927
18° 18′ 40″	0.31417657	0.94936457	0.330933530	3.021754853	1.053336129	3.182923561
18° 18′ 50″	0.31422259	0.94934934	0.330987322	3.021263760	1.053353031	3.182457338
18° 19′ 00″	0.31426862	0.94933410	0.331041115	3.020772811	1.053369935	3.181991260
18° 19′ 10″	0.31431464	0.94931886	0.331094910	3.020282006	1.053386842	3.181525325
18° 19′ 20″	0.31436067	0.94930362	0.331148707	3.019791344	1.053403753	3.181059535
18° 19′ 30″	0.31440669	0.94928838	0.331202506	3.019300826	1.053420666	3.180593888
18° 19′ 40″	0.31445271	0.94927314	0.331256306	3.018810452	1.053437583	3.180128385
18° 19′ 50″	0.31449874	0.94925789	0.331310109	3.018320221	1.053454502	3.179663026
18° 20′ 00″	0.31454476	0.94924264	0.331363912	3.017830134	1.053471425	3.179197810
18° 20′ 10″	0.31459078	0.94922739	0.331417718	3.017340190	1.053488350	3.178732738
18° 20′ 20″	0.31463680	0.94921214	0.331471525	3.016850389	1.053505279	3.178267810
18° 20′ 30″	0.31468281	0.94919688	0.331525334	3.016360732	1.053522210	3.177803025
18° 20′ 40″	0.31472883	0.94918163	0.331579145	3.015871218	1.053539145	3.177338383
18° 20′ 50″	0.31477485	0.94916637	0.331632958	3.015381847	1.053556082	3.176873885
18° 21′ 00″	0.31482087	0.94915111	0.331686772	3.014892618	1.053573023	3.176409530
18° 21′ 10″	0.31486688	0.94913584	0.331740588	3.014403533	1.053589967	3.175945318
18° 21′ 20″	0.31491290	0.94912058	0.331794405	3.013914591	1.053606913	3.175481249
18° 21′ 30″	0.31495891	0.94910531	0.331848225	3.013425792	1.053623863	3.175017324
18° 21′ 40″	0.31500492	0.94909004	0.331902046	3.012937136	1.053640816	3.174553541
18° 21′ 50″ 18° 22′ 00″	0.31505094	0.94907476		3.012448622	1.053657771	3.174089901
18° 22′ 10″	0.31509695 0.31514296	0.94905949	0.332009694	3.011960251	1.053674730	3.173626404
18° 22′ 20″	0.31518897	0.94904421 0.94902893	0.332063520 0.332117348	3.011472023 3.010983937	1.053691692 1.053708657	3.173163050 3.172699839
18° 22′ 30″	0.31523498	0.94901365	0.332177348	3.010765757	1.053708637	3.172236770
18° 22′ 40″	0.31528099	0.94899837	0.332171178	3.010493993	1.053723624	3.172236770
18° 22′ 50″	0.31532700	0.94898308	0.332278843	3.009520534	1.053742575	3.1717736 44 3.171311060
18° 23′ 00″	0.31537301	0.94896779	0.332332678	3.009033017	1.053759569	3.171311060
18° 23′ 10″	0.31541901	0.94895250	0.332332676	3.008545643	1.053776546	3.170348417
18° 23′ 20″	0.31546502	0.74873230	0.332366314	3.008058411	1.053810509	3.169923565
18° 23′ 30″	0.31551103	0.94892191	0.332494193	3.007571321	1.053810307	3.169461351
18° 23′ 40″	0.31555703	0.94890661	0.332548035	3.007084373	1.053844484	3.168999279
18° 23′ 50″	0.31560303	0.94889131	0.332601879	3.006597568	1.053861476	3.168537349
	0.0100000	0.7 1007 131	3.332001077	3.000377300	1.033001770	J.10033/37/

138 18° 23′ 50″

18° 24′ 10″ 0.31569504 0.94886071 0.332709572 3.005624381 1.05 18° 24′ 20″ 0.31574104 0.94884540 0.332763420 3.005138001 1.05 18° 24′ 30″ 0.31578704 0.94883009 0.332817271 3.004651762 1.05 18° 24′ 40″ 0.31583304 0.94881478 0.332871123 3.004165665 1.05 18° 24′ 50″ 0.31587904 0.94879947 0.332924978 3.003679710 1.05 18° 25′ 00″ 0.31592504 0.94878415 0.332978833 3.003193896 1.05 18° 25′ 10″ 0.31597104 0.94876884 0.333032691 3.002708223 1.05 18° 25′ 20″ 0.31601704 0.94875352 0.333086550 3.002222692 1.05	53878471 53875469 53912470 53929474 53946481 53963491 53980504 53997521 54014540 54031562 54048587	3.168075562 3.167613916 3.167152413 3.166691051 3.166229831 3.165768753 3.165307817 3.164847022 3.164386369
18° 24′ 10″ 0.31569504 0.94886071 0.332709572 3.005624381 1.05 18° 24′ 20″ 0.31574104 0.94884540 0.332763420 3.005138001 1.05 18° 24′ 30″ 0.31578704 0.94883009 0.332817271 3.004651762 1.05 18° 24′ 40″ 0.31583304 0.94881478 0.332871123 3.004165665 1.05 18° 24′ 50″ 0.31587904 0.94879947 0.332924978 3.003679710 1.05 18° 25′ 00″ 0.31592504 0.94878415 0.332978833 3.003193896 1.05 18° 25′ 10″ 0.31597104 0.94876884 0.333032691 3.002708223 1.05 18° 25′ 20″ 0.31601704 0.94875352 0.333086550 3.002222692 1.05	33895469 33912470 33929474 33946481 33963491 33980504 33997521 34014540 34031562	3.167613916 3.167152413 3.166691051 3.166229831 3.165768753 3.165307817 3.164847022
18° 24′ 20″ 0.31574104 0.94884540 0.332763420 3.005138001 1.05 18° 24′ 30″ 0.31578704 0.94883009 0.332817271 3.004651762 1.05 18° 24′ 40″ 0.31583304 0.94881478 0.332871123 3.004165665 1.05 18° 24′ 50″ 0.31587904 0.94879947 0.332924978 3.003679710 1.05 18° 25′ 00″ 0.31592504 0.94878415 0.332978833 3.003193896 1.05 18° 25′ 10″ 0.31597104 0.94876884 0.333032691 3.002708223 1.05 18° 25′ 20″ 0.31601704 0.94875352 0.333086550 3.002222692 1.05	33912470 53929474 53946481 53963491 53980504 53997521 54014540 54031562	3.167152413 3.166691051 3.166229831 3.165768753 3.165307817 3.164847022
18° 24′ 40″ 0.31583304 0.94881478 0.332871123 3.004165665 1.05 18° 24′ 50″ 0.31587904 0.94879947 0.332924978 3.003679710 1.05 18° 25′ 00″ 0.31592504 0.94878415 0.332978833 3.003193896 1.05 18° 25′ 10″ 0.31597104 0.94876884 0.333032691 3.002708223 1.05 18° 25′ 20″ 0.31601704 0.94875352 0.333086550 3.002222692 1.05	33946481 33963491 33980504 33997521 34014540 34031562	3.166229831 3.165768753 3.165307817 3.164847022
18° 24′ 50″ 0.31587904 0.94879947 0.332924978 3.003679710 1.05 18° 25′ 00″ 0.31592504 0.94878415 0.332978833 3.003193896 1.05 18° 25′ 10″ 0.31597104 0.94876884 0.333032691 3.002708223 1.05 18° 25′ 20″ 0.31601704 0.94875352 0.333086550 3.002222692 1.05	53963491 53980504 53997521 54014540 54031562	3.165768753 3.165307817 3.164847022
18° 25′ 00″ 0.31592504 0.94878415 0.332978833 3.003193896 1.05 18° 25′ 10″ 0.31597104 0.94876884 0.333032691 3.002708223 1.05 18° 25′ 20″ 0.31601704 0.94875352 0.333086550 3.002222692 1.05	53980504 53997521 54014540 54031562	3.165307817 3.164847022
18° 25′ 10″ 0.31597104 0.94876884 0.333032691 3.002708223 1.05 18° 25′ 20″ 0.31601704 0.94875352 0.333086550 3.002222692 1.05	53997521 54014540 54031562	3.164847022
18° 25′ 20″ 0.31601704 0.94875352 0.333086550 3.002222692 1.05	54014540 54031562	
	54031562	3.164386369
18° 25′ 30″ 0.31606303 0.94873819 0.333140411 3.001737302 1.05		
1	1019597	3.163925857
	14040307	3.163465487
	4065616	3.163005259
	4082647	3.162545171
	4099681	3.162085225
	4116719	3.161625420
	4133759	3.161165756
	4150803	3.160706233
	54167849	3.160246852
	4184899	3.159787611
	4201951	3.159328511
	4219007	3.158869552
	4236065	3.158410733
	4253127	3.157952056
	4270192	3.157493519
	4287259	3.157035122
	4304330	3.156576866
	54321404 54338481	3.156118750 3.155660775
	54355560	3.155202940
	54372643	3.154745246
	54389729	3.154287691
	54406818	3.153830277
	54423910	3.153373003
	64441005	3.152915868
	64458103	3.152458874
	54475204	3.152002019
	54492308	3.151545305
	54509415	3.151088730
	4526525	3.150632294
	4543639	3.150175999
18° 30′ 40″ 0.31748855 0.94826210 0.334810970 2.986759965 1.05	4560755	3.149719842
	4577874	3.149263826
18° 31′ 00″ 0.31758050 0.94823131 0.334918805 2.985798301 1.05	4594996	3.148807949
18° 31′ 10″ 0.31762647 0.94821592 0.334972726 2.985317679 1.05	34612122	3.148352211
	4629250	3.147896612
	34646381	3.147441153
	4663516	3.146985833
18° 31′ 50″ 0.31781035 0.94815430 0.335188425 2.983396578 1.05	4680653	3.146530652

139 18° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
18° 32′ 00″	0.31785632	0.94813889	0.335242354	2.982916650	1.054697794	3.146075610
18° 32′ 10″	0.31790228	0.94812348	0.335296285	2.982436861	1.054714937	3.145620707
18° 32′ 20″	0.31794825	0.94810807	0.335350218	2.981957211	1.054732084	3.145165942
18° 32′ 30″	0.31799421	0.94809265	0.335404152	2.981477699	1.054749233	3.144711317
18° 32′ 40″	0.31804018	0.94807724	0.335458088	2.980998326	1.054766386	3.144256831
18° 32′ 50″	0.31808614	0.94806182	0.335512026	2.980519091	1.054783542	3.143802483
18° 33′ 00″	0.31813210	0.94804639	0.335565966	2.980039995	1.054800700	3.143348274
18° 33′ 10″	0.31817807	0.94803097	0.335619908	2.979561037	1.054817862	3.142894204
18° 33′ 20″	0.31822403	0.94801554	0.335673851	2.979082218	1.054835027	3.142440272
18° 33′ 30″	0.31826999	0.94800011	0.335727796	2.978603537	1.054852195	3.141986478
18° 33′ 40″	0.31831595	0.94798468	0.335781743	2.978124994	1.054869366	3.141532824
18° 33′ 50″	0.31836191	0.94796925	0.335835691	2.977646590	1.054886540	3.141079307
18° 34′ 00″	0.31840787	0.94795381	0.335889641	2.977168323	1.054903717	3.140625929
18° 34′ 10″	0.31845382	0.94793837	0.335943593	2.976690195	1.054920896	3.140172689
18° 34′ 20″	0.31849978	0.94792293	0.335997547	2.976212204	1.054938080	3.139719587
18° 34′ 30″	0.31854574	0.94790749	0.336051503	2.975734352	1.054955266	3.139266623
18° 34′ 40″	0.31859169	0.94789205	0.336105460	2.975256637	1.054972455	3.138813797
18° 34′ 50″	0.31863765	0.94787660	0.336159419	2.974779060	1.054989647	3.138361110
18° 35′ 00″	0.31868360	0.94786115	0.336213380	2.974301621	1.055006842	3.137908560
18° 35′ 10″	0.31872955	0.94784570	0.336267342	2.973824319	1.055024040	3.137456148
18° 35′ 20″	0.31877551	0.94783025	0.336321307	2.973347155	1.055041241	3.137003874
18° 35′ 30″	0.31882146	0.94781479	0.336375273	2.972870129	1.055058446	3.136551738
18° 35′ 40″	0.31886741	0.94779933	0.336429240	2.972393240	1.055075653	3.136099739
18° 35′ 50″	0.31891336	0.94778387	0.336483210	2.971916489	1.055092864	3.135647878
18° 36′ 00″	0.31895931	0.94776841	0.336537181	2.971439875	1.055110077	3.135196155
18° 36′ 10″	0.31900526	0.94775295	0.336591154	2.970963398	1.055127293	3.134744569
18° 36′ 20″	0.31905121	0.94773748	0.336645129	2.970487058	1.055144513	3.134293120
18° 36′ 30″	0.31909715	0.94772201	0.336699106	2.970010856	1.055161735	3.133841809
18° 36′ 40″	0.31914310	0.94770654	0.336753084	2.969534791	1.055178961	3.133390635
18° 36′ 50″	0.31918905	0.94769106	0.336807065	2.969058862	1.055196190	3.132939599
18° 37′ 00″	0.31923499	0.94767559	0.336861047	2.968583071	1.055213421	3.132488699
18° 37′ 10″	0.31928093	0.94766011	0.336915030	2.968107417	1.055230656	3.132037937
18° 37′ 20″ 18° 37′ 30″	0.31932688	0.94764463	0.336969016 0.337023003	2.967631900 2.967156519	1.055247894	3.131587312
18° 37′ 40″	0.31937282 0.31941876	0.94762915 0.94761366	0.337023003	2.966681275	1.055265135 1.055282379	3.131136824 3.130686472
18° 37′ 50″		0.94759818	0.337076772	2.966206168	1.055299625	3.130606472
18° 38′ 00″	0.31946470 0.31951064	0.94758269	0.337184975	2.965731198	1.055277625	3.129786181
18° 38′ 10″	0.31751064	0.94756720	0.337134773	2.965256364	1.055334128	3.1297336240
18° 38′ 20″	0.31753636	0.94755170	0.337292965	2.964781666	1.055351384	3.128886436
18° 38′ 30″	0.31760232	0.94753621	0.337346963	2.964307105	1.055368643	3.128436768
18° 38′ 40″	0.31764646	0.94752071	0.337400963	2.963832680	1.055385906	3.127987237
18° 38′ 50″	0.31767440	0.94750521	0.337454964	2.763632660	1.055403171	3.127787237
18° 39′ 00″	0.31774034	0.74730321	0.337508967	2.962884240	1.055420439	3.127088585
18° 37′ 10″	0.31778027	0.94747420	0.337562972	2.962410224	1.055437710	3.126639464
18° 39′ 20″	0.31783221	0.94745869	0.337616979	2.961936345	1.055454985	3.126190479
18° 39′ 30″	0.31707014	0.94744318	0.337670787	2.961462601	1.055472262	3.125741630
18° 39′ 40″	0.31997001	0.94742767	0.337724997	2.960988993	1.055489542	3.125292917
18° 39′ 50″	0.32001594	0.94741216	0.337779009	2.960515522	1.055506826	3.124844341
	1.02001071	51, 1, 11210		2.7 000 10022		2.12.011011

140 18° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
18° 40′ 00″	0.32006187	0.94739664	0.337833023	2.960042186	1.055524112	3.124395900
18° 40′ 10″	0.32010780	0.94738112	0.337887039	2.959568986	1.055541402	3.123947596
18° 40′ 20″	0.32015373	0.94736560	0.337941056	2.959095922	1.055558694	3.123499428
18° 40′ 30″	0.32019966	0.94735008	0.337995075	2.958622993	1.055575990	3.123051395
18° 40′ 40″	0.32024559	0.94733456	0.338049096	2.958150201	1.055593289	3.122603499
18° 40′ 50″	0.32029152	0.94731903	0.338103118	2.957677543	1.055610590	3.122155738
18° 41′ 00″	0.32033744	0.94730350	0.338157143	2.957205022	1.055627895	3.121708113
18° 41′ 10″	0.32038337	0.94728797	0.338211169	2.956732636	1.055645203	3.121260623
18° 41′ 20″	0.32042930	0.94727243	0.338265197	2.956260385	1.055662514	3.120813269
18° 41′ 30″	0.32047522	0.94725690	0.338319226	2.955788269	1.055679828	3.120366051
18° 41′ 40″	0.32052114	0.94724136	0.338373258	2.955316289	1.055697145	3.119918968
18° 41′ 50″	0.32056707	0.94722582	0.338427291	2.954844444	1.055714465	3.119472021
18° 42′ 00″	0.32061299	0.94721028	0.338481326	2.954372735	1.055731788	3.119025209
18° 42′ 10″	0.32065891	0.94719473	0.338535363	2.953901160	1.055749114	3.118578532
18° 42′ 20″	0.32070483	0.94717919	0.338589401	2.953429720	1.055766443	3.118131991
18° 42′ 30″	0.32075075	0.94716364	0.338643441	2.952958416	1.055783775	3.117685585
18° 42′ 40″	0.32079667	0.94714808	0.338697483	2.952487246	1.055801111	3.117239314
18° 42′ 50″	0.32084259	0.94713253	0.338751527	2.952016211	1.055818449	3.116793178
18° 43′ 00″	0.32088851	0.94711698	0.338805573	2.951545311	1.055835790	3.116347177
18° 43′ 10″	0.32093443	0.94710142	0.338859620	2.951074546	1.055853135	3.115901310
18° 43′ 20″	0.32098034	0.94708586	0.338913669	2.950603916	1.055870482	3.115455579
18° 43′ 30″	0.32102626	0.94707029	0.338967720	2.950133420	1.055887833	3.115009983
18° 43′ 40″	0.32107217	0.94705473	0.339021773	2.949663058	1.055905186	3.114564521
18° 43′ 50″	0.32111809	0.94703916	0.339075828	2.949192831	1.055922543	3.114119194
18° 44′ 00″	0.32116400	0.94702359	0.339129884	2.948722739	1.055939903	3.113674002
18° 44′ 10″	0.32120991	0.94700802	0.339183942	2.948252781	1.055957265	3.113228944
18° 44′ 20″	0.32125583	0.94699245	0.339238002	2.947782957	1.055974631	3.112784021
18° 44′ 30″	0.32130174	0.94697687	0.339292063	2.947313268	1.055992000	3.112339233
18° 44′ 40″	0.32134765	0.94696129	0.339346127	2.946843713	1.056009372	3.111894578
18° 44′ 50″	0.32139356	0.94694571	0.339400192	2.946374292	1.056026747	3.111450058
18° 45′ 00″	0.32143947	0.94693013	0.339454259	2.945905005	1.056044125	3.111005673
18° 45′ 10″	0.32148537	0.94691454	0.339508328	2.945435852	1.056061506	3.110561421
18° 45′ 20″	0.32153128	0.94689896	0.339562398	2.944966833	1.056078890	3.110117304
18° 45′ 30″	0.32157719	0.94688337	0.339616470	2.944497948	1.056096277	3.109673321
18° 45′ 40″	0.32162309	0.94686778	0.339670544	2.944029196	1.056113668	3.109229472
18° 45′ 50″ 18° 46′ 00″	0.32166900 0.32171490	0.94685218 0.94683659	0.339724620	2.943560579	1.056131061	3.108785757
18° 46′ 10″	0.32171490		0.339778698	2.943092095	1.056148457	3.108342176
18° 46′ 10″		0.94682099	0.339832777	2.942623745	1.056165857	3.107898728 3.107455415
18° 46′ 30″	0.32180671 0.32185261	0.94680539 0.94678978	0.339886859 0.339940942	2.942155529 2.941687446	1.056183259 1.056200665	3.107455415
18° 46′ 40″	0.32189851	0.94677418	0.339995026	2.941219497	1.056200663	3.10/012233
18° 46′ 50″	0.32194441	0.94675857	0.337773026	2.940751681	1.056235485	3.106369169
18° 47′ 00″	0.32194441	0.94674296	0.340049113	2.940283998	1.056252899	3.105126277
18° 47′ 10″	0.32177031	0.94672735	0.340103201	2.939816449	1.056270317	3.10503478
18° 47′ 10″	0.32208211	0.94671174	0.340137271	2.939349033	1.056270317	3.103240833
18° 47′ 30″	0.32212801	0.94669612	0.340265477	2.938881750	1.056305162	3.104778341
18° 47′ 40″	0.32217390	0.94668050	0.340319572	2.938414600	1.056322589	3.104333762
18° 47′ 50″	0.322217370	0.94666488	0.340373670	2.937947584	1.056340019	3.103713717
	0.32221700	5.7 TOUUTUU	0.0 100/ 00/ 0	2. /3//7/304	1.030370017	5.105 f/ 100J

141 18° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\csc(x)$
18° 48′ 00″	0.32226570	0.94664926	0.340427769	2.937480700	1.056357452	3.103029627
18° 48′ 10″	0.32231159	0.94663364	0.340481869	2.937013950	1.056374888	3.102587781
18° 48′ 20″	0.32235748	0.94661801	0.340535972	2.936547332	1.056392327	3.102146069
18° 48′ 30″	0.32240338	0.94660238	0.340590076	2.936080847	1.056409769	3.101704490
18° 48′ 40″	0.32244927	0.94658675	0.340644183	2.935614495	1.056427214	3.101263043
18° 48′ 50″	0.32249516	0.94657111	0.340698291	2.935148276	1.056444663	3.100821730
18° 49′ 00″	0.32254105	0.94655548	0.340752400	2.934682189	1.056462114	3.100380549
18° 49′ 10″	0.32258694	0.94653984	0.340806512	2.934216235	1.056479568	3.099939502
18° 49′ 20″	0.32263283	0.94652420	0.340860625	2.933750414	1.056497026	3.099498587
18° 49′ 30″	0.32267872	0.94650856	0.340914740	2.933284725	1.056514486	3.099057805
18° 49′ 40″	0.32272461	0.94649291	0.340968857	2.932819168	1.056531950	3.098617155
18° 49′ 50″	0.32277049	0.94647726	0.341022976	2.932353744	1.056549417	3.098176638
18° 50′ 00″	0.32281638	0.94646161	0.341077096	2.931888452	1.056566887	3.097736253
18° 50′ 10″	0.32286226	0.94644596	0.341131219	2.931423292	1.056584359	3.097296001
18° 50′ 20″	0.32290815	0.94643031	0.341185343	2.930958265	1.056601835	3.096855881
18° 50′ 30″	0.32295403	0.94641465	0.341239469	2.930493370	1.056619314	3.096415894
18° 50′ 40″	0.32299992	0.94639899	0.341293596	2.930028606	1.056636796	3.095976039
18° 50′ 50″	0.32304580	0.94638333	0.341347726	2.929563975	1.056654281	3.095536316
18° 51′ 00″	0.32309168	0.94636767	0.341401857	2.929099476	1.056671769	3.095096726
18° 51′ 10″	0.32313756	0.94635200	0.341455990	2.928635109	1.056689260	3.094657267
18° 51′ 20″	0.32318344	0.94633634	0.341510125	2.928170873	1.056706755	3.094217940
18° 51′ 30″	0.32322932	0.94632067	0.341564261	2.927706770	1.056724252	3.093778746
18° 51′ 40″	0.32327520	0.94630500	0.341618400	2.927242798	1.056741752	3.093339683
18° 51′ 50″	0.32332108	0.94628932	0.341672540	2.926778957	1.056759256	3.092900752
18° 52′ 00″	0.32336695	0.94627365	0.341726682	2.926315249	1.056776762	3.092461954
18° 52′ 10″	0.32341283	0.94625797	0.341780826	2.925851671	1.056794272	3.092023286
18° 52′ 20″	0.32345871	0.94624229	0.341834971	2.925388226	1.056811784	3.091584751
18° 52′ 30″	0.32350458	0.94622660	0.341889119	2.924924912	1.056829300	3.091146347
18° 52′ 40″	0.32355045	0.94621092	0.341943268	2.924461729	1.056846819	3.090708075
18° 52′ 50″	0.32359633	0.94619523	0.341997419	2.923998677	1.056864341	3.090269934
18° 53′ 00″	0.32364220	0.94617954	0.342051571	2.923535757	1.056881865	3.089831925
18° 53′ 10″	0.32368807	0.94616385	0.342105726	2.923072968	1.056899393	3.089394047
18° 53′ 20″	0.32373394	0.94614816	0.342159882	2.922610310	1.056916924	3.088956300
18° 53′ 30″	0.32377981	0.94613246	0.342214041	2.922147784	1.056934458	3.088518685
18° 53′ 40″	0.32382568	0.94611676	0.342268200	2.921685388	1.056951996	3.088081201
18° 53′ 50″	0.32387155	0.94610106	0.342322362	2.921223123	1.056969536	3.087643848
18° 54′ 00″	0.32391742	0.94608536	0.342376526	2.920760989	1.056987079	3.087206627
18° 54′ 10″	0.32396329	0.94606965	0.342430691	2.920298986	1.057004625	3.086769536
18° 54′ 20″	0.32400915	0.94605395	0.342484858	2.919837114	1.057022175	3.086332577
18° 54′ 30″	0.32405502	0.94603824	0.342539027	2.919375373	1.057039727	3.085895748
18° 54′ 40″	0.32410088	0.94602253	0.342593198	2.918913762	1.057057283	3.085459050
18° 54′ 50″	0.32414675	0.94600681	0.342647370	2.918452282	1.057074841	3.085022483
18° 55′ 00″	0.32419261	0.94599110	0.342701545	2.917990932	1.057092403	3.084586047
18° 55′ 10″	0.32423847	0.94597538	0.342755721	2.917529713	1.057109968	3.084149742
18° 55′ 20″	0.32428433	0.94595966	0.342809899	2.917068625	1.057127536	3.083713567
18° 55′ 30″	0.32433019	0.94594393	0.342864079	2.916607667	1.057145107	3.083277523
18° 55′ 40″	0.32437606	0.94592821	0.342918260	2.916146839	1.057162681	3.082841609
18° 55′ 50″	0.32442191	0.94591248	0.342972443	2.915686141	1.057180258	3.082405826

142 18° 55′ 50″

<u> </u>	sin(x)	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
18° 56′ 00″	0.32446777	0.94589675	0.343026629	2.915225574	1.057197838	3.081970173
18° 56′ 10″	0.32451363	0.94588102	0.343080815	2.914765137	1.057215421	3.081534651
18° 56′ 20″	0.32455949	0.94586529	0.343135004	2.914304830	1.057233007	3.081099258
18° 56′ 30″	0.32460535	0.94584955	0.343189195	2.913844653	1.057250596	3.080663997
18° 56′ 40″	0.32465120	0.94583381	0.343243387	2.913384606	1.057268189	3.080228865
18° 56′ 50″	0.32469706	0.94581807	0.343297581	2.912924689	1.057285784	3.079793864
18° 57′ 00″	0.32474291	0.94580233	0.343351777	2.912464902	1.057303383	3.079358992
18° 57′ 10″	0.32478876	0.94578658	0.343405975	2.912005244	1.057320984	3.078924251
18° 57′ 20″	0.32483462	0.94577083	0.343460175	2.911545717	1.057338589	3.078489639
18° 57′ 30″	0.32488047	0.94575509	0.343514376	2.911086319	1.057356197	3.078055158
18° 57′ 40″	0.32492632	0.94573933	0.343568579	2.910627051	1.057373807	3.077620806
18° 57′ 50″	0.32497217	0.94572358	0.343622784	2.910167912	1.057391421	3.077186585
18° 58′ 00″	0.32501802	0.94570782	0.343676991	2.909708903	1.057409038	3.076752492
18° 58′ 10″	0.32506387	0.94569207	0.343731199	2.909250023	1.057426658	3.076318530
18° 58′ 20″	0.32510972	0.94567630	0.343785410	2.908791273	1.057444281	3.075884697
18° 58′ 30″	0.32515556	0.94566054	0.343839622	2.908332652	1.057461907	3.075450994
18° 58′ 40″	0.32520141	0.94564478	0.343893836	2.907874161	1.057479537	3.075017420
18° 58′ 50″	0.32524726	0.94562901	0.343948052	2.907415799	1.057497169	3.074583976
18° 59′ 00″	0.32529310	0.94561324	0.344002270	2.906957566	1.057514804	3.074150661
18° 59′ 10″	0.32533894	0.94559747	0.344056489	2.906499462	1.057532443	3.073717476
18° 59′ 20″	0.32538479	0.94558169	0.344110710	2.906041487	1.057550084	3.073284420
18° 59′ 30″	0.32543063	0.94556592	0.344164933	2.905583641	1.057567729	3.072851493
18° 59′ 40″	0.32547647	0.94555014	0.344219158	2.905125925	1.057585377	3.072418695
18° 59′ 50″	0.32552231	0.94553436	0.344273385	2.904668337	1.057603027	3.071986026
19° 00′ 00″	0.32556815	0.94551858	0.344327613	2.904210878	1.057620681	3.071553487
19° 00′ 10″	0.32561399	0.94550279	0.344381844	2.903753547	1.057638338	3.071121076
19° 00′ 20″	0.32565983	0.94548700	0.344436076	2.903296346	1.057655998	3.070688795
19° 00′ 30″	0.32570567	0.94547121	0.344490310	2.902839273	1.057673661	3.070256642
19° 00′ 40″	0.32575151	0.94545542	0.344544545	2.902382329	1.057691327	3.069824618
19° 00′ 50″	0.32579735	0.94543963	0.344598783	2.901925514	1.057708996	3.069392723
19° 01′ 00″	0.32584318	0.94542383	0.344653022	2.901468826	1.057726669	3.068960956
19° 01′ 10″	0.32588902	0.94540803	0.344707263	2.901012268	1.057744344	3.068529319
19° 01′ 20″	0.32593485	0.94539223	0.344761506	2.900555838	1.057762023	3.068097809
19° 01′ 30″	0.32598068	0.94537643	0.344815751	2.900099536	1.057779704	3.067666429
19° 01′ 40″	0.32602652	0.94536062	0.344869998	2.899643362	1.057797389	3.067235177
19° 01′ 50″	0.32607235	0.94534482	0.344924246	2.899187317	1.057815076	3.066804053
19° 02′ 00″	0.32611818	0.94532901	0.344978496	2.898731400	1.057832767	3.066373058
19° 02′ 10″	0.32616401	0.94531320	0.345032749	2.898275611	1.057850461	3.065942191
19° 02′ 20″	0.32620984	0.94529738	0.345087002	2.897819950	1.057868158	3.065511452
19° 02′ 30″	0.32625567	0.94528157	0.345141258	2.897364417	1.057885858	3.065080842
19° 02′ 40″	0.32630150	0.94526575	0.345195516	2.896909012	1.057903561	3.064650359
19° 02′ 50″	0.32634732	0.94524993	0.345249775	2.896453735	1.057921267	3.064220005
19° 03′ 00″	0.32639315	0.94523410	0.345304036	2.895998586	1.057938976	3.063789779
19° 03′ 10″	0.32643898	0.94521828	0.345358299	2.895543565	1.057956688	3.063359681
19° 03′ 20″	0.32648480	0.94520245	0.345412564	2.895088671	1.057974404	3.062929711
19° 03′ 30″	0.32653063	0.94518662	0.345466830	2.894633905	1.057992122	3.062499868
19° 03′ 40″	0.32657645	0.94517079	0.345521099	2.894179267	1.058009844	3.062070154
19° 03′ 50″	0.32662227	0.94515496	0.345575369	2.893724756	1.058027568	3.061640567

143 19° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
19° 04′ 00″	0.32666809	0.94513912	0.345629641	2.893270373	1.058045296	3.061211108
19° 04′ 10″	0.32666607	0.94512328	0.345683915	2.892816117	1.058043276	3.060781777
19° 04′ 10″	0.32671372	0.94510744	0.345738190	2.892361988	1.058083027	3.060781777
19° 04′ 30″						
	0.32680556	0.94509160	0.345792468	2.891907987	1.058098498	3.059923497
19° 04′ 40″	0.32685138	0.94507575	0.345846747	2.891454113	1.058116238	3.059494548
19° 04′ 50″	0.32689719	0.94505991	0.345901028	2.891000367	1.058133981	3.059065727
19° 05′ 00″	0.32694301	0.94504406	0.345955311	2.890546747	1.058151727	3.058637033
19° 05′ 10″	0.32698883	0.94502820	0.346009596	2.890093255	1.058169476	3.058208466
19° 05′ 20″	0.32703464	0.94501235	0.346063883	2.889639890	1.058187229	3.057780027
19° 05′ 30″	0.32708046	0.94499649	0.346118171	2.889186652	1.058204984	3.057351715
19° 05′ 40″	0.32712627	0.94498064	0.346172461	2.888733540	1.058222743	3.056923530
19° 05′ 50″	0.32717209	0.94496478	0.346226753	2.888280556	1.058240504	3.056495472
19° 06′ 00″	0.32721790	0.94494891	0.346281047	2.887827699	1.058258269	3.056067541
19° 06′ 10″	0.32726371	0.94493305	0.346335343	2.887374968	1.058276037	3.055639737
19° 06′ 20″	0.32730952	0.94491718	0.346389641	2.886922364	1.058293808	3.055212061
19° 06′ 30″	0.32735533	0.94490131	0.346443940	2.886469887	1.058311581	3.054784511
19° 06′ 40″	0.32740114	0.94488544	0.346498241	2.886017536	1.058329359	3.054357087
19° 06′ 50″	0.32744695	0.94486956	0.346552544	2.885565312	1.058347139	3.053929791
19° 07′ 00″	0.32749276	0.94485369	0.346606849	2.885113214	1.058364922	3.053502621
19° 07′ 10″	0.32753857	0.94483781	0.346661156	2.884661243	1.058382708	3.053075578
19° 07′ 20″	0.32758437	0.94482193	0.346715464	2.884209398	1.058400497	3.052648662
19° 07′ 30″	0.32763018	0.94480605	0.346769774	2.883757680	1.058418290	3.052221872
19° 07′ 40″	0.32767598	0.94479016	0.346824087	2.883306088	1.058436085	3.051795209
19° 07′ 50″	0.32772179	0.94477427	0.346878400	2.882854622	1.058453884	3.051368672
19° 08′ 00″	0.32776759	0.94475838	0.346932716	2.882403282	1.058471686	3.050942261
19° 08′ 10″	0.32781340	0.94474249	0.346987034	2.881952069	1.058489491	3.050515977
19° 08′ 20″	0.32785920	0.94472660	0.347041353	2.881500981	1.058507298	3.050089819
19° 08′ 30″	0.32790500	0.94471070	0.347095675	2.881050020	1.058525109	3.049663787
19° 08′ 40″	0.32795080	0.94469480	0.347149998	2.880599184	1.058542923	3.049237882
19° 08′ 50″	0.32799660	0.94467890	0.347204323	2.880148474	1.058560741	3.048812102
19° 09′ 00″	0.32804240	0.94466300	0.347258649	2.879697891	1.058578561	3.048386449
19° 09′ 10″	0.32808820	0.94464710	0.347312978	2.879247433	1.058596384	3.047960921
19° 09′ 20″	0.32813399	0.94463119	0.347367308	2.878797100	1.058614211	3.047535520
19° 09′ 30″	0.32817979	0.94461528	0.347421641	2.878346894	1.058632040	3.047110244
19° 09′ 40″	0.32822559	0.94459937	0.347475975	2.877896813	1.058649873	3.046685095
19° 09′ 50″	0.32827138	0.94458345	0.347530311	2.877446858	1.058667708	3.046260071
19° 10′ 00″	0.32831718	0.94456754	0.347584648	2.876997028	1.058685547	3.045835172
19° 10′ 10″	0.32836297	0.94455162	0.347638988	2.876547323	1.058703389	3.045410400
19° 10′ 20″	0.32840876	0.94453570	0.347693329	2.876097745	1.058721234	3.044985753
19° 10′ 30″	0.32845455	0.94451978	0.347747672	2.875648291	1.058739082	3.044561232
19° 10′ 40″	0.32850034	0.94450385	0.347802018	2.875198963	1.058756933	3.044136836
19° 10′ 50″	0.32854614	0.94448792	0.347856364	2.874749760	1.058774787	3.043712565
19° 11′ 00″	0.32859192	0.94447199	0.347910713	2.874300682	1.058792645	3.043288420
19° 11′ 10″	0.32863771	0.94445606	0.347965064	2.873851729	1.058810505	3.042864401
19° 11′ 20″	0.32868350	0.94444013	0.348019416	2.873402902	1.058828369	3.042440506
19° 11′ 30″	0.32872929	0.94442419	0.348073770	2.872954199	1.058846235	3.042016737
19° 11′ 40″	0.32877508	0.94440825	0.348128126	2.872505621	1.058864105	3.041593093
19° 11′ 50″	0.32882086	0.94439231	0.348182484	2.872057169	1.058881978	3.041169574

144 19° 11′ 50″

19" 12' 00" 0.32886665 0.94437637 0.348236844 2.871608841 1.058899853 3.040746181 19" 12' 10" 0.32891243 0.94436444 0.34834556 2.8701266 1.058995614 3.03899768 19" 12' 30" 0.3290400 0.94432853 0.34837954 2.870264606 1.058935614 3.03899768 19" 12' 30" 0.32904978 0.94431258 0.348536670 2.86936073 1.05898279 3.03903636196 13' 00" 0.32904978 0.94428667 0.348563041 2.868936073 1.05898279 3.03803631086 19" 13' 00" 0.32914134 0.94428667 0.348563041 2.868921493 1.059007174 3.038208442 19" 13' 00" 0.32924786 0.9442867 0.348671788 2.868026707 1.059025701 3.037785922 19" 13' 20" 0.3292481 0.9442867 0.348563041 2.868921493 1.059005717 3.037785922 19" 13' 30" 0.32927868 0.94423279 0.348726164 2.867579501 1.059068875 3.036941256 0.3492445 0.94415828 0.348889364 2.866238627 1.059068875 3.03697089 19" 14' 0.0" 0.32941610 0.94418488 0.348845402 2.866238627 1.059114605 3.035675192 0.94416891 0.348958073 2.866345233 1.05902692 3.036097089 14' 20" 0.32950756 0.94415294 0.348989073 2.866345233 1.05916040 3.0355253419 19" 14' 00" 0.32956056 0.94418969 0.34995468 2.866485253 1.059168363 3.03410270 0.9414509 0.349161614 2.86406231 1.059204216 3.03336575192 0.9441509 0.94412089 0.34916251 0.382950560 0.94408900 0.349161241 2.86406231 1.059204216 3.03336575192 0.95916060 0.94490800 0.349161241 2.866086284 1.05920803 3.033988846 19" 15' 00" 0.32996656 0.94408900 0.349161241 2.866086284 1.05920803 3.0333144519 0.95906660 0.94408900 0.34936060 0.94490800 0.34936060 0.94490800 0.34936660 0.9439808 0.349354020 2.8661410 0.59940633 3.029361629 0.9440500 0.34936060 0.9439608 0.34936060 0.4898690 0.34986900 0.35996565 0.94408900 0.34936660 0.9439608 0.34975663 0.859595619 0.5993660 0.9440800 0.34936660	<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
19° 12′ 10″ 0.32891243 0.94436043 0.348291206 2.870712560 1.058935614 3.039876789 19° 12′ 20″ 0.32895821 0.94432853 0.348349569 2.870712560 1.058935614 3.039876749 19° 12′ 40″ 0.32904978 0.94432853 0.348349934 2.866816777 1.058973138 3.039476749 19° 12′ 40″ 0.32904978 0.94432853 0.348359834 2.866936073 1.05898279 3.038631036 19° 13′ 00″ 0.32918712 0.94426471 0.348617414 2.868914973 1.059007174 3.038208442 19° 13′ 10″ 0.32918712 0.94426471 0.348617414 2.868167038 1.059025071 3.037858272 19° 13′ 20″ 0.32923290 0.94424475 0.348617484 2.86802670 1.059042972 3.037363527 19° 13′ 30″ 0.32923290 0.94424875 0.348671788 2.86682670 1.05906875 3.03691156 19° 13′ 50″ 0.3293445 0.9441682 0.348780542 2.866738627 1.05906875 3.036697089 19° 14′ 00″ 0.32941601 0.94418488 0.348889304 2.866238627 1.05906875 3.036697089 19° 14′ 00″ 0.32941601 0.94418488 0.348889304 2.866238627 1.059132521 3.035573192 19° 14′ 20″ 0.32950756 0.94415294 0.348978073 2.866385431 1.05916363 3.034831770 0.32964158 0.94416891 0.348978073 2.866345333 1.059150440 3.0335675119 15′ 00″ 0.32973642 0.94407304 0.349216850 2.864452534 0.059916284 0.33988846 19° 14′ 50″ 0.32973642 0.94407304 0.349270028 2.8661345234 1.0599204216 3.0335675119 15′ 20″ 0.32987365 0.94408700 0.349176850 2.8664852534 0.059240216 3.0335675119 15′ 50″ 0.32987365 0.94408700 0.349378823 2.866254221 0.059240216 3.0335675119 15′ 50″ 0.32987365 0.94408700 0.349378823 2.866340214 1.059920826 3.033264488 19° 15′ 00″ 0.32987656 0.94489800 0.349378823 2.866368414 1.059916383 3.033146419 0.94407304 0.34927002 2.866685641 1.059924026 3.0335675119 15′ 50″ 0.33001025 0.94487605 0.34937508 0.34935067 0.34935666 0.94397308 0.34937508 2.866441070 0.059345761 0.33028664 0.94381040 0.349787820 0.349737820 0.	19° 12′ 00″	0.32886665	0.94437637	0.348236844	2.871608841	1.058899853	3.040746181
19° 12′ 20″ 0.32904978 0.94434481 0.348345566 2.870712560 1.058973501 3.03998768 19° 12′ 30″ 0.32904978 0.94431258 0.348358670 2.869369737 1.058973500 3.03945785 19° 12′ 50″ 0.32904978 0.94431258 0.348508670 2.869369737 1.058973500 3.03945355 19° 13′ 00″ 0.32918712 0.9442667 0.348563041 2.868921493 1.059025071 3.038208442 19° 13′ 10″ 0.32918712 0.94426471 0.348617414 2.868474038 1.059025071 3.037785922 19° 13′ 20″ 0.32923290 0.94424875 0.348617414 2.868474038 1.059025071 3.03785922 19° 13′ 20″ 0.3293245 0.94421682 0.348780542 2.867132419 1.05906875 3.038691365 19° 13′ 50″ 0.32937038 0.94420822 0.348780542 2.867132419 1.05906875 3.036971898 0.94421682 0.348834922 2.866685461 1.059066692 3.036697089 19° 14′ 00″ 0.32941610 0.94416891 0.348943688 2.865791918 1.059132521 3.035253419 0.941264 0.94416891 0.348943688 2.865791918 1.059132521 3.035253419 0.941264 0.94416891 0.348943688 2.865791918 1.059132521 3.0335675192 0.941264 0.94416891 0.348943685 2.864452534 1.059168363 3.034831770 0.32950756 0.94410500 0.349161241 2.864006321 1.059204216 3.0334681410246 0.34916419 0.3296487 0.94410500 0.349161241 2.864006321 1.0592204216 3.0335675192 0.9440500 0.34926062 2.86686294 1.0592204216 3.033263648 0.94382790 0.349382795 0.9440500 0.34938282 2.86268424 1.0592204216 3.033263648 0.94382790 0.34938279 0.9440500 0.34938282 2.86268424 1.0592204216 3.033263619 10° 15′ 20″ 0.3296365 0.9440500 0.34938282 2.862688294 1.059329802 3.03204488 0.9438708 0.34932093 2.86360231 1.05922148 3.033163788 0.94386069 0.34938203 2.8664824 0.059327569 3.0331838708 0.94386069 0.34938203 0.34938203 2.8664824 0.05933661 0.05933661 0.9438664 0.9438869 0.34995209 2.85555099 0.05945356 0.30308664 0.94388109 0.34992599 2.855555141 0.059345768 3.022368699	19° 12′ 10″		0.94436043	0.348291206	2.871160638	1.058917732	3.040322912
19° 12′ 40″ 0.32904978 0.94412589 0.34854301 2.869316777 1.058971388 3.039053855 19° 13′ 00″ 0.32904556 0.94426067 0.348563041 2.868921493 1.059007174 3.038208442 19° 13′ 10″ 0.32918712 0.94426471 0.348617414 2.86821493 1.059025071 3.038208442 19° 13′ 20″ 0.32923290 0.94426875 0.348617414 2.868474038 1.059025071 3.037785922 19° 13′ 40″ 0.3293245 0.94421682 0.34876164 2.867579501 1.059060875 3.0366911256 19° 13′ 40″ 0.3293745 0.94421682 0.348780542 2.867132419 1.059078782 3.036691106 0.9411080 0.348889304 2.866286270 1.059060875 3.035675192 0.348726164 2.866286527 0.59916692 3.036697089 19° 14′ 00″ 0.32941678 0.9441688 0.348889304 2.866238627 1.059114605 0.335675192 0.348741529 0.3489898073 2.86638627 1.059114605 0.3356757192 0.34916504 0.94412686 0.349052460 2.864898871 1.059163863 3.034410246 0.9441694 0.349916850 2.864452534 1.059168363 3.034410246 0.94410500 0.349161241 2.864066321 0.059204216 3.0335675719 0.94410500 0.349161241 2.864066321 0.059204216 3.0335675719 0.94410500 0.349161241 2.864066321 0.059204216 3.0335675719 0.94410500 0.349161241 2.864066321 0.059204216 3.03316419 0.94410500 0.349161241 2.864066321 0.059204216 3.033164819 0.94407040 0.349324425 2.866268424 0.059225960 3.0331683708 0.34985606 0.349878823 2.862222706 0.059278961 3.033183708 0.9410500 0.349161241 2.86686424 0.059258900 3.0331643619 0.9489700 0.349878823 2.862222706 0.059278961 3.033183708 0.9487860 0.3498860 0.34986870 0.359866140 0.05994756 0.0599476	19° 12′ 20″	0.32895821	0.94434448	0.348345569	2.870712560	1.058935614	3.039899768
19° 12′ 40″ 0.32904978 0.94431258 0.34854301 2.869316777 1.058971388 3.039053855 19° 13′ 00″ 0.32904556 0.94426067 0.348563041 2.868921493 1.059007174 3.038208442 19° 13′ 10″ 0.32918712 0.9442607 0.348617414 2.868921493 1.059005717 3.038208442 19° 13′ 20″ 0.32923290 0.94426875 0.348617414 2.868647038 1.059025071 3.037785922 19° 13′ 40″ 0.3293245 0.94421682 0.34876164 2.867579501 1.059060875 3.036641256 0.9411681 0.9441682 0.348780542 2.867132419 1.059076782 3.036691106 0.94418488 0.348889304 2.86623627 1.059166087 3.035675192 0.32941601 0.94418488 0.34884922 2.866685461 1.059076892 3.035675192 0.32941678 0.94416891 0.348943688 2.865791918 1.059105405 3.035675192 0.3295756 0.94415294 0.348989037 2.866485451 0.059168363 3.034410246 0.94416891 0.348943688 2.865791918 1.059168363 3.034410246 0.9441646 0.349052460 2.864898871 1.059168363 3.034410246 0.9441646 0.349052460 2.8644852534 1.059168363 3.034410246 0.9441696 0.349052460 2.8644852534 1.059168363 3.034410246 0.3296965 0.94407304 0.349270028 2.86613627 1.059204216 3.033567571 0.9157 00″ 0.32973642 0.94407304 0.349270028 2.8661777112 1.059204216 3.033567571 0.9157 00″ 0.32973642 0.94407304 0.349270028 2.8661777112 1.059258020 3.033164819 0.948902 0.349878823 2.862222706 1.059258020 3.033164819 0.948902 0.349878823 2.862222706 0.59275961 3.031883708 0.34985864 0.349878823 2.86686424 1.05993806 3.0318436052 0.34985864 0.349878823 2.86686424 1.05993806 3.031883708 0.349868491 0.34986879 0.349868491 2.859959970 1.059365712 3.03104252 0.34985080 0.34975963 2.859959970 1.059365712 3.03104252 0.34985080 0.349759663 2.859959970 1.059365712 3.02981667 0.3301481 0.94391306 0.349759663 2.859559971 0.059435561 0.029361629 0.33014819 0.94386905 0.34985891 0.35036649 2.85643637	19° 12′ 30″	0.32900400	0.94432853	0.348399934	2.870264606	1.058953500	3.039476749
19° 13′ 00″ 0.32914134 0.94428067 0.348563041 2.86821493 1.059025071 3.038208442 19° 13′ 10″ 0.32918712 0.94426471 0.348671788 2.868474038 1.059025071 3.037785922 19° 13′ 30″ 0.329223290 0.944216875 0.348671788 2.868026707 1.059046972 3.037365327 19° 13′ 40″ 0.32932445 0.94421682 0.348780542 2.867332419 1.059078782 3.036971256 19° 13′ 50″ 0.32932445 0.94421682 0.348780542 2.8666385461 1.05906692 3.036097089 19° 14′ 00″ 0.32941601 0.94418488 0.348889304 2.866238627 1.059114605 3.035675192 19° 14′ 10″ 0.32946178 0.94416891 0.348848688 2.8652781918 1.059132521 3.035253419 19° 14′ 40″ 0.32955333 0.94413696 0.349052460 2.864898871 1.059132521 3.035253419 19° 14′ 40″ 0.32955333 0.94412098 0.349106850 2.864898871 1.059186288 3.033481246 19° 14′ 50″ 0.32964487 0.94410500 0.349161241 2.864006321 1.059224083 3.033146419 15′ 10″ 0.32973642 0.94407304 0.349270028 2.86314324 1.059224083 3.032725391 19° 15′ 30″ 0.32982795 0.94402106 0.349378823 2.86222706 1.0592258020 3.031863708 19° 15′ 40″ 0.32987372 0.94402507 0.349378823 2.86222706 1.059225961 3.031883708 19° 15′ 40″ 0.32996526 0.94399308 0.349542029 2.860886294 1.05923802 3.030622112 19° 16′ 40″ 0.3300102 0.94397708 0.349542029 2.860886294 1.05934756 3.03106251 19° 16′ 40″ 0.33001102 0.94397708 0.349542029 2.860886294 1.05934756 3.0300622112 19° 16′ 40″ 0.330314831 0.94329070 0.34958649 2.859550993 1.05934756 3.03202827 19° 17′ 40″ 0.330318316 0.94382907 0.34958649 2.859550993 1.059545540 3.029361629 19° 17′ 40″ 0.33033712 0.9438605 0.34935609 0.34985603 0.34955000 0.34955000 0.34955603 0.4938708 0.3495606 0.34955000 0.34955000 0.34955000 0.34955000 0.34955000 0.34955000 0.34955000 0.34955000 0.34955000 0.34955000 0.34955000 0.34955000 0.359530879 0.59534756 0.09330219 0.	19° 12′ 40″	0.32904978	0.94431258	0.348454301	2.869816777	1.058971388	3.039053855
19° 13′ 10″ 0.32918712 0.94426471 0.348617414 2.868474038 1.059025071 3.037785922 19° 13′ 20″ 0.32922786 0.94424875 0.348761748 2.8662366707 1.059042972 3.0363527 19° 13′ 40″ 0.32932445 0.94421682 0.348780542 2.866738521 1.0590078782 3.036591196 19° 13′ 50″ 0.32937023 0.94420085 0.348780542 2.866238627 1.059006692 3.0365911910 19° 14′ 00″ 0.32941610 0.9441688 0.348834922 2.866238627 1.05910605 3.03567089 19° 14′ 10″ 0.32946178 0.94416891 0.348898304 2.866238627 1.05910505 3.035679189 19° 14′ 20″ 0.32950756 0.94415294 0.34898073 2.866238627 1.059105040 3.034831770 19° 14′ 40″ 0.32955333 0.94415294 0.34898073 2.866338627 1.0591050440 3.034831770 19° 14′ 50″ 0.32955333 0.94415294 0.348998073 2.866498871 1.059186288 3.0331988846 19° 14′ 50″ 0.32969910 0.94410500 0.349161241 2.864006321 1.059204216 3.033565771 19° 15′ 10″ 0.32973642 0.94405705 0.349324425 2.862668424 1.05922600 3.032304488 19° 15′ 20″ 0.32978219 0.94405705 0.34932425 2.8626286424 1.059228000 3.03230488 19° 15′ 40″ 0.32987372 0.94405705 0.3494378823 2.862222706 1.05927561 3.031883708 19° 15′ 50″ 0.32987372 0.94405705 0.3494378823 2.862222706 1.0592258020 3.031863052 19° 15′ 50″ 0.3300102 0.94397708 0.349487625 2.86048107 1.059934756 3.03104520 19° 16′ 40″ 0.33001102 0.94397708 0.34958042 2.859899570 1.059365712 3.02981667 19° 16′ 40″ 0.33031831 0.94392007 0.34975963 2.859106140 1.05941634 3.028941716 19° 16′ 50″ 0.33038366 0.9438690 0.349850402 2.85595093 1.059365712 3.02981667 19° 17′ 40″ 0.330328560 0.94381907 0.34975963 2.859106140 1.059941743 3.026843999 19° 17′ 40″ 0.33036679 0.94388104 0.349922908 2.857772319 1.059955408 3.022682716 19° 17′ 50″ 0.330366616 0.94378893 0.350038619 2.855643661 1.059505436 3.022516864	19° 12′ 50″	0.32909556	0.94429662	0.348508670	2.869369073	1.058989279	3.038631086
19° 13′ 20″ 0.32923290 0.94424875 0.348671788 2.868026707 1.0590642972 3.037363527 19° 13′ 30″ 0.32927868 0.94423279 0.348726164 2.867579501 1.05906875 3.036941256 1.059132491 1.059078782 3.03669110 19° 13′ 50″ 0.32937023 0.9442085 0.348780542 2.866685461 1.059096692 3.036097089 14′ 00″ 0.32941601 0.94418488 0.34889304 2.866238627 1.059114605 3.035675192 19° 14′ 00″ 0.3294178 0.94416891 0.348893803 2.866238627 1.059114605 3.035675192 19° 14′ 20″ 0.32950756 0.94415294 0.348998073 2.865345333 1.059150440 3.035253419 19° 14′ 30″ 0.32955333 0.94413696 0.349052460 2.864898871 1.059168363 3.03410246 19° 14′ 50″ 0.32964487 0.94410500 0.349161241 2.864006321 1.059204216 3.033567571 19° 15′ 00″ 0.32964487 0.94410500 0.349161241 2.864006321 1.059220416 3.033567571 19° 15′ 10″ 0.32978219 0.94407304 0.349270028 2.86314266 1.059220416 3.033275391 19° 15′ 30″ 0.32978219 0.94405705 0.349382445 2.86268424 1.059225002 3.032204488 19° 15′ 30″ 0.32987872 0.94405705 0.34938223 2.861777112 1.05923905 0.303204488 19° 15′ 40″ 0.32987372 0.94405070 0.349487625 2.861331641 1.059327802 3.03146305 19° 16′ 40″ 0.33001102 0.94397708 0.349542029 2.860886294 1.059239802 3.03146305 19° 16′ 40″ 0.33001102 0.94397708 0.349542029 2.860886294 1.059328802 3.030201827 19° 16′ 40″ 0.33014831 0.94392907 0.34975663 2.8595106140 1.059405540 3.02981716 19° 16′ 40″ 0.33003741 0.94388104 0.34997525 2.85955093 1.05938671 3.02981716 19° 16′ 40″ 0.33003742 0.94388104 0.34997525 2.85955093 1.05938671 3.02981716 19° 17′ 00″ 0.33003741 0.94388104 0.34997327 2.85683721 1.059947355 0.30201827 19° 17′ 00″ 0.33003741 0.943880095 0.34985649 2.85595061 1.059947355 0.02763266 19° 18′ 00″ 0.33005690 0.94388104 0.34997327 2.85683271 1.059947355 0.02763266 19° 18′ 00″ 0.33	19° 13′ 00″	0.32914134	0.94428067	0.348563041	2.868921493	1.059007174	3.038208442
19° 13′ 30″ 0.32927868 0.94423279 0.348726164 2.867579501 1.059060875 3.036941256 19° 13′ 40″ 0.32932445 0.94421682 0.348780542 2.86732419 1.059078782 3.036519110 0.9418488 0.348834922 2.8666386461 1.05906692 3.036097089 19° 14′ 00″ 0.32941601 0.94416881 0.348834930 2.866238627 1.059114605 3.035675192 19° 14′ 10″ 0.32946178 0.94416891 0.348943688 2.866791918 1.059132521 3.0352534119 14′ 20″ 0.3295333 0.94413696 0.349952460 2.86488871 1.059168363 3.034410246 19° 14′ 40″ 0.3295333 0.94413696 0.349052460 2.86488871 1.059168363 3.034410246 19° 14′ 50″ 0.32969065 0.94408902 0.34916850 2.864406321 1.059204216 3.033567571 19° 15′ 00″ 0.32969065 0.94408902 0.349215633 2.86356231 1.059222148 3.033146419 19° 15′ 10″ 0.32973642 0.94407304 0.349270028 2.86314266 1.059240083 3.032275391 19° 15′ 20″ 0.32987372 0.94405705 0.349342425 2.862668424 1.059258020 3.032304488 19° 15′ 50″ 0.32982795 0.944050507 0.349438223 2.861777112 1.05923905 3.031463052 19° 15′ 50″ 0.32987372 0.94402507 0.349437625 2.861331641 1.05931852 3.031042520 19° 16′ 00″ 0.32996526 0.94399308 0.349562822 2.86086294 1.059329802 3.030622112 19° 16′ 30″ 0.33001102 0.94397708 0.349456252 2.86086294 1.059334675 3.0300622112 19° 16′ 30″ 0.33014831 0.94387505 0.349759633 2.85916140 1.05941634 3.028941716 19° 16′ 50″ 0.33014831 0.94387505 0.349759633 2.85916140 1.05941634 3.028941716 19° 17′ 00″ 0.33023948 0.94387505 0.349759633 2.85516803 1.059325745 3.022768276 19° 17′ 00″ 0.33033136 0.94386503 0.349759625 2.859550993 1.05934756 3.022624269 19° 17′ 00″ 0.33033136 0.94386503 0.349759625 2.855518002 1.05994756 3.022768276 19° 17′ 00″ 0.33033136 0.94386503 0.349759620 2.8556438607 1.05994745 0.026684999 19° 17′ 00″ 0.33005616 0.94375897 0.350086169 2.85542809 1.0599543	19° 13′ 10″	0.32918712	0.94426471	0.348617414	2.868474038	1.059025071	3.037785922
19° 13′ 40″ 0.32932445 0.94421682 0.348780542 2.867132419 1.059078782 3.036519110 19° 14′ 00″ 0.32941601 0.94418488 0.348889304 2.86628627 1.059114605 3.035675192 19° 14′ 10″ 0.32946178 0.94416891 0.348849368 2.865791918 1.059132521 3.035253419 19° 14′ 20″ 0.32950756 0.94415294 0.348989363 2.865345333 1.059150440 3.034831704 19° 14′ 40″ 0.32959710 0.94412098 0.349052460 2.866488871 1.059168363 3.034410246 19° 14′ 40″ 0.32959910 0.94412098 0.349106855 2.86445234 1.059186288 3.0334888940 19° 14′ 50″ 0.3296487 0.94410500 0.349161241 2.864006321 1.059204216 3.033567571 19° 15′ 00″ 0.32973642 0.94407304 0.349215633 2.86314626 1.059204216 3.0333657571 19° 15′ 30″ 0.32973642 0.94407304 0.349270028 2.86268424 1.059226083 3.032725391 19° 15′ 30″ 0.32982795 0.94404106 0.349378823 2.862222706 1.05922790083 3.032204488 19° 15′ 30″ 0.32983732 0.94405705 0.349438223 2.861777112 1.059229905 3.031883708 19° 15′ 40″ 0.32983732 0.9440507 0.34943823 2.861777112 1.05923905 3.031643052 19° 16′ 00″ 0.32996526 0.94399308 0.34954209 2.860886294 1.059328802 3.030622712 19° 16′ 00″ 0.33005679 0.94396108 0.34955453 2.860441070 1.05934756 3.030201827 19° 16′ 40″ 0.33005679 0.94396108 0.34955452 2.859651040 1.059401643 0.32981716 10° 16′ 50″ 0.3301483 0.94392907 0.34975963 2.85910640 1.059401643 0.329841716 10° 16′ 50″ 0.3301488 0.943892907 0.349759663 2.859616410 1.059401643 0.20841716 19° 16′ 50″ 0.33033136 0.943892907 0.349759663 2.859616410 1.059401643 0.20841716 19° 16′ 50″ 0.33033136 0.94389095 0.34985608 2.855751061 0.1059401643 0.94387508 0.34985030 2.855751061 0.1059401643 0.94387508 0.34985030 2.8555106400 1.059401643 0.208684999 19° 17′ 00″ 0.33035139 0.94386095 0.34986649 2.855086410 1.059941746 3.022688649 19° 18′ 00″ 0.33066701 0	19° 13′ 20″	0.32923290	0.94424875	0.348671788	2.868026707	1.059042972	3.037363527
19° 14' 00" 0.32941601 0.94418488 0.348834922 2.8666885461 1.059096692 3.036097089 19° 14' 00" 0.32941601 0.94418488 0.34888304 2.866238627 1.059114605 3.035675192 1.059114607 3.035675192 1.059182521 3.035253419 19° 14' 20" 0.32955756 0.94415294 0.348998073 2.865345333 1.059150440 3.035253419 14' 40" 0.32955333 0.94413696 0.349052460 2.864858371 1.059168363 3.034410246 0.34916240 2.864406321 1.059204216 3.033567571 0.94415090 0.349161241 2.864006321 1.059204216 3.033567571 0.94407000 0.32969065 0.94408902 0.349215633 2.863560231 0.59222148 3.033146419 0.99157 0.0000000000000000000000000000000000	19° 13′ 30″		0.94423279	0.348726164	2.867579501	1.059060875	3.036941256
19° 14' 00" 0.32941611 0.94418488 0.348889304 2.866238627 1.059114605 3.035675192 19° 14' 10" 0.32946178 0.94416891 0.3488943688 2.866791918 1.059132521 3.035253419 19° 14' 20" 0.32950756 0.94413694 0.348998073 2.865345333 1.059150440 3.034831770 0.32959333 0.94413696 0.349052460 2.864898871 1.059168363 3.034810246 19° 14' 40" 0.32959910 0.94410908 0.349106850 2.864452534 1.059186288 3.033988846 19° 14' 50" 0.32964487 0.94410500 0.349166850 2.864452534 1.059240416 3.0335675192 0.32969065 0.94407304 0.349270028 2.86314266 1.059240083 3.03214519 0.32978219 0.94407304 0.349270028 2.86314266 1.059240083 3.03216419 0.32978219 0.94404106 0.349378823 2.8626268424 1.059258020 3.032304488 19° 15' 30" 0.32987372 0.94402507 0.349437823 2.862222706 1.059275961 3.031863708 19° 16' 00" 0.32996526 0.94399308 0.349584029 2.860486294 1.059329802 3.031042520 19° 16' 00" 0.33001102 0.94397708 0.349584029 2.860486294 1.059329802 3.030622112 19° 16' 00" 0.33001102 0.94397708 0.34958643 2.859959970 1.059345671 3.029781667 19° 16' 30" 0.33014831 0.94392907 0.349759663 2.85964510 1.059401634 3.0298611629 19° 10' 0" 0.33023984 0.94389705 0.349864891 2.858661410 1.059401634 3.028941716 19° 17' 00" 0.33023986 0.9438104 0.349922908 2.85732799 1.059435515 3.027682716 19° 17' 30" 0.3304288 0.94389705 0.350086169 2.856439607 1.059545540 3.02263296 19° 17' 50" 0.3304288 0.94386905 0.350086169 2.856439607 1.059545540 3.02263296 19° 18' 40" 0.3306516 0.94376890 0.350036169 2.856439607 1.059545446 3.0225786849 19° 18' 30" 0.33065961 0.94376890 0.350036169 2.856439607 1.059545446 3.02257868049 19° 18' 40" 0.3306516 0.94376890 0.350036169 2.855439607 1.059545446 3.022578640 19° 18' 00" 0.3306616 0.94376890 0.350036169 2.855377502 1.05963435 3.022439806	19° 13′ 40″		0.94421682	0.348780542	2.867132419	1.059078782	3.036519110
19° 14′ 10″ 0.32946178 0.94416891 0.348943688 2.865791918 1.059132521 3.035253419 19° 14′ 20″ 0.32950756 0.94413696 0.34898073 2.866345333 1.059186363 3.034410246 0.34952460 2.864898871 1.059186363 3.034410246 0.32959910 0.94412098 0.349106850 2.864482534 1.059186288 3.033988846 19° 14′ 50″ 0.32964487 0.94410500 0.349106850 2.864452534 1.059186288 3.03348846 0.349106850 0.349161241 2.864006321 1.059204216 3.033567571 19° 15′ 00″ 0.32973642 0.94407304 0.349270028 2.863140266 1.059220408 3.0331725391 0.32978219 0.94405705 0.349324425 2.862668424 1.05924083 3.0332725391 0.32982795 0.94402507 0.349332823 2.862222706 1.059275961 3.031883708 1.9° 15′ 50″ 0.32987372 0.94402507 0.349433223 2.8662222706 1.059275961 3.031863052 1.9° 16′ 00″ 0.33001102 0.94397708 0.349542029 2.860886294 1.059329802 3.031042520 0.349650842 2.85995970 0.593475756 3.03201827 1.9° 16′ 30″ 0.33014831 0.9439207 0.349759663 2.859905970 1.059345756 3.029361629 19° 16′ 40″ 0.33014831 0.9439207 0.349759663 2.859905970 1.059345712 3.029781667 10° 10′ 0.33023984 0.94389505 0.349850849 2.858661410 1.059401634 3.028941716 1.9° 17′ 00″ 0.33023884 0.94389705 0.349850849 2.858661410 1.059401634 3.028941716 1.9° 17′ 00″ 0.33023864 0.94389705 0.349850849 2.855732299 1.059435515 3.027682716 1.9° 17′ 00″ 0.33032384 0.94389005 0.349850849 2.855732299 1.05943556 3.02262259 1.9° 17′ 00″ 0.3304286 0.9438693 0.34992208 2.85732299 1.05943556 3.02262279 1.07943756 3.02262286 1.099437588 0.34992208 2.855772319 1.05943554 3.02262259 1.099437568 0.9438693 0.350303877 2.85533497 1.059545446 3.022578649 1.099437689 0.350086169 2.856439607 1.059559474 3.02263266 1.9° 17′ 00″ 0.33065015 0.94376890 0.350036169 2.855633949 2.85518002 1.059563435 3.022439366 1.9° 18′ 00″ 0.33065015			0.94420085	0.348834922	2.866685461	1.059096692	3.036097089
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19° 19′ 30″ 0.33092617 0.94365665 0.350684937 2.851562455 1.059707471 3.021822039 19° 19′ 40″ 0.33097192 0.94364060 0.350739382 2.851119813 1.059725490 3.021404340		0.33083467	0.94368873	0.350576054	2.852448106	1.059671444	3.022657804
19° 19′ 40″ 0.33097192 0.94364060 0.350739382 2.851119813 1.059725490 3.021404340		0.33088042	0.94367269	0.350630494	2.852005219	1.059689456	3.022239860
		0.33092617	0.94365665	0.350684937	2.851562455	1.059707471	3.021822039
19° 19′ 50″ 0.33101767 0.94362456 0.350793828 2.850677293 1.059743511 3.020986764	19° 19′ 50″	0.33101767	0.94362456	0.350793828	2.850677293	1.059743511	3.020986764

145 19° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
19° 20′ 00″	0.33106342	0.94360851	0.350848276	2.850234896	1.059761536	3.020569311
19° 20′ 10″	0.33110916	0.94359245	0.350902726	2.849792621	1.059779564	3.020367311
19° 20′ 20″	0.33115491	0.74357243	0.350957178	2.849350468	1.059797594	3.019734771
19° 20′ 30″						
19° 20′ 30″ 19° 20′ 40″	0.33120066	0.94356035	0.351011632	2.848908437	1.059815628	3.019317685
	0.33124640	0.94354429	0.351066088	2.848466528	1.059833665	3.018900721
19° 20′ 50″	0.33129215	0.94352823	0.351120545	2.848024742	1.059851705	3.018483879
19° 21′ 00″	0.33133789	0.94351216	0.351175005	2.847583077	1.059869749	3.018067160
19° 21′ 10″	0.33138363	0.94349610	0.351229466	2.847141535	1.059887795	3.017650563
19° 21′ 20″	0.33142937	0.94348003	0.351283929	2.846700114	1.059905844	3.017234087
19° 21′ 30″	0.33147511	0.94346396	0.351338394	2.846258815	1.059923897	3.016817734
19° 21′ 40″	0.33152085	0.94344789	0.351392860	2.845817637	1.059941952	3.016401503
19° 21′ 50″	0.33156659	0.94343182	0.351447329	2.845376582	1.059960011	3.015985393
19° 22′ 00″	0.33161233	0.94341574	0.351501800	2.844935648	1.059978073	3.015569406
19° 22′ 10″	0.33165807	0.94339966	0.351556272	2.844494836	1.059996138	3.015153540
19° 22′ 20″	0.33170381	0.94338358	0.351610746	2.844054145	1.060014206	3.014737796
19° 22′ 30″	0.33174954	0.94336750	0.351665222	2.843613576	1.060032277	3.014322174
19° 22′ 40″	0.33179528	0.94335142	0.351719700	2.843173128	1.060050351	3.013906674
19° 22′ 50″	0.33184101	0.94333533	0.351774180	2.842732802	1.060068429	3.013491295
19° 23′ 00″	0.33188675	0.94331924	0.351828661	2.842292597	1.060086509	3.013076038
19° 23′ 10″	0.33193248	0.94330315	0.351883145	2.841852514	1.060104593	3.012660902
19° 23′ 20″	0.33197821	0.94328705	0.351937630	2.841412551	1.060122680	3.012245887
19° 23′ 30″	0.33202394	0.94327096	0.351992118	2.840972710	1.060140769	3.011830994
19° 23′ 40″	0.33206967	0.94325486	0.352046607	2.840532990	1.060158862	3.011416223
19° 23′ 50″	0.33211540	0.94323876	0.352101098	2.840093391	1.060176958	3.011001573
19° 24′ 00″	0.33216113	0.94322266	0.352155590	2.839653913	1.060195057	3.010587043
19° 24′ 10″	0.33220686	0.94320655	0.352210085	2.839214556	1.060213160	3.010172636
19° 24′ 20″	0.33225259	0.94319045	0.352264581	2.838775320	1.060231265	3.009758349
19° 24′ 30″	0.33229831	0.94317434	0.352319080	2.838336205	1.060249373	3.009344183
19° 24′ 40″	0.33234404	0.94315823	0.352373580	2.837897211	1.060267485	3.008930139
19° 24′ 50″	0.33238977	0.94314211	0.352428082	2.837458337	1.060285600	3.008516215
19° 25′ 00″	0.33243549	0.94312600	0.352482586	2.837019585	1.060303718	3.008102413
19° 25′ 10″	0.33248121	0.94310988	0.352537092	2.836580953	1.060321838	3.007688731
19° 25′ 20″ 19° 25′ 30″	0.33252694	0.94309376	0.352591600	2.836142441	1.060339963	3.007275170
	0.33257266	0.94307764	0.352646109	2.835704050	1.060358090	3.006861730
19° 25′ 40″	0.33261838	0.94306151	0.352700621	2.835265780	1.060376220	3.006448410
19° 25′ 50″	0.33266410	0.94304538	0.352755134	2.834827630	1.060394353	3.006035211
19° 26′ 00″	0.33270982	0.94302925	0.352809649	2.834389601	1.060412490	3.005622133
19° 26′ 10″	0.33275554	0.94301312	0.352864166	2.833951692	1.060430629	3.005209176
19° 26′ 20″	0.33280126	0.94299699	0.352918685	2.833513903	1.060448772	3.004796339
19° 26′ 30″	0.33284697	0.94298085	0.352973206	2.833076234	1.060466918	3.004383622
19° 26′ 40″	0.33289269	0.94296472	0.353027728	2.832638686	1.060485067	3.003971026
19° 26′ 50″	0.33293841	0.94294858	0.353082253	2.832201258	1.060503219	3.003558550
19° 27′ 00″	0.33298412	0.94293243	0.353136779	2.831763950	1.060521374	3.003146195
19° 27′ 10″	0.33302984	0.94291629	0.353191307	2.831326762	1.060539532	3.002733960
19° 27′ 20″	0.33307555	0.94290014	0.353245837	2.830889694	1.060557694	3.002321845
19° 27′ 30″	0.33312126	0.94288399	0.353300369	2.830452746	1.060575858	3.001909850
19° 27′ 40″	0.33316697	0.94286784	0.353354903	2.830015918	1.060594026	3.001497975
19° 27′ 50″	0.33321269	0.94285169	0.353409439	2.829579210	1.060612196	3.001086221

146 19° 27′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
19° 28′ 00″	0.33325840	0.94283553	0.353463976	2.829142621	1.060630370	3.000674586
19° 28′ 10″	0.33330411	0.94281937	0.353518516	2.828706152	1.060648547	3.000263071
19° 28′ 20″	0.33334981	0.94280321	0.353573057	2.828269803	1.060666727	2.999851677
19° 28′ 30″	0.33339552	0.94278705	0.353627600	2.827833574	1.060684911	2.999440402
19° 28′ 40″	0.33344123	0.94277089	0.353682145	2.827397464	1.060703097	2.999029247
19° 28′ 50″	0.33348694	0.94275472	0.353736692	2.826961474	1.060721286	2.998618211
19° 29′ 00″	0.33353264	0.94273855	0.353791241	2.826525603	1.060739479	2.998207296
19° 29′ 10″	0.33357835	0.94272238	0.353845791	2.826089852	1.060757675	2.997796500
19° 29′ 20″	0.33362405	0.94270621	0.353900344	2.825654220	1.060775873	2.997385823
19° 29′ 30″	0.33366975	0.94269003	0.353954898	2.825218708	1.060794075	2.996975266
19° 29′ 40″	0.33371546	0.94267385	0.354009454	2.824783314	1.060812280	2.996564829
19° 29′ 50″	0.33376116	0.94265767	0.354064013	2.824348040	1.060830488	2.996154511
19° 30′ 00″	0.33380686	0.94264149	0.354118573	2.823912886	1.060848700	2.995744312
19° 30′ 10″	0.33385256	0.94262531	0.354173134	2.823477850	1.060866914	2.995334233
19° 30′ 20″	0.33389826	0.94260912	0.354227698	2.823042933	1.060885131	2.994924273
19° 30′ 30″	0.33394396	0.94259293	0.354282264	2.822608136	1.060903352	2.994514433
19° 30′ 40″	0.33398966	0.94257674	0.354336831	2.822173457	1.060921576	2.994104711
19° 30′ 50″	0.33403535	0.94256055	0.354391401	2.821738897	1.060939803	2.993695109
19° 31′ 00″	0.33408105	0.94254435	0.354445972	2.821304457	1.060958033	2.993285626
19° 31′ 10″	0.33412674	0.94252815	0.354500545	2.820870135	1.060976266	2.992876262
19° 31′ 20″	0.33417244	0.94251195	0.354555120	2.820435931	1.060994502	2.992467016
19° 31′ 30″	0.33421813	0.94249575	0.354609697	2.820001847	1.061012741	2.992057890
19° 31′ 40″	0.33426383	0.94247955	0.354664276	2.819567881	1.061030984	2.991648883
19° 31′ 50″	0.33430952	0.94246334	0.354718856	2.819134034	1.061049229	2.991239994
19° 32′ 00″	0.33435521	0.94244713	0.354773439	2.818700306	1.061067478	2.990831224
19° 32′ 10″	0.33440090	0.94243092	0.354828023	2.818266696	1.061085730	2.990422573
19° 32′ 20″	0.33444659	0.94241471	0.354882609	2.817833204	1.061103985	2.990014041
19° 32′ 30″	0.33449228	0.94239849	0.354937197	2.817399831	1.061122243	2.989605627
19° 32′ 40″	0.33453797	0.94238227	0.354991787	2.816966576	1.061140504	2.989197332
19° 32′ 50″	0.33458366	0.94236605	0.355046379	2.816533440	1.061158768	2.988789156
19° 33′ 00″	0.33462934	0.94234983	0.355100973	2.816100421	1.061177036	2.988381097
19° 33′ 10″	0.33467503	0.94233361	0.355155569	2.815667521	1.061195306	2.987973158
19° 33′ 20″	0.33472071	0.94231738	0.355210166	2.815234740	1.061213580	2.987565336
19° 33′ 30″	0.33476640	0.94230115	0.355264766	2.814802076	1.061231857	2.987157633
19° 33′ 40″	0.33481208	0.94228492	0.355319367	2.814369530	1.061250137	2.986750049
19° 33′ 50″	0.33485776	0.94226869	0.355373970	2.813937103	1.061268420	2.986342582
19° 34′ 00″	0.33490345	0.94225245	0.355428575	2.813504793	1.061286706	2.985935234
19° 34′ 10″	0.33494913	0.94223621	0.355483182	2.813072602	1.061304995	2.985528004
19° 34′ 20″	0.33499481	0.94221997	0.355537791	2.812640528	1.061323288	2.985120892
19° 34′ 30″	0.33504049	0.94220373	0.355592402	2.812208572	1.061341583	2.984713898
19° 34′ 40″	0.33508617	0.94218749	0.355647014	2.811776734	1.061359882	2.984307022
19° 34′ 50″	0.33513184	0.94217124	0.355701629	2.811345013	1.061378184	2.983900263
19° 35′ 00″	0.33517752	0.94215499	0.355756245	2.810913410	1.061396489	2.983493623
19° 35′ 10″	0.33522320	0.94213874	0.355810863	2.810481925	1.061414797	2.983087101
19° 35′ 20″	0.33526887	0.94212249	0.355865483	2.810050557	1.061433108	2.982680696
19° 35′ 30″	0.33531455	0.94210623	0.355920105	2.809619307	1.061451422	2.982274409
19° 35′ 40″	0.33536022	0.94208997	0.355974729	2.809188175	1.061469740	2.981868240
19° 35′ 50″	0.33540590	0.94207371	0.356029355	2.808757159	1.061488060	2.981462188

147 19° 35′ 50″

<u> x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
19° 36′ 00″	0.33545157	0.94205745	0.356083983	2.808326261	1.061506384	2.981056254
19° 36′ 10″	0.33549724	0.94204119	0.356138612	2.807895481	1.061524711	2.980650438
19° 36′ 20″	0.33554291	0.94202492	0.356193244	2.807464818	1.061543041	2.980244739
19° 36′ 30″	0.33558858	0.94200865	0.356247877	2.807034272	1.061561374	2.979839157
19° 36′ 40″	0.33563425	0.94199238	0.356302512	2.806603843	1.061579710	2.979433693
19° 36′ 50″	0.33567992	0.94197611	0.356357149	2.806173531	1.061598049	2.979028346
19° 37′ 00″	0.33572559	0.94195983	0.356411788	2.805743336	1.061616392	2.978623116
19° 37′ 10″	0.33577126	0.94194356	0.356466429	2.805313259	1.061634737	2.978218004
19° 37′ 20″	0.33581692	0.94192728	0.356521072	2.804883298	1.061653086	2.977813009
19° 37′ 30″	0.33586259	0.94191099	0.356575717	2.804453454	1.061671438	2.977408131
19° 37′ 40″	0.33590825	0.94189471	0.356630363	2.804023727	1.061689793	2.977003370
19° 37′ 50″	0.33595392	0.94187842	0.356685012	2.803594117	1.061708151	2.976598726
19° 38′ 00″	0.33599958	0.94186214	0.356739662	2.803164624	1.061726512	2.976194199
19° 38′ 10″	0.33604524	0.94184584	0.356794314	2.802735247	1.061744876	2.975789788
19° 38′ 20″	0.33609090	0.94182955	0.356848968	2.802305987	1.061763244	2.975385495
19° 38′ 30″	0.33613656	0.94181326	0.356903624	2.801876844	1.061781615	2.974981319
19° 38′ 40″	0.33618222	0.94179696	0.356958282	2.801447817	1.061799988	2.974577259
19° 38′ 50″	0.33622788	0.94178066	0.357012942	2.801018907	1.061818365	2.974173317
19° 39′ 00″	0.33627354	0.94176436	0.357067603	2.800590113	1.061836745	2.973769490
19° 39′ 10″	0.33631920	0.94174805	0.357122267	2.800161436	1.061855128	2.973365781
19° 39′ 20″	0.33636486	0.94173175	0.357176932	2.799732875	1.061873515	2.972962188
19° 39′ 30″	0.33641051	0.94171544	0.357231600	2.799304430	1.061891904	2.972558711
19° 39′ 40″	0.33645617	0.94169913	0.357286269	2.798876102	1.061910297	2.972155352
19° 39′ 50″	0.33650182	0.94168281	0.357340940	2.798447890	1.061928692	2.971752108
19° 40′ 00″	0.33654748	0.94166650	0.357395613	2.798019794	1.061947091	2.971348981
19° 40′ 10″	0.33659313	0.94165018	0.357450288	2.797591814	1.061965493	2.970945970
19° 40′ 20″	0.33663878	0.94163386	0.357504965	2.797163950	1.061983898	2.970543076
19° 40′ 30″	0.33668443	0.94161754	0.357559644	2.796736203	1.062002306	2.970140298
19° 40′ 40″	0.33673008	0.94160122	0.357614324	2.796308571	1.062020718	2.969737635
19° 40′ 50″	0.33677573	0.94158489	0.357669007	2.795881055	1.062039132	2.969335090
19° 41′ 00″	0.33682138	0.94156856	0.357723691	2.795453655	1.062057550	2.968932660
19° 41′ 10″	0.33686703	0.94155223	0.357778377	2.795026371	1.062075971	2.968530346
19° 41′ 20″ 19° 41′ 30″	0.33691268	0.94153590	0.357833066	2.794599203	1.062094395	2.968128148
19° 41′ 30″ 19° 41′ 40″	0.33695832	0.94151956	0.357887756	2.794172150	1.062112822	2.967726066
19° 41′ 40″ 19° 41′ 50″	0.33700397	0.94150323 0.94148689	0.357942448	2.793745213	1.062131252	2.967324100
19° 42′ 00″	0.33704961 0.33709526		0.357997142 0.358051837	2.793318392 2.792891687	1.062149685	2.966922250 2.966520516
19° 42′ 10″	0.33714090	0.94147054 0.94145420	0.358106535	2.792465096	1.062168121 1.062186561	2.966118898
19° 42′ 20″	0.33718654	0.94143420	0.358161235	2.792038622	1.062186361	2.965717395
19° 42′ 30″	0.33723219	0.94142151	0.358215936	2.791612263	1.062203004	2.965316008
19° 42′ 40″	0.33723217	0.94142131	0.358270640	2.791186019	1.062243430	2.964914736
19° 42′ 50″	0.33732347	0.94138880	0.358325345	2.790759890	1.062260351	2.964513580
19° 43′ 00″	0.33736911	0.74138880	0.358380052	2.790333877	1.062278806	2.964112539
19° 43′ 10″	0.33741475	0.94135609	0.358434761	2.789907979	1.062278808	2.963711614
19° 43′ 20″	0.33746038	0.94133973	0.358489472	2.789482197	1.062277264	2.963310805
19° 43′ 30″	0.33750602	0.94132337	0.358544185	2.789056529	1.062334191	2.962910110
19° 43′ 40″	0.33755166	0.94130701	0.358598900	2.788630977	1.062352658	2.962509531
19° 43′ 50″	0.33759729	0.94129064	0.358653616	2.788205539	1.062371129	2.962109068
17 13 30	0.3313/12/	5.71127004	2.330033010	2.7 00203337	1,0023/112/	2.702107000

148 19° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
19° 44′ 00″	0.33764293	0.94127427	0.358708335	2.787780217	1.062389603	2.961708719
19° 44′ 10″	0.33768856	0.94125790	0.358763056	2.787355009	1.062367603	2.961308486
19° 44′ 10″	0.33773419	0.94124153	0.358817778	2.786929917	1.062406061	2.960908368
19° 44′ 30″						2.960508364
	0.33777983	0.94122515	0.358872502	2.786504939	1.062445045	
19° 44′ 40″	0.33782546	0.94120878	0.358927228	2.786080076	1.062463531	2.960108476
19° 44′ 50″	0.33787109	0.94119240	0.358981957	2.785655328	1.062482021	2.959708703
19° 45′ 00″	0.33791672	0.94117602	0.359036687	2.785230695	1.062500514	2.959309045
19° 45′ 10″	0.33796235	0.94115963	0.359091419	2.784806176	1.062519010	2.958909501
19° 45′ 20″	0.33800798	0.94114325	0.359146152	2.784381772	1.062537509	2.958510073
19° 45′ 30″	0.33805360	0.94112686	0.359200888	2.783957482	1.062556012	2.958110759
19° 45′ 40″	0.33809923	0.94111047	0.359255626	2.783533307	1.062574517	2.957711560
19° 45′ 50″	0.33814486	0.94109407	0.359310365	2.783109247	1.062593026	2.957312476
19° 46′ 00″	0.33819048	0.94107768	0.359365107	2.782685301	1.062611538	2.956913506
19° 46′ 10″	0.33823611	0.94106128	0.359419850	2.782261469	1.062630053	2.956514651
19° 46′ 20″	0.33828173	0.94104488	0.359474595	2.781837751	1.062648571	2.956115910
19° 46′ 30″	0.33832735	0.94102848	0.359529343	2.781414148	1.062667092	2.955717284
19° 46′ 40″	0.33837297	0.94101208	0.359584092	2.780990659	1.062685616	2.955318772
19° 46′ 50″	0.33841859	0.94099567	0.359638843	2.780567284	1.062704144	2.954920375
19° 47′ 00″	0.33846421	0.94097926	0.359693596	2.780144024	1.062722674	2.954522092
19° 47′ 10″	0.33850983	0.94096285	0.359748350	2.779720877	1.062741208	2.954123923
19° 47′ 20″	0.33855545	0.94094644	0.359803107	2.779297845	1.062759745	2.953725869
19° 47′ 30″	0.33860107	0.94093003	0.359857866	2.778874926	1.062778285	2.953327929
19° 47′ 40″	0.33864669	0.94091361	0.359912626	2.778452121	1.062796828	2.952930103
19° 47′ 50″	0.33869230	0.94089719	0.359967389	2.778029431	1.062815375	2.952532391
19° 48′ 00″	0.33873792	0.94088077	0.360022153	2.777606854	1.062833924	2.952134793
19° 48′ 10″	0.33878354	0.94086435	0.360076919	2.777184391	1.062852477	2.951737309
19° 48′ 20″	0.33882915	0.94084792	0.360131688	2.776762042	1.062871033	2.951339939
19° 48′ 30″	0.33887476	0.94083149	0.360186458	2.776339806	1.062889592	2.950942683
19° 48′ 40″	0.33892037	0.94081506	0.360241230	2.775917684	1.062908154	2.950545541
19° 48′ 50″	0.33896599	0.94079863	0.360296004	2.775495676	1.062926719	2.950148512
19° 49′ 00″	0.33901160	0.94078219	0.360350779	2.775073781	1.062945288	2.949751598
19° 49′ 10″	0.33905721	0.94076576	0.360405557	2.774651999	1.062963859	2.949354797
19° 49′ 20″	0.33910282	0.94074932	0.360460337	2.774230332	1.062982434	2.948958110
19° 49′ 30″	0.33914842	0.94073288	0.360515119	2.773808777	1.063001012	2.948561536
19° 49′ 40″	0.33919403	0.94071643	0.360569902	2.773387336	1.063019593	2.948165076
19° 49′ 50″	0.33923964	0.94069999	0.360624687	2.772966008	1.063038177	2.947768730
19° 50′ 00″	0.33928525	0.94068354	0.360679475	2.772544794	1.063056764	2.947372497
19° 50′ 10″	0.33933085	0.94066709	0.360734264	2.772123693	1.063075354	2.946976377
19° 50′ 20″	0.33937645	0.94065064	0.360789055	2.771702704	1.063093948	2.946580371
19° 50′ 30″	0.33942206	0.94063418	0.360843848	2.771281829	1.063112545	2.946184478
19° 50′ 40″	0.33946766	0.94061773	0.360898643	2.770861068	1.063131145	2.945788698
19° 50′ 50″	0.33951326	0.94060127	0.360953440	2.770440419	1.063149748	2.945393032
19° 51′ 00″	0.33955886	0.94058481	0.361008239	2.770019883	1.063168354	2.944997479
19° 51′ 10″	0.33960446	0.94056834	0.361063040	2.769599460	1.063186963	2.944602039
19° 51′ 20″	0.33965006	0.94055188	0.361117842	2.769179150	1.063205576	2.944206712
19° 51′ 30″	0.33969566	0.94053541	0.361172647	2.768758953	1.063224191	2.943811498
19° 51′ 40″	0.33974126	0.94051894	0.361227454	2.768338868	1.063242810	2.943416398
19° 51′ 50″	0.33978686	0.94050247	0.361282262	2.767918897	1.063261432	2.943021410

149 19° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
19° 52′ 00″	0.33983246	0.94048599	0.361337072	2.767499038	1.063280057	2.942626535
19° 52′ 10″	0.33987805	0.94046952	0.361391885	2.767079291	1.063298685	2.942231773
19° 52′ 20″	0.33992365	0.94045304	0.361446699	2.766659658	1.063317317	2.941837123
19° 52′ 30″	0.33996924	0.94043656	0.361501515	2.766240136	1.063335951	2.941442587
19° 52′ 40″	0.34001483	0.94042007	0.361556333	2.765820728	1.063354589	2.941048163
19° 52′ 50″	0.34006043	0.94040359	0.361611153	2.765401432	1.063373230	2.940653852
19° 53′ 00″	0.34010602	0.94038710	0.361665975	2.764982248	1.063391874	2.940259654
19° 53′ 10″	0.34015161	0.94037061	0.361720799	2.764563176	1.063410521	2.939865568
19° 53′ 20″	0.34019720	0.94035412	0.361775624	2.764144217	1.063429171	2.939471594
19° 53′ 30″	0.34024279	0.94033762	0.361830452	2.763725371	1.063447825	2.939077734
19° 53′ 40″	0.34028838	0.94032113	0.361885282	2.763306636	1.063466481	2.938683985
19° 53′ 50″	0.34033396	0.94030463	0.361940113	2.762888014	1.063485141	2.938290349
19° 54′ 00″	0.34037955	0.94028813	0.361994946	2.762469503	1.063503804	2.937896825
19° 54′ 10″	0.34042514	0.94027162	0.362049782	2.762051105	1.063522470	2.937503414
19° 54′ 20″	0.34047072	0.94025512	0.362104619	2.761632819	1.063541139	2.937110115
19° 54′ 30″	0.34051631	0.94023861	0.362159458	2.761214645	1.063559812	2.936716928
19° 54′ 40″	0.34056189	0.94022210	0.362214299	2.760796583	1.063578487	2.936323853
19° 54′ 50″	0.34060747	0.94020559	0.362269142	2.760378632	1.063597166	2.935930890
19° 55′ 00″	0.34065305	0.94018907	0.362323987	2.759960794	1.063615848	2.935538040
19° 55′ 10″	0.34069864	0.94017256	0.362378834	2.759543067	1.063634533	2.935145301
19° 55′ 20″	0.34074422	0.94015604	0.362433683	2.759125452	1.063653221	2.934752675
19° 55′ 30″	0.34078980	0.94013952	0.362488534	2.758707949	1.063671912	2.934360160
19° 55′ 40″	0.34083537	0.94012300	0.362543387	2.758290558	1.063690607	2.933967757
19° 55′ 50″	0.34088095	0.94010647	0.362598241	2.757873278	1.063709305	2.933575466
19° 56′ 00″	0.34092653	0.94008994	0.362653098	2.757456109	1.063728005	2.933183287
19° 56′ 10″	0.34097211	0.94007341	0.362707956	2.757039053	1.063746709	2.932791220
19° 56′ 20″	0.34101768	0.94005688	0.362762817	2.756622107	1.063765416	2.932399264
19° 56′ 30″	0.34106326	0.94004035	0.362817679	2.756205273	1.063784127	2.932007420
19° 56′ 40″	0.34110883	0.94002381	0.362872543	2.755788551	1.063802840	2.931615687
19° 56′ 50″	0.34115440	0.94000727	0.362927409	2.755371940	1.063821557	2.931224066
19° 57′ 00″	0.34119998	0.93999073	0.362982278	2.754955440	1.063840276	2.930832557
19° 57′ 10″	0.34124555	0.93997419	0.363037148	2.754539051	1.063858999	2.930441159
19° 57′ 20″ 19° 57′ 30″	0.34129112	0.93995764 0.93994110	0.363092020	2.754122774	1.063877725	2.930049872
19° 57′ 40″	0.34133669 0.34138226	0.93994110	0.363146893 0.363201769	2.753706607 2.753290552	1.063896455 1.063915187	2.929658697 2.929267633
19° 57′ 50″	0.34138228	0.73772433	0.363256647	2.752874608	1.063913167	2.928876680
19° 58′ 00″	0.34142783	0.93989144	0.363236647	2.752458775	1.063753725	2.928485839
19° 58′ 10″	0.34147337	0.73787144	0.363311327	2.752043053	1.063932661	2.928095108
19° 58′ 20″	0.34151676	0.73787488	0.363421292	2.751627442	1.063771403	2.927704489
17 58 20 19° 58′ 30″	0.34161009	0.73783833	0.363476178	2.751211941	1.063770148	2.927313981
17 58 50 19° 58′ 40″	0.34165566	0.73784177	0.363531065	2.750796552	1.064027648	2.926923584
19° 58′ 50″	0.34170122	0.93980864	0.363585954	2.750381273	1.064046402	2.926533298
19° 59′ 00″	0.34174678	0.93979207	0.363640846	2.749966105	1.064065160	2.926143123
19° 59′ 10″	0.34179235	0.93977550	0.363695739	2.747766163	1.064083921	2.925753059
19° 59′ 20″	0.34177233	0.73777330	0.363750634	2.747331047	1.064102685	2.925363106
19° 59′ 30″	0.34188347	0.73773073	0.363805531	2.748721265	1.064121452	2.924973263
19° 59′ 40″	0.34192903	0.93972578	0.363860430	2.748306539	1.064140222	2.924583532
19° 59′ 50″	0.34197459	0.93970920	0.363915331	2.747891924	1.064158996	2.924193911
	1.01.77.107	3.73770720	1.000710001			_,,_,,,,,,,

150 19° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
20° 00′ 00″	0.34202014	0.93969262	0.363970234	2.747477419	1.064177772	2.923804400
20° 00′ 10″	0.34206570	0.93967604	0.364025139	2.747063025	1.064196552	2.923415000
20° 00′ 20″	0.34211126	0.93965945	0.364080046	2.746648741	1.064215335	2.923025711
20° 00′ 30″	0.34215681	0.93964287	0.364134955	2.746234568	1.064234121	2.922636533
20° 00′ 40″	0.34220237	0.93962628	0.364189865	2.745820505	1.064252911	2.922247465
20° 00′ 50″	0.34224792	0.93960969	0.364244778	2.745406552	1.064271703	2.921858507
20° 01′ 00″	0.34229347	0.93959309	0.364299693	2.744992709	1.064290499	2.921469660
20° 01′ 10″	0.34233903	0.93957650	0.364354609	2.744578976	1.064309298	2.921080923
20° 01′ 20″	0.34238458	0.93955990	0.364409528	2.744165354	1.064328100	2.920692296
20° 01′ 30″	0.34243013	0.93954330	0.364464448	2.743751841	1.064346905	2.920303780
20° 01′ 40″	0.34247568	0.93952669	0.364519370	2.743338438	1.064365713	2.919915373
20° 01′ 50″	0.34252123	0.93951009	0.364574295	2.742925146	1.064384525	2.919527077
20° 02′ 00″	0.34256678	0.93949348	0.364629221	2.742511963	1.064403339	2.919138892
20° 02′ 10″	0.34261232	0.93947687	0.364684149	2.742098890	1.064422157	2.918750816
20° 02′ 20″	0.34265787	0.93946026	0.364739079	2.741685927	1.064440978	2.918362850
20° 02′ 30″	0.34270342	0.93944365	0.364794011	2.741273074	1.064459802	2.917974994
20° 02′ 40″	0.34274896	0.93942703	0.364848945	2.740860330	1.064478630	2.917587248
20° 02′ 50″	0.34279451	0.93941041	0.364903881	2.740447697	1.064497460	2.917199612
20° 03′ 00″	0.34284005	0.93939379	0.364958819	2.740035172	1.064516294	2.916812086
20° 03′ 10″	0.34288559	0.93937717	0.365013759	2.739622758	1.064535130	2.916424670
20° 03′ 20″	0.34293113	0.93936055	0.365068700	2.739210453	1.064553970	2.916037363
20° 03′ 30″	0.34297668	0.93934392	0.365123644	2.738798257	1.064572814	2.915650166
20° 03′ 40″	0.34302222	0.93932729	0.365178590	2.738386171	1.064591660	2.915263079
20° 03′ 50″	0.34306775	0.93931066	0.365233537	2.737974194	1.064610509	2.914876102
20° 04′ 00″	0.34311329	0.93929403	0.365288487	2.737562327	1.064629362	2.914489234
20° 04′ 10″	0.34315883	0.93927739	0.365343438	2.737150569	1.064648218	2.914102475
20° 04′ 20″	0.34320437	0.93926075	0.365398392	2.736738920	1.064667077	2.913715826
20° 04′ 30″	0.34324990	0.93924411	0.365453347	2.736327380	1.064685939	2.913329286
20° 04′ 40″	0.34329544	0.93922747	0.365508304	2.735915950	1.064704804	2.912942856
20° 04′ 50″	0.34334097	0.93921083	0.365563264	2.735504628	1.064723673	2.912556535
20° 05′ 00″	0.34338651	0.93919418	0.365618225	2.735093416	1.064742545	2.912170324
20° 05′ 10″	0.34343204	0.93917753	0.365673188	2.734682313	1.064761420	2.911784222
20° 05′ 20″	0.34347757	0.93916088	0.365728153	2.734271319	1.064780298	2.911398229
20° 05′ 30″	0.34352311	0.93914423	0.365783120	2.733860434	1.064799179	2.911012345
20° 05′ 40″	0.34356864	0.93912757	0.365838089	2.733449657	1.064818063	2.910626570
20° 05′ 50″	0.34361417	0.93911091	0.365893060	2.733038990	1.064836951	2.910240904
20° 06′ 00″	0.34365969	0.93909425	0.365948033	2.732628431	1.064855841	2.909855347
20° 06′ 10″	0.34370522	0.93907759	0.366003008	2.732217981	1.064874735	2.909469900
20° 06′ 20″	0.34375075	0.93906093	0.366057985	2.731807640	1.064893632	2.909084561
20° 06′ 30″	0.34379628	0.93904426	0.366112964	2.731397408	1.064912533	2.908699331
20° 06′ 40″	0.34384180	0.93902759	0.366167944	2.730987284	1.064931436	2.908314210
20° 06′ 50″	0.34388733	0.93901092	0.366222927	2.730577269	1.064950343	2.907929198
20° 07′ 00″	0.34393285	0.93899425	0.366277912	2.730167362	1.064969252	2.907544294
20° 07′ 10″	0.34397837	0.93897757	0.366332898	2.729757564	1.064988165	2.907159500
20° 07′ 20″	0.34402390	0.93896089	0.366387887	2.729347874	1.065007081	2.906774814
20° 07′ 30″	0.34406942	0.93894421	0.366442877	2.728938293	1.065026001	2.906390236
20° 07′ 40″	0.34411494	0.93892753	0.366497870	2.728528820	1.065044923	2.906005767
20° 07′ 50″	0.34416046	0.93891085	0.366552864	2.728119455	1.065063849	2.905621407

151 20° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
20° 08′ 00″	0.34420598	0.93889416	0.366607861	2.727710198	1.065082778	2.905237155
20° 08′ 10″	0.34425150	0.93887747	0.366662859	2.727301050	1.065101710	2.904853012
20° 08′ 20″	0.34429702	0.93886078	0.366717859	2.726892010	1.065120645	2.904468977
20° 08′ 30″	0.34434253	0.93884409	0.366772861	2.726483078	1.065139583	2.904085050
20° 08′ 40″	0.34438805	0.93882739	0.366827865	2.726074255	1.065158525	2.903701232
20° 08′ 50″	0.34443356	0.93881069	0.366882872	2.725665539	1.065177469	2.903317521
20° 09′ 00″	0.34447908	0.93879399	0.366937880	2.725256931	1.065196417	2.902933920
20° 09′ 10″	0.34452459	0.93877729	0.366992890	2.724848432	1.065215368	2.902550426
20° 09′ 20″	0.34457010	0.93876059	0.367047902	2.724440040	1.065234323	2.902167040
20° 09′ 30″	0.34461562	0.93874388	0.367102916	2.724031756	1.065253280	2.901783763
20° 09′ 40″	0.34466113	0.93872717	0.367157932	2.723623580	1.065272241	2.901400593
20° 09′ 50″	0.34470664	0.93871046	0.367212949	2.723215511	1.065291204	2.901017532
20° 10′ 00″	0.34475215	0.93869375	0.367267969	2.722807551	1.065310171	2.900634578
20° 10′ 10″	0.34479766	0.93867704	0.367322991	2.722399698	1.065329142	2.900251733
20° 10′ 20″	0.34484316	0.93866032	0.367378015	2.721991952	1.065348115	2.899868995
20° 10′ 30″	0.34488867	0.93864360	0.367433041	2.721584315	1.065367091	2.899486365
20° 10′ 40″	0.34493418	0.93862688	0.367488068	2.721176785	1.065386071	2.899103843
20° 10′ 50″	0.34497968	0.93861015	0.367543098	2.720769362	1.065405054	2.898721429
20° 11′ 00″	0.34502519	0.93859343	0.367598129	2.720362047	1.065424040	2.898339122
20° 11′ 10″	0.34507069	0.93857670	0.367653163	2.719954839	1.065443029	2.897956923
20° 11′ 20″	0.34511619	0.93855997	0.367708199	2.719547739	1.065462022	2.897574831
20° 11′ 30″	0.34516170	0.93854323	0.367763236	2.719140746	1.065481017	2.897192848
20° 11′ 40″	0.34520720	0.93852650	0.367818276	2.718733860	1.065500016	2.896810971
20° 11′ 50″	0.34525270	0.93850976	0.367873317	2.718327082	1.065519018	2.896429202
20° 12′ 00″	0.34529820	0.93849302	0.367928360	2.717920410	1.065538023	2.896047541
20° 12′ 10″	0.34534370	0.93847628	0.367983406	2.717513846	1.065557031	2.895665986
20° 12′ 20″	0.34538920	0.93845954	0.368038453	2.717107389	1.065576043	2.895284540
20° 12′ 30″	0.34543469	0.93844279	0.368093502	2.716701040	1.065595057	2.894903200
20° 12′ 40″	0.34548019	0.93842604	0.368148553	2.716294797	1.065614075	2.894521968
20° 12′ 50″	0.34552569	0.93840929	0.368203607	2.715888661	1.065633096	2.894140843
20° 13′ 00″	0.34557118	0.93839254	0.368258662	2.715482632	1.065652121	2.893759825
20° 13′ 10″	0.34561668	0.93837579	0.368313719	2.715076710	1.065671148	2.893378914
20° 13′ 20″	0.34566217	0.93835903	0.368368778	2.714670894	1.065690179	2.892998110
20° 13′ 30″	0.34570766	0.93834227	0.368423839	2.714265186	1.065709212	2.892617413
20° 13′ 40″	0.34575315	0.93832551	0.368478902	2.713859584	1.065728249	2.892236824
20° 13′ 50″	0.34579864	0.93830874	0.368533967	2.713454089	1.065747289	2.891856341
20° 14′ 00″	0.34584413	0.93829198	0.368589034	2.713048701	1.065766333	2.891475965
20° 14′ 10″	0.34588962	0.93827521	0.368644103	2.712643420	1.065785379	2.891095696
20° 14′ 20″	0.34593511	0.93825844	0.368699174	2.712238245	1.065804429	2.890715533
20° 14′ 30″	0.34598060	0.93824167	0.368754247	2.711833176	1.065823482	2.890335478
20° 14′ 40″	0.34602609	0.93822489	0.368809322	2.711428214	1.065842538	2.889955529
20° 14′ 50″	0.34607157	0.93820812	0.368864398	2.711023358	1.065861597	2.889575687
20° 15′ 00″	0.34611706	0.93819134	0.368919477	2.710618609	1.065880660	2.889195951
20° 15′ 10″	0.34616254	0.93817455	0.368974558	2.710213967	1.065899725	2.888816322
20° 15′ 20″	0.34620803	0.93815777	0.369029641	2.709809430	1.065918794	2.888436800
20° 15′ 30″	0.34625351	0.93814099	0.369084725	2.709405000	1.065937866	2.888057384
20° 15′ 40″	0.34629899	0.93812420	0.369139812	2.709000676	1.065956941	2.887678075
20° 15′ 50″	0.34634447	0.93810741	0.369194901	2.708596458	1.065976020	2.887298872

152 **20° 15′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
20° 16′ 00″	0.34638995	0.93809061	0.369249991	2.708192347	1.065995101	2.886919775
20° 16′ 10″	0.34643543	0.93807382	0.369305084	2.707788341	1.066014186	2.886540784
20° 16′ 20″	0.34648091	0.93805702	0.369360178	2.707384442	1.066033274	2.886161900
20° 16′ 30″	0.34652639	0.93804022	0.369415275	2.706980648	1.066052365	2.885783122
20° 16′ 40″	0.34657186	0.93802342	0.369470373	2.706576961	1.066071459	2.885404451
20° 16′ 50″	0.34661734	0.93800662	0.369525474	2.706173379	1.066090557	2.885025885
20° 17′ 00″	0.34666282	0.93798981	0.369580576	2.705769904	1.066109658	2.884647426
20° 17′ 10″	0.34670829	0.93797301	0.369635681	2.705366534	1.066128762	2.884269072
20° 17′ 20″	0.34675376	0.93795620	0.369690787	2.704963270	1.066147869	2.883890825
20° 17′ 30″	0.34679924	0.93793938	0.369745895	2.704560112	1.066166979	2.883512684
20° 17′ 40″	0.34684471	0.93792257	0.369801006	2.704157059	1.066186092	2.883134648
20° 17′ 50″	0.34689018	0.93790575	0.369856118	2.703754112	1.066205209	2.882756719
20° 18′ 00″	0.34693565	0.93788893	0.369911232	2.703351271	1.066224329	2.882378895
20° 18′ 10″	0.34698112	0.93787211	0.369966349	2.702948535	1.066243452	2.882001177
20° 18′ 20″	0.34702659	0.93785529	0.370021467	2.702545905	1.066262578	2.881623565
20° 18′ 30″	0.34707206	0.93783846	0.370076587	2.702143381	1.066281708	2.881246058
20° 18′ 40″	0.34711753	0.93782164	0.370131709	2.701740961	1.066300840	2.880868658
20° 18′ 50″	0.34716299	0.93780481	0.370186833	2.701338648	1.066319976	2.880491362
20° 19′ 00″	0.34720846	0.93778798	0.370241960	2.700936439	1.066339115	2.880114173
20° 19′ 10″	0.34725392	0.93777114	0.370297088	2.700534336	1.066358257	2.879737089
20° 19′ 20″	0.34729939	0.93775430	0.370352218	2.700132338	1.066377403	2.879360110
20° 19′ 30″	0.34734485	0.93773747	0.370407350	2.699730446	1.066396551	2.878983237
20° 19′ 40″	0.34739031	0.93772063	0.370462484	2.699328658	1.066415703	2.878606469
20° 19′ 50″	0.34743577	0.93770378	0.370517620	2.698926976	1.066434858	2.878229807
20° 20′ 00″	0.34748123	0.93768694	0.370572758	2.698525399	1.066454016	2.877853250
20° 20′ 10″	0.34752669	0.93767009	0.370627898	2.698123927	1.066473178	2.877476798
20° 20′ 20″	0.34757215	0.93765324	0.370683040	2.697722560	1.066492342	2.877100452
20° 20′ 30″	0.34761761	0.93763639	0.370738184	2.697321298	1.066511510	2.876724210
20° 20′ 40″	0.34766307	0.93761953	0.370793330	2.696920141	1.066530681	2.876348074
20° 20′ 50″	0.34770853	0.93760268	0.370848478	2.696519088	1.066549855	2.875972043
20° 21′ 00″	0.34775398	0.93758582	0.370903628	2.696118141	1.066569033	2.875596117
20° 21′ 10″	0.34779944	0.93756896	0.370958780	2.695717298	1.066588213	2.875220296
20° 21′ 20″	0.34784489	0.93755210	0.371013934	2.695316560	1.066607397	2.874844580
20° 21′ 30″	0.34789034	0.93753523	0.371069090	2.694915927	1.066626584	2.874468969
20° 21′ 40″	0.34793580	0.93751836	0.371124248	2.694515399	1.066645774	2.874093463
20° 21′ 50″	0.34798125	0.93750149	0.371179407	2.694114975	1.066664967	2.873718062
20° 22′ 00″	0.34802670	0.93748462	0.371234569	2.693714656	1.066684164	2.873342765
20° 22′ 10″	0.34807215	0.93746775	0.371289733	2.693314441	1.066703364	2.872967574
20° 22′ 20″	0.34811760	0.93745087	0.371344899	2.692914331	1.066722567	2.872592486
20° 22′ 30″	0.34816305	0.93743399	0.371400067	2.692514325	1.066741773	2.872217504
20° 22′ 40″	0.34820850	0.93741711	0.371455237	2.692114424	1.066760982	2.871842626
20° 22′ 50″	0.34825394	0.93740023	0.371510408	2.691714627	1.066780195	2.871467853
20° 23′ 00″	0.34829939	0.93738335	0.371565582	2.691314934	1.066799410	2.871093185
20° 23′ 10″	0.34834483	0.93736646	0.371620758	2.690915346	1.066818629	2.870718621
20° 23′ 20″	0.34839028	0.93734957	0.371675936	2.690515862	1.066837851	2.870344161
20° 23′ 30″	0.34843572	0.93733268	0.371731115	2.690116482	1.066857077	2.869969806
20° 23′ 40″	0.34848116	0.93731578	0.371786297	2.689717206	1.066876305	2.869595555
20° 23′ 50″	0.34852661	0.93729889	0.371841481	2.689318035	1.066895537	2.869221409

153 20° 23′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
20° 24′ 00″	0.34857205	0.93728199	0.371896666	2.688918967	1.066914772	2.868847367
20° 24′ 10″	0.34861749	0.93726509	0.371951854	2.688520004	1.066934010	2.868473429
20° 24′ 20″	0.34866293	0.93724819	0.372007044	2.688121144	1.066953251	2.868099595
20° 24′ 30″	0.34870837	0.93723128	0.372062235	2.687722389	1.066972496	2.867725865
20° 24′ 40″	0.34875380	0.93721437	0.372117429	2.687323737	1.066991744	2.867352240
20° 24′ 50″	0.34879924	0.93719747	0.372172625	2.686925189	1.067010995	2.866978719
20° 25′ 00″	0.34884468	0.93718055	0.372227822	2.686526745	1.067030249	2.866605301
20° 25′ 10″	0.34889011	0.93716364	0.372283022	2.686128405	1.067049506	2.866231988
20° 25′ 20″	0.34893555	0.93714673	0.372338224	2.685730169	1.067068767	2.865858779
20° 25′ 30″	0.34898098	0.93712981	0.372393427	2.685332036	1.067088030	2.865485673
20° 25′ 40″	0.34902641	0.93711289	0.372448633	2.684934007	1.067107297	2.865112672
20° 25′ 50″	0.34907185	0.93709596	0.372503840	2.684536081	1.067126568	2.864739774
20° 26′ 00″	0.34911728	0.93707904	0.372559050	2.684138260	1.067145841	2.864366980
20° 26′ 10″	0.34916271	0.93706211	0.372614262	2.683740541	1.067165117	2.863994290
20° 26′ 20″	0.34920814	0.93704518	0.372669475	2.683342926	1.067184397	2.863621703
20° 26′ 30″	0.34925357	0.93702825	0.372724691	2.682945415	1.067203680	2.863249221
20° 26′ 40″	0.34929899	0.93701132	0.372779908	2.682548007	1.067222966	2.862876841
20° 26′ 50″	0.34934442	0.93699438	0.372835128	2.682150702	1.067242256	2.862504566
20° 27′ 00″	0.34938985	0.93697745	0.372890349	2.681753501	1.067261548	2.862132394
20° 27′ 10″	0.34943527	0.93696051	0.372945573	2.681356402	1.067280844	2.861760325
20° 27′ 20″	0.34948070	0.93694356	0.373000799	2.680959408	1.067300143	2.861388360
20° 27′ 30″	0.34952612	0.93692662	0.373056026	2.680562516	1.067319445	2.861016498
20° 27′ 40″	0.34957154	0.93690967	0.373111256	2.680165727	1.067338751	2.860644740
20° 27′ 50″	0.34961697	0.93689272	0.373166487	2.679769042	1.067358060	2.860273084
20° 28′ 00″	0.34966239	0.93687577	0.373221721	2.679372459	1.067377371	2.859901533
20° 28′ 10″	0.34970781	0.93685882	0.373276956	2.678975980	1.067396686	2.859530084
20° 28′ 20″	0.34975323	0.93684186	0.373332194	2.678579604	1.067416005	2.859158739
20° 28′ 30″	0.34979865	0.93682491	0.373387433	2.678183330	1.067435326	2.858787496
20° 28′ 40″	0.34984407	0.93680795	0.373442675	2.677787160	1.067454651	2.858416357
20° 28′ 50″	0.34988948	0.93679099	0.373497919	2.677391092	1.067473979	2.858045321
20° 29′ 00″	0.34993490	0.93677402	0.373553164	2.676995127	1.067493310	2.857674388
20° 29′ 10″	0.34998032	0.93675705	0.373608412	2.676599265	1.067512644	2.857303558
20° 29′ 20″	0.35002573	0.93674009	0.373663661	2.676203505	1.067531982	2.856932831
20° 29′ 30″	0.35007114	0.93672311	0.373718913	2.675807849	1.067551322	2.856562207
20° 29′ 40″	0.35011656	0.93670614	0.373774166	2.675412294	1.067570666	2.856191686
20° 29′ 50″	0.35016197	0.93668917	0.373829422	2.675016843	1.067590013	2.855821267
20° 30′ 00″	0.35020738	0.93667219	0.373884679	2.674621494	1.067609364	2.855450951
20° 30′ 10″	0.35025279	0.93665521	0.373939939	2.674226247	1.067628717	2.855080738
20° 30′ 20″	0.35029820	0.93663823	0.373995201	2.673831104	1.067648074	2.854710628
20° 30′ 30″	0.35034361	0.93662124	0.374050464	2.673436062	1.067667434	2.854340620
20° 30′ 40″	0.35038902	0.93660426	0.374105730	2.673041123	1.067686797	2.853970715
20° 30′ 50″	0.35043443	0.93658727	0.374160997	2.672646286	1.067706164	2.853600913
20° 31′ 00″	0.35047983	0.93657028	0.374216267	2.672251552	1.067725533	2.853231213
20° 31′ 10″	0.35052524	0.93655329	0.374271539	2.671856919	1.067744906	2.852861616
20° 31′ 20″	0.35057064	0.93653629	0.374326812	2.671462389	1.067764282	2.852492121
20° 31′ 30″	0.35061605	0.93651929	0.374382088	2.671067962	1.067783661	2.852122728
20° 31′ 40″	0.35066145	0.93650229	0.374437365	2.670673636	1.067803044	2.851753438
	2.33500113	0.75050227	2.31 1 131 303	0,00,000		001/00100

154 20° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
20° 32′ 00″	0.35075226	0.93646829	0.374547927	2.669885291	1.067841819	2.851015164
20° 32′ 10″	0.35079766	0.93645128	0.374603210	2.669491271	1.067861211	2.850646181
20° 32′ 20″	0.35084306	0.93643427	0.374658496	2.669097354	1.067880606	2.850277299
20° 32′ 30″	0.35088846	0.93641726	0.374713784	2.668703538	1.067900004	2.849908520
20° 32′ 40″	0.35093385	0.93640025	0.374769073	2.668309825	1.067919406	2.849539843
20° 32′ 50″	0.35097925	0.93638324	0.374824365	2.667916213	1.067938811	2.849171269
20° 33′ 00″	0.35102465	0.93636622	0.374879659	2.667522703	1.067958219	2.848802796
20° 33′ 10″	0.35107004	0.93634920	0.374934954	2.667129294	1.067977631	2.848434425
20° 33′ 20″	0.35111544	0.93633218	0.374990252	2.666735988	1.067997045	2.848066156
20° 33′ 30″	0.35116083	0.93631515	0.375045552	2.666342783	1.068016463	2.847697989
20° 33′ 40″	0.35120623	0.93629813	0.375100853	2.665949680	1.068035884	2.847329924
20° 33′ 50″	0.35125162	0.93628110	0.375156157	2.665556678	1.068055309	2.846961960
20° 34′ 00″	0.35129701	0.93626407	0.375211463	2.665163778	1.068074736	2.846594099
20° 34′ 10″	0.35134240	0.93624704	0.375266771	2.664770980	1.068094167	2.846226339
20° 34′ 20″	0.35138779	0.93623000	0.375322080	2.664378283	1.068113601	2.845858681
20° 34′ 30″	0.35143318	0.93621297	0.375377392	2.663985687	1.068133038	2.845491125
20° 34′ 40″	0.35147857	0.93619593	0.375432706	2.663593193	1.068152478	2.845123670
20° 34′ 50″	0.35152396	0.93617889	0.375488022	2.663200800	1.068171922	2.844756317
20° 35′ 00″	0.35156934	0.93616184	0.375543340	2.662808508	1.068191369	2.844389065
20° 35′ 10″	0.35161473	0.93614480	0.375598659	2.662416318	1.068210819	2.844021915
20° 35′ 20″	0.35166012	0.93612775	0.375653981	2.662024229	1.068230272	2.843654866
20° 35′ 30″	0.35170550	0.93611070	0.375709305	2.661632241	1.068249728	2.843287919
20° 35′ 40″	0.35175088	0.93609365	0.375764631	2.661240355	1.068269188	2.842921073
20° 35′ 50″	0.35179627	0.93607659	0.375819959	2.660848569	1.068288651	2.842554328
20° 36′ 00″	0.35184165	0.93605954	0.375875289	2.660456884	1.068308117	2.842187685
20° 36′ 10″	0.35188703	0.93604248	0.375930621	2.660065301	1.068327586	2.841821142
20° 36′ 20″	0.35193241	0.93602542	0.375985955	2.659673818	1.068347059	2.841454702
20° 36′ 30″	0.35197779	0.93600835	0.376041291	2.659282437	1.068366535	2.841088362
20° 36′ 40″	0.35202317	0.93599129	0.376096629	2.658891156	1.068386014	2.840722123
20° 36′ 50″	0.35206855	0.93597422	0.376151969	2.658499977	1.068405496	2.840355986
20° 37′ 00″	0.35211392	0.93595715	0.376207311	2.658108898	1.068424981	2.839989949
20° 37′ 10″	0.35215930	0.93594008	0.376262655	2.657717919	1.068444470	2.839624014
20° 37′ 20″	0.35220467	0.93592300	0.376318001	2.657327042	1.068463962	2.839258179
20° 37′ 30″	0.35225005	0.93590593	0.376373349	2.656936265	1.068483457	2.838892446
20° 37′ 40″	0.35229542	0.93588885	0.376428699	2.656545589	1.068502955	2.838526813
20° 37′ 50″	0.35234079	0.93587177	0.376484051	2.656155014	1.068522457	2.838161281
20° 38′ 00″	0.35238617	0.93585468	0.376539405	2.655764539	1.068541962	2.837795850
20° 38′ 10″	0.35243154	0.93583760	0.376594761	2.655374165	1.068561470	2.837430520
20° 38′ 20″	0.35247691	0.93582051	0.376650120	2.654983891	1.068580981	2.837065290
20° 38′ 30″	0.35252228	0.93580342	0.376705480	2.654593717	1.068600495	2.836700161
20° 38′ 40″	0.35256765	0.93578633	0.376760842	2.654203644	1.068620013	2.836335133
20° 38′ 50″	0.35261301	0.93576924	0.376816206	2.653813672	1.068639534	2.835970205
20° 39′ 00″	0.35265838	0.93575214	0.376871573	2.653423800	1.068659058	2.835605378
20° 39′ 10″ 20° 39′ 20″	0.35270375	0.93573504	0.376926941	2.653034028	1.068678585	2.835240651
20° 39′ 20″ 20° 39′ 30″	0.35274911 0.35279448	0.93571794	0.376982311	2.652644356	1.068698116	2.834876025
20° 39′ 40″	0.35279448	0.93570084	0.377037684	2.652254784	1.068717650	2.834511500
20° 39′ 40″ 20° 39′ 50″	0.35283984	0.93568373 0.93566663	0.377093058 0.377148434	2.651865313 2.651475942	1.068737187 1.068756727	2.834147074 2.833782749
	0.33200320	0./3366663	0.377140434	2.0314/3742	1.000/30/4/	2.033/02/47

155 20° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
20° 40′ 00″	0.35293056	0.93564952	0.377203813	2.651086671	1.068776270	2.833418525
20° 40′ 10″	0.35297593	0.93563240	0.377259193	2.650697500	1.068795817	2.833054400
20° 40′ 20″	0.35302129	0.93561529	0.377314576	2.650308429	1.068815367	2.832690376
20° 40′ 30″	0.35306665	0.93559817	0.377369960	2.649919458	1.068834920	2.832326452
20° 40′ 40″	0.35311200	0.93558106	0.377425347	2.649530587	1.068854477	2.831962629
20° 40′ 50″	0.35315736	0.93556394	0.377480735	2.649141815	1.068874036	2.831598905
20° 41′ 00″	0.35320272	0.93554681	0.377536126	2.648753144	1.068893599	2.831235281
20° 41′ 10″	0.35324808	0.93552969	0.377591518	2.648364572	1.068913165	2.830871758
20° 41′ 20″	0.35329343	0.93551256	0.377646913	2.647976101	1.068932734	2.830508334
20° 41′ 30″	0.35333879	0.93549543	0.377702310	2.647587729	1.068952307	2.830145010
20° 41′ 40″	0.35338414	0.93547830	0.377757708	2.647199456	1.068971883	2.829781787
20° 41′ 50″	0.35342949	0.93546117	0.377813109	2.646811283	1.068991462	2.829418663
20° 42′ 00″	0.35347484	0.93544403	0.377868512	2.646423210	1.069011044	2.829055639
20° 42′ 10″	0.35352019	0.93542689	0.377923917	2.646035237	1.069030629	2.828692715
20° 42′ 20″	0.35356555	0.93540975	0.377979323	2.645647363	1.069050218	2.828329890
20° 42′ 30″	0.35361089	0.93539261	0.378034732	2.645259588	1.069069810	2.827967165
20° 42′ 40″	0.35365624	0.93537547	0.378090143	2.644871913	1.069089405	2.827604540
20° 42′ 50″	0.35370159	0.93535832	0.378145556	2.644484337	1.069109004	2.827242015
20° 43′ 00″	0.35374694	0.93534117	0.378200971	2.644096861	1.069128605	2.826879589
20° 43′ 10″	0.35379228	0.93532402	0.378256388	2.643709484	1.069148210	2.826517263
20° 43′ 20″	0.35383763	0.93530686	0.378311807	2.643322206	1.069167818	2.826155036
20° 43′ 30″	0.35388297	0.93528971	0.378367228	2.642935028	1.069187429	2.825792909
20° 43′ 40″	0.35392832	0.93527255	0.378422651	2.642547949	1.069207044	2.825430881
20° 43′ 50″	0.35397366	0.93525539	0.378478076	2.642160969	1.069226662	2.825068952
20° 44′ 00″	0.35401900	0.93523823	0.378533503	2.641774088	1.069246283	2.824707123
20° 44′ 10″	0.35406434	0.93522106	0.378588932	2.641387306	1.069265907	2.824345393
20° 44′ 20″	0.35410968	0.93520390	0.378644364	2.641000623	1.069285534	2.823983762
20° 44′ 30″	0.35415502	0.93518673	0.378699797	2.640614039	1.069305165	2.823622231
20° 44′ 40″	0.35420036	0.93516956	0.378755232	2.640227554	1.069324799	2.823260799
20° 44′ 50″	0.35424570	0.93515239	0.378810669	2.639841168	1.069344436	2.822899466
20° 45′ 00″	0.35429104	0.93513521	0.378866109	2.639454881	1.069364077	2.822538232
20° 45′ 10″	0.35433637	0.93511803	0.378921550	2.639068693	1.069383720	2.822177097
20° 45′ 20″	0.35438171	0.93510085	0.378976993	2.638682604	1.069403367	2.821816061
20° 45′ 30″	0.35442704	0.93508367	0.379032439	2.638296613	1.069423017	2.821455125
20° 45′ 40″	0.35447238	0.93506649	0.379087886	2.637910721	1.069442671	2.821094287
20° 45′ 50″	0.35451771	0.93504930	0.379143336	2.637524928	1.069462327	2.820733548
20° 46′ 00″	0.35456304	0.93503211	0.379198788	2.637139234	1.069481987	2.820372908
20° 46′ 10″	0.35460837	0.93501492	0.379254241	2.636753638	1.069501650	2.820012366
20° 46′ 20″	0.35465370	0.93499773	0.379309697	2.636368141	1.069521316	2.819651924
20° 46′ 30″	0.35469903	0.93498053	0.379365154	2.635982742	1.069540986	2.819291580
20° 46′ 40″	0.35474436	0.93496333	0.379420614	2.635597441	1.069560659	2.818931335
20° 46′ 50″	0.35478969	0.93494614	0.379476076	2.635212240	1.069580335	2.818571189
20° 47′ 00″	0.35483502	0.93492893	0.379531540	2.634827136	1.069600014	2.818211141
20° 47′ 10″	0.35488034	0.93491173	0.379587006	2.634442131	1.069619696	2.817851192
20° 47′ 20″	0.35492567	0.93489452	0.379642474	2.634057224	1.069639382	2.817491342
20° 47′ 30″	0.35497099	0.93487731	0.379697943	2.633672416	1.069659071	2.817131590
20° 47′ 40″	0.35501632	0.93486010	0.379753415	2.633287706	1.069678763	2.816771936
20° 47′ 50″	0.35506164	0.93484289	0.379808889	2.632903094	1.069698459	2.816412381

156 20° 47′ 50″

<u> </u>	sin(x)	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
20° 48′ 00″	0.35510696	0.93482568	0.379864365	2.632518580	1.069718157	2.816052925
20° 48′ 10″	0.35515228	0.93480846	0.379919844	2.632134164	1.069737859	2.815693566
20° 48′ 20″	0.35519760	0.93479124	0.379975324	2.631749847	1.069757564	2.815334306
20° 48′ 30″	0.35524292	0.93477402	0.380030806	2.631365627	1.069777273	2.814975144
20° 48′ 40″	0.35528824	0.93475679	0.380086290	2.630981506	1.069796984	2.814616081
20° 48′ 50″	0.35533356	0.93473957	0.380141776	2.630597482	1.069816699	2.814257116
20° 49′ 00″	0.35537888	0.93472234	0.380197265	2.630213557	1.069836417	2.813898249
20° 49′ 10″	0.35542419	0.93470511	0.380252755	2.629829729	1.069856139	2.813539480
20° 49′ 20″	0.35546951	0.93468788	0.380308248	2.629445999	1.069875863	2.813180809
20° 49′ 30″	0.35551482	0.93467064	0.380363742	2.629062367	1.069895591	2.812822236
20° 49′ 40″	0.35556014	0.93465341	0.380419239	2.628678833	1.069915322	2.812463761
20° 49′ 50″	0.35560545	0.93463617	0.380474737	2.628295397	1.069935057	2.812105384
20° 50′ 00″	0.35565076	0.93461893	0.380530238	2.627912058	1.069954794	2.811747105
20° 50′ 10″	0.35569607	0.93460168	0.380585740	2.627528817	1.069974535	2.811388924
20° 50′ 20″	0.35574138	0.93458444	0.380641245	2.627145673	1.069994279	2.811030841
20° 50′ 30″	0.35578669	0.93456719	0.380696752	2.626762627	1.070014026	2.810672856
20° 50′ 40″	0.35583200	0.93454994	0.380752261	2.626379679	1.070033777	2.810314968
20° 50′ 50″	0.35587731	0.93453269	0.380807771	2.625996828	1.070053531	2.809957178
20° 51′ 00″	0.35592262	0.93451543	0.380863284	2.625614075	1.070073288	2.809599486
20° 51′ 10″	0.35596792	0.93449817	0.380918799	2.625231419	1.070093048	2.809241891
20° 51′ 20″	0.35601323	0.93448092	0.380974316	2.624848861	1.070112812	2.808884394
20° 51′ 30″	0.35605853	0.93446365	0.381029835	2.624466399	1.070132578	2.808526995
20° 51′ 40″	0.35610384	0.93444639	0.381085356	2.624084036	1.070152348	2.808169693
20° 51′ 50″	0.35614914	0.93442913	0.381140880	2.623701769	1.070172122	2.807812489
20° 52′ 00″	0.35619444	0.93441186	0.381196405	2.623319600	1.070191898	2.807455382
20° 52′ 10″	0.35623974	0.93439459	0.381251932	2.622937528	1.070211678	2.807098373
20° 52′ 20″	0.35628504	0.93437732	0.381307461	2.62255553	1.070231461	2.806741461
20° 52′ 30″	0.35633034	0.93436004	0.381362993	2.622173675	1.070251247	2.806384646
20° 52′ 40″	0.35637564	0.93434277	0.381418526	2.621791894	1.070271037	2.806027928
20° 52′ 50″	0.35642094	0.93432549	0.381474062	2.621410210	1.070290829	2.805671308
20° 53′ 00″	0.35646624	0.93430821	0.381529599	2.621028623	1.070310625	2.805314785
20° 53′ 10″	0.35651153	0.93429092	0.381585139	2.620647134	1.070330425	2.804958360
20° 53′ 20″	0.35655683	0.93427364	0.381640680	2.620265741	1.070350227	2.804602031
20° 53′ 30″	0.35660212	0.93425635	0.381696224	2.619884445	1.070370033	2.804245800
20° 53′ 40″	0.35664741	0.93423906	0.381751770	2.619503246	1.070389842	2.803889665
20° 53′ 50″	0.35669271	0.93422177	0.381807318	2.619122144	1.070409654	2.803533628
20° 54′ 00″	0.35673800	0.93420447	0.381862867	2.618741138	1.070429470	2.803177688
20° 54′ 10″	0.35678329	0.93418718	0.381918419	2.618360229	1.070449288	2.802821844
20° 54′ 20″	0.35682858	0.93416988	0.381973973	2.617979417	1.070469110	2.802466098
20° 54′ 30″	0.35687387	0.93415258	0.382029529	2.617598702	1.070488936	2.802110448
20° 54′ 40″	0.35691916	0.93413528	0.382085087	2.617218083	1.070508764	2.801754895
20° 54′ 50″	0.35696445	0.93411797	0.382140648	2.616837561	1.070528596	2.801399439
20° 55′ 00″	0.35700973	0.93410066	0.382196210	2.616457135	1.070548431	2.801044080
20° 55′ 10″ 20° 55′ 20″	0.35705502	0.93408335	0.382251774	2.616076806	1.070568269	2.800688818
20° 55′ 20″ 20° 55′ 30″	0.35710030	0.93406604	0.382307340	2.615696573 2.615316437	1.070588111	2.800333652
20° 55′ 40″	0.35714559	0.93404873 0.93403141	0.382362909		1.070607955	2.799978583 2.799623610
20° 55′ 50″	0.35719087 0.35723616	0.93403141	0.382418479 0.382474052	2.614936397 2.614556453	1.070627803 1.070647655	2.799623610
	0.33/23616	0./3401407	0.3024/4032	4.014330433	1.070047033	2.1 / 7 / 00 / 34

157 20° 55′ 50″

20° 56′ 10″	$\frac{\sin(x)}{0.35728144}$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	$\mathbf{sec}(\mathbf{x})$	$\mathbf{csc}(\mathbf{x})$
20° 56′ 10″	0.337 20177	0.93399677	0.382529626	2.614176606	1.070667509	2.798913955
	0.35732672	0.93397945	0.382585203	2.613796855	1.070687367	2.798559272
20° 56′ 20″	0.35737200	0.93396213	0.382640782	2.613417200	1.070707228	2.798204686
	0.35741728	0.93394480	0.382696362	2.613037642	1.070727092	2.797850196
I	0.35746256	0.93392747	0.382751945	2.612658179	1.070746960	2.797495802
	0.35750783	0.93391014	0.382807530	2.612278813	1.070766830	2.797141505
I	0.35755311	0.93389281	0.382863117	2.611899543	1.070786704	2.796787304
	0.35759839	0.93387547	0.382918706	2.611520369	1.070806582	2.796433199
I	0.35764366	0.93385813	0.382974297	2.611141290	1.070826462	2.796079190
	0.35768894	0.93384079	0.383029890	2.610762308	1.070846346	2.795725278
	0.35773421	0.93382345	0.383085485	2.610383422	1.070866233	2.795371462
I	0.35777948	0.93380611	0.383141083	2.610004631	1.070886123	2.795017742
	0.35782475	0.93378876	0.383196682	2.609625937	1.070906017	2.794664118
I	0.35787002	0.93377141	0.383252283	2.609247338	1.070925914	2.794310590
	0.35791529	0.93375406	0.383307887	2.608868835	1.070945814	2.793957158
I	0.35796056	0.93373671	0.383363492	2.608490428	1.070965717	2.793603822
I	0.35800583	0.93371935	0.383419100	2.608112116	1.070985624	2.793250582
I	0.35805110	0.93370199	0.383474710	2.607733901	1.071005534	2.792897437
I	0.35809637	0.93368463	0.383530321	2.607355780	1.071025447	2.792544389
I	0.35814163	0.93366727	0.383585935	2.606977756	1.071045363	2.792191437
I	0.35818690	0.93364991	0.383641551	2.606599827	1.071065283	2.791838580
I	0.35823216	0.93363254	0.383697169	2.606221993	1.071085205	2.791485819
	0.35827743	0.93361517	0.383752789	2.605844255	1.071105132	2.791133153
I	0.35832269	0.93359780	0.383808411	2.605466612	1.071125061	2.790780584
	0.35836795	0.93358043	0.383864035	2.605089065	1.071144994	2.790428110
I	0.35841321	0.93356305	0.383919661	2.604711613	1.071164930	2.790075731
I	0.35845847	0.93354567	0.383975290	2.604334256	1.071184869	2.789723448
I	0.35850373	0.93352829	0.384030920	2.603956995	1.071204811	2.789371261
I	0.35854899	0.93351091	0.384086552	2.603579829	1.071224757	2.789019169
I	0.35859425	0.93349353	0.384142187	2.603202758	1.071244706	2.788667172
	0.35863950	0.93347614	0.384197823	2.602825782	1.071264658	2.788315271
	0.35868476	0.93345875	0.384253462	2.602448901	1.071284613	2.787963465
	0.35873001	0.93344136	0.384309103	2.602072116	1.071304572	2.787611755
	0.35877527	0.93342397	0.384364746	2.601695425	1.071324534	2.787260140
21° 01′ 40″	0.35882052	0.93340658	0.384420390	2.601318830	1.071344499	2.786908620
21° 01′ 50″	0.35886577	0.93338918	0.384476037	2.600942329	1.071364468	2.786557195
	0.35891102	0.93337178	0.384531686	2.600565924	1.071384440	2.786205865
I	0.35895627	0.93335438	0.384587337	2.600189613	1.071404415	2.785854631
	0.35900152	0.93333697	0.384642991	2.599813397	1.071424393	2.785503491
I	0.35904677	0.93331957	0.384698646	2.599437276	1.071444375	2.785152447
	0.35909202	0.93330216	0.384754303	2.599061250	1.071464360	2.784801498
	0.35913727	0.93328475	0.384809962	2.598685319	1.071484348	2.784450643
I	0.35918252	0.93326734	0.384865624	2.598309482	1.071504339	2.784099884
	0.35922776	0.93324992	0.384921288	2.597933740	1.071524334	2.783749219
	0.35927301	0.93323250	0.384976953	2.597558092	1.071544332	2.783398650
	0.35931825	0.93321509	0.385032621	2.597182540	1.071564333	2.783048175
21° 03′ 40″	0.35936349	0.93319766	0.385088291	2.596807081	1.071584337	2.782697795
21° 03′ 50″	0.35940874	0.93318024	0.385143962	2.596431718	1.071604345	2.782347510

158 **21° 03′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
21° 04′ 00″	0.35945398	0.93316281	0.385199636	2.596056449	1.071624356	2.781997319
21° 04′ 10″	0.35949922	0.93314539	0.385255312	2.595681274	1.071644370	2.781647223
21° 04′ 20″	0.35954446	0.93312796	0.385310990	2.595306193	1.071664387	2.781297222
21° 04′ 30″	0.35958970	0.93311052	0.385366671	2.594931207	1.071684408	2.780947315
21° 04′ 40″	0.35963493	0.93309309	0.385422353	2.594556316	1.071704432	2.780597503
21° 04′ 50″	0.35968017	0.93307565	0.385478037	2.594181518	1.071724460	2.780247786
21° 05′ 00″	0.35972541	0.93305821	0.385533724	2.593806815	1.071744490	2.779898163
21° 05′ 10″	0.35977064	0.93304077	0.385589412	2.593432207	1.071764524	2.779548634
21° 05′ 20″	0.35981588	0.93302333	0.385645103	2.593057692	1.071784561	2.779199200
21° 05′ 30″	0.35986111	0.93300588	0.385700795	2.592683271	1.071804601	2.778849860
21° 05′ 40″	0.35990634	0.93298844	0.385756490	2.592308945	1.071824645	2.778500615
21° 05′ 50″	0.35995158	0.93297099	0.385812187	2.591934713	1.071844692	2.778151464
21° 06′ 00″	0.35999681	0.93295353	0.385867886	2.591560574	1.071864742	2.777802407
21° 06′ 10″	0.36004204	0.93293608	0.385923587	2.591186530	1.071884796	2.777453444
21° 06′ 20″	0.36008727	0.93291862	0.385979290	2.590812580	1.071904852	2.777104576
21° 06′ 30″	0.36013250	0.93290117	0.386034995	2.590438723	1.071924912	2.776755801
21° 06′ 40″	0.36017772	0.93288370	0.386090702	2.590064961	1.071944975	2.776407121
21° 06′ 50″	0.36022295	0.93286624	0.386146412	2.589691292	1.071965042	2.776058535
21° 07′ 00″	0.36026818	0.93284878	0.386202123	2.589317718	1.071985112	2.775710043
21° 07′ 10″	0.36031340	0.93283131	0.386257837	2.588944236	1.072005185	2.775361645
21° 07′ 20″	0.36035863	0.93281384	0.386313552	2.588570849	1.072025261	2.775013341
21° 07′ 30″	0.36040385	0.93279637	0.386369270	2.588197556	1.072045341	2.774665131
21° 07′ 40″	0.36044907	0.93277889	0.386424990	2.587824356	1.072065424	2.774317014
21° 07′ 50″	0.36049430	0.93276142	0.386480712	2.587451249	1.072085510	2.773968992
21° 08′ 00″	0.36053952	0.93274394	0.386536436	2.587078237	1.072105599	2.773621063
21° 08′ 10″	0.36058474	0.93272646	0.386592162	2.586705318	1.072125692	2.773273229
21° 08′ 20″	0.36062996	0.93270898	0.386647890	2.586332492	1.072145788	2.772925488
21° 08′ 30″	0.36067518	0.93269149	0.386703620	2.585959760	1.072165887	2.772577840
21° 08′ 40″	0.36072039	0.93267400	0.386759352	2.585587121	1.072185990	2.772230287
21° 08′ 50″	0.36076561	0.93265651	0.386815087	2.585214576	1.072206095	2.771882827
21° 09′ 00″	0.36081083	0.93263902	0.386870823	2.584842124	1.072226205	2.771535460
21° 09′ 10″	0.36085604	0.93262153	0.386926562	2.584469766	1.072246317	2.771188187
21° 09′ 20″ 21° 09′ 30″	0.36090126	0.93260403	0.386982302	2.584097500	1.072266433	2.770841008
21° 09′ 30″ 21° 09′ 40″	0.36094647	0.93258654 0.93256904	0.387038045 0.387093790	2.583725328 2.583353250	1.072286551 1.072306674	2.770493922 2.770146930
21° 09′ 50″	0.36103689	0.93255153	0.387149537	2.582981264	1.072326799	2.769800031
21° 10′ 00″	0.36103687	0.93253403	0.387205286	2.582609372	1.072346928	2.769453225
21° 10′ 10″	0.36112732	0.73253403	0.387261037	2.582237572	1.072346726	2.769433223
21° 10′ 10″ 21° 10′ 20″	0.36112732	0.73231632	0.387316790	2.581865866	1.072387195	2.769106313
21° 10′ 30″	0.36117232	0.73247701	0.387372546	2.581494253	1.072407334	2.768413368
21° 10′ 40″	0.36121773	0.73246130	0.387428303	2.581122733	1.072427475	2.768066936
21° 10′ 50″	0.36130815	0.93244647	0.387484062	2.580751306	1.072447620	2.767720597
21° 10′ 90″ 21° 11′ 00″	0.36135335	0.93242895	0.387539824	2.580379971	1.072467769	2.767374351
21° 11′ 10″	0.36139856	0.93241143	0.387595588	2.580008730	1.072487921	2.767028198
21° 11′ 20″	0.36144376	0.93239391	0.387651354	2.579637581	1.072508075	2.766682138
21° 11′ 30″	0.36148897	0.93237639	0.387707121	2.579266526	1.072528234	2.766336171
21° 11′ 40″	0.36153417	0.93235886	0.387762891	2.578895563	1.072548395	2.765990297
21° 11′ 50″	0.36157937	0.93234133	0.387818663	2.578524693	1.072568560	2.765644516
	1 3.50.57.757	3.7.0201100	2.007.010003	2.07.002.1073	2500500	

159 **21° 11′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
21° 12′ 00″	0.36162457	0.93232380	0.387874438	2.578153915	1.072588728	2.765298828
21° 12′ 10″	0.36166977	0.93230627	0.387930214	2.577783231	1.072608899	2.764953234
21° 12′ 20″	0.36171497	0.93228873	0.387985992	2.577412638	1.072629074	2.764607731
21° 12′ 30″	0.36176017	0.93227120	0.388041773	2.577042139	1.072649252	2.764262322
21° 12′ 40″	0.36180536	0.93225366	0.388097555	2.576671732	1.072669433	2.763917006
21° 12′ 50″	0.36185056	0.93223611	0.388153340	2.576301418	1.072689617	2.763571782
21° 13′ 00″	0.36189576	0.93221857	0.388209127	2.575931196	1.072709805	2.763226651
21° 13′ 10″	0.36194095	0.93220102	0.388264916	2.575561066	1.072729996	2.762881613
21° 13′ 20″	0.36198615	0.93218347	0.388320707	2.575191029	1.072750190	2.762536667
21° 13′ 30″	0.36203134	0.93216592	0.388376500	2.574821084	1.072770388	2.762191814
21° 13′ 40″	0.36207653	0.93214837	0.388432295	2.574451232	1.072790589	2.761847053
21° 13′ 50″	0.36212172	0.93213082	0.388488092	2.574081472	1.072810793	2.761502386
21° 14′ 00″	0.36216691	0.93211326	0.388543891	2.573711804	1.072831000	2.761157810
21° 14′ 10″	0.36221210	0.93209570	0.388599693	2.573342229	1.072851211	2.760813327
21° 14′ 20″	0.36225729	0.93207814	0.388655497	2.572972746	1.072871425	2.760468937
21° 14′ 30″	0.36230248	0.93206057	0.388711302	2.572603355	1.072891642	2.760124639
21° 14′ 40″	0.36234767	0.93204301	0.388767110	2.572234056	1.072911863	2.759780433
21° 14′ 50″	0.36239285	0.93202544	0.388822920	2.571864849	1.072932087	2.759436319
21° 15′ 00″	0.36243804	0.93200787	0.388878732	2.571495734	1.072952314	2.759092298
21° 15′ 10″	0.36248322	0.93199030	0.388934546	2.571126711	1.072972544	2.758748369
21° 15′ 20″	0.36252841	0.93197272	0.388990362	2.570757780	1.072992778	2.758404533
21° 15′ 30″	0.36257359	0.93195514	0.389046180	2.570388942	1.073013015	2.758060788
21° 15′ 40″	0.36261877	0.93193757	0.389102001	2.570020195	1.073033255	2.757717136
21° 15′ 50″	0.36266395	0.93191998	0.389157823	2.569651540	1.073053499	2.757373575
21° 16′ 00″	0.36270913	0.93190240	0.389213648	2.569282976	1.073073746	2.757030107
21° 16′ 10″	0.36275431	0.93188482	0.389269475	2.568914505	1.073093996	2.756686731
21° 16′ 20″	0.36279949	0.93186723	0.389325304	2.568546125	1.073114249	2.756343447
21° 16′ 30″	0.36284467	0.93184964	0.389381135	2.568177837	1.073134506	2.756000255
21° 16′ 40″	0.36288985	0.93183204	0.389436968	2.567809641	1.073154766	2.755657155
21° 16′ 50″	0.36293502	0.93181445	0.389492803	2.567441537	1.073175029	2.755314146
21° 17′ 00″	0.36298020	0.93179685	0.389548640	2.567073524	1.073195296	2.754971230
21° 17′ 10″	0.36302537	0.93177925	0.389604479	2.566705602	1.073215566	2.754628405
21° 17′ 20″	0.36307054	0.93176165	0.389660321	2.566337773	1.073235839	2.754285672
21° 17′ 30″	0.36311572	0.93174405	0.389716164	2.565970034	1.073256115	2.753943031
21° 17′ 40″	0.36316089	0.93172645	0.389772010	2.565602388	1.073276395	2.753600481
21° 17′ 50″	0.36320606	0.93170884	0.389827858	2.565234832	1.073296678	2.753258024
21° 18′ 00″	0.36325123	0.93169123	0.389883708	2.564867368	1.073316964	2.752915658
21° 18′ 10″	0.36329640	0.93167362	0.389939560	2.564499996	1.073337254	2.752573383
21° 18′ 20″	0.36334157	0.93165600	0.389995414	2.564132715	1.073357547	2.752231200
21° 18′ 30″	0.36338674	0.93163838	0.390051270	2.563765525	1.073377843	2.751889109
21° 18′ 40″	0.36343190	0.93162077	0.390107129	2.563398426	1.073398142	2.751547109
21° 18′ 50″	0.36347707	0.93160315	0.390162989	2.563031419	1.073418445	2.751205200
21° 19′ 00″	0.36352223	0.93158552	0.390218852	2.562664503	1.073438751	2.750863383
21° 19′ 10″	0.36356740	0.93156790	0.390274717	2.562297678	1.073459060	2.750521658
21° 19′ 20″	0.36361256	0.93155027	0.390330583	2.561930944	1.073479373	2.750180023
21° 19′ 30″	0.36365772	0.93153264	0.390386452	2.561564301	1.073499689	2.749838480
21° 19′ 40″ 21° 19′ 50″	0.36370288	0.93151501	0.390442323	2.561197749	1.073520008	2.749497029
<u> </u>	0.36374805	0.93149738	0.390498197	2.560831288	1.073540331	2.749155668

160 21° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
21° 20′ 00″	0.36379320	0.93147974	0.390554072	2.560464919	1.073560656	2.748814399
21° 20′ 10″	0.36383836	0.93146210	0.390609949	2.560098640	1.073580986	2.748473221
21° 20′ 20″	0.36388352	0.93144446	0.390665829	2.559732452	1.073601318	2.748132134
21° 20′ 30″	0.36392868	0.93142682	0.390721711	2.559366355	1.073621654	2.747791138
21° 20′ 40″	0.36397384	0.93140917	0.390777594	2.559000349	1.073641993	2.747450233
21° 20′ 50″	0.36401899	0.93139153	0.390833480	2.558634433	1.073662335	2.747109420
21° 21′ 00″	0.36406415	0.93137388	0.390889368	2.558268609	1.073682680	2.746768697
21° 21′ 10″	0.36410930	0.93135622	0.390945258	2.557902875	1.073703029	2.746428065
21° 21′ 20″	0.36415445	0.93133857	0.391001150	2.557537232	1.073723381	2.746087524
21° 21′ 30″	0.36419961	0.93132092	0.391057045	2.557171679	1.073743737	2.745747074
21° 21′ 40″	0.36424476	0.93130326	0.391112941	2.556806217	1.073764096	2.745406715
21° 21′ 50″	0.36428991	0.93128560	0.391168840	2.556440846	1.073784458	2.745066447
21° 22′ 00″	0.36433506	0.93126793	0.391224741	2.556075565	1.073804823	2.744726270
21° 22′ 10″	0.36438021	0.93125027	0.391280643	2.555710375	1.073825192	2.744386183
21° 22′ 20″	0.36442535	0.93123260	0.391336548	2.555345275	1.073845563	2.744046187
21° 22′ 30″	0.36447050	0.93121493	0.391392455	2.554980266	1.073865939	2.743706282
21° 22′ 40″	0.36451565	0.93119726	0.391448365	2.554615347	1.073886317	2.743366467
21° 22′ 50″	0.36456079	0.93117959	0.391504276	2.554250519	1.073906699	2.743026743
21° 23′ 00″	0.36460594	0.93116191	0.391560189	2.553885781	1.073927084	2.742687109
21° 23′ 10″	0.36465108	0.93114424	0.391616105	2.553521133	1.073947472	2.742347567
21° 23′ 20″	0.36469622	0.93112656	0.391672023	2.553156575	1.073967864	2.742008114
21° 23′ 30″	0.36474136	0.93110888	0.391727942	2.552792108	1.073988259	2.741668752
21° 23′ 40″	0.36478650	0.93109119	0.391783864	2.552427731	1.074008658	2.741329481
21° 23′ 50″	0.36483165	0.93107350	0.391839788	2.552063444	1.074029059	2.740990299
21° 24′ 00″	0.36487678	0.93105582	0.391895715	2.551699247	1.074049464	2.740651209
21° 24′ 10″	0.36492192	0.93103813	0.391951643	2.551335140	1.074069872	2.740312208
21° 24′ 20″	0.36496706	0.93102043	0.392007573	2.550971124	1.074090284	2.739973298
21° 24′ 30″	0.36501220	0.93100274	0.392063506	2.550607197	1.074110699	2.739634478
21° 24′ 40″	0.36505733	0.93098504	0.392119441	2.550243360	1.074131117	2.739295748
21° 24′ 50″	0.36510247	0.93096734	0.392175377	2.549879614	1.074151538	2.738957109
21° 25′ 00″	0.36514760	0.93094964	0.392231316	2.549515957	1.074171963	2.738618560
21° 25′ 10″	0.36519274	0.93093193	0.392287257	2.549152390	1.074192391	2.738280100
21° 25′ 20″	0.36523787	0.93091423	0.392343201	2.548788913	1.074212822	2.737941731
21° 25′ 30″	0.36528300	0.93089652	0.392399146	2.548425526	1.074233257	2.737603452
21° 25′ 40″	0.36532813	0.93087881	0.392455093	2.548062229	1.074253695	2.737265263
21° 25′ 50″	0.36537326	0.93086110	0.392511043	2.547699021	1.074274136	2.736927164
21° 26′ 00″	0.36541839	0.93084338	0.392566995	2.547335903	1.074294580	2.736589155
21° 26′ 10″	0.36546352	0.93082566	0.392622949	2.546972875	1.074315028	2.736251236
21° 26′ 20″	0.36550864	0.93080795	0.392678905	2.546609936	1.074335479	2.735913406
21° 26′ 30″	0.36555377	0.93079022	0.392734863	2.546247087	1.074355934	2.735575667
21° 26′ 40″	0.36559890	0.93077250	0.392790823	2.545884328	1.074376391	2.735238017
21° 26′ 50″	0.36564402	0.93075477	0.392846785	2.545521658	1.074396853	2.734900457
21° 27′ 00″	0.36568914	0.93073705	0.392902750	2.545159077	1.074417317	2.734562987
21° 27′ 10″ 21° 27′ 20″	0.36573427	0.93071932	0.392958716	2.544796586	1.074437785	2.734225606
21° 27′ 20″ 21° 27′ 30″	0.36577939	0.93070158	0.393014685	2.544434185	1.074458255	2.733888315 2.733551114
21° 27′ 30″ 21° 27′ 40″	0.36582451	0.93068385	0.393070656	2.544071873 2.543709650	1.074478730 1.074499207	
21° 27′ 40″ 21° 27′ 50″	0.36586963	0.93066611 0.93064837	0.393126629 0.393182604	2.543709650	1.074499207	2.733214003 2.732876981
= 21 21 30	0.303714/3	0./300403/	0.3/3102004	4.54334/31/	1.074317000	2./ 340/ 0701

161 21° 27′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
21° 28′ 00″	0.36595987	0.93063063	0.393238581	2.542985473	1.074540172	2.732540048
21° 28′ 10″	0.36600499	0.93061289	0.393294561	2.542623518	1.074560660	2.732203205
21° 28′ 20″	0.36605010	0.93059514	0.393350542	2.542261652	1.074581151	2.731866451
21° 28′ 30″	0.36609522	0.93057740	0.393406526	2.541899876	1.074601645	2.731529787
21° 28′ 40″	0.36614034	0.93055965	0.393462512	2.541538188	1.074622142	2.731193212
21° 28′ 50″	0.36618545	0.93054189	0.393518500	2.541176590	1.074642643	2.730856727
21° 29′ 00″	0.36623056	0.93052414	0.393574490	2.540815081	1.074663147	2.730520331
21° 29′ 10″	0.36627568	0.93050638	0.393630482	2.540453661	1.074683654	2.730184024
21° 29′ 20″	0.36632079	0.93048862	0.393686477	2.540092330	1.074704165	2.729847806
21° 29′ 30″	0.36636590	0.93047086	0.393742473	2.539731088	1.074724679	2.729511678
21° 29′ 40″	0.36641101	0.93045310	0.393798472	2.539369935	1.074745196	2.729175639
21° 29′ 50″	0.36645612	0.93043534	0.393854473	2.539008871	1.074765717	2.728839689
21° 30′ 00″	0.36650123	0.93041757	0.393910476	2.538647896	1.074786241	2.728503828
21° 30′ 10″	0.36654633	0.93039980	0.393966481	2.538287009	1.074806768	2.728168056
21° 30′ 20″	0.36659144	0.93038203	0.394022488	2.537926212	1.074827298	2.727832373
21° 30′ 30″	0.36663655	0.93036425	0.394078497	2.537565503	1.074847832	2.727496779
21° 30′ 40″	0.36668165	0.93034648	0.394134509	2.537204883	1.074868369	2.727161274
21° 30′ 50″	0.36672676	0.93032870	0.394190522	2.536844351	1.074888910	2.726825858
21° 31′ 00″	0.36677186	0.93031092	0.394246538	2.536483909	1.074909453	2.726490531
21° 31′ 10″	0.36681696	0.93029314	0.394302556	2.536123554	1.074930000	2.726155293
21° 31′ 20″	0.36686206	0.93027535	0.394358576	2.535763289	1.074950551	2.725820144
21° 31′ 30″	0.36690716	0.93025756	0.394414598	2.535403112	1.074971104	2.725485084
21° 31′ 40″	0.36695226	0.93023977	0.394470623	2.535043024	1.074991661	2.725150112
21° 31′ 50″	0.36699736	0.93022198	0.394526649	2.534683024	1.075012222	2.724815229
21° 32′ 00″	0.36704246	0.93020419	0.394582678	2.534323112	1.075032785	2.724480434
21° 32′ 10″	0.36708756	0.93018639	0.394638709	2.533963289	1.075053352	2.724145729
21° 32′ 20″	0.36713265	0.93016859	0.394694741	2.533603555	1.075073923	2.723811112
21° 32′ 30″	0.36717775	0.93015079	0.394750777	2.533243909	1.075094496	2.723476583
21° 32′ 40″	0.36722284	0.93013299	0.394806814	2.532884351	1.075115073	2.723142144
21° 32′ 50″	0.36726794	0.93011519	0.394862853	2.532524881	1.075135653	2.722807792
21° 33′ 00″	0.36731303	0.93009738	0.394918895	2.532165500	1.075156237	2.722473529
21° 33′ 10″	0.36735812	0.93007957	0.394974938	2.531806207	1.075176824	2.722139355
21° 33′ 20″	0.36740321	0.93006176	0.395030984	2.531447002	1.075197414	2.721805269
21° 33′ 30″	0.36744830	0.93004395	0.395087032	2.531087885	1.075218007	2.721471271
21° 33′ 40″	0.36749339	0.93002613	0.395143082	2.530728856	1.075238604	2.721137362
21° 33′ 50″	0.36753848	0.93000831	0.395199134	2.530369916	1.075259204	2.720803541
21° 34′ 00″	0.36758357	0.92999049	0.395255189	2.530011063	1.075279807	2.720469809
21° 34′ 10″	0.36762866	0.92997267	0.395311245	2.529652299	1.075300414	2.720136164
21° 34′ 20″	0.36767374	0.92995485	0.395367304	2.529293622	1.075321024	2.719802608
21° 34′ 30″	0.36771883	0.92993702	0.395423365	2.528935034	1.075341637	2.719469140
21° 34′ 40″	0.36776391	0.92991919	0.395479428	2.528576533	1.075362254	2.719135761
21° 34′ 50″	0.36780899	0.92990136	0.395535493	2.528218121	1.075382874	2.718802469
21° 35′ 00″	0.36785408	0.92988353	0.395591560	2.527859796	1.075403497	2.718469265
21° 35′ 10″	0.36789916	0.92986569	0.395647629	2.527501559	1.075424124	2.718136150
21° 35′ 20″	0.36794424	0.92984786	0.395703701	2.527143409	1.075444754	2.717803122
21° 35′ 30″	0.36798932	0.92983002	0.395759775	2.526785348	1.075465387	2.717470183
21° 35′ 40″	0.36803440	0.92981218	0.395815851	2.526427374	1.075486024	2.717137331
21° 35′ 50″	0.36807948	0.92979433	0.395871929	2.526069488	1.075506664	2.716804567

162 **21° 35′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
21° 36′ 00″	0.36812455	0.92977649	0.395928009	2.525711689	1.075527307	2.716471892
21° 36′ 10″	0.36816963	0.92975864	0.395984091	2.525353979	1.075547954	2.716139304
21° 36′ 20″	0.36821470	0.92974079	0.396040176	2.524996355	1.075568603	2.715806804
21° 36′ 30″	0.36825978	0.92972293	0.396096262	2.524638820	1.075589257	2.715474391
21° 36′ 40″	0.36830485	0.92970508	0.396152351	2.524281371	1.075609913	2.715142067
21° 36′ 50″	0.36834993	0.92968722	0.396208442	2.523924011	1.075630573	2.714809830
21° 37′ 00″	0.36839500	0.92966936	0.396264535	2.523566737	1.075651236	2.714477680
21° 37′ 10″	0.36844007	0.92965150	0.396320630	2.523209551	1.075671903	2.714145619
21° 37′ 20″	0.36848514	0.92963364	0.396376728	2.522852453	1.075692572	2.713813645
21° 37′ 30″	0.36853021	0.92961577	0.396432827	2.522495442	1.075713246	2.713481759
21° 37′ 40″	0.36857528	0.92959790	0.396488929	2.522138518	1.075733922	2.713149960
21° 37′ 50″	0.36862035	0.92958003	0.396545033	2.521781681	1.075754602	2.712818248
21° 38′ 00″	0.36866541	0.92956216	0.396601139	2.521424932	1.075775285	2.712486624
21° 38′ 10″	0.36871048	0.92954429	0.396657247	2.521068270	1.075795971	2.712155088
21° 38′ 20″	0.36875554	0.92952641	0.396713358	2.520711695	1.075816661	2.711823639
21° 38′ 30″	0.36880061	0.92950853	0.396769470	2.520355207	1.075837354	2.711492277
21° 38′ 40″	0.36884567	0.92949065	0.396825585	2.519998806	1.075858050	2.711161003
21° 38′ 50″	0.36889073	0.92947277	0.396881702	2.519642493	1.075878750	2.710829816
21° 39′ 00″	0.36893580	0.92945488	0.396937821	2.519286266	1.075899453	2.710498716
21° 39′ 10″	0.36898086	0.92943700	0.396993942	2.518930127	1.075920160	2.710167704
21° 39′ 20″	0.36902592	0.92941911	0.397050065	2.518574074	1.075940869	2.709836779
21° 39′ 30″	0.36907098	0.92940121	0.397106191	2.518218108	1.075961582	2.709505940
21° 39′ 40″	0.36911603	0.92938332	0.397162318	2.517862230	1.075982299	2.709175189
21° 39′ 50″	0.36916109	0.92936542	0.397218448	2.517506438	1.076003018	2.708844526
21° 40′ 00″	0.36920615	0.92934752	0.397274580	2.517150733	1.076023741	2.708513949
21° 40′ 10″	0.36925120	0.92932962	0.397330714	2.516795114	1.076044468	2.708183459
21° 40′ 20″	0.36929626	0.92931172	0.397386850	2.516439583	1.076065197	2.707853056
21° 40′ 30″	0.36934131	0.92929382	0.397442989	2.516084138	1.076085930	2.707522741
21° 40′ 40″	0.36938636	0.92927591	0.397499129	2.515728780	1.076106667	2.707192512
21° 40′ 50″	0.36943142	0.92925800	0.397555272	2.515373509	1.076127406	2.706862370
21° 41′ 00″	0.36947647	0.92924009	0.397611417	2.515018324	1.076148149	2.706532315
21° 41′ 10″	0.36952152	0.92922217	0.397667564	2.514663226	1.076168896	2.706202347
21° 41′ 20″	0.36956657	0.92920426	0.397723714	2.514308215	1.076189645	2.705872465
21° 41′ 30″	0.36961162	0.92918634	0.397779865	2.513953290	1.076210398	2.705542671
21° 41′ 40″	0.36965666	0.92916842	0.397836019	2.513598451	1.076231154	2.705212963
21° 41′ 50″ 21° 42′ 00″	0.36970171	0.92915050	0.397892174	2.513243699	1.076251914	2.704883341
21° 42′ 00″ 21° 42′ 10″	0.36974676	0.92913257	0.397948332	2.512889034	1.076272677	2.704553807
21° 42′ 10″ 21° 42′ 20″	0.36979180	0.92911464	0.398004492	2.512534454	1.076293443	2.704224359
21° 42′ 30″	0.36983685	0.92909672	0.398060655	2.512179962	1.076314213	2.703894998
	0.36988189	0.92907878	0.398116819	2.511825555	1.076334986	2.703565723
21° 42′ 40″ 21° 42′ 50″	0.36992693	0.92906085	0.398172986	2.511471235	1.076355762	2.703236535
21° 42′ 50″ 21° 43′ 00″	0.36997197	0.92904292 0.92902498	0.398229154	2.511117001 2.510762853	1.076376542 1.076397325	2.702907433 2.702578418
21° 43′ 00″ 21° 43′ 10″	0.37001702	0.92902498	0.398285325 0.398341498	2.510/62853	1.076397325	2.702578418
21° 43′ 10″ 21° 43′ 20″	0.37006206	0.92900704	0.398341498	2.510408/92	1.076418111	2.702249489
21° 43′ 20″ 21° 43′ 30″	0.37010709	0.92897115	0.398453851	2.510054817	1.076458900	2.701920647
21° 43′ 40″	0.37013213	0.92895320	0.398510031	2.509700928	1.076439693	2.701391891
21° 43′ 50″	0.37019717	0.72873520	0.398566213	2.507547125	1.076480490	2.701263222
	0.3/024221	0.72073320	0.370300213	4. 300//3400	1.07 030 1207	2.700734030

163 **21° 43′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
21° 44′ 00″	0.37028724	0.92891730	0.398622397	2.508639777	1.076522092	2.700606141
21° 44′ 10″	0.37033228	0.92889935	0.398678583	2.508286232	1.076542899	2.700277730
21° 44′ 20″	0.37037731	0.92888140	0.398734771	2.507932773	1.076563708	2.699949406
21° 44′ 30″	0.37042234	0.92886344	0.398790961	2.507579400	1.076584521	2.699621167
21° 44′ 40″	0.37046738	0.92884548	0.398847154	2.507226113	1.076605337	2.699293015
21° 44′ 50″	0.37051241	0.92882752	0.398903349	2.506872912	1.076626157	2.698964949
21° 45′ 00″	0.37055744	0.92880955	0.398959546	2.506519797	1.076646980	2.698636969
21° 45′ 10″	0.37060247	0.92879159	0.399015745	2.506166767	1.076667806	2.698309075
21° 45′ 20″	0.37064750	0.92877362	0.399071946	2.505813823	1.076688636	2.697981267
21° 45′ 30″	0.37069252	0.92875565	0.399128150	2.505460965	1.076709469	2.697653545
21° 45′ 40″	0.37073755	0.92873767	0.399184356	2.505108193	1.076730305	2.697325909
21° 45′ 50″	0.37078258	0.92871970	0.399240564	2.504755506	1.076751145	2.696998359
21° 46′ 00″	0.37082760	0.92870172	0.399296774	2.504402905	1.076771988	2.696670894
21° 46′ 10″	0.37087263	0.92868374	0.399352986	2.504050390	1.076792834	2.696343516
21° 46′ 20″	0.37091765	0.92866576	0.399409200	2.503697960	1.076813684	2.696016223
21° 46′ 30″	0.37096267	0.92864778	0.399465417	2.503345616	1.076834537	2.695689016
21° 46′ 40″	0.37100769	0.92862979	0.399521636	2.502993357	1.076855393	2.695361895
21° 46′ 50″	0.37105271	0.92861180	0.399577857	2.502641184	1.076876253	2.695034860
21° 47′ 00″	0.37109773	0.92859381	0.399634080	2.502289096	1.076897116	2.694707910
21° 47′ 10″	0.37114275	0.92857582	0.399690305	2.501937094	1.076917982	2.694381046
21° 47′ 20″	0.37118777	0.92855783	0.399746532	2.501585177	1.076938852	2.694054268
21° 47′ 30″	0.37123279	0.92853983	0.399802762	2.501233345	1.076959725	2.693727575
21° 47′ 40″	0.37127781	0.92852183	0.399858994	2.500881599	1.076980601	2.693400968
21° 47′ 50″	0.37132282	0.92850383	0.399915228	2.500529938	1.077001481	2.693074446
21° 48′ 00″	0.37136784	0.92848583	0.399971464	2.500178362	1.077022364	2.692748010
21° 48′ 10″	0.37141285	0.92846782	0.400027702	2.499826872	1.077043250	2.692421659
21° 48′ 20″	0.37145786	0.92844981	0.400083943	2.499475466	1.077064140	2.692095393
21° 48′ 30″	0.37150287	0.92843180	0.400140186	2.499124146	1.077085033	2.691769213
21° 48′ 40″	0.37154789	0.92841379	0.400196431	2.498772911	1.077105929	2.691443119
21° 48′ 50″ 21° 49′ 00″	0.37159290	0.92839578	0.400252678	2.498421761	1.077126829	2.691117109
21° 49′ 00″ 21° 49′ 10″	0.37163791 0.37168291	0.92837776	0.400308927	2.498070696 2.497719716	1.077147732	2.690791185
21° 49′ 10″ 21° 49′ 20″	0.37168291	0.92835974 0.92834172	0.400365178 0.400421432	2.497719716	1.077168639 1.077189548	2.690465346 2.690139593
21° 49′ 30″	0.37172772	0.72834172	0.400421432	2.497018011	1.077107346	2.689813925
21° 49′ 40″	0.37177273	0.72832370	0.400533946	2.496667286	1.077231378	2.689488341
21° 49′ 50″	0.37186294	0.92828765	0.400590206	2.496316646	1.077252298	2.689162843
21° 50′ 00″	0.37190794	0.72826763	0.400646469	2.495966091	1.077273221	2.688837430
21° 50′ 10″	0.37195295	0.92825159	0.400702733	2.495615620	1.077294148	2.688512102
21° 50′ 20″	0.37199795	0.92823355	0.400759000	2.495265235	1.077315077	2.688186860
21° 50′ 30″	0.37204295	0.92821552	0.400815269	2.494914934	1.077336011	2.687861702
21° 50′ 40″	0.37208795	0.92819748	0.400871540	2.494564718	1.077356947	2.687536629
21° 50′ 50″	0.37213295	0.92817944	0.400927813	2.494214586	1.077377887	2.687211641
21° 51′ 00″	0.37217795	0.92816139	0.400984089	2.493864539	1.077398830	2.686886738
21° 51′ 10″	0.37222295	0.92814335	0.401040367	2.493514577	1.077419777	2.686561919
21° 51′ 20″	0.37226795	0.92812530	0.401096646	2.493164700	1.077440727	2.686237186
21° 51′ 30″	0.37231294	0.92810725	0.401152928	2.492814907	1.077461680	2.685912538
21° 51′ 40″	0.37235794	0.92808920	0.401209213	2.492465198	1.077482637	2.685587974
21° 51′ 50″	0.37240293	0.92807115	0.401265499	2.492115574	1.077503597	2.685263495
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164 **21° 51′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\csc(x)$
21° 52′ 00″	0.37244793	0.92805309	0.401321788	2.491766035	1.077524560	2.684939100
21° 52′ 10″	0.37244773	0.72803507	0.401378079	2.471766033	1.077545527	2.684614791
21° 52′ 20″	0.37253791	0.72803303	0.401434372	2.491067209	1.077566497	2.684290566
21° 52′ 30″	0.37258290	0.72801877	0.401490667	2.490717923	1.077587470	2.683966425
21° 52′ 40″	0.37258270	0.72777871	0.401546964	2.490368721	1.077608447	2.683642369
21° 52′ 50″	0.37267288	0.72778083	0.401603264	2.490019604	1.077629427	2.683318398
21° 53′ 00″	0.37207288	0.72776278	0.401659566	2.489670570	1.077650410	2.682994511
21° 53′ 10″	0.37271787	0.72774471	0.401715870	2.489321621	1.077671397	2.682670709
21° 53′ 20″	0.37280784	0.72772004	0.401772176	2.488972756	1.077692387	2.682346991
21° 53′ 30″	0.37285283	0.72770037	0.401828484	2.488623976	1.077713381	2.682023358
21° 53′ 40″	0.37289782	0.72787047	0.401884795	2.488275279	1.077734377	2.681699809
21° 53′ 50″	0.37297782	0.72787242	0.401941108	2.487926667	1.077755378	2.681376344
21° 54′ 00″	0.37274280	0.72783434	0.401997423	2.487578139	1.077776381	2.681052964
21° 54′ 10″	0.37276776	0.72783823	0.402053740	2.487229694	1.0777797388	2.680729668
21° 54′ 20″	0.37303276	0.92780008	0.402033740	2.486881334	1.077777388	2.680406456
21° 54′ 30″	0.37307773	0.9278200	0.402110039	2.486533058	1.077839412	2.680083329
21° 54′ 40″	0.37312273	0.72776200	0.402222704	2.486184866	1.077860429	2.679760285
21° 54′ 50″	0.37310771	0.72776376	0.402279030	2.485836757	1.077881449	2.679437326
21° 55′ 00″	0.37321267	0.72774381	0.402335358	2.485488733	1.077902473	2.679114451
21° 55′ 10″	0.37323766	0.72772772	0.402391689	2.485140792	1.077702473	2.678791660
21° 55′ 20″	0.37334762	0.72770702	0.402448021	2.484792936	1.077744530	2.678468953
21° 55′ 30″	0.37339259	0.72767132	0.402504356	2.484445163	1.0777445564	2.678146330
21° 55′ 40″	0.37337237	0.72767542	0.402560693	2.484097473	1.077786601	2.677823791
21° 55′ 50″	0.37348254	0.72763332	0.402617032	2.483749868	1.078007641	2.677501337
21° 56′ 00″	0.37352751	0.72763721	0.402673373	2.483402346	1.078028685	2.677178966
21° 56′ 10″	0.37357248	0.92760099	0.402729717	2.483054908	1.078049732	2.676856679
21° 56′ 20″	0.37361746	0.92758288	0.402786063	2.482707554	1.078070783	2.676534475
21° 56′ 30″	0.37366243	0.92756476	0.402842410	2.482360283	1.078091836	2.676212356
21° 56′ 40″	0.37370739	0.92754665	0.402898761	2.482013096	1.078112894	2.675890321
21° 56′ 50″	0.37375236	0.92752853	0.402955113	2.481665992	1.078133954	2.675568369
21° 57′ 00″	0.37379733	0.92751041	0.403011467	2.481318972	1.078155018	2.675246501
21° 57′ 10″	0.37384230	0.92749228	0.403067824	2.480972035	1.078176085	2.674924717
21° 57′ 20″	0.37388726	0.92747416	0.403124183	2.480625182	1.078197156	2.674603016
21° 57′ 30″	0.37393223	0.92745603	0.403180544	2.480278412	1.078218230	2.674281399
21° 57′ 40″	0.37397719	0.92743790	0.403236908	2.479931726	1.078239307	2.673959866
21° 57′ 50″	0.37402215	0.92741977	0.403293273	2.479585123	1.078260388	2.673638416
21° 58′ 00″	0.37406712	0.92740163	0.403349641	2.479238603	1.078281472	2.673317050
21° 58′ 10″	0.37411208	0.92738350	0.403406011	2.478892166	1.078302559	2.672995767
21° 58′ 20″	0.37415704	0.92736536	0.403462383	2.478545813	1.078323650	2.672674568
21° 58′ 30″	0.37420200	0.92734722	0.403518757	2.478199543	1.078344744	2.672353453
21° 58′ 40″	0.37424696	0.92732908	0.403575134	2.477853356	1.078365842	2.672032420
21° 58′ 50″	0.37429191	0.92731093	0.403631513	2.477507253	1.078386943	2.671711472
21° 59′ 00″	0.37433687	0.92729278	0.403687894	2.477161232	1.078408047	2.671390606
21° 59′ 10″	0.37438183	0.92727463	0.403744277	2.476815295	1.078429154	2.671069824
21° 59′ 20″	0.37442678	0.92725648	0.403800662	2.476469441	1.078450265	2.670749125
21° 59′ 30″	0.37447174	0.92723833	0.403857050	2.476123669	1.078471380	2.670428510
21° 59′ 40″	0.37451669	0.92722017	0.403913440	2.475777981	1.078492497	2.670107978
21° 59′ 50″	0.37456164	0.92720201	0.403969832	2.475432376	1.078513618	2.669787528
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165 21° 59′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
22° 00′ 00″	0.37460659	0.92718385	0.404026226	2.475086853	1.078534743	2.669467163
22° 00′ 10″	0.37465154	0.92716569	0.404082622	2.474741414	1.078555870	2.669146880
22° 00′ 20″	0.37469649	0.92714753	0.404139021	2.474396057	1.078577002	2.668826680
22° 00′ 30″	0.37474144	0.92712936	0.404195422	2.474050784	1.078598136	2.668506564
22° 00′ 40″	0.37478639	0.92711119	0.404251825	2.473705593	1.078619274	2.668186530
22° 00′ 50″	0.37483134	0.92709302	0.404308230	2.473360485	1.078640415	2.667866580
22° 01′ 00″	0.37487628	0.92707485	0.404364638	2.473015459	1.078661560	2.667546712
22° 01′ 10″	0.37492123	0.92705667	0.404421047	2.472670517	1.078682708	2.667226928
22° 01′ 20″	0.37496617	0.92703849	0.404477459	2.472325657	1.078703859	2.666907226
22° 01′ 30″	0.37501112	0.92702031	0.404533873	2.471980880	1.078725013	2.666587608
22° 01′ 40″	0.37505606	0.92700213	0.404590290	2.471636185	1.078746171	2.666268072
22° 01′ 50″	0.37510100	0.92698395	0.404646708	2.471291573	1.078767333	2.665948619
22° 02′ 00″	0.37514594	0.92696576	0.404703129	2.470947043	1.078788498	2.665629249
22° 02′ 10″	0.37519088	0.92694757	0.404759552	2.470602596	1.078809666	2.665309961
22° 02′ 20″	0.37523582	0.92692938	0.404815977	2.470258232	1.078830837	2.664990757
22° 02′ 30″	0.37528076	0.92691119	0.404872405	2.469913950	1.078852012	2.664671635
22° 02′ 40″	0.37532570	0.92689299	0.404928834	2.469569750	1.078873190	2.664352595
22° 02′ 50″	0.37537064	0.92687480	0.404985266	2.469225633	1.078894372	2.664033639
22° 03′ 00″	0.37541557	0.92685660	0.405041700	2.468881599	1.078915557	2.663714765
22° 03′ 10″	0.37546051	0.92683839	0.405098136	2.468537646	1.078936745	2.663395973
22° 03′ 20″	0.37550544	0.92682019	0.405154575	2.468193776	1.078957937	2.663077265
22° 03′ 30″	0.37555037	0.92680198	0.405211016	2.467849988	1.078979132	2.662758638
22° 03′ 40″	0.37559531	0.92678378	0.405267458	2.467506283	1.079000330	2.662440094
22° 03′ 50″	0.37564024	0.92676557	0.405323904	2.467162660	1.079021532	2.662121633
22° 04′ 00″	0.37568517	0.92674735	0.405380351	2.466819118	1.079042737	2.661803254
22° 04′ 10″	0.37573010	0.92672914	0.405436801	2.466475660	1.079063946	2.661484958
22° 04′ 20″	0.37577503	0.92671092	0.405493252	2.466132283	1.079085158	2.661166743
22° 04′ 30″	0.37581995	0.92669270	0.405549706	2.465788988	1.079106373	2.660848611
22° 04′ 40″	0.37586488	0.92667448	0.405606163	2.465445775	1.079127592	2.660530562
22° 04′ 50″	0.37590981	0.92665626	0.405662621	2.465102645	1.079148814	2.660212595
22° 05′ 00″	0.37595473	0.92663803	0.405719082	2.464759596	1.079170039	2.659894710
22° 05′ 10″	0.37599966	0.92661980	0.405775545	2.464416629	1.079191268	2.659576907
22° 05′ 20″	0.37604458	0.92660157	0.405832010	2.464073745	1.079212500	2.659259186
22° 05′ 30″	0.37608950	0.92658334	0.405888477	2.463730942	1.079233735	2.658941548
22° 05′ 40″	0.37613442	0.92656511	0.405944947	2.463388221	1.079254974	2.658623991
22° 05′ 50″	0.37617934	0.92654687	0.406001418	2.463045582	1.079276217	2.658306517
22° 06′ 00″	0.37622426	0.92652863	0.406057892	2.462703025	1.079297462	2.657989125
22° 06′ 10″	0.37626918	0.92651039	0.406114369	2.462360549	1.079318711	2.657671815
22° 06′ 20″	0.37631410	0.92649215	0.406170847	2.462018156	1.079339964	2.657354587
22° 06′ 30″	0.37635902	0.92647390	0.406227328	2.461675844	1.079361219	2.657037441
22° 06′ 40″	0.37640393	0.92645565	0.406283811	2.461333614	1.079382478	2.656720376
22° 06′ 50″	0.37644885	0.92643740	0.406340296	2.460991465	1.079403741	2.656403394
22° 07′ 00″	0.37649376	0.92641915	0.406396783	2.460649398	1.079425007	2.656086493
22° 07′ 10″	0.37653868	0.92640090	0.406453273	2.460307413	1.079446276	2.655769675
22° 07′ 20″	0.37658359	0.92638264	0.406509765	2.459965509	1.079467549	2.655452938
22° 07′ 30″	0.37662850	0.92636438	0.406566259	2.459623687	1.079488825	2.655136283
22° 07′ 40″	0.37667341	0.92634612	0.406622755	2.459281946	1.079510104	2.654819710
22° 07′ 50″	0.37671832	0.92632786	0.406679253	2.458940287	1.079531387	2.654503218

166 22° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
22° 08′ 00″	0.37676323	0.92630960	0.406735754	2.458598709	1.079552673	2.654186808
22° 08′ 10″	0.37680814	0.92629133	0.406792257	2.458257213	1.079573962	2.653870480
22° 08′ 20″	0.37685305	0.92627306	0.406848762	2.457915798	1.079595255	2.653554233
22° 08′ 30″	0.37689795	0.92625479	0.406905270	2.457574464	1.079616552	2.653238068
22° 08′ 40″	0.37694286	0.92623651	0.406961779	2.457233212	1.079637851	2.652921985
22° 08′ 50″	0.37698776	0.92621824	0.407018291	2.456892041	1.079659154	2.652605983
22° 09′ 00″	0.37703267	0.92619996	0.407074805	2.456550951	1.079680461	2.652290062
22° 09′ 10″	0.37707757	0.92618168	0.407131322	2.456209943	1.079701770	2.651974224
22° 09′ 20″	0.37712247	0.92616340	0.407187840	2.455869015	1.079723084	2.651658466
22° 09′ 30″	0.37716737	0.92614511	0.407244361	2.455528169	1.079744400	2.651342790
22° 09′ 40″	0.37721228	0.92612683	0.407300884	2.455187404	1.079765720	2.651027195
22° 09′ 50″	0.37725717	0.92610854	0.407357409	2.454846720	1.079787043	2.650711682
22° 10′ 00″	0.37730207	0.92609025	0.407413937	2.454506118	1.079808370	2.650396250
22° 10′ 10″	0.37734697	0.92607195	0.407470466	2.454165596	1.079829700	2.650080899
22° 10′ 20″	0.37739187	0.92605366	0.407526998	2.453825155	1.079851033	2.649765630
22° 10′ 30″	0.37743676	0.92603536	0.407583533	2.453484796	1.079872370	2.649450442
22° 10′ 40″	0.37748166	0.92601706	0.407640069	2.453144517	1.079893710	2.649135335
22° 10′ 50″	0.37752655	0.92599876	0.407696608	2.452804319	1.079915054	2.648820309
22° 11′ 00″	0.37757145	0.92598046	0.407753148	2.452464202	1.079936401	2.648505364
22° 11′ 10″	0.37761634	0.92596215	0.407809692	2.452124166	1.079957751	2.648190500
22° 11′ 20″	0.37766123	0.92594384	0.407866237	2.451784211	1.079979105	2.647875718
22° 11′ 30″	0.37770612	0.92592553	0.407922785	2.451444337	1.080000462	2.647561016
22° 11′ 40″	0.37775101	0.92590722	0.407979334	2.451104543	1.080021823	2.647246396
22° 11′ 50″	0.37779590	0.92588890	0.408035886	2.450764830	1.080043186	2.646931856
22° 12′ 00″	0.37784079	0.92587058	0.408092441	2.450425198	1.080064554	2.646617398
22° 12′ 10″	0.37788567	0.92585227	0.408148997	2.450085646	1.080085924	2.646303020
22° 12′ 20″	0.37793056	0.92583394	0.408205556	2.449746176	1.080107298	2.645988724
22° 12′ 30″	0.37797545	0.92581562	0.408262117	2.449406785	1.080128676	2.645674508
22° 12′ 40″	0.37802033	0.92579729	0.408318680	2.449067476	1.080150057	2.645360373
22° 12′ 50″	0.37806521	0.92577897	0.408375246	2.448728247	1.080171441	2.645046318
22° 13′ 00″	0.37811010	0.92576064	0.408431814	2.448389098	1.080192828	2.644732345
22° 13′ 10″	0.37815498	0.92574230	0.408488384	2.448050030	1.080214219	2.644418452
22° 13′ 20″	0.37819986	0.92572397	0.408544956	2.447711043	1.080235614	2.644104640
22° 13′ 30″	0.37824474	0.92570563	0.408601530	2.447372136	1.080257011	2.643790909
22° 13′ 40″	0.37828962	0.92568729	0.408658107	2.447033309	1.080278412	2.643477259
22° 13′ 50″ 22° 14′ 00″	0.37833450	0.92566895	0.408714686	2.446694563	1.080299817	2.643163689
22° 14′ 00″ 22° 14′ 10″	0.37837937	0.92565061 0.92563226	0.408771267 0.408827851	2.446355897	1.080321225 1.080342636	2.642850199
	0.37842425			2.446017311		2.642536790
22° 14′ 20″ 22° 14′ 30″	0.37846912 0.37851400	0.92561392 0.92559557	0.408884436 0.408941024	2.445678806 2.445340381	1.080364051 1.080385469	2.642223462 2.641910214
22° 14′ 40″	0.37855887	0.92557721	0.408941024	2.445002036	1.080363467	2.641710214
22° 14′ 40″ 22° 14′ 50″	0.37860375	0.92555886	0.408797814	2.443002036	1.080408890	2.641397047
22° 15′ 00″	0.37864862	0.92554050	0.409034207	2.444325587	1.080428313	2.641263760
22° 15′ 10″	0.37869349	0.92552215	0.409167398	2.443987483	1.080447743	2.640770733
22° 15′ 20″	0.37873836	0.72552215	0.409167398	2.443649459	1.080471173	2.640345182
22° 15′ 30″	0.37878323	0.72530578	0.407223777	2.443311515	1.080514048	2.640032416
22° 15′ 40″	0.37878323	0.72546706	0.407280377	2.443311313	1.080535490	2.639719731
22° 15′ 50″	0.37887296	0.92544869	0.409393808	2.442635867	1.080556935	2.639407126
	2.37 007 270	0.723TT007	0.10/3/3000	2.112033007	1.000330733	2.037 f0/ 120

167 **22° 15′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
22° 16′ 00″	0.37891783	0.92543032	0.409450417	2.442298163	1.080578384	2.639094602
22° 16′ 10″	0.37896270	0.92541195	0.409507027	2.441960539	1.080599836	2.638782157
22° 16′ 20″	0.37900756	0.92539358	0.409563640	2.441622995	1.080621291	2.638469793
22° 16′ 30″	0.37905242	0.92537520	0.409620254	2.441285530	1.080642750	2.638157509
22° 16′ 40″	0.37909729	0.92535682	0.409676871	2.440948146	1.080664212	2.637845305
22° 16′ 50″	0.37914215	0.92533844	0.409733491	2.440610842	1.080685677	2.637533181
22° 17′ 00″	0.37918701	0.92532006	0.409790112	2.440273617	1.080707146	2.637221137
22° 17′ 10″	0.37923187	0.92530167	0.409846736	2.439936472	1.080728619	2.636909173
22° 17′ 20″	0.37927673	0.92528329	0.409903362	2.439599407	1.080750094	2.636597289
22° 17′ 30″	0.37932159	0.92526490	0.409959991	2.439262422	1.080771574	2.636285486
22° 17′ 40″	0.37936645	0.92524651	0.410016621	2.438925516	1.080793056	2.635973762
22° 17′ 50″	0.37941130	0.92522811	0.410073254	2.438588690	1.080814542	2.635662118
22° 18′ 00″	0.37945616	0.92520972	0.410129889	2.438251943	1.080836031	2.635350553
22° 18′ 10″	0.37950101	0.92519132	0.410186527	2.437915277	1.080857524	2.635039069
22° 18′ 20″	0.37954587	0.92517292	0.410243166	2.437578689	1.080879020	2.634727665
22° 18′ 30″	0.37959072	0.92515452	0.410299808	2.437242182	1.080900519	2.634416340
22° 18′ 40″	0.37963557	0.92513611	0.410356452	2.436905753	1.080922022	2.634105095
22° 18′ 50″	0.37968043	0.92511771	0.410413099	2.436569405	1.080943528	2.633793930
22° 19′ 00″	0.37972528	0.92509930	0.410469748	2.436233135	1.080965038	2.633482844
22° 19′ 10″	0.37977013	0.92508089	0.410526398	2.435896946	1.080986551	2.633171838
22° 19′ 20″	0.37981497	0.92506248	0.410583052	2.435560835	1.081008068	2.632860912
22° 19′ 30″	0.37985982	0.92504406	0.410639707	2.435224804	1.081029587	2.632550065
22° 19′ 40″	0.37990467	0.92502564	0.410696365	2.434888852	1.081051111	2.632239298
22° 19′ 50″	0.37994952	0.92500722	0.410753025	2.434552980	1.081072637	2.631928611
22° 20′ 00″	0.37999436	0.92498880	0.410809687	2.434217187	1.081094167	2.631618003
22° 20′ 10″	0.38003920	0.92497038	0.410866351	2.433881473	1.081115701	2.631307474
22° 20′ 20″	0.38008405	0.92495195	0.410923018	2.433545838	1.081137238	2.630997025
22° 20′ 30″	0.38012889	0.92493353	0.410979687	2.433210283	1.081158778	2.630686656
22° 20′ 40″	0.38017373	0.92491510	0.411036358	2.432874806	1.081180322	2.630376365
22° 20′ 50″	0.38021857	0.92489666	0.411093032	2.432539409	1.081201869	2.630066155
22° 21′ 00″	0.38026341	0.92487823	0.411149707	2.432204091	1.081223419	2.629756023
22° 21′ 10″	0.38030825	0.92485979	0.411206385	2.431868852	1.081244973	2.629445971
22° 21′ 20″	0.38035309	0.92484135	0.411263065	2.431533692	1.081266530	2.629135998
22° 21′ 30″	0.38039793	0.92482291	0.411319748	2.431198611	1.081288091	2.628826104
22° 21′ 40″	0.38044276	0.92480447	0.411376433	2.430863609	1.081309655	2.628516290
22° 21′ 50″	0.38048760	0.92478602	0.411433120	2.430528686	1.081331222	2.628206555
22° 22′ 00″	0.38053243	0.92476757	0.411489809	2.430193842	1.081352793	2.627896899
22° 22′ 10″	0.38057727	0.92474913	0.411546501	2.429859077	1.081374367	2.627587322
22° 22′ 20″	0.38062210	0.92473067	0.411603194	2.429524390	1.081395945	2.627277824
22° 22′ 30″	0.38066693	0.92471222	0.411659890	2.429189783	1.081417526	2.626968405
22° 22′ 40″ 22° 22′ 50″	0.38071176	0.92469376	0.411716589	2.428855254	1.081439110	2.626659065
22° 23′ 00″	0.38075659	0.92467530	0.411773289	2.428520804	1.081460698	2.626349805
22° 23′ 00″ 22° 23′ 10″	0.38080142	0.92465684	0.411829992 0.411886697	2.428186433	1.081482290	2.626040623
22° 23′ 10″ 22° 23′ 20″	0.38084625	0.92463838 0.92461992	0.411886697	2.427852140 2.427517927	1.081503884	2.625731520 2.625422496
22° 23′ 20″ 22° 23′ 30″	0.38089108				1.081525482	
22° 23′ 30″ 22° 23′ 40″	0.38093590	0.92460145 0.92458298	0.412000114 0.412056826	2.427183792 2.426849735	1.081547084 1.081568689	2.625113551 2.624804685
22° 23′ 50″	0.38102555	0.92456451	0.412036626	2.426649733	1.081590297	2.624495898
	0.30102333	0.7430431	U.TI4113J41	4.740313/3/	1.0013/047/	2.0244/J070

168 **22° 23′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
22° 24′ 00″	0.38107038	0.92454603	0.412170257	2.426181858	1.081611909	2.624187190
22° 24′ 10″	0.38111520	0.92452756	0.412226976	2.425848037	1.081633524	2.623878560
22° 24′ 20″	0.38116002	0.92450908	0.412283697	2.425514295	1.081655142	2.623570009
22° 24′ 30″	0.38120484	0.92449060	0.412340420	2.425180631	1.081676764	2.623261537
22° 24′ 40″	0.38124966	0.92447212	0.412397146	2.424847045	1.081698389	2.622953144
22° 24′ 50″	0.38129448	0.92445363	0.412453873	2.424513538	1.081720018	2.622644829
22° 25′ 00″	0.38133930	0.92443515	0.412510603	2.424180110	1.081741650	2.622336593
22° 25′ 10″	0.38138412	0.92441666	0.412567336	2.423846760	1.081763286	2.622028435
22° 25′ 20″	0.38142893	0.92439817	0.412624070	2.423513488	1.081784925	2.621720356
22° 25′ 30″	0.38147375	0.92437967	0.412680807	2.423180294	1.081806567	2.621412356
22° 25′ 40″	0.38151856	0.92436118	0.412737546	2.422847179	1.081828213	2.621104434
22° 25′ 50″	0.38156338	0.92434268	0.412794288	2.422514142	1.081849862	2.620796590
22° 26′ 00″	0.38160819	0.92432418	0.412851032	2.422181183	1.081871515	2.620488826
22° 26′ 10″	0.38165300	0.92430568	0.412907777	2.421848303	1.081893171	2.620181139
22° 26′ 20″	0.38169781	0.92428717	0.412964526	2.421515500	1.081914830	2.619873531
22° 26′ 30″	0.38174262	0.92426867	0.413021276	2.421182776	1.081936493	2.619566001
22° 26′ 40″	0.38178743	0.92425016	0.413078029	2.420850130	1.081958159	2.619258550
22° 26′ 50″	0.38183224	0.92423165	0.413134784	2.420517562	1.081979829	2.618951177
22° 27′ 00″	0.38187705	0.92421313	0.413191541	2.420185071	1.082001502	2.618643882
22° 27′ 10″	0.38192186	0.92419462	0.413248301	2.419852659	1.082023178	2.618336665
22° 27′ 20″	0.38196666	0.92417610	0.413305063	2.419520325	1.082044858	2.618029527
22° 27′ 30″	0.38201147	0.92415758	0.413361827	2.419188069	1.082066541	2.617722467
22° 27′ 40″	0.38205627	0.92413906	0.413418593	2.418855891	1.082088228	2.617415485
22° 27′ 50″	0.38210107	0.92412054	0.413475362	2.418523791	1.082109918	2.617108581
22° 28′ 00″	0.38214588	0.92410201	0.413532133	2.418191768	1.082131612	2.616801756
22° 28′ 10″	0.38219068	0.92408348	0.413588906	2.417859824	1.082153309	2.616495008
22° 28′ 20″	0.38223548	0.92406495	0.413645682	2.417527957	1.082175009	2.616188338
22° 28′ 30″	0.38228028	0.92404642	0.413702460	2.417196168	1.082196713	2.615881747
22° 28′ 40″	0.38232508	0.92402789	0.413759240	2.416864457	1.082218420	2.615575233
22° 28′ 50″	0.38236987	0.92400935	0.413816022	2.416532823	1.082240131	2.615268798
22° 29′ 00″	0.38241467	0.92399081	0.413872807	2.416201267	1.082261845	2.614962440
22° 29′ 10″ 22° 29′ 20″	0.38245947	0.92397227	0.413929594	2.415869789	1.082283562	2.614656161
22° 29′ 30″	0.38250426	0.92395373	0.413986383	2.415538389	1.082305283	2.614349959 2.614043835
22° 29′ 40″	0.38259385	0.92393518 0.92391663	0.414043174 0.414099968	2.415207066 2.414875820	1.082327007 1.082348735	2.613737789
22° 29′ 50″	0.38263864	0.92389808	0.414055566	2.414544653	1.082346733	
22° 30′ 00″	0.38268343	0.72387808	0.414136764	2.414213562	1.082370466	2.613125930
22° 30′ 10″	0.38272822	0.72387733	0.414273362	2.413882550	1.082372200	2.612820117
22° 30′ 20″	0.38272822	0.72386078	0.414327166	2.413551614	1.082413738	2.612514382
22° 30′ 30″	0.38281780	0.72384242	0.414383971	2.413220757	1.082457424	2.612208724
22° 30′ 40″	0.38286259	0.92380530	0.414440778	2.412889976	1.082477424	2.611903145
22° 30′ 50″	0.38290738	0.92378674	0.414497588	2.412559273	1.082500924	2.611597642
22° 31′ 00″	0.38270736	0.92376818	0.414554400	2.412228647	1.082522679	2.611292218
22° 31′ 10″	0.38299695	0.92374961	0.414611214	2.411898099	1.082544438	2.610986871
22° 31′ 20″	0.38304173	0.92373104	0.414668031	2.411567628	1.082566199	2.610681601
22° 31′ 30″	0.38308651	0.92371247	0.414724850	2.411237234	1.082587965	2.610376409
22° 31′ 40″	0.38313130	0.92369389	0.414781671	2.410906917	1.082609733	2.610071295
22° 31′ 50″	0.38317608	0.92367532	0.414838494	2.410576678	1.082631505	2.609766258
	1 2.222.7.220	3 200, 002				

169 22° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
22° 32′ 00″	0.38322086	0.92365674	0.414895320	2.410246516	1.082653281	2.609461298
22° 32′ 10″	0.38326564	0.92363816	0.414952148	2.409916431	1.082675060	2.609156416
22° 32′ 20″	0.38331042	0.92361958	0.415008979	2.409586423	1.082696842	2.608851611
22° 32′ 30″	0.38335520	0.92360099	0.415065811	2.409256492	1.082718628	2.608546884
22° 32′ 40″	0.38339997	0.92358241	0.415122646	2.408926638	1.082740417	2.608242234
22° 32′ 50″	0.38344475	0.92356382	0.415179483	2.408596862	1.082762210	2.607937661
22° 33′ 00″	0.38348952	0.92354523	0.415236323	2.408267162	1.082784006	2.607633165
22° 33′ 10″	0.38353430	0.92352663	0.415293164	2.407937539	1.082805805	2.607328747
22° 33′ 20″	0.38357907	0.92350804	0.415350008	2.407607993	1.082827608	2.607024405
22° 33′ 30″	0.38362384	0.92348944	0.415406855	2.407278525	1.082849415	2.606720141
22° 33′ 40″	0.38366862	0.92347084	0.415463703	2.406949133	1.082871224	2.606415954
22° 33′ 50″	0.38371339	0.92345224	0.415520554	2.406619817	1.082893038	2.606111844
22° 34′ 00″	0.38375816	0.92343363	0.415577407	2.406290579	1.082914854	2.605807812
22° 34′ 10″	0.38380292	0.92341503	0.415634263	2.405961418	1.082936674	2.605503856
22° 34′ 20″	0.38384769	0.92339642	0.415691120	2.405632333	1.082958498	2.605199977
22° 34′ 30″	0.38389246	0.92337781	0.415747981	2.405303325	1.082980325	2.604896176
22° 34′ 40″	0.38393723	0.92335920	0.415804843	2.404974394	1.083002155	2.604592451
22° 34′ 50″	0.38398199	0.92334058	0.415861708	2.404645540	1.083023989	2.604288803
22° 35′ 00″	0.38402676	0.92332197	0.415918574	2.404316762	1.083045826	2.603985232
22° 35′ 10″	0.38407152	0.92330335	0.415975444	2.403988060	1.083067666	2.603681738
22° 35′ 20″	0.38411628	0.92328472	0.416032315	2.403659436	1.083089510	2.603378321
22° 35′ 30″	0.38416104	0.92326610	0.416089189	2.403330888	1.083111358	2.603074981
22° 35′ 40″	0.38420580	0.92324748	0.416146065	2.403002416	1.083133209	2.602771718
22° 35′ 50″	0.38425056	0.92322885	0.416202943	2.402674022	1.083155063	2.602468531
22° 36′ 00″	0.38429532	0.92321022	0.416259824	2.402345703	1.083176921	2.602165421
22° 36′ 10″	0.38434008	0.92319158	0.416316707	2.402017461	1.083198782	2.601862388
22° 36′ 20″	0.38438484	0.92317295	0.416373592	2.401689296	1.083220646	2.601559431
22° 36′ 30″	0.38442959	0.92315431	0.416430480	2.401361207	1.083242514	2.601256551
22° 36′ 40″	0.38447435	0.92313568	0.416487370	2.401033194	1.083264386	2.600953748
22° 36′ 50″	0.38451910	0.92311703	0.416544262	2.400705257	1.083286261	2.600651021
22° 37′ 00″	0.38456386	0.92309839	0.416601157	2.400377397	1.083308139	2.600348371
22° 37′ 10″	0.38460861	0.92307975	0.416658053	2.400049614	1.083330021	2.600045797
22° 37′ 20″ 22° 37′ 30″	0.38465336	0.92306110	0.416714952	2.399721906	1.083351906	2.599743300 2.599440880
22° 37′ 30″ 22° 37′ 40″	0.38474286	0.92304245 0.92302380	0.416771854 0.416828757	2.399394275 2.399066720	1.083373794 1.083395686	2.599440880
22° 37′ 40″ 22° 37′ 50″	0.38478761	0.92300514	0.416828737	2.398739241	1.083417582	2.598836268
22° 38′ 00″	0.38483236	0.92300314	0.416942572	2.398411839	1.083439481	2.598534077
22° 38′ 10″	0.38487711	0.72276647	0.416942372	2.398084512	1.083461383	2.598231962
22° 38′ 20″	0.38492185	0.72276763	0.417056395	2.397757262	1.083483289	2.597929923
22° 38′ 30″	0.38496660	0.72274717	0.417036373	2.397430087	1.083505198	2.597627961
22° 38′ 40″	0.38501134	0.72273031	0.417170228	2.397102989	1.083527110	2.597326075
22° 38′ 50″	0.38505609	0.92289317	0.417170228	2.396775967	1.083549026	2.597024265
22° 39′ 00″	0.38510083	0.92287450	0.417284070	2.396449020	1.083570946	2.596722532
22° 39′ 10″	0.38514557	0.72287430	0.417340994	2.396122150	1.083570740	2.596420875
22° 39′ 20″	0.38519031	0.92283716	0.417397921	2.395795356	1.083614795	2.596119293
22° 39′ 30″	0.38523505	0.92281848	0.417454850	2.395468637	1.083636725	2.595817789
22° 39′ 40″	0.38527979	0.92279981	0.417511781	2.395141994	1.083658658	2.595516360
22° 39′ 50″	0.38532453	0.92278113	0.417568715	2.394815428	1.083680595	2.595215007
	1.00002100	5., 22, 5113	2.11.300713	2.07.1010120		2.07.02.10007

170 **22° 39′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
22° 40′ 00″	0.38536927	0.92276244	0.417625651	2.394488937	1.083702535	2.594913730
22° 40′ 10″	0.38541400	0.92274376	0.417682589	2.394162522	1.083724478	2.594612530
22° 40′ 20″	0.38545874	0.92272507	0.417739529	2.393836182	1.083746425	2.594311405
22° 40′ 30″	0.38550347	0.92270638	0.417796472	2.393509919	1.083768376	2.594010357
22° 40′ 40″	0.38554821	0.92268769	0.417853417	2.393183731	1.083790329	2.593709384
22° 40′ 50″	0.38559294	0.92266900	0.417910365	2.392857618	1.083812287	2.593408487
22° 41′ 00″	0.38563767	0.92265031	0.417967314	2.392531582	1.083834247	2.593107667
22° 41′ 10″	0.38568240	0.92263161	0.418024267	2.392205621	1.083856212	2.592806922
22° 41′ 20″	0.38572713	0.92261291	0.418081221	2.391879736	1.083878179	2.592506252
22° 41′ 30″	0.38577186	0.92259421	0.418138178	2.391553926	1.083900150	2.592205659
22° 41′ 40″	0.38581659	0.92257550	0.418195137	2.391228191	1.083922125	2.591905142
22° 41′ 50″	0.38586132	0.92255680	0.418252098	2.390902533	1.083944102	2.591604700
22° 42′ 00″	0.38590604	0.92253809	0.418309061	2.390576950	1.083966084	2.591304334
22° 42′ 10″	0.38595077	0.92251938	0.418366027	2.390251442	1.083988069	2.591004044
22° 42′ 20″	0.38599549	0.92250067	0.418422996	2.389926009	1.084010057	2.590703829
22° 42′ 30″	0.38604022	0.92248195	0.418479966	2.389600652	1.084032048	2.590403690
22° 42′ 40″	0.38608494	0.92246324	0.418536939	2.389275371	1.084054044	2.590103627
22° 42′ 50″	0.38612966	0.92244452	0.418593914	2.388950165	1.084076042	2.589803639
22° 43′ 00″	0.38617438	0.92242579	0.418650892	2.388625034	1.084098044	2.589503727
22° 43′ 10″	0.38621910	0.92240707	0.418707871	2.388299978	1.084120049	2.589203890
22° 43′ 20″	0.38626382	0.92238835	0.418764853	2.387974998	1.084142058	2.588904129
22° 43′ 30″	0.38630854	0.92236962	0.418821838	2.387650093	1.084164071	2.588604444
22° 43′ 40″	0.38635326	0.92235089	0.418878825	2.387325263	1.084186086	2.588304833
22° 43′ 50″	0.38639797	0.92233216	0.418935814	2.387000508	1.084208105	2.588005299
22° 44′ 00″	0.38644269	0.92231342	0.418992805	2.386675829	1.084230128	2.587705839
22° 44′ 10″	0.38648740	0.92229469	0.419049799	2.386351224	1.084252154	2.587406455
22° 44′ 20″	0.38653212	0.92227595	0.419106795	2.386026695	1.084274184	2.587107147
22° 44′ 30″ 22° 44′ 40″	0.38657683	0.92225721	0.419163793	2.385702241	1.084296217	2.586807913
22° 44′ 40″ 22° 44′ 50″	0.38662154	0.92223846 0.92221972	0.419220794 0.419277797	2.385377861	1.084318253	2.586508755
22° 45′ 00″	0.38666625 0.38671096	0.92221972	0.419277797	2.385053557 2.384729328	1.084340293 1.084362336	2.586209673 2.585910665
22° 45′ 10″	0.38675567	0.92218222	0.417334802	2.384405174	1.084384383	2.585611733
22° 45′ 20″	0.38680038	0.92216347	0.419448819	2.384081094	1.084406433	2.585312876
22° 45′ 30″	0.38684509	0.72210347	0.417448817	2.383757090	1.084428487	2.585014094
22° 45′ 40″	0.38688979	0.92212596	0.419562846	2.383433161	1.084450544	2.584715387
22° 45′ 50″	0.38693450	0.92210720	0.419619863	2.383109306	1.084472604	2.584416755
22° 46′ 00″	0.38697920	0.92208844	0.419676882	2.382785526	1.084494668	2.584118198
22° 46′ 10″	0.38702391	0.92206968	0.419733903	2.382461821	1.084516736	2.583819717
22° 46′ 20″	0.38706861	0.92205092	0.419790927	2.382138191	1.084538806	2.583521310
22° 46′ 30″	0.38711331	0.92203215	0.419847953	2.381814635	1.084560881	2.583222979
22° 46′ 40″	0.38715801	0.92201338	0.419904982	2.381491154	1.084582958	2.582924722
22° 46′ 50″	0.38720271	0.92199461	0.419962013	2.381167748	1.084605040	2.582626540
22° 47′ 00″	0.38724741	0.92197584	0.420019046	2.380844417	1.084627124	2.582328433
22° 47′ 10″	0.38729211	0.92195706	0.420076081	2.380521160	1.084649212	2.582030401
22° 47′ 20″	0.38733681	0.92193828	0.420133119	2.380197978	1.084671304	2.581732444
22° 47′ 30″	0.38738150	0.92191950	0.420190159	2.379874870	1.084693399	2.581434562
22° 47′ 40″	0.38742620	0.92190072	0.420247201	2.379551837	1.084715497	2.581136755
22° 47′ 50″	0.38747089	0.92188194	0.420304246	2.379228879	1.084737599	2.580839022

171 22° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
22° 48′ 00″	0.38751559	0.92186315	0.420361293	2.378905995	1.084759705	2.580541364
22° 48′ 10″	0.38756028	0.92184436	0.420418342	2.378583185	1.084781813	2.580243781
22° 48′ 20″	0.38760497	0.92182557	0.420475394	2.378260450	1.084803926	2.579946272
22° 48′ 30″	0.38764966	0.92180678	0.420532448	2.377937789	1.084826041	2.579648838
22° 48′ 40″	0.38769435	0.92178799	0.420589504	2.377615203	1.084848160	2.579351479
22° 48′ 50″	0.38773904	0.92176919	0.420646563	2.377292691	1.084870283	2.579054194
22° 49′ 00″	0.38778373	0.92175039	0.420703624	2.376970253	1.084892409	2.578756984
22° 49′ 10″	0.38782842	0.92173159	0.420760687	2.376647890	1.084914539	2.578459849
22° 49′ 20″	0.38787310	0.92171278	0.420817753	2.376325601	1.084936672	2.578162788
22° 49′ 30″	0.38791779	0.92169398	0.420874821	2.376003386	1.084958808	2.577865801
22° 49′ 40″	0.38796247	0.92167517	0.420931891	2.375681245	1.084980948	2.577568889
22° 49′ 50″	0.38800716	0.92165636	0.420988964	2.375359179	1.085003091	2.577272052
22° 50′ 00″	0.38805184	0.92163755	0.421046039	2.375037187	1.085025238	2.576975289
22° 50′ 10″	0.38809652	0.92161873	0.421103116	2.374715269	1.085047388	2.576678600
22° 50′ 20″	0.38814120	0.92159992	0.421160196	2.374393425	1.085069542	2.576381985
22° 50′ 30″	0.38818588	0.92158110	0.421217278	2.374071655	1.085091699	2.576085445
22° 50′ 40″	0.38823056	0.92156228	0.421274362	2.373749959	1.085113860	2.575788980
22° 50′ 50″	0.38827524	0.92154345	0.421331449	2.373428337	1.085136024	2.575492588
22° 51′ 00″	0.38831992	0.92152463	0.421388538	2.373106789	1.085158191	2.575196271
22° 51′ 10″	0.38836459	0.92150580	0.421445629	2.372785316	1.085180362	2.574900028
22° 51′ 20″	0.38840927	0.92148697	0.421502723	2.372463916	1.085202537	2.574603859
22° 51′ 30″	0.38845394	0.92146814	0.421559819	2.372142590	1.085224714	2.574307764
22° 51′ 40″	0.38849862	0.92144931	0.421616917	2.371821338	1.085246896	2.574011744
22° 51′ 50″	0.38854329	0.92143047	0.421674018	2.371500160	1.085269081	2.573715798
22° 52′ 00″	0.38858796	0.92141163	0.421731121	2.371179055	1.085291269	2.573419925
22° 52′ 10″	0.38863263	0.92139279	0.421788226	2.370858025	1.085313460	2.573124127
22° 52′ 20″	0.38867730	0.92137395	0.421845333	2.370537068	1.085335656	2.572828403
22° 52′ 30″	0.38872197	0.92135511	0.421902443	2.370216185	1.085357854	2.572532753
22° 52′ 40″	0.38876664	0.92133626	0.421959556	2.369895376	1.085380056	2.572237177
22° 52′ 50″	0.38881131	0.92131741	0.422016670	2.369574641	1.085402262	2.571941675
22° 53′ 00″	0.38885597	0.92129856	0.422073787	2.369253979	1.085424471	2.571646246
22° 53′ 10″	0.38890064	0.92127970	0.422130907	2.368933391	1.085446683	2.571350892
22° 53′ 20″	0.38894530	0.92126085	0.422188028	2.368612876	1.085468899	2.571055611
22° 53′ 30″	0.38898997	0.92124199	0.422245152	2.368292435	1.085491119	2.570760405
22° 53′ 40″	0.38903463	0.92122313	0.422302279	2.367972068	1.085513341	2.570465272
22° 53′ 50″	0.38907929	0.92120427	0.422359407	2.367651774	1.085535568	2.570170213
22° 54′ 00″	0.38912395	0.92118541	0.422416538	2.367331554	1.085557798	2.569875228
22° 54′ 10″	0.38916861	0.92116654	0.422473672	2.367011407	1.085580031	2.569580316
22° 54′ 20″	0.38921327	0.92114767	0.422530807	2.366691334	1.085602267	2.569285479
22° 54′ 30″	0.38925793	0.92112880	0.422587945	2.366371334	1.085624508	2.568990714
22° 54′ 40″	0.38930258	0.92110993	0.422645086	2.366051408	1.085646751	2.568696024
22° 54′ 50″	0.38934724	0.92109105	0.422702228	2.365731555	1.085668998	2.568401407
22° 55′ 00″	0.38939190	0.92107218	0.422759373	2.365411775	1.085691249	2.568106864
22° 55′ 10″	0.38943655	0.92105330	0.422816521	2.365092069	1.085713503	2.567812394
22° 55′ 20″	0.38948120	0.92103441	0.422873671	2.364772436	1.085735760	2.567517998
22° 55′ 30″	0.38952586	0.92101553	0.422930823	2.364452876	1.085758021	2.567223676
22° 55′ 40″	0.38957051	0.92099664	0.422987977	2.364133389	1.085780286	2.566929427
22° 55′ 50″	0.38961516	0.92097776	0.423045134	2.363813976	1.085802554	2.566635251

172 22° 55′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
22° 56′ 00″	0.38965981	0.92095887	0.423102293	2.363494636	1.085824825	2.566341149
22° 56′ 10″	0.38970446	0.92093997	0.423159454	2.363175369	1.085847100	2.566047121
22° 56′ 20″	0.38974911	0.92092108	0.423216618	2.362856175	1.085869378	2.565753165
22° 56′ 30″	0.38979375	0.92090218	0.423273784	2.362537055	1.085891660	2.565459283
22° 56′ 40″	0.38983840	0.92088328	0.423330953	2.362218007	1.085913945	2.565165475
22° 56′ 50″	0.38988304	0.92086438	0.423388124	2.361899033	1.085936234	2.564871740
22° 57′ 00″	0.38992769	0.92084548	0.423445297	2.361580131	1.085958526	2.564578078
22° 57′ 10″	0.38997233	0.92082657	0.423502472	2.361261303	1.085980821	2.564284489
22° 57′ 20″	0.39001697	0.92080767	0.423559650	2.360942548	1.086003120	2.563990974
22° 57′ 30″	0.39006162	0.92078876	0.423616831	2.360623865	1.086025423	2.563697531
22° 57′ 40″	0.39010626	0.92076985	0.423674013	2.360305256	1.086047729	2.563404162
22° 57′ 50″	0.39015090	0.92075093	0.423731198	2.359986719	1.086070038	2.563110866
22° 58′ 00″	0.39019553	0.92073202	0.423788385	2.359668255	1.086092351	2.562817644
22° 58′ 10″	0.39024017	0.92071310	0.423845575	2.359349864	1.086114668	2.562524494
22° 58′ 20″	0.39028481	0.92069418	0.423902767	2.359031546	1.086136988	2.562231417
22° 58′ 30″	0.39032945	0.92067525	0.423959961	2.358713301	1.086159311	2.561938414
22° 58′ 40″	0.39037408	0.92065633	0.424017158	2.358395129	1.086181638	2.561645483
22° 58′ 50″	0.39041871	0.92063740	0.424074357	2.358077029	1.086203968	2.561352626
22° 59′ 00″	0.39046335	0.92061847	0.424131558	2.357759002	1.086226302	2.561059841
22° 59′ 10″	0.39050798	0.92059954	0.424188762	2.357441048	1.086248639	2.560767130
22° 59′ 20″	0.39055261	0.92058061	0.424245968	2.357123166	1.086270980	2.560474491
22° 59′ 30″	0.39059724	0.92056167	0.424303177	2.356805357	1.086293324	2.560181925
22° 59′ 40″	0.39064187	0.92054274	0.424360388	2.356487621	1.086315672	2.559889433
22° 59′ 50″	0.39068650	0.92052380	0.424417601	2.356169957	1.086338023	2.559597012
23° 00′ 00″	0.39073113	0.92050485	0.424474816	2.355852366	1.086360377	2.559304665
23° 00′ 10″	0.39077576	0.92048591	0.424532034	2.355534847	1.086382735	2.559012391
23° 00′ 20″	0.39082038	0.92046696	0.424589254	2.355217401	1.086405097	2.558720189
23° 00′ 30″	0.39086501	0.92044801	0.424646477	2.354900027	1.086427462	2.558428060
23° 00′ 40″	0.39090963	0.92042906	0.424703702	2.354582726	1.086449831	2.558136004
23° 00′ 50″	0.39095425	0.92041011	0.424760929	2.354265497	1.086472203	2.557844020
23° 01′ 00″	0.39099888	0.92039116	0.424818159	2.353948341	1.086494578	2.557552109
23° 01′ 10″	0.39104350	0.92037220	0.424875391	2.353631257	1.086516957	2.557260271
23° 01′ 20″	0.39108812	0.92035324	0.424932625	2.353314245	1.086539339	2.556968505
23° 01′ 30″	0.39113274	0.92033428	0.424989862	2.352997306	1.086561725	2.556676812
23° 01′ 40″	0.39117736	0.92031531	0.425047101	2.352680439	1.086584115	2.556385192
23° 01′ 50″	0.39122197	0.92029635	0.425104342	2.352363644	1.086606507	2.556093644
23° 02′ 00″	0.39126659	0.92027738	0.425161586	2.352046922	1.086628904	2.555802168
23° 02′ 10″	0.39131121	0.92025841	0.425218832	2.351730272	1.086651303	2.555510765
23° 02′ 20″	0.39135582	0.92023944	0.425276081	2.351413694	1.086673707	2.555219435
23° 02′ 30″	0.39140044	0.92022046	0.4253333332	2.351097188	1.086696113	2.554928176
23° 02′ 40″	0.39144505	0.92020149	0.425390585	2.350780754	1.086718524	2.554636991
23° 02′ 50″	0.39148966	0.92018251	0.425447841	2.350464393	1.086740937	2.554345877
23° 03′ 00″	0.39153427	0.92016353	0.425505098	2.350148103	1.086763355	2.554054836
23° 03′ 10″	0.39157888	0.92014454	0.425562359	2.349831886	1.086785775	2.553763867
23° 03′ 20″	0.39162349	0.92012556	0.425619621	2.349515740	1.086808199	2.553472971
23° 03′ 30″	0.39166810	0.92010657	0.425676887	2.349199667	1.086830627	2.553182147
23° 03′ 40″ 23° 03′ 50″	0.39171271	0.92008758	0.425734154	2.348883665	1.086853058	2.552891395
25 05 50"	0.39175731	0.92006859	0.425791424	2.348567736	1.086875493	2.552600715

173 23° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
23° 04′ 00″	0.39180192	0.92004959	0.425848696	2.348251878	1.086897931	2.552310108
23° 04′ 10″	0.39184652	0.92003060	0.425905970	2.347936093	1.086920372	2.552019572
23° 04′ 20″	0.39189113	0.92001160	0.425963247	2.347620379	1.086942817	2.551729109
23° 04′ 30″	0.39193573	0.91999260	0.426020526	2.347304737	1.086965266	2.551438718
23° 04′ 40″	0.39198033	0.91997360	0.426077808	2.346989167	1.086987718	2.551148399
23° 04′ 50″	0.39202493	0.91995459	0.426135092	2.346673669	1.087010173	2.550858152
23° 05′ 00″	0.39206953	0.91993558	0.426192378	2.346358243	1.087032632	2.550567977
23° 05′ 10″	0.39211413	0.91991658	0.426249667	2.346042888	1.087055095	2.550277874
23° 05′ 20″	0.39215873	0.91989756	0.426306958	2.345727605	1.087077561	2.549987843
23° 05′ 30″	0.39220333	0.91987855	0.426364252	2.345412394	1.087100030	2.549697884
23° 05′ 40″	0.39224793	0.91985954	0.426421547	2.345097254	1.087122503	2.549407996
23° 05′ 50″	0.39229252	0.91984052	0.426478846	2.344782186	1.087144979	2.549118181
23° 06′ 00″	0.39233712	0.91982150	0.426536146	2.344467190	1.087167459	2.548828438
23° 06′ 10″	0.39238171	0.91980248	0.426593449	2.344152265	1.087189942	2.548538766
23° 06′ 20″	0.39242630	0.91978345	0.426650754	2.343837412	1.087212429	2.548249167
23° 06′ 30″	0.39247090	0.91976442	0.426708062	2.343522631	1.087234919	2.547959639
23° 06′ 40″	0.39251549	0.91974540	0.426765372	2.343207921	1.087257413	2.547670183
23° 06′ 50″	0.39256008	0.91972637	0.426822684	2.342893282	1.087279911	2.547380798
23° 07′ 00″	0.39260467	0.91970733	0.426879999	2.342578715	1.087302411	2.547091486
23° 07′ 10″	0.39264925	0.91968830	0.426937316	2.342264219	1.087324916	2.546802245
23° 07′ 20″	0.39269384	0.91966926	0.426994636	2.341949795	1.087347423	2.546513075
23° 07′ 30″	0.39273843	0.91965022	0.427051958	2.341635442	1.087369935	2.546223978
23° 07′ 40″	0.39278301	0.91963118	0.427109282	2.341321161	1.087392449	2.545934952
23° 07′ 50″	0.39282760	0.91961214	0.427166609	2.341006951	1.087414968	2.545645997
23° 08′ 00″	0.39287218	0.91959309	0.427223938	2.340692812	1.087437489	2.545357114
23° 08′ 10″	0.39291676	0.91957404	0.427281269	2.340378744	1.087460014	2.545068303
23° 08′ 20″	0.39296135	0.91955499	0.427338603	2.340064748	1.087482543	2.544779563
23° 08′ 30″	0.39300593	0.91953594	0.427395939	2.339750823	1.087505075	2.544490895
23° 08′ 40″	0.39305051	0.91951688	0.427453277	2.339436969	1.087527611	2.544202298
23° 08′ 50″	0.39309508	0.91949783	0.427510618	2.339123187	1.087550150	2.543913773
23° 09′ 00″	0.39313966	0.91947877	0.427567962	2.338809475	1.087572693	2.543625319
23° 09′ 10″	0.39318424	0.91945971	0.427625307	2.338495835	1.087595239	2.543336936
23° 09′ 20″	0.39322882	0.91944064	0.427682655	2.338182266	1.087617788	2.543048625
23° 09′ 30″	0.39327339	0.91942158	0.427740006	2.337868767	1.087640342	2.542760385
23° 09′ 40″	0.39331797	0.91940251	0.427797359	2.337555340	1.087662898	2.542472216
23° 09′ 50″	0.39336254	0.91938344	0.427854714	2.337241984	1.087685458	2.542184119
23° 10′ 00″	0.39340711	0.91936437	0.427912071	2.336928699	1.087708022	2.541896093
23° 10′ 10″	0.39345168	0.91934530	0.427969431	2.336615485	1.087730589	2.541608138
23° 10′ 20″	0.39349625	0.91932622	0.428026793	2.336302342	1.087753159	2.541320254
23° 10′ 30″	0.39354082	0.91930714	0.428084158	2.335989270	1.087775734	2.541032442
23° 10′ 40″ 23° 10′ 50″	0.39358539	0.91928806	0.428141525	2.335676269	1.087798311	2.540744700
23° 11′ 00″	0.39362996	0.91926898	0.428198895	2.335363338	1.087820892	2.540457030
23° 11′ 10″ 23° 11′ 10″	0.39367453	0.91924989 0.91923081	0.428256266	2.335050479 2.334737690	1.087843477	2.540169431
23° 11′ 10″ 23° 11′ 20″	0.39371909	0.91923081	0.428313641		1.087866065	2.539881903
23° 11′ 20″ 23° 11′ 30″	0.39376366	0.91921172	0.428371017	2.334424972	1.087888656	2.539594446
23° 11′ 30″ 23° 11′ 40″	0.39380822 0.39385279	0.91919263	0.428428396 0.428485778	2.334112325 2.333799749	1.087911251 1.087933850	2.539307060 2.539019745
23° 11′ 50″	0.37383277	0.91917333	0.428543161	2.333487243	1.087956452	2.538732501
	0.37307733	V./ I / I J 111	0.740343101	2,33340/243	1.007/30432	2,330132301

174 23° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
23° 12′ 00″	0.39394191	0.91913534	0.428600547	2.333174808	1.087979057	2.538445328
23° 12′ 10″	0.39398647	0.91911624	0.428657936	2.332862444	1.088001666	2.538158226
23° 12′ 20″	0.39403103	0.91909714	0.428715327	2.332550150	1.088024279	2.537871195
23° 12′ 30″	0.39407559	0.91907803	0.428772720	2.332237927	1.088046895	2.537584235
23° 12′ 40″	0.39412015	0.91905893	0.428830116	2.331925775	1.088069514	2.537297345
23° 12′ 50″	0.39416470	0.91903982	0.428887514	2.331613693	1.088092137	2.537010527
23° 13′ 00″	0.39420926	0.91902071	0.428944914	2.331301681	1.088114764	2.536723779
23° 13′ 10″	0.39425381	0.91900159	0.429002317	2.330989741	1.088137394	2.536437102
23° 13′ 20″	0.39429837	0.91898248	0.429059722	2.330677870	1.088160027	2.536150495
23° 13′ 30″	0.39434292	0.91896336	0.429117130	2.330366071	1.088182664	2.535863960
23° 13′ 40″	0.39438747	0.91894424	0.429174540	2.330054341	1.088205305	2.535577495
23° 13′ 50″	0.39443202	0.91892512	0.429231952	2.329742682	1.088227949	2.535291101
23° 14′ 00″	0.39447657	0.91890600	0.429289367	2.329431094	1.088250596	2.535004777
23° 14′ 10″	0.39452112	0.91888687	0.429346784	2.329119576	1.088273247	2.534718524
23° 14′ 20″	0.39456567	0.91886774	0.429404204	2.328808128	1.088295902	2.534432342
23° 14′ 30″	0.39461022	0.91884861	0.429461626	2.328496750	1.088318560	2.534146230
23° 14′ 40″	0.39465477	0.91882948	0.429519050	2.328185443	1.088341221	2.533860189
23° 14′ 50″	0.39469931	0.91881035	0.429576477	2.327874206	1.088363887	2.533574218
23° 15′ 00″	0.39474386	0.91879121	0.429633906	2.327563039	1.088386555	2.533288318
23° 15′ 10″	0.39478840	0.91877207	0.429691337	2.327251943	1.088409227	2.533002488
23° 15′ 20″	0.39483294	0.91875293	0.429748771	2.326940917	1.088431903	2.532716729
23° 15′ 30″	0.39487748	0.91873379	0.429806208	2.326629960	1.088454582	2.532431040
23° 15′ 40″	0.39492203	0.91871464	0.429863646	2.326319075	1.088477264	2.532145422
23° 15′ 50″	0.39496657	0.91869549	0.429921087	2.326008259	1.088499950	2.531859874
23° 16′ 00″	0.39501111	0.91867634	0.429978531	2.325697513	1.088522640	2.531574396
23° 16′ 10″	0.39505564	0.91865719	0.430035977	2.325386837	1.088545333	2.531288988
23° 16′ 20″	0.39510018	0.91863804	0.430093425	2.325076232	1.088568029	2.531003651
23° 16′ 30″	0.39514472	0.91861888	0.430150876	2.324765696	1.088590729	2.530718384
23° 16′ 40″	0.39518925	0.91859972	0.430208329	2.324455230	1.088613433	2.530433188
23° 16′ 50″	0.39523379	0.91858056	0.430265784	2.324144835	1.088636140	2.530148061
23° 17′ 00″	0.39527832	0.91856140	0.430323242	2.323834509	1.088658850	2.529863005
23° 17′ 10″	0.39532285	0.91854224	0.430380702	2.323524253	1.088681565	2.529578019
23° 17′ 20″	0.39536738	0.91852307	0.430438165	2.323214067	1.088704282	2.529293103
23° 17′ 30″	0.39541192	0.91850390	0.430495630	2.322903951	1.088727003	2.529008257
23° 17′ 40″	0.39545645	0.91848473	0.430553098	2.322593905	1.088749728	2.528723482
23° 17′ 50″	0.39550097	0.91846556		2.322283928	1.088772456	2.528438776
23° 18′ 00″	0.39554550	0.91844638	0.430668040	2.321974022	1.088795188	2.528154140
23° 18′ 10″	0.39559003	0.91842720	0.430725514	2.321664185	1.088817923	2.527869575
23° 18′ 20″	0.39563456	0.91840802	0.430782991	2.321354418	1.088840661	2.527585079
23° 18′ 30″	0.39567908	0.91838884	0.430840471	2.321044720	1.088863403	2.527300654
23° 18′ 40″	0.39572361	0.91836966	0.430897953	2.320735093	1.088886149	2.527016298
23° 18′ 50″	0.39576813	0.91835047	0.430955437	2.320425535	1.088908898	2.526732012
23° 19′ 00″	0.39581265	0.91833128	0.431012924	2.320116046	1.088931651	2.526447796
23° 19′ 10″	0.39585717	0.91831209	0.431070413	2.319806627	1.088954407	2.526163650
23° 19′ 20″	0.39590169	0.91829290	0.431127904	2.319497278	1.088977167	2.525879574
23° 19′ 30″	0.39594621	0.91827370	0.431185398	2.319187999	1.088999930	2.525595568
23° 19′ 40″	0.39599073	0.91825451	0.431242894	2.318878788	1.089022697	2.525311631
23° 19′ 50″	0.39603525	0.91823531	0.431300393	2.318569648	1.089045467	2.525027765

175 23° 19′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
23° 20′ 00″	0.39607977	0.91821611	0.431357894	2.318260577	1.089068241	2.524743968
23° 20′ 10″	0.39612428	0.91819690	0.431415397	2.317951575	1.089091018	2.524460240
23° 20′ 20″	0.39616880	0.91817770	0.431472903	2.317642643	1.089113799	2.524176583
23° 20′ 30″	0.39621331	0.91815849	0.431530412	2.317333780	1.089136583	2.523892995
23° 20′ 40″	0.39625782	0.91813928	0.431587922	2.317024987	1.089159371	2.523609477
23° 20′ 50″	0.39630234	0.91812007	0.431645435	2.316716263	1.089182162	2.523326028
23° 21′ 00″	0.39634685	0.91810085	0.431702951	2.316407608	1.089204957	2.523042649
23° 21′ 10″	0.39639136	0.91808164	0.431760469	2.316099023	1.089227755	2.522759339
23° 21′ 20″	0.39643587	0.91806242	0.431817989	2.315790507	1.089250557	2.522476099
23° 21′ 30″	0.39648038	0.91804320	0.431875512	2.315482060	1.089273362	2.522192929
23° 21′ 40″	0.39652488	0.91802397	0.431933037	2.315173683	1.089296171	2.521909828
23° 21′ 50″	0.39656939	0.91800475	0.431990565	2.314865374	1.089318984	2.521626797
23° 22′ 00″	0.39661390	0.91798552	0.432048095	2.314557135	1.089341799	2.521343835
23° 22′ 10″	0.39665840	0.91796629	0.432105627	2.314248965	1.089364619	2.521060942
23° 22′ 20″	0.39670290	0.91794706	0.432163162	2.313940864	1.089387442	2.520778119
23° 22′ 30″	0.39674741	0.91792783	0.432220699	2.313632833	1.089410268	2.520495365
23° 22′ 40″	0.39679191	0.91790859	0.432278239	2.313324870	1.089433098	2.520212680
23° 22′ 50″	0.39683641	0.91788935	0.432335781	2.313016977	1.089455932	2.519930065
23° 23′ 00″	0.39688091	0.91787011	0.432393325	2.312709152	1.089478769	2.519647519
23° 23′ 10″	0.39692541	0.91785087	0.432450872	2.312401397	1.089501609	2.519365043
23° 23′ 20″	0.39696991	0.91783163	0.432508421	2.312093710	1.089524453	2.519082636
23° 23′ 30″	0.39701440	0.91781238	0.432565973	2.311786093	1.089547301	2.518800297
23° 23′ 40″	0.39705890	0.91779313	0.432623527	2.311478544	1.089570152	2.518518029
23° 23′ 50″	0.39710340	0.91777388	0.432681083	2.311171065	1.089593007	2.518235829
23° 24′ 00″	0.39714789	0.91775463	0.432738642	2.310863654	1.089615865	2.517953698
23° 24′ 10″	0.39719238	0.91773537	0.432796204	2.310556312	1.089638726	2.517671637
23° 24′ 20″	0.39723688	0.91771611	0.432853767	2.310249039	1.089661591	2.517389645
23° 24′ 30″	0.39728137	0.91769685	0.432911333	2.309941835	1.089684460	2.517107721
23° 24′ 40″	0.39732586	0.91767759	0.432968902	2.309634699	1.089707332	2.516825867
23° 24′ 50″	0.39737035	0.91765833	0.433026473	2.309327633	1.089730208	2.516544082
23° 25′ 00″	0.39741484	0.91763906	0.433084046	2.309020635	1.089753087	2.516262366
23° 25′ 10″	0.39745933	0.91761979	0.433141622	2.308713706	1.089775970	2.515980719
23° 25′ 20″ 23° 25′ 30″	0.39750381	0.91760052	0.433199201	2.308406846	1.089798856	2.515699140
23° 25′ 30″ 23° 25′ 40″	0.39754830	0.91758125	0.433256781	2.308100054	1.089821746	2.515417631
	0.39759278	0.91756198	0.433314364	2.307793331	1.089844640	2.515136191
23° 25′ 50″ 23° 26′ 00″	0.39763727 0.39768175	0.91754270	0.433371950	2.307486676	1.089867536	2.514854819
23° 26′ 10″		0.91752342 0.91750414	0.433429538	2.307180090	1.089890437	2.514573516
	0.39772623		0.433487128	2.306873573	1.089913341	2.514292283
23° 26′ 20″ 23° 26′ 30″	0.39777072 0.39781520	0.91748485 0.91746557	0.433544721 0.433602316	2.306567124 2.306260744	1.089936248 1.089959159	2.514011118 2.513730021
23° 26′ 30″ 23° 26′ 40″	0.39781520	0.91746557	0.433659914	2.306260744	1.089959159	2.513/30021
23° 26′ 50″	0.39790415	0.91744628	0.433717514	2.305648189	1.090004992	2.513168035
23° 27′ 00″	0.39794863	0.91742699	0.433775116	2.305342014	1.090004992	2.512887145
23° 27′ 10″	0.39799311	0.91740770	0.433773116	2.305035908	1.090027913	2.512606324
23° 27′ 20″	0.39803758	0.71736641	0.433890328	2.303033708	1.090030838	2.512808324
23° 27′ 30″	0.37803738	0.91734981	0.433947938	2.304727870	1.090096699	2.512323371
23° 27′ 40″	0.39812653	0.71734781	0.433747736	2.304423701	1.090119635	2.512044887
23° 27′ 50″	0.37812033	0.91731121	0.434063165	2.303812167	1.090142574	2.511764272
	0.37017101	0,71731121	2.131003103	2.303012107	1.070172374	2. 311 f03/23

176 23° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
23° 28′ 00″	0.39821548	0.91729190	0.434120782	2.303506402	1.090165516	2.511203246
23° 28′ 10″	0.39825995	0.91727259	0.434178401	2.303200706	1.090188463	2.510922837
23° 28′ 20″	0.39830442	0.91725329	0.434236023	2.302895078	1.090211412	2.510642495
23° 28′ 30″	0.39834889	0.91723397	0.434293647	2.302589518	1.090234366	2.510362223
23° 28′ 40″	0.39839336	0.91721466	0.434351274	2.302284027	1.090257322	2.510082018
23° 28′ 50″	0.39843782	0.91719534	0.434408903	2.301978603	1.090280283	2.509801883
23° 29′ 00″	0.39848229	0.91717603	0.434466535	2.301673248	1.090303247	2.509521815
23° 29′ 10″	0.39852676	0.91715671	0.434524169	2.301367961	1.090326214	2.509241816
23° 29′ 20″	0.39857122	0.91713738	0.434581805	2.301062742	1.090349185	2.508961886
23° 29′ 30″	0.39861568	0.91711806	0.434639444	2.300757591	1.090372159	2.508682023
23° 29′ 40″	0.39866015	0.91709873	0.434697085	2.300452509	1.090395137	2.508402229
23° 29′ 50″	0.39870461	0.91707941	0.434754729	2.300147494	1.090418119	2.508122504
23° 30′ 00″	0.39874907	0.91706007	0.434812375	2.299842547	1.090441104	2.507842846
23° 30′ 10″	0.39879353	0.91704074	0.434870024	2.299537669	1.090464093	2.507563257
23° 30′ 20″	0.39883799	0.91702141	0.434927675	2.299232858	1.090487085	2.507283736
23° 30′ 30″	0.39888245	0.91700207	0.434985328	2.298928115	1.090510080	2.507004284
23° 30′ 40″	0.39892690	0.91698273	0.435042984	2.298623440	1.090533080	2.506724899
23° 30′ 50″	0.39897136	0.91696339	0.435100642	2.298318833	1.090556082	2.506445583
23° 31′ 00″	0.39901581	0.91694404	0.435158303	2.298014294	1.090579089	2.506166334
23° 31′ 10″	0.39906027	0.91692470	0.435215966	2.297709823	1.090602098	2.505887154
23° 31′ 20″	0.39910472	0.91690535	0.435273632	2.297405419	1.090625112	2.505608042
23° 31′ 30″	0.39914917	0.91688600	0.435331300	2.297101084	1.090648129	2.505328998
23° 31′ 40″	0.39919363	0.91686665	0.435388970	2.296796816	1.090671149	2.505050022
23° 31′ 50″	0.39923808	0.91684729	0.435446643	2.296492616	1.090694173	2.504771114
23° 32′ 00″	0.39928253	0.91682794	0.435504318	2.296188484	1.090717200	2.504492274
23° 32′ 10″	0.39932697	0.91680858	0.435561996	2.295884419	1.090740231	2.504213502
23° 32′ 20″	0.39937142	0.91678922	0.435619676	2.295580422	1.090763266	2.503934798
23° 32′ 30″	0.39941587	0.91676985	0.435677359	2.295276493	1.090786304	2.503656162
23° 32′ 40″	0.39946031	0.91675049	0.435735044	2.294972631	1.090809346	2.503377594
23° 32′ 50″	0.39950476	0.91673112	0.435792731	2.294668837	1.090832391	2.503099093
23° 33′ 00″	0.39954920	0.91671175	0.435850421	2.294365111	1.090855439	2.502820661
23° 33′ 10″	0.39959365	0.91669238	0.435908114	2.294061452	1.090878492	2.502542296
23° 33′ 20″	0.39963809	0.91667301	0.435965808	2.293757860	1.090901547	2.502263999
23° 33′ 30″ 23° 33′ 40″	0.39968253	0.91665363	0.436023506	2.293454336	1.090924607	2.501985770
23° 33′ 50″	0.39972697	0.91663425 0.91661487	0.436081205 0.436138908	2.293150880	1.090947670	2.501707609
23° 34′ 00″	0.39977141			2.292847491 2.292544170	1.090970736 1.090993806	2.501429515
23° 34′ 10″	0.39981585	0.91659549 0.91657610	0.436196612 0.436254319	2.292240916	1.090993808	2.501151489 2.500873530
23° 34′ 20″	0.39990472	0.91655672	0.436234317	2.291937729	1.091018879	2.500575550
23° 34′ 30″	0.37770472	0.91653733	0.436369741	2.291634610	1.091063037	2.500373640
23° 34′ 40″	0.37774716	0.71653733	0.436427455	2.291331558	1.091086121	2.500317817
23° 34′ 50″	0.37777337	0.91649854	0.436427433	2.291028573	1.091109209	2.499762373
23° 35′ 00″	0.40003802	0.91647915	0.436542891	2.290725656	1.091132300	2.499484753
23° 35′ 10″	0.40012689	0.91645975	0.436600613	2.290422806	1.071152300	2.499207200
23° 35′ 20″	0.40017132	0.91644035	0.436658337	2.290120023	1.091178493	2.498929715
23° 35′ 30″	0.40017132	0.91642095	0.436716063	2.289817308	1.091201595	2.498652297
23° 35′ 40″	0.40026018	0.91640154	0.436773792	2.289514659	1.091224700	2.498374947
23° 35′ 50″	0.40030461	0.91638214	0.436831524	2.289212078	1.091247809	2.498097664
	1 21.10000 101	517 1000211	2.100001021			

177 23° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
23° 36′ 00″	0.40034903	0.91636273	0.436889258	2.288909564	1.091270921	2.497820448
23° 36′ 10″	0.40039346	0.91634332	0.436946994	2.288607117	1.091294037	2.497543300
23° 36′ 20″	0.40043788	0.91632391	0.437004733	2.288304737	1.091317157	2.497266219
23° 36′ 30″	0.40048231	0.91630449	0.437062474	2.288002425	1.091340280	2.496989206
23° 36′ 40″	0.40052673	0.91628507	0.437120218	2.287700179	1.091363406	2.496712260
23° 36′ 50″	0.40057115	0.91626566	0.437177964	2.287398000	1.091386536	2.496435381
23° 37′ 00″	0.40061557	0.91624623	0.437235712	2.287095889	1.091409670	2.496158570
23° 37′ 10″	0.40066000	0.91622681	0.437293463	2.286793844	1.091432807	2.495881825
23° 37′ 20″	0.40070441	0.91620738	0.437351217	2.286491867	1.091455948	2.495605148
23° 37′ 30″	0.40074883	0.91618796	0.437408973	2.286189956	1.091479093	2.495328538
23° 37′ 40″	0.40079325	0.91616853	0.437466731	2.285888112	1.091502240	2.495051996
23° 37′ 50″	0.40083767	0.91614910	0.437524492	2.285586335	1.091525392	2.494775520
23° 38′ 00″	0.40088208	0.91612966	0.437582255	2.285284625	1.091548547	2.494499112
23° 38′ 10″	0.40092650	0.91611022	0.437640021	2.284982982	1.091571705	2.494222771
23° 38′ 20″	0.40097091	0.91609079	0.437697789	2.284681406	1.091594867	2.493946496
23° 38′ 30″	0.40101532	0.91607135	0.437755560	2.284379896	1.091618033	2.493670289
23° 38′ 40″	0.40105974	0.91605190	0.437813333	2.284078454	1.091641202	2.493394149
23° 38′ 50″	0.40110415	0.91603246	0.437871108	2.283777078	1.091664375	2.493118076
23° 39′ 00″	0.40114856	0.91601301	0.437928886	2.283475768	1.091687551	2.492842070
23° 39′ 10″	0.40119297	0.91599356	0.437986667	2.283174526	1.091710731	2.492566131
23° 39′ 20″	0.40123737	0.91597411	0.438044450	2.282873350	1.091733914	2.492290258
23° 39′ 30″	0.40128178	0.91595466	0.438102235	2.282572241	1.091757101	2.492014453
23° 39′ 40″	0.40132619	0.91593520	0.438160023	2.282271198	1.091780292	2.491738715
23° 39′ 50″	0.40137059	0.91591574	0.438217813	2.281970222	1.091803486	2.491463043
23° 40′ 00″	0.40141500	0.91589628	0.438275606	2.281669313	1.091826683	2.491187438
23° 40′ 10″	0.40145940	0.91587682	0.438333401	2.281368470	1.091849884	2.490911900
23° 40′ 20″	0.40150380	0.91585736	0.438391198	2.281067694	1.091873089	2.490636429
23° 40′ 30″	0.40154821	0.91583789	0.438448999	2.280766984	1.091896297	2.490361025
23° 40′ 40″	0.40159261	0.91581842	0.438506801	2.280466341	1.091919509	2.490085688
23° 40′ 50″	0.40163701	0.91579895	0.438564606	2.280165764	1.091942725	2.489810417
23° 41′ 00″	0.40168140	0.91577948	0.438622414	2.279865254	1.091965943	2.489535213
23° 41′ 10″	0.40172580	0.91576000	0.438680223	2.279564810	1.091989166	2.489260075
23° 41′ 20″ 23° 41′ 30″	0.40177020	0.91574052	0.438738036	2.279264432 2.278964121	1.092012392 1.092035621	2.488985004
23° 41′ 40″	0.40181459 0.40185899	0.91572104 0.91570156	0.438795851 0.438853668	2.278663876	1.092058855	2.488710000 2.488435063
23° 41′ 50″	0.40183877	0.91568208	0.438911488	2.278363698	1.092082091	2.488160192
23° 42′ 00″	0.40190338	0.91566259	0.438969310	2.278063586	1.092082091	2.487885387
23° 42′ 10″	0.40194778	0.91564311	0.439027135	2.277763540	1.092128575	2.487610649
23° 42′ 20″	0.40177217	0.91562362	0.437027133	2.277463560	1.072128373	2.487335978
23° 42′ 30″	0.40208095	0.91560412	0.437084782	2.277163647	1.092175073	2.487061373
23° 42′ 40″	0.40212534	0.91558463	0.439200623	2.276863800	1.092198328	2.486786835
23° 42′ 50″	0.40212934	0.91556513	0.439258458	2.276564019	1.092221586	2.486512363
23° 43′ 00″	0.4021412	0.91554563	0.437236438	2.276264304	1.092244847	2.486237958
23° 43′ 10″	0.40225850	0.91552613	0.439374134	2.275964655	1.092268113	2.485963618
23° 43′ 20″	0.40230289	0.91550663	0.439431976	2.275665073	1.092291381	2.485689346
23° 43′ 30″	0.40234727	0.91548712	0.439489821	2.275365556	1.092314654	2.485415139
23° 43′ 40″	0.40239166	0.91546762	0.439547667	2.275066106	1.092337929	2.485140999
23° 43′ 50″	0.40243604	0.91544811	0.439605517	2.274766722	1.092361209	2.484866926
	1.10213001	21, 10 11011	2.107000017			2.10.000720

178 23° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
23° 44′ 00″	0.40248042	0.91542859	0.439663368	2.274467403	1.092384492	2.484592918
23° 44′ 10″	0.40252480	0.91540908	0.439721223	2.274168151	1.092407778	2.484318977
23° 44′ 20″	0.40256918	0.91538956	0.439779079	2.273868965	1.092431068	2.484045102
23° 44′ 30″	0.40261356	0.91537005	0.439836939	2.273569844	1.092454362	2.483771293
23° 44′ 40″	0.40265794	0.91535053	0.439894800	2.273270790	1.092477659	2.483497551
23° 44′ 50″	0.40270231	0.91533100	0.439952664	2.272971802	1.092500960	2.483223874
23° 45′ 00″	0.40274669	0.91531148	0.440010531	2.272672879	1.092524264	2.482950264
23° 45′ 10″	0.40279106	0.91529195	0.440068400	2.272374022	1.092547572	2.482676720
23° 45′ 20″	0.40283544	0.91527242	0.440126271	2.272075231	1.092570883	2.482403242
23° 45′ 30″	0.40287981	0.91525289	0.440184145	2.271776506	1.092594198	2.482129830
23° 45′ 40″	0.40292418	0.91523336	0.440242022	2.271477847	1.092617517	2.481856484
23° 45′ 50″	0.40296856	0.91521382	0.440299901	2.271179253	1.092640839	2.481583205
23° 46′ 00″	0.40301293	0.91519429	0.440357782	2.270880726	1.092664164	2.481309991
23° 46′ 10″	0.40305730	0.91517475	0.440415666	2.270582264	1.092687494	2.481036843
23° 46′ 20″	0.40310166	0.91515520	0.440473552	2.270283867	1.092710827	2.480763761
23° 46′ 30″	0.40314603	0.91513566	0.440531441	2.269985537	1.092734163	2.480490745
23° 46′ 40″	0.40319040	0.91511611	0.440589333	2.269687272	1.092757503	2.480217795
23° 46′ 50″	0.40323476	0.91509657	0.440647226	2.269389072	1.092780846	2.479944911
23° 47′ 00″	0.40327913	0.91507702	0.440705123	2.269090938	1.092804193	2.479672093
23° 47′ 10″	0.40332349	0.91505746	0.440763021	2.268792870	1.092827544	2.479399340
23° 47′ 20″	0.40336785	0.91503791	0.440820922	2.268494868	1.092850898	2.479126654
23° 47′ 30″	0.40341222	0.91501835	0.440878826	2.268196931	1.092874256	2.478854033
23° 47′ 40″	0.40345658	0.91499879	0.440936732	2.267899059	1.092897617	2.478581478
23° 47′ 50″	0.40350094	0.91497923	0.440994641	2.267601253	1.092920982	2.478308989
23° 48′ 00″	0.40354530	0.91495967	0.441052552	2.267303512	1.092944351	2.478036565
23° 48′ 10″	0.40358965	0.91494010	0.441110465	2.267005837	1.092967723	2.477764207
23° 48′ 20″	0.40363401	0.91492053	0.441168381	2.266708228	1.092991098	2.477491915
23° 48′ 30″	0.40367837	0.91490096	0.441226300	2.266410683	1.093014477	2.477219689
23° 48′ 40″	0.40372272	0.91488139	0.441284221	2.266113204	1.093037860	2.476947528
23° 48′ 50″	0.40376708	0.91486182	0.441342144	2.265815791	1.093061246	2.476675433
23° 49′ 00″	0.40381143	0.91484224	0.441400070	2.265518443	1.093084636	2.476403403
23° 49′ 10″ 23° 49′ 20″	0.40385578	0.91482266	0.441457999	2.265221160	1.093108030	2.476131439
23° 49′ 20″ 23° 49′ 30″	0.40390013	0.91480308	0.441515930	2.264923942	1.093131427 1.093154827	2.475859540
23° 49′ 40″	0.40394448	0.91478350 0.91476392	0.441573863 0.441631799	2.264626790 2.264329703	1.093134827	2.475587707 2.475315940
23° 49′ 50″	0.40378883	0.91476392	0.441631799	2.264329703	1.093201639	
23° 50′ 00″	0.40403318	0.91474433	0.441747678	2.263735724	1.093201639	2.475044238 2.474772601
23° 50′ 10″	0.40407733	0.91472474	0.441747678	2.263733724	1.073223031	2.474501030
23° 50′ 20″	0.40412188	0.91468556	0.441863567	2.263438632	1.073248483	2.474229524
23° 50′ 30″	0.40410022	0.71466596	0.441921516	2.262845245	1.093295306	2.473958084
23° 50′ 40″	0.40421037	0.91464636	0.441979466	2.262548549	1.093293306	2.473686709
23° 50′ 50″	0.40429471	0.91462676	0.441777466	2.262346347	1.073316731	2.473636707
23° 51′ 00″	0.40434360	0.91460716	0.442095375	2.261955352	1.093365593	2.473144155
23° 51′ 10″	0.40438794	0.91458756	0.442153333	2.261658851	1.093389030	2.472872976
23° 51′ 20″	0.40443228	0.91456795	0.442211294	2.261362415	1.093412470	2.472601863
23° 51′ 30″	0.40447662	0.91454834	0.442269257	2.261066044	1.093435913	2.472330814
23° 51′ 40″	0.40452095	0.91452873	0.442327223	2.260769738	1.093459360	2.472059831
23° 51′ 50″	0.40456529	0.91450912	0.442385191	2.260473497	1.093482811	2.471788913
	1.10.100027	3.7.1.307.12	5.1.12000171			

179 23° 51′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
23° 52′ 00″	0.40460963	0.91448950	0.442443162	2.260177321	1.093506265	2.471518060
23° 52′ 10″	0.40465396	0.91446989	0.442501135	2.259881209	1.093529723	2.471247272
23° 52′ 20″	0.40469830	0.91445027	0.442559111	2.259585163	1.093553184	2.470976550
23° 52′ 30″	0.40474263	0.91443064	0.442617089	2.259289182	1.093576649	2.470705892
23° 52′ 40″	0.40478696	0.91441102	0.442675069	2.258993265	1.093600117	2.470435300
23° 52′ 50″	0.40483129	0.91439140	0.442733052	2.258697413	1.093623590	2.470164773
23° 53′ 00″	0.40487562	0.91437177	0.442791038	2.258401626	1.093647065	2.469894310
23° 53′ 10″	0.40491995	0.91435214	0.442849026	2.258105904	1.093670544	2.469623913
23° 53′ 20″	0.40496428	0.91433251	0.442907017	2.257810246	1.093694027	2.469353581
23° 53′ 30″	0.40500861	0.91431287	0.442965010	2.257514653	1.093717514	2.469083314
23° 53′ 40″	0.40505294	0.91429323	0.443023005	2.257219125	1.093741004	2.468813111
23° 53′ 50″	0.40509726	0.91427360	0.443081003	2.256923662	1.093764497	2.468542974
23° 54′ 00″	0.40514159	0.91425396	0.443139004	2.256628263	1.093787994	2.468272902
23° 54′ 10″	0.40518591	0.91423431	0.443197007	2.256332929	1.093811495	2.468002894
23° 54′ 20″	0.40523023	0.91421467	0.443255012	2.256037659	1.093834999	2.467732951
23° 54′ 30″	0.40527456	0.91419502	0.443313020	2.255742454	1.093858507	2.467463074
23° 54′ 40″	0.40531888	0.91417537	0.443371031	2.255447314	1.093882019	2.467193261
23° 54′ 50″	0.40536320	0.91415572	0.443429044	2.255152238	1.093905534	2.466923512
23° 55′ 00″	0.40540752	0.91413607	0.443487059	2.254857227	1.093929052	2.466653829
23° 55′ 10″	0.40545183	0.91411641	0.443545077	2.254562280	1.093952575	2.466384210
23° 55′ 20″	0.40549615	0.91409675	0.443603097	2.254267397	1.093976100	2.466114656
23° 55′ 30″	0.40554047	0.91407709	0.443661120	2.253972579	1.093999630	2.465845167
23° 55′ 40″	0.40558478	0.91405743	0.443719146	2.253677826	1.094023163	2.465575743
23° 55′ 50″	0.40562910	0.91403777	0.443777174	2.253383137	1.094046699	2.465306383
23° 56′ 00″	0.40567341	0.91401810	0.443835204	2.253088512	1.094070239	2.465037087
23° 56′ 10″	0.40571772	0.91399843	0.443893237	2.252793952	1.094093783	2.464767857
23° 56′ 20″	0.40576203	0.91397876	0.443951273	2.252499455	1.094117330	2.464498691
23° 56′ 30″	0.40580634	0.91395909	0.444009311	2.252205024	1.094140881	2.464229589
23° 56′ 40″	0.40585065	0.91393941	0.444067351	2.251910656	1.094164436	2.463960552
23° 56′ 50″	0.40589496	0.91391973	0.444125394	2.251616353	1.094187994	2.463691580
23° 57′ 00″	0.40593927	0.91390005	0.444183439	2.251322114	1.094211555	2.463422672
23° 57′ 10″	0.40598358	0.91388037	0.444241487	2.251027939	1.094235121	2.463153829
23° 57′ 20″	0.40602788	0.91386069	0.444299538	2.250733829	1.094258689	2.462885050
23° 57′ 30″	0.40607219	0.91384100	0.444357591	2.250439783	1.094282262	2.462616335
23° 57′ 40″	0.40611649	0.91382132	0.444415646	2.250145800	1.094305838	2.462347685
23° 57′ 50″	0.40616079	0.91380163	0.444473704	2.249851882	1.094329417	2.462079100
23° 58′ 00″	0.40620510	0.91378193	0.444531765	2.249558028	1.094353001	2.461810578
23° 58′ 10″ 23° 58′ 20″	0.40624940	0.91376224	0.444589828	2.249264239	1.094376587	2.461542121
	0.40629370	0.91374254	0.444647893	2.248970513	1.094400178	2.461273729
23° 58′ 30″	0.40633799	0.91372284	0.444705961	2.248676851	1.094423772	2.461005400
23° 58′ 40″	0.40638229	0.91370314	0.444764031	2.248383253	1.094447369	2.460737136
23° 58′ 50″ 23° 59′ 00″	0.40642659	0.91368344	0.444822104	2.248089720 2.247796250	1.094470970	2.460468937
23° 59′ 00″ 23° 59′ 10″	0.40647089	0.91366373	0.444880180 0.444938258	2.247796250	1.094494575	2.460200801 2.459932730
23° 59′ 10″ 23° 59′ 20″	0.40651518	0.91364403 0.91362432	0.444938238	2.247302844 2.247209502	1.094518183 1.094541795	2.459932730
23° 59′ 20″ 23° 59′ 30″	0.40655948		0.444996338			2.459664723
23° 59′ 40″	0.40664806	0.91360461 0.91358489	0.445054421	2.246916224 2.246623010	1.094565411 1.094589030	2.459396780
23° 59′ 50″	0.40669235	0.91356518	0.445170595	2.246329860	1.094589050	2.457128701
	0.4000/233	0./1330310	0.773170373	2.270327000	1.074012032	2.430001000

180 23° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
24° 00′ 00″	0.40673664	0.91354546	0.445228685	2.246036774	1.094636279	2.458593336
24° 00′ 10″	0.40678093	0.91352574	0.445286778	2.245743751	1.094659908	2.458325649
24° 00′ 20″	0.40682522	0.91350602	0.445344874	2.245450793	1.094683542	2.458058027
24° 00′ 30″	0.40686951	0.91348629	0.445402972	2.245157898	1.094707179	2.457790468
24° 00′ 40″	0.40691380	0.91346656	0.445461072	2.244865067	1.094730819	2.457522974
24° 00′ 50″	0.40695808	0.91344684	0.445519175	2.244572299	1.094754464	2.457255544
24° 01′ 00″	0.40700237	0.91342710	0.445577281	2.244279595	1.094778111	2.456988177
24° 01′ 10″	0.40704665	0.91340737	0.445635389	2.243986955	1.094801763	2.456720875
24° 01′ 20″	0.40709093	0.91338764	0.445693500	2.243694379	1.094825418	2.456453636
24° 01′ 30″	0.40713521	0.91336790	0.445751613	2.243401866	1.094849076	2.456186461
24° 01′ 40″	0.40717949	0.91334816	0.445809728	2.243109417	1.094872739	2.455919351
24° 01′ 50″	0.40722377	0.91332842	0.445867847	2.242817032	1.094896404	2.455652304
24° 02′ 00″	0.40726805	0.91330867	0.445925967	2.242524710	1.094920074	2.455385321
24° 02′ 10″	0.40731233	0.91328893	0.445984090	2.242232451	1.094943747	2.455118402
24° 02′ 20″	0.40735661	0.91326918	0.446042216	2.241940257	1.094967423	2.454851546
24° 02′ 30″	0.40740088	0.91324943	0.446100344	2.241648125	1.094991104	2.454584755
24° 02′ 40″	0.40744516	0.91322968	0.446158475	2.241356057	1.095014787	2.454318027
24° 02′ 50″	0.40748943	0.91320992	0.446216608	2.241064053	1.095038475	2.454051362
24° 03′ 00″	0.40753371	0.91319017	0.446274744	2.240772112	1.095062166	2.453784762
24° 03′ 10″	0.40757798	0.91317041	0.446332882	2.240480235	1.095085860	2.453518225
24° 03′ 20″	0.40762225	0.91315065	0.446391023	2.240188420	1.095109559	2.453251752
24° 03′ 30″	0.40766652	0.91313088	0.446449166	2.239896670	1.095133260	2.452985343
24° 03′ 40″	0.40771079	0.91311112	0.446507312	2.239604982	1.095156966	2.452718997
24° 03′ 50″	0.40775506	0.91309135	0.446565460	2.239313358	1.095180675	2.452452714
24° 04′ 00″	0.40779933	0.91307158	0.446623611	2.239021798	1.095204387	2.452186496
24° 04′ 10″	0.40784359	0.91305181	0.446681764	2.238730300	1.095228103	2.451920341
24° 04′ 20″	0.40788786	0.91303203	0.446739920	2.238438866	1.095251823	2.451654249
24° 04′ 30″	0.40793212	0.91301226	0.446798078	2.238147495	1.095275547	2.451388221
24° 04′ 40″	0.40797639	0.91299248	0.446856239	2.237856187	1.095299274	2.451122256
24° 04′ 50″	0.40802065	0.91297270	0.446914403	2.237564943	1.095323004	2.450856355
24° 05′ 00″	0.40806491	0.91295292	0.446972569	2.237273762	1.095346738	2.450590518
24° 05′ 10″	0.40810917	0.91293313	0.447030737	2.236982644	1.095370476	2.450324743
24° 05′ 20″	0.40815343	0.91291335	0.447088908	2.236691589	1.095394217	2.450059032
24° 05′ 30″	0.40819769	0.91289356	0.447147082	2.236400597	1.095417962	2.449793385
24° 05′ 40″	0.40824195	0.91287377	0.447205258	2.236109668	1.095441711	2.449527801
24° 05′ 50″	0.40828620	0.91285397	0.447263436	2.235818802	1.095465463	2.449262280
24° 06′ 00″	0.40833046	0.91283418	0.447321617	2.235528000	1.095489219	2.448996822
24° 06′ 10″	0.40837472	0.91281438	0.447379801	2.235237260	1.095512979	2.448731428
24° 06′ 20″	0.40841897	0.91279458	0.447437987	2.234946583	1.095536742	2.448466097
24° 06′ 30″	0.40846322	0.91277478	0.447496176	2.234655970	1.095560508	2.448200830
24° 06′ 40″	0.40850747	0.91275497	0.447554367	2.234365419	1.095584278	2.447935625
24° 06′ 50″	0.40855173	0.91273517	0.447612560	2.234074931	1.095608052	2.447670484
24° 07′ 00″	0.40859598	0.91271536	0.447670757	2.233784506	1.095631830	2.447405406
24° 07′ 10″	0.40864023	0.91269555	0.447728955	2.233494144	1.095655611	2.447140391
24° 07′ 20″	0.40868447	0.91267574	0.447787157	2.233203845	1.095679395	2.446875439
24° 07′ 30″	0.40872872	0.91265592	0.447845360	2.232913609	1.095703184	2.446610551
24° 07′ 40″	0.40877297	0.91263611	0.447903567	2.232623436	1.095726976	2.446345725
24° 07′ 50″	0.40881721	0.91261629	0.447961776	2.232333325	1.095750771	2.446080962

181 **24° 07′ 50″**

x	sin(x)	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
24° 08′ 00″	0.40886146	0.91259647	0.448019987	2.232043277	1.095774570	2.445816263
24° 08′ 10″	0.40890570	0.91257664	0.448078201	2.231753292	1.095798373	2.445551627
24° 08′ 20″	0.40894994	0.91255682	0.448136417	2.231463370	1.095822179	2.445287053
24° 08′ 30″	0.40899418	0.91253699	0.448194636	2.231173511	1.095845989	2.445022543
24° 08′ 40″	0.40903842	0.91251716	0.448252858	2.230883714	1.095869803	2.444758095
24° 08′ 50″	0.40908266	0.91249733	0.448311082	2.230593980	1.095893620	2.444493711
24° 09′ 00″	0.40912690	0.91247749	0.448369308	2.230304308	1.095917441	2.444229389
24° 09′ 10″	0.40917114	0.91245766	0.448427537	2.230014699	1.095941265	2.443965131
24° 09′ 20″	0.40921538	0.91243782	0.448485769	2.229725153	1.095965093	2.443700935
24° 09′ 30″	0.40925961	0.91241798	0.448544003	2.229435670	1.095988925	2.443436802
24° 09′ 40″	0.40930385	0.91239814	0.448602240	2.229146248	1.096012760	2.443172732
24° 09′ 50″	0.40934808	0.91237829	0.448660479	2.228856890	1.096036599	2.442908724
24° 10′ 00″	0.40939231	0.91235845	0.448718721	2.228567594	1.096060441	2.442644780
24° 10′ 10″	0.40943655	0.91233860	0.448776965	2.228278360	1.096084287	2.442380898
24° 10′ 20″	0.40948078	0.91231875	0.448835212	2.227989189	1.096108137	2.442117079
24° 10′ 30″	0.40952501	0.91229889	0.448893461	2.227700081	1.096131990	2.441853323
24° 10′ 40″	0.40956924	0.91227904	0.448951713	2.227411035	1.096155847	2.441589629
24° 10′ 50″	0.40961346	0.91225918	0.449009968	2.227122051	1.096179707	2.441325998
24° 11′ 00″	0.40965769	0.91223932	0.449068225	2.226833130	1.096203572	2.441062430
24° 11′ 10″	0.40970192	0.91221946	0.449126484	2.226544271	1.096227439	2.440798925
24° 11′ 20″	0.40974614	0.91219959	0.449184746	2.226255474	1.096251311	2.440535482
24° 11′ 30″	0.40979037	0.91217973	0.449243011	2.225966740	1.096275186	2.440272101
24° 11′ 40″	0.40983459	0.91215986	0.449301278	2.225678068	1.096299064	2.440008784
24° 11′ 50″	0.40987881	0.91213999	0.449359547	2.225389459	1.096322946	2.439745528
24° 12′ 00″	0.40992303	0.91212012	0.449417820	2.225100911	1.096346832	2.439482336
24° 12′ 10″	0.40996725	0.91210024	0.449476094	2.224812426	1.096370722	2.439219205
24° 12′ 20″	0.41001147	0.91208036	0.449534372	2.224524003	1.096394615	2.438956138
24° 12′ 30″	0.41005569	0.91206049	0.449592651	2.224235643	1.096418511	2.438693132
24° 12′ 40″	0.41009991	0.91204060	0.449650934	2.223947344	1.096442412	2.438430190
24° 12′ 50″	0.41014413	0.91202072	0.449709219	2.223659108	1.096466316	2.438167309
24° 13′ 00″	0.41018834	0.91200084	0.449767506	2.223370934	1.096490223	2.437904491
24° 13′ 10″	0.41023256	0.91198095	0.449825796	2.223082822	1.096514134	2.437641736
24° 13′ 20″	0.41027677	0.91196106	0.449884089	2.222794772	1.096538049	2.437379043
24° 13′ 30″	0.41032098	0.91194117	0.449942384	2.222506784	1.096561968	2.437116412
24° 13′ 40″	0.41036519	0.91192127	0.450000681	2.222218858	1.096585890	2.436853843
24° 13′ 50″	0.41040940	0.91190138	0.450058981	2.221930994	1.096609815	2.436591337
24° 14′ 00″	0.41045361	0.91188148	0.450117284	2.221643192	1.096633744	2.436328893
24° 14′ 10″	0.41049782	0.91186158	0.450175589	2.221355453	1.096657677	2.436066511
24° 14′ 20″	0.41054203	0.91184168	0.450233897	2.221067775	1.096681614	2.435804192
24° 14′ 30″	0.41058624	0.91182177	0.450292207	2.220780159	1.096705554	2.435541934
24° 14′ 40″	0.41063044	0.91180186	0.450350520	2.220492605	1.096729498	2.435279739
24° 14′ 50″	0.41067465	0.91178195	0.450408836	2.220205113	1.096753445	2.435017606
24° 15′ 00″	0.41071885	0.91176204	0.450467154	2.219917683	1.096777396	2.434755536
24° 15′ 10″	0.41076306	0.91174213	0.450525474	2.219630315	1.096801351	2.434493527
24° 15′ 20″	0.41080726	0.91172221	0.450583797	2.219343008	1.096825309	2.434231580
24° 15′ 30″	0.41085146	0.91170230	0.450642123	2.219055763	1.096849271	2.433969696
24° 15′ 40″	0.41089566	0.91168238	0.450700451	2.218768581	1.096873236	2.433707874
24° 15′ 50″	0.41093986	0.91166246	0.450758782	2.218481460	1.096897205	2.433446113

182 **24° 15′ 50″**

χ	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
24° 16′ 00″	0.41098406	0.91164253	0.450817115	2.218194400	1.096921178	2.433184415
24° 16′ 10″	0.41102825	0.91162261	0.450875451	2.217907403	1.096945155	2.432922779
24° 16′ 20″	0.41107245	0.91160268	0.450933789	2.217620467	1.096969135	2.432661204
24° 16′ 30″	0.41111664	0.91158275	0.450992130	2.217333593	1.096993118	2.432399692
24° 16′ 40″	0.41116084	0.91156281	0.451050474	2.217046780	1.097017105	2.432138241
24° 16′ 50″	0.41120503	0.91154288	0.451108820	2.216760029	1.097041096	2.431876853
24° 17′ 00″	0.41124922	0.91152294	0.451167168	2.216473340	1.097065091	2.431615526
24° 17′ 10″	0.41129342	0.91150300	0.451225519	2.216186712	1.097089089	2.431354261
24° 17′ 20″	0.41133761	0.91148306	0.451283873	2.215900146	1.097113091	2.431093058
24° 17′ 30″	0.41138180	0.91146312	0.451342229	2.215613642	1.097137096	2.430831917
24° 17′ 40″	0.41142598	0.91144317	0.451400588	2.215327199	1.097161105	2.430570838
24° 17′ 50″	0.41147017	0.91142323	0.451458949	2.215040818	1.097185118	2.430309821
24° 18′ 00″	0.41151436	0.91140328	0.451517313	2.214754498	1.097209134	2.430048865
24° 18′ 10″	0.41155854	0.91138332	0.451575680	2.214468239	1.097233154	2.429787971
24° 18′ 20″	0.41160273	0.91136337	0.451634049	2.214182042	1.097257178	2.429527139
24° 18′ 30″	0.41164691	0.91134341	0.451692420	2.213895907	1.097281205	2.429266368
24° 18′ 40″	0.41169110	0.91132346	0.451750794	2.213609833	1.097305236	2.429005659
24° 18′ 50″	0.41173528	0.91130350	0.451809171	2.213323820	1.097329270	2.428745012
24° 19′ 00″	0.41177946	0.91128353	0.451867550	2.213037869	1.097353308	2.428484426
24° 19′ 10″	0.41182364	0.91126357	0.451925932	2.212751979	1.097377350	2.428223902
24° 19′ 20″	0.41186782	0.91124360	0.451984316	2.212466150	1.097401395	2.427963440
24° 19′ 30″	0.41191199	0.91122363	0.452042703	2.212180383	1.097425444	2.427703039
24° 19′ 40″	0.41195617	0.91120366	0.452101093	2.211894677	1.097449497	2.427442700
24° 19′ 50″	0.41200035	0.91118369	0.452159485	2.211609032	1.097473553	2.427182422
24° 20′ 00″	0.41204452	0.91116371	0.452217879	2.211323449	1.097497613	2.426922206
24° 20′ 10″	0.41208870	0.91114374	0.452276276	2.211037926	1.097521676	2.426662051
24° 20′ 20″	0.41213287	0.91112376	0.452334676	2.210752465	1.097545744	2.426401958
24° 20′ 30″	0.41217704	0.91110377	0.452393078	2.210467065	1.097569814	2.426141926
24° 20′ 40″	0.41222121	0.91108379	0.452451483	2.210181727	1.097593889	2.425881956
24° 20′ 50″	0.41226538	0.91106380	0.452509890	2.209896449	1.097617967	2.425622047
24° 21′ 00″	0.41230955	0.91104382	0.452568300	2.209611232	1.097642048	2.425362200
24° 21′ 10″	0.41235372	0.91102383	0.452626713	2.209326077	1.097666134	2.425102413
24° 21′ 20″ 24° 21′ 30″	0.41239789	0.91100383	0.452685128 0.452743546	2.209040983	1.097690223	2.424842688
24° 21′ 30″ 24° 21′ 40″	1	0.91098384	0.452743546	2.208755950	1.097714315	2.424583025
	0.41248622	0.91096384		2.208470977	1.097738412	2.424323423
24° 21′ 50″ 24° 22′ 00″	0.41253038	0.91094384	0.452860389	2.208186066	1.097762511	2.424063882
24° 22′ 10″	0.41257455	0.91092384	0.452918814	2.207901216	1.097786615	2.423804402
24° 22′ 10″ 24° 22′ 20″	0.41261871	0.91090384	0.452977242	2.207616427	1.097810722	2.423544984
24° 22′ 30″	0.41266287	0.91088383 0.91086382	0.453035672 0.453094105	2.207331699 2.207047031	1.097834833 1.097858947	2.423285627 2.423026331
24° 22′ 30″ 24° 22′ 40″	0.41270703	0.91086382	0.453094105	2.20/04/031	1.097858947	2.423026331
24° 22′ 50″	0.41273119	0.91082380	0.453152541	2.206762423	1.097883083	2.422767076
24° 23′ 00″	0.41277333	0.91082380	0.453269420	2.206477877	1.097931312	2.422307722
24° 23′ 10″	0.41283731	0.91078377	0.453327863	2.205908971	1.097955441	2.421989758
24° 23′ 20″	0.41292782	0.91076377	0.453386309	2.205624608	1.097979574	2.421787738
24° 23′ 30″	0.41292782	0.91076376	0.453444757	2.205340306	1.098003710	2.421730768
24° 23′ 40″	0.41277177	0.71074373	0.453503208	2.205056064	1.098027850	2.421471838
24° 23′ 50″	0.41306028	0.71072371	0.453561662	2.204771884	1.098051994	2.420954163
	3.11300020	5.71070307	3.133301002	2.20 17 1004	1.070031774	2.120 /37103

183 **24° 23′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
24° 24′ 00″	0.41310443	0.91068366	0.453620118	2.204487764	1.098076141	2.420695417
24° 24′ 10″	0.41314858	0.91066363	0.453678577	2.204203705	1.098100292	2.420436732
24° 24′ 20″	0.41319273	0.91064360	0.453737038	2.203919706	1.098124446	2.420178108
24° 24′ 30″	0.41323688	0.91062357	0.453795502	2.203635769	1.098148605	2.419919544
24° 24′ 40″	0.41328103	0.91060353	0.453853968	2.203351892	1.098172766	2.419661042
24° 24′ 50″	0.41332517	0.91058349	0.453912438	2.203068075	1.098196932	2.419402601
24° 25′ 00″	0.41336932	0.91056346	0.453970909	2.202784319	1.098221101	2.419144220
24° 25′ 10″	0.41341346	0.91054341	0.454029383	2.202500624	1.098245274	2.418885900
24° 25′ 20″	0.41345761	0.91052337	0.454087860	2.202216990	1.098269450	2.418627642
24° 25′ 30″	0.41350175	0.91050332	0.454146339	2.201933415	1.098293630	2.418369444
24° 25′ 40″	0.41354589	0.91048328	0.454204821	2.201649902	1.098317814	2.418111307
24° 25′ 50″	0.41359003	0.91046322	0.454263306	2.201366449	1.098342001	2.417853230
24° 26′ 00″	0.41363417	0.91044317	0.454321793	2.201083056	1.098366192	2.417595214
24° 26′ 10″	0.41367831	0.91042312	0.454380282	2.200799724	1.098390386	2.417337260
24° 26′ 20″	0.41372245	0.91040306	0.454438774	2.200516453	1.098414585	2.417079365
24° 26′ 30″	0.41376659	0.91038300	0.454497269	2.200233242	1.098438787	2.416821532
24° 26′ 40″	0.41381072	0.91036294	0.454555767	2.199950091	1.098462992	2.416563759
24° 26′ 50″	0.41385486	0.91034288	0.454614267	2.199667000	1.098487201	2.416306047
24° 27′ 00″	0.41389899	0.91032281	0.454672769	2.199383971	1.098511414	2.416048396
24° 27′ 10″	0.41394313	0.91030275	0.454731274	2.199101001	1.098535631	2.415790805
24° 27′ 20″	0.41398726	0.91028268	0.454789782	2.198818092	1.098559851	2.415533274
24° 27′ 30″	0.41403139	0.91026260	0.454848292	2.198535243	1.098584074	2.415275805
24° 27′ 40″	0.41407552	0.91024253	0.454906805	2.198252454	1.098608302	2.415018396
24° 27′ 50″	0.41411965	0.91022245	0.454965320	2.197969725	1.098632533	2.414761047
24° 28′ 00″	0.41416378	0.91020238	0.455023838	2.197687057	1.098656768	2.414503759
24° 28′ 10″	0.41420791	0.91018230	0.455082359	2.197404449	1.098681006	2.414246531
24° 28′ 20″	0.41425203	0.91016221	0.455140882	2.197121902	1.098705248	2.413989364
24° 28′ 30″	0.41429616	0.91014213	0.455199408	2.196839414	1.098729494	2.413732258
24° 28′ 40″	0.41434028	0.91012204	0.455257936	2.196556987	1.098753743	2.413475211
24° 28′ 50″	0.41438441	0.91010195	0.455316467	2.196274619	1.098777996	2.413218226
24° 29′ 00″	0.41442853	0.91008186	0.455375000	2.195992312	1.098802253	2.412961300
24° 29′ 10″	0.41447265	0.91006177	0.455433536	2.195710065	1.098826513	2.412704435
24° 29′ 20″	0.41451677	0.91004167	0.455492075	2.195427878	1.098850777	2.412447630
24° 29′ 30″ 24° 29′ 40″	0.41456089	0.91002158	0.455550616	2.195145752	1.098875045	2.412190886
24° 29′ 50″	0.41460501	0.91000148	0.455609160	2.194863685	1.098899316	2.411934202
24° 30′ 00″	0.41464913	0.90998137 0.90996127	0.455667707	2.194581678	1.098923591 1.098947870	2.411677578
24° 30′ 10″	0.41467324	0.90994116	0.455726256 0.455784807	2.194299731 2.194017844	1.098972152	2.411421015 2.411164511
24° 30′ 20″	0.41473736	0.90994116	0.455843361	2.194017644	1.098996438	2.411164311
24° 30′ 30″	0.41478147	0.90990095	0.455901918	2.193454251	1.078778438	2.410708088
24° 30′ 40″	0.41482337	0.90988083	0.455960477	2.193172544	1.099045020	2.410375363
24° 30′ 50″	0.41491381	0.70788083	0.456019039	2.173172344	1.099069317	2.410373363
24° 31′ 00″	0.41471381	0.90984060	0.456077604	2.172670877	1.099093618	2.409882898
24° 31′ 10″	0.41473772	0.90982048	0.456136171	2.172807307	1.099117922	2.407632878
24° 31′ 20″	0.41504614	0.90980036	0.456194741	2.172327782	1.099142230	2.409370674
24° 31′ 30″	0.41509025	0.90978024	0.456253313	2.172040314	1.099166541	2.407376674
24° 31′ 40″	0.41513436	0.90976011	0.456311888	2.191483559	1.099190856	2.408858690
24° 31′ 50″	0.41517846	0.90973999	0.456370465	2.191202271	1.099215175	2.408602788
	1 2		2.100070100	_,,,,,,	.,0,,2101/3	20002/00

184 **24° 31′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
24° 32′ 00″	0.41522257	0.90971986	0.456429045	2.190921042	1.099239498	2.408346946
24° 32′ 10″	0.41526667	0.90969973	0.456487628	2.190639874	1.099263824	2.408091165
24° 32′ 20″	0.41531077	0.90967959	0.456546213	2.190358765	1.099288154	2.407835443
24° 32′ 30″	0.41535488	0.90965946	0.456604801	2.190077716	1.099312487	2.407579781
24° 32′ 40″	0.41539898	0.90963932	0.456663392	2.189796726	1.099336824	2.407324179
24° 32′ 50″	0.41544308	0.90961918	0.456721985	2.189515796	1.099361165	2.407068637
24° 33′ 00″	0.41548718	0.90959904	0.456780580	2.189234926	1.099385510	2.406813155
24° 33′ 10″	0.41553127	0.90957889	0.456839179	2.188954115	1.099409858	2.406557732
24° 33′ 20″	0.41557537	0.90955875	0.456897779	2.188673364	1.099434209	2.406302370
24° 33′ 30″	0.41561947	0.90953860	0.456956383	2.188392673	1.099458565	2.406047068
24° 33′ 40″	0.41566356	0.90951845	0.457014989	2.188112041	1.099482924	2.405791825
24° 33′ 50″	0.41570766	0.90949829	0.457073597	2.187831469	1.099507287	2.405536642
24° 34′ 00″	0.41575175	0.90947814	0.457132209	2.187550956	1.099531653	2.405281519
24° 34′ 10″	0.41579584	0.90945798	0.457190822	2.187270503	1.099556023	2.405026455
24° 34′ 20″	0.41583993	0.90943782	0.457249439	2.186990109	1.099580397	2.404771452
24° 34′ 30″	0.41588402	0.90941766	0.457308058	2.186709774	1.099604774	2.404516508
24° 34′ 40″	0.41592811	0.90939750	0.457366679	2.186429499	1.099629155	2.404261624
24° 34′ 50″	0.41597220	0.90937733	0.457425304	2.186149284	1.099653540	2.404006799
24° 35′ 00″	0.41601629	0.90935716	0.457483931	2.185869127	1.099677929	2.403752034
24° 35′ 10″	0.41606037	0.90933699	0.457542560	2.185589031	1.099702321	2.403497329
24° 35′ 20″	0.41610446	0.90931682	0.457601192	2.185308993	1.099726716	2.403242683
24° 35′ 30″	0.41614854	0.90929665	0.457659827	2.185029015	1.099751116	2.402988097
24° 35′ 40″	0.41619263	0.90927647	0.457718464	2.184749096	1.099775519	2.402733571
24° 35′ 50″	0.41623671	0.90925629	0.457777104	2.184469237	1.099799926	2.402479104
24° 36′ 00″	0.41628079	0.90923611	0.457835746	2.184189436	1.099824336	2.402224697
24° 36′ 10″	0.41632487	0.90921593	0.457894391	2.183909695	1.099848750	2.401970349
24° 36′ 20″	0.41636895	0.90919574	0.457953039	2.183630014	1.099873168	2.401716061
24° 36′ 30″	0.41641303	0.90917555	0.458011689	2.183350391	1.099897589	2.401461832
24° 36′ 40″	0.41645711	0.90915536	0.458070342	2.183070828	1.099922014	2.401207663
24° 36′ 50″	0.41650119	0.90913517	0.458128997	2.182791324	1.099946443	2.400953553
24° 37′ 00″	0.41654526	0.90911498	0.458187655	2.182511878	1.099970876	2.400699502
24° 37′ 10″	0.41658934	0.90909478	0.458246316	2.182232493	1.099995312	2.400445511
24° 37′ 20″ 24° 37′ 30″	0.41663341	0.90907459	0.458304979	2.181953166	1.100019752	2.400191579
24° 37′ 30″ 24° 37′ 40″	0.41667748	0.90905439 0.90903418	0.458363645 0.458422313	2.181673898 2.181394689	1.100044195 1.100068642	2.399937707 2.399683894
24° 37′ 40″ 24° 37′ 50″	0.41672133	0.90903418	0.458480985	2.181115540		
24° 38′ 00″	0.41676362	0.90899377	0.458539658	2.181113340	1.100093093 1.100117547	2.399430140 2.399176446
24° 38′ 10″	0.41685376	0.70877377	0.458598335	2.180557418	1.100117347	2.398922811
24° 38′ 20″	0.41689783	0.70877336	0.458657013	2.180337418	1.100142006	2.398669235
24° 38′ 30″	0.41694190	0.70873333	0.458715695	2.179999531	1.100190933	2.398415718
24° 38′ 40″	0.41698596	0.70873314	0.458774379	2.179720677	1.100170733	2.398162261
24° 38′ 50″	0.41703003	0.70871273	0.458833066	2.179441881	1.100213402	2.397908863
24° 39′ 00″	0.41707409	0.90887249	0.458891755	2.179163144	1.100257873	2.397655523
24° 39′ 10″	0.41711815	0.90885227	0.458950447	2.178884466	1.100288832	2.397402244
24° 39′ 20″	0.41711613	0.90883204	0.459009142	2.178605847	1.100208332	2.397149023
24° 39′ 30″	0.41720628	0.90881182	0.459067839	2.178327287	1.100337803	2.396895861
24° 39′ 40″	0.41725034	0.90879159	0.459126539	2.178048786	1.100362294	2.396642759
24° 39′ 50″	0.41729440	0.90877136	0.459185241	2.177770343	1.100386789	2.396389715
		3	11.0.700211			

185 **24° 39′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
24° 40′ 00″	0.41733845	0.90875113	0.459243946	2.177491959	1.100411288	2.396136731
24° 40′ 10″	0.41738251	0.90873089	0.459302654	2.177213634	1.100435790	2.395883806
24° 40′ 20″	0.41742657	0.90871066	0.459361364	2.176935368	1.100460296	2.395630939
24° 40′ 30″	0.41747062	0.90869042	0.459420077	2.176657161	1.100484805	2.395378132
24° 40′ 40″	0.41751468	0.90867018	0.459478792	2.176379012	1.100509319	2.395125384
24° 40′ 50″	0.41755873	0.90864994	0.459537510	2.176100922	1.100533836	2.394872694
24° 41′ 00″	0.41760278	0.90862969	0.459596231	2.175822890	1.100558356	2.394620064
24° 41′ 10″	0.41764683	0.90860944	0.459654954	2.175544917	1.100582881	2.394367492
24° 41′ 20″	0.41769088	0.90858920	0.459713680	2.175267003	1.100607409	2.394114980
24° 41′ 30″	0.41773493	0.90856894	0.459772409	2.174989148	1.100631940	2.393862526
24° 41′ 40″	0.41777898	0.90854869	0.459831140	2.174711351	1.100656476	2.393610131
24° 41′ 50″	0.41782303	0.90852844	0.459889874	2.174433612	1.100681015	2.393357795
24° 42′ 00″	0.41786707	0.90850818	0.459948610	2.174155933	1.100705557	2.393105518
24° 42′ 10″	0.41791112	0.90848792	0.460007349	2.173878311	1.100730104	2.392853299
24° 42′ 20″	0.41795516	0.90846766	0.460066091	2.173600748	1.100754654	2.392601140
24° 42′ 30″	0.41799921	0.90844739	0.460124835	2.173323244	1.100779208	2.392349039
24° 42′ 40″	0.41804325	0.90842713	0.460183582	2.173045798	1.100803765	2.392096997
24° 42′ 50″	0.41808729	0.90840686	0.460242332	2.172768411	1.100828326	2.391845013
24° 43′ 00″	0.41813133	0.90838659	0.460301084	2.172491082	1.100852891	2.391593089
24° 43′ 10″	0.41817537	0.90836631	0.460359839	2.172213812	1.100877460	2.391341223
24° 43′ 20″	0.41821941	0.90834604	0.460418596	2.171936599	1.100902032	2.391089415
24° 43′ 30″	0.41826345	0.90832576	0.460477356	2.171659446	1.100926608	2.390837667
24° 43′ 40″	0.41830748	0.90830548	0.460536119	2.171382350	1.100951187	2.390585976
24° 43′ 50″	0.41835152	0.90828520	0.460594884	2.171105313	1.100975770	2.390334345
24° 44′ 00″	0.41839555	0.90826492	0.460653652	2.170828334	1.101000357	2.390082772
24° 44′ 10″	0.41843959	0.90824463	0.460712422	2.170551414	1.101024948	2.389831258
24° 44′ 20″	0.41848362	0.90822435	0.460771196	2.170274552	1.101049542	2.389579802
24° 44′ 30″	0.41852765	0.90820406	0.460829971	2.169997748	1.101074140	2.389328405
24° 44′ 40″	0.41857168	0.90818376	0.460888750	2.169721002	1.101098742	2.389077066
24° 44′ 50″	0.41861571	0.90816347	0.460947531	2.169444315	1.101123347	2.388825786
24° 45′ 00″	0.41865974	0.90814317	0.461006314	2.169167685	1.101147956	2.388574564
24° 45′ 10″	0.41870377	0.90812288	0.461065101	2.168891114	1.101172569	2.388323401
24° 45′ 20″ 24° 45′ 30″	0.41874779	0.90810258	0.461123890 0.461182681	2.168614601 2.168338146	1.101197186	2.388072296
24° 45′ 40″	0.41879182	0.90808227 0.90806197	0.461182681	2.168338146	1.101221806 1.101246430	2.387821249 2.387570261
24° 45′ 50″	0.41887987		0.461241473	2.168061730	1.101246430	2.387370261
24° 46′ 00″	0.41892389	0.90804166 0.90802135	0.461359071	2.167783411	1.101271037	2.387068460
24° 46′ 10″	0.41896791	0.90802133	0.461337071	2.167307131	1.101273666	2.386817647
24° 46′ 20″	0.41901193	0.90798073	0.461477678	2.166956744	1.101320323	2.386566892
24° 46′ 30″	0.41701173	0.70778073	0.461535486	2.166680637	1.101344762	2.386316195
24° 46′ 40″	0.41703373	0.90794010	0.461594295	2.166404589	1.101394250	2.386065557
24° 46′ 50″	0.41707777	0.90791978	0.461653108	2.166128599	1.101374230	2.385814977
24° 47′ 00″	0.41714377	0.90789945	0.461711923	2.165852666	1.101443553	2.385564456
24° 47′ 10″	0.41718800	0.90787913	0.461770741	2.165576792	1.101468210	2.385313992
24° 47′ 20″	0.41723202	0.90785880	0.461829562	2.165300975	1.101492871	2.385063587
24° 47′ 30″	0.41727005	0.90783848	0.461888385	2.165025216	1.101517535	2.384813240
24° 47′ 40″	0.41936406	0.90781815	0.461947210	2.164749516	1.101542203	2.384562951
24° 47′ 50″	0.41940807	0.90779781	0.462006039	2.164473873	1.101566875	2.384312720
	3	3				

186 **24° 47′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
24° 48′ 00″	0.41945208	0.90777748	0.462064870	2.164198288	1.101591550	2.384062547
24° 48′ 10″	0.41949609	0.90775714	0.462123703	2.163922760	1.101616230	2.383812432
24° 48′ 20″	0.41954010	0.90773680	0.462182540	2.163647291	1.101640912	2.383562376
24° 48′ 30″	0.41958411	0.90771646	0.462241379	2.163371879	1.101665599	2.383312377
24° 48′ 40″	0.41962812	0.90769612	0.462300220	2.163096525	1.101690289	2.383062437
24° 48′ 50″	0.41967212	0.90767577	0.462359064	2.162821229	1.101714983	2.382812554
24° 49′ 00″	0.41971613	0.90765543	0.462417911	2.162545991	1.101739681	2.382562730
24° 49′ 10″	0.41976013	0.90763508	0.462476761	2.162270810	1.101764382	2.382312963
24° 49′ 20″	0.41980413	0.90761473	0.462535613	2.161995687	1.101789087	2.382063255
24° 49′ 30″	0.41984814	0.90759437	0.462594468	2.161720621	1.101813796	2.381813604
24° 49′ 40″	0.41989214	0.90757402	0.462653325	2.161445614	1.101838509	2.381564012
24° 49′ 50″	0.41993614	0.90755366	0.462712185	2.161170664	1.101863225	2.381314477
24° 50′ 00″	0.41998013	0.90753330	0.462771048	2.160895771	1.101887945	2.381065000
24° 50′ 10″	0.42002413	0.90751294	0.462829913	2.160620936	1.101912668	2.380815581
24° 50′ 20″	0.42006813	0.90749257	0.462888781	2.160346159	1.101937395	2.380566220
24° 50′ 30″	0.42011213	0.90747220	0.462947652	2.160071439	1.101962126	2.380316916
24° 50′ 40″	0.42015612	0.90745184	0.463006525	2.159796777	1.101986861	2.380067671
24° 50′ 50″	0.42020011	0.90743146	0.463065401	2.159522172	1.102011599	2.379818483
24° 51′ 00″	0.42024411	0.90741109	0.463124279	2.159247625	1.102036342	2.379569353
24° 51′ 10″	0.42028810	0.90739072	0.463183160	2.158973135	1.102061087	2.379320281
24° 51′ 20″	0.42033209	0.90737034	0.463242044	2.158698703	1.102085837	2.379071266
24° 51′ 30″	0.42037608	0.90734996	0.463300931	2.158424328	1.102110590	2.378822309
24° 51′ 40″	0.42042007	0.90732958	0.463359820	2.158150011	1.102135347	2.378573410
24° 51′ 50″	0.42046406	0.90730920	0.463418712	2.157875751	1.102160107	2.378324569
24° 52′ 00″	0.42050805	0.90728881	0.463477606	2.157601548	1.102184872	2.378075785
24° 52′ 10″	0.42055203	0.90726842	0.463536503	2.157327403	1.102209640	2.377827059
24° 52′ 20″	0.42059602	0.90724803	0.463595403	2.157053315	1.102234411	2.377578390
24° 52′ 30″	0.42064000	0.90722764	0.463654305	2.156779284	1.102259187	2.377329779
24° 52′ 40″	0.42068398	0.90720725	0.463713210	2.156505311	1.102283966	2.377081226
24° 52′ 50″	0.42072797	0.90718685	0.463772118	2.156231395	1.102308749	2.376832730
24° 53′ 00″	0.42077195	0.90716645	0.463831028	2.155957536	1.102333535	2.376584292
24° 53′ 10″	0.42081593	0.90714605	0.463889941	2.155683734	1.102358325	2.376335911
24° 53′ 20″	0.42085991	0.90712565	0.463948856	2.155409990	1.102383119	2.376087588
24° 53′ 30″	0.42090388	0.90710524	0.464007775	2.155136303	1.102407917	2.375839322
24° 53′ 40″	0.42094786	0.90708483	0.464066696	2.154862673	1.102432718	2.375591113
24° 53′ 50″	0.42099184	0.90706443	0.464125619	2.154589100	1.102457523	2.375342963
24° 54′ 00″	0.42103581	0.90704401	0.464184545	2.154315584	1.102482332	2.375094869
24° 54′ 10″	0.42107979	0.90702360	0.464243474	2.154042126	1.102507144	2.374846833
24° 54′ 20″	0.42112376	0.90700319	0.464302406	2.153768724	1.102531960	2.374598854
24° 54′ 30″	0.42116773	0.90698277	0.464361340	2.153495380	1.102556780	2.374350933
24° 54′ 40″	0.42121170	0.90696235	0.464420277	2.153222093	1.102581604	2.374103069
24° 54′ 50″	0.42125567	0.90694193	0.464479216	2.152948863	1.102606431	2.373855262
24° 55′ 00″	0.42129964	0.90692150	0.464538158	2.152675690	1.102631262	2.373607513
24° 55′ 10″	0.42134361	0.90690108	0.464597103	2.152402573	1.102656097	2.373359821
24° 55′ 20″	0.42138758	0.90688065	0.464656050	2.152129514	1.102680935	2.373112186
24° 55′ 30″	0.42143155	0.90686022	0.464715000	2.151856512	1.102705777	2.372864608
24° 55′ 40″ 24° 55′ 50″	0.42147551 0.42151948	0.90683978	0.464773953	2.151583567	1.102730623	2.372617088
24 55 50"	0.42131748	0.90681935	0.464832909	2.151310679	1.102755473	2.372369625

187 **24° 55′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
24° 56′ 00″	0.42156344	0.90679891	0.464891867	2.151037847	1.102780326	2.372122219
24° 56′ 10″	0.42160740	0.90677847	0.464950827	2.150765073	1.102805183	2.371874870
24° 56′ 20″	0.42165136	0.90675803	0.465009791	2.150492355	1.102830044	2.371627578
24° 56′ 30″	0.42169532	0.90673759	0.465068757	2.150219695	1.102854908	2.371380344
24° 56′ 40″	0.42173928	0.90671714	0.465127725	2.149947091	1.102879776	2.371133166
24° 56′ 50″	0.42178324	0.90669670	0.465186697	2.149674544	1.102904648	2.370886046
24° 57′ 00″	0.42182720	0.90667625	0.465245671	2.149402053	1.102929524	2.370638983
24° 57′ 10″	0.42187115	0.90665579	0.465304647	2.149129620	1.102954403	2.370391977
24° 57′ 20″	0.42191511	0.90663534	0.465363627	2.148857243	1.102979286	2.370145028
24° 57′ 30″	0.42195906	0.90661488	0.465422609	2.148584923	1.103004173	2.369898135
24° 57′ 40″	0.42200302	0.90659443	0.465481593	2.148312660	1.103029063	2.369651300
24° 57′ 50″	0.42204697	0.90657397	0.465540581	2.148040453	1.103053957	2.369404522
24° 58′ 00″	0.42209092	0.90655350	0.465599571	2.147768304	1.103078855	2.369157801
24° 58′ 10″	0.42213487	0.90653304	0.465658563	2.147496210	1.103103756	2.368911137
24° 58′ 20″	0.42217882	0.90651257	0.465717559	2.147224174	1.103128662	2.368664529
24° 58′ 30″	0.42222277	0.90649210	0.465776557	2.146952194	1.103153571	2.368417979
24° 58′ 40″	0.42226672	0.90647163	0.465835557	2.146680271	1.103178483	2.368171486
24° 58′ 50″	0.42231066	0.90645116	0.465894560	2.146408404	1.103203400	2.367925049
24° 59′ 00″	0.42235461	0.90643068	0.465953566	2.146136594	1.103228320	2.367678669
24° 59′ 10″	0.42239855	0.90641021	0.466012575	2.145864841	1.103253244	2.367432346
24° 59′ 20″	0.42244250	0.90638973	0.466071586	2.145593144	1.103278171	2.367186080
24° 59′ 30″	0.42248644	0.90636924	0.466130600	2.145321503	1.103303103	2.366939871
24° 59′ 40″	0.42253038	0.90634876	0.466189617	2.145049919	1.103328038	2.366693718
24° 59′ 50″	0.42257432	0.90632828	0.466248636	2.144778392	1.103352977	2.366447622
25° 00′ 00″	0.42261826	0.90630779	0.466307658	2.144506921	1.103377919	2.366201583
25° 00′ 10″	0.42266220	0.90628730	0.466366683	2.144235506	1.103402865	2.365955601
25° 00′ 20″	0.42270614	0.90626680	0.466425710	2.143964148	1.103427815	2.365709675
25° 00′ 30″	0.42275007	0.90624631	0.466484740	2.143692846	1.103452769	2.365463806
25° 00′ 40″	0.42279401	0.90622581	0.466543773	2.143421601	1.103477726	2.365217994
25° 00′ 50″	0.42283794	0.90620531	0.466602808	2.143150412	1.103502687	2.364972238
25° 01′ 00″	0.42288188	0.90618481	0.466661846	2.142879279	1.103527652	2.364726539
25° 01′ 10″	0.42292581	0.90616431	0.466720887	2.142608203	1.103552620	2.364480896
25° 01′ 20″	0.42296974	0.90614381	0.466779930	2.142337183	1.103577593	2.364235311
25° 01′ 30″	0.42301367	0.90612330	0.466838976	2.142066219	1.103602569	2.363989781
25° 01′ 40″	0.42305760	0.90610279	0.466898025	2.141795311	1.103627548	2.363744308
25° 01′ 50″	0.42310153	0.90608228	0.466957076	2.141524460	1.103652532	2.363498892
25° 02′ 00″	0.42314546	0.90606176	0.467016130	2.141253665	1.103677519	2.363253532
25° 02′ 10″	0.42318939	0.90604125	0.467075187	2.140982926	1.103702510	2.363008229
25° 02′ 20″	0.42323331	0.90602073	0.467134246	2.140712244	1.103727504	2.362762982
25° 02′ 30″	0.42327724	0.90600021	0.467193308	2.140441618	1.103752503	2.362517792
25° 02′ 40″	0.42332116	0.90597969	0.467252373	2.140171047	1.103777505	2.362272658
25° 02′ 50″	0.42336508	0.90595916	0.467311440	2.139900533	1.103802510	2.362027581
25° 03′ 00″	0.42340900	0.90593864	0.467370510	2.139630075	1.103827520	2.361782560
25° 03′ 10″	0.42345292	0.90591811	0.467429583	2.139359673	1.103852533	2.361537595
25° 03′ 20″	0.42349684	0.90589758	0.467488658	2.139089328	1.103877550	2.361292687
25° 03′ 30″	0.42354076	0.90587705	0.467547736	2.138819038	1.103902571	2.361047835
25° 03′ 40″	0.42358468	0.90585651	0.467606817	2.138548804	1.103927595	2.360803039
25° 03′ 50″	0.42362860	0.90583597	0.467665901	2.138278627	1.103952623	2.360558300

188 **25° 03′ 50″**

	gin (a)	222(24)	tom(ac)	aat(a)	555(24)	222(24)
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
25° 04′ 00″	0.42367251	0.90581543	0.467724987	2.138008505	1.103977655	2.360313617
25° 04′ 10″	0.42371643	0.90579489	0.467784076	2.137738440	1.104002691	2.360068990
25° 04′ 20″	0.42376034	0.90577435	0.467843167	2.137468430	1.104027730	2.359824419
25° 04′ 30″	0.42380425	0.90575380	0.467902261	2.137198476	1.104052773	2.359579905
25° 04′ 40″	0.42384817	0.90573326	0.467961358	2.136928579	1.104077820	2.359335447
25° 04′ 50″	0.42389208	0.90571271	0.468020458	2.136658737	1.104102871	2.359091045
25° 05′ 00″	0.42393599	0.90569216	0.468079560	2.136388951	1.104127925	2.358846699
25° 05′ 10″	0.42397989	0.90567160	0.468138665	2.136119221	1.104152983	2.358602409
25° 05′ 20″	0.42402380	0.90565105	0.468197772	2.135849547	1.104178045	2.358358176
25° 05′ 30″	0.42406771	0.90563049	0.468256883	2.135579928	1.104203110	2.358113999
25° 05′ 40″	0.42411161	0.90560993	0.468315996	2.135310366	1.104228179	2.357869877
25° 05′ 50″	0.42415552	0.90558936	0.468375111	2.135040859	1.104253252	2.357625812
25° 06′ 00″	0.42419942	0.90556880	0.468434230	2.134771408	1.104278329	2.357381803
25° 06′ 10″	0.42424333	0.90554823	0.468493351	2.134502013	1.104303409	2.357137850
25° 06′ 20″	0.42428723	0.90552766	0.468552474	2.134232674	1.104328493	2.356893953
25° 06′ 30″	0.42433113	0.90550709	0.468611601	2.133963390	1.104353581	2.356650112
25° 06′ 40″	0.42437503	0.90548652	0.468670730	2.133694162	1.104378673	2.356406327
25° 06′ 50″	0.42441893	0.90546594	0.468729862	2.133424990	1.104403768	2.356162598
25° 07′ 00″	0.42446282	0.90544537	0.468788996	2.133155873	1.104428867	2.355918925
25° 07′ 10″	0.42450672	0.90542479	0.468848133	2.132886812	1.104453970	2.355675307
25° 07′ 20″	0.42455062	0.90540420	0.468907273	2.132617807	1.104479077	2.355431746
25° 07′ 30″	0.42459451	0.90538362	0.468966415	2.132348857	1.104504187	2.355188241
25° 07′ 40″	0.42463841	0.90536303	0.469025561	2.132079963	1.104529301	2.354944791
25° 07′ 50″	0.42468230	0.90534245	0.469084709	2.131811125	1.104554419	2.354701397
25° 08′ 00″	0.42472619	0.90532186	0.469143859	2.131542342	1.104579540	2.354458060
25° 08′ 10″	0.42477008	0.90530126	0.469203012	2.131273614	1.104604665	2.354214778
25° 08′ 20″	0.42481397	0.90528067	0.469262168	2.131004942	1.104629794	2.353971551
25° 08′ 30″	0.42485786	0.90526007	0.469321327	2.130736326	1.104654927	2.353728381
25° 08′ 40″	0.42490175	0.90523947	0.469380488	2.130467765	1.104680064	2.353485266
25° 08′ 50″	0.42494563	0.90521887	0.469439652	2.130199260	1.104705204	2.353242207
25° 09′ 00″	0.42498952	0.90519827	0.469498819	2.129930810	1.104730348	2.352999204
25° 09′ 10″	0.42503340	0.90517767	0.469557988	2.129662416	1.104755495	2.352756257
25° 09′ 20″ 25° 09′ 30″	0.42507729	0.90515706	0.469617161	2.129394076	1.104780647	2.352513365
	0.42512117	0.90513645	0.469676335	2.129125793	1.104805802	2.352270529
25° 09′ 40″	0.42516505	0.90511584	0.469735513	2.128857565	1.104830961	2.352027749
25° 09′ 50″	0.42520893	0.90509522	0.469794693	2.128589392	1.104856124	2.351785024
25° 10′ 00″ 25° 10′ 10″	0.42525281	0.90507461	0.469853876	2.128321274	1.104881290	2.351542355
	0.42529669	0.90505399	0.469913062	2.128053212	1.104906460	2.351299741
25° 10′ 20″	0.42534057	0.90503337	0.469972250	2.127785205	1.104931634	2.351057183
25° 10′ 30″ 25° 10′ 40″	0.42538445	0.90501275	0.470031441	2.127517253	1.104956812	2.350814681
	0.42542832	0.90499212	0.470090635	2.127249357	1.104981993	2.350572234
25° 10′ 50″ 25° 11′ 00″	0.42547220	0.90497150 0.90495087	0.470149831	2.126981516	1.105007178	2.350329842
	0.42551607	0.90493087	0.470209030	2.126713730	1.105032367	2.350087506
25° 11′ 10″ 25° 11′ 20″	0.42555994	0.90493024	0.470268232	2.126445999	1.105057560 1.105082756	2.349845226
25° 11′ 20″ 25° 11′ 30″	0.42560381		0.470327436	2.126178324		2.349603001 2.349360832
25° 11′ 30″ 25° 11′ 40″	0.42564769 0.42569156	0.90488897 0.90486833	0.470386643 0.470445853	2.125910703 2.125643138	1.105107956 1.105133160	2.349360832
25° 11′ 50″	0.42569136	0.90486833	0.470445855	2.125643138	1.105158367	2.348876659
25 11 50"	0.423/3342	0.70404709	0.470303066	2.1233/3628	1.10313030/	4.3400/0039

189 **25° 11′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
25° 12′ 00″	0.42577929	0.90482705	0.470564281	2.125108173	1.105183579	2.348634656
25° 12′ 10″	0.42582316	0.90480641	0.470623499	2.124840773	1.105208794	2.348392708
25° 12′ 20″	0.42586702	0.90478576	0.470682720	2.124573429	1.105234013	2.348150816
25° 12′ 30″	0.42591089	0.90476512	0.470741943	2.124306139	1.105259235	2.347908979
25° 12′ 40″	0.42595475	0.90474447	0.470801169	2.124038904	1.105284462	2.347667197
25° 12′ 50″	0.42599862	0.90472381	0.470860398	2.123771725	1.105309692	2.347425470
25° 13′ 00″	0.42604248	0.90470316	0.470919630	2.123504600	1.105334926	2.347183799
25° 13′ 10″	0.42608634	0.90468250	0.470978864	2.123237531	1.105360163	2.346942183
25° 13′ 20″	0.42613020	0.90466185	0.471038101	2.122970516	1.105385404	2.346700623
25° 13′ 30″	0.42617406	0.90464119	0.471097340	2.122703557	1.105410650	2.346459117
25° 13′ 40″	0.42621791	0.90462052	0.471156583	2.122436652	1.105435898	2.346217667
25° 13′ 50″	0.42626177	0.90459986	0.471215828	2.122169802	1.105461151	2.345976272
25° 14′ 00″	0.42630563	0.90457919	0.471275075	2.121903007	1.105486407	2.345734932
25° 14′ 10″	0.42634948	0.90455852	0.471334326	2.121636267	1.105511667	2.345493648
25° 14′ 20″	0.42639333	0.90453785	0.471393579	2.121369582	1.105536931	2.345252418
25° 14′ 30″	0.42643719	0.90451718	0.471452835	2.121102952	1.105562199	2.345011244
25° 14′ 40″	0.42648104	0.90449650	0.471512094	2.120836377	1.105587470	2.344770125
25° 14′ 50″	0.42652489	0.90447583	0.471571355	2.120569856	1.105612745	2.344529060
25° 15′ 00″	0.42656874	0.90445515	0.471630619	2.120303390	1.105638024	2.344288051
25° 15′ 10″	0.42661259	0.90443446	0.471689885	2.120036979	1.105663307	2.344047097
25° 15′ 20″	0.42665644	0.90441378	0.471749155	2.119770623	1.105688593	2.343806198
25° 15′ 30″	0.42670028	0.90439309	0.471808427	2.119504322	1.105713883	2.343565354
25° 15′ 40″	0.42674413	0.90437241	0.471867702	2.119238075	1.105739177	2.343324565
25° 15′ 50″	0.42678797	0.90435172	0.471926979	2.118971883	1.105764475	2.343083831
25° 16′ 00″	0.42683182	0.90433102	0.471986260	2.118705745	1.105789776	2.342843152
25° 16′ 10″	0.42687566	0.90431033	0.472045543	2.118439663	1.105815081	2.342602528
25° 16′ 20″	0.42691950	0.90428963	0.472104828	2.118173635	1.105840390	2.342361959
25° 16′ 30″	0.42696334	0.90426893	0.472164117	2.117907661	1.105865703	2.342121445
25° 16′ 40″	0.42700718	0.90424823	0.472223408	2.117641742	1.105891019	2.341880985
25° 16′ 50″	0.42705102	0.90422753	0.472282702	2.117375878	1.105916340	2.341640581
25° 17′ 00″	0.42709486	0.90420682	0.472341998	2.117110068	1.105941664	2.341400231
25° 17′ 10″	0.42713870	0.90418612	0.472401297	2.116844313	1.105966991	2.341159936
25° 17′ 20″	0.42718253	0.90416541	0.472460599	2.116578613	1.105992323	2.340919696
25° 17′ 30″	0.42722637	0.90414470	0.472519904	2.116312967	1.106017658	2.340679511
25° 17′ 40″ 25° 17′ 50″	0.42727020	0.90412398	0.472579211	2.116047375	1.106042997	2.340439381
25° 18′ 00″	0.42731403	0.90410327	0.472638522	2.115781838	1.106068340	2.340199305
25° 18′ 10″	0.42735786 0.42740169	0.90408255 0.90406183	0.472697834 0.472757150	2.115516356 2.115250927	1.106093686	2.339959284 2.339719318
25° 18′ 20″	0.42740169	0.90406183	0.472737130	2.113230727	1.106119036 1.106144391	2.339479406
25° 18′ 30″	0.42744332	0.90404111	0.472875789	2.114783334	1.106144371	2.339239550
25° 18′ 40″	0.42748733	0.90399966	0.472935113	2.114720234	1.106169746	2.338999747
25° 18′ 50″	0.42753318	0.90397893	0.472994439	2.114434770	1.106173110	2.338760000
25° 19′ 00″	0.42757701	0.90395820	0.472774437	2.114169739	1.106220473	2.338520307
25° 19′ 10″	0.42762083	0.90393747	0.473033767	2.113724603	1.106243644	2.338280669
25° 19′ 20″	0.42766466	0.90391673	0.473113100	2.113837301	1.106271217	2.338041085
25° 19′ 30″	0.42775230	0.90389599	0.473172433	2.113129461	1.106276374	2.337801556
25° 19′ 40″	0.42779612	0.70387577	0.473291112	2.112864522	1.106321774	2.337562082
25° 19′ 50″	0.42777012	0.90385451	0.473271112	2.112599637	1.106347338	2.337322662
	0.12/03//3	0.70303731	5.17 JJJUTJJ	2.112 377037	1.1003/2/40	

190 **25° 19′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
25° 20′ 00″	0.42788376	0.90383377	0.473409801	2.112334807	1.106398138	2.337083297
25° 20′ 10″	0.42792758	0.90381302	0.473469149	2.112070031	1.106423533	2.336843986
25° 20′ 20″	0.42797140	0.90379228	0.473528500	2.111805309	1.106448933	2.336604730
25° 20′ 30″	0.42801522	0.90377153	0.473587854	2.111540641	1.106474335	2.336365528
25° 20′ 40″	0.42805903	0.90375078	0.473647210	2.111276028	1.106499742	2.336126380
25° 20′ 50″	0.42810285	0.90373002	0.473706569	2.111011468	1.106525153	2.335887287
25° 21′ 00″	0.42814666	0.90370927	0.473765931	2.110746963	1.106550567	2.335648249
25° 21′ 10″	0.42819047	0.90368851	0.473825296	2.110482512	1.106575985	2.335409265
25° 21′ 20″	0.42823429	0.90366775	0.473884663	2.110218115	1.106601407	2.335170335
25° 21′ 30″	0.42827810	0.90364698	0.473944033	2.109953772	1.106626832	2.334931460
25° 21′ 40″	0.42832191	0.90362622	0.474003406	2.109689484	1.106652262	2.334692639
25° 21′ 50″	0.42836571	0.90360545	0.474062781	2.109425249	1.106677695	2.334453872
25° 22′ 00″	0.42840952	0.90358468	0.474122159	2.109161068	1.106703132	2.334215160
25° 22′ 10″	0.42845333	0.90356391	0.474181540	2.108896941	1.106728572	2.333976502
25° 22′ 20″	0.42849713	0.90354314	0.474240924	2.108632869	1.106754017	2.333737898
25° 22′ 30″	0.42854094	0.90352237	0.474300310	2.108368850	1.106779465	2.333499348
25° 22′ 40″	0.42858474	0.90350159	0.474359700	2.108104885	1.106804917	2.333260853
25° 22′ 50″	0.42862854	0.90348081	0.474419091	2.107840975	1.106830373	2.333022412
25° 23′ 00″	0.42867235	0.90346003	0.474478486	2.107577118	1.106855832	2.332784025
25° 23′ 10″	0.42871615	0.90343924	0.474537883	2.107313315	1.106881296	2.332545692
25° 23′ 20″	0.42875995	0.90341846	0.474597283	2.107049566	1.106906763	2.332307414
25° 23′ 30″	0.42880374	0.90339767	0.474656686	2.106785871	1.106932234	2.332069190
25° 23′ 40″	0.42884754	0.90337688	0.474716092	2.106522230	1.106957708	2.331831020
25° 23′ 50″	0.42889134	0.90335609	0.474775500	2.106258642	1.106983187	2.331592904
25° 24′ 00″	0.42893513	0.90333529	0.474834911	2.105995109	1.107008669	2.331354842
25° 24′ 10″	0.42897893	0.90331450	0.474894325	2.105731629	1.107034155	2.331116834
25° 24′ 20″	0.42902272	0.90329370	0.474953741	2.105468203	1.107059644	2.330878880
25° 24′ 30″	0.42906651	0.90327290	0.475013160	2.105204831	1.107085138	2.330640980
25° 24′ 40″	0.42911031	0.90325209	0.475072582	2.104941512	1.107110635	2.330403135
25° 24′ 50″	0.42915410	0.90323129	0.475132007	2.104678247	1.107136136	2.330165343
25° 25′ 00″	0.42919788	0.90321048	0.475191435	2.104415036	1.107161641	2.329927605
25° 25′ 10″	0.42924167	0.90318967	0.475250865	2.104151879	1.107187150	2.329689922
25° 25′ 20″	0.42928546	0.90316886	0.475310298	2.103888776	1.107212662	2.329452292
25° 25′ 30″	0.42932925	0.90314805	0.475369733	2.103625726	1.107238178	2.329214716
25° 25′ 40″	0.42937303	0.90312723	0.475429172	2.103362729	1.107263698	2.328977194
25° 25′ 50″	0.42941682	0.90310642	0.475488613	2.103099787	1.107289222	2.328739726
25° 26′ 00″	0.42946060	0.90308560	0.475548057	2.102836898	1.107314749	2.328502312
25° 26′ 10″	0.42950438	0.90306477	0.475607503	2.102574062	1.107340281	2.328264952
25° 26′ 20″	0.42954816	0.90304395	0.475666953	2.102311280	1.107365816	2.328027646
25° 26′ 30″	0.42959194	0.90302312	0.475726405	2.102048552	1.107391355	2.327790393
25° 26′ 40″	0.42963572	0.90300230	0.475785859	2.101785877	1.107416897	2.327553195
25° 26′ 50″	0.42967950	0.90298146	0.475845317	2.101523256	1.107442444	2.327316050
25° 27′ 00″	0.42972328	0.90296063	0.475904777	2.101260688	1.107467994	2.327078959
25° 27′ 10″	0.42976705	0.90293980	0.475964240	2.100998174	1.107493548	2.326841921
25° 27′ 20″	0.42981083	0.90291896	0.476023706	2.100735713	1.107519105	2.326604938
25° 27′ 30″	0.42985460	0.90289812	0.476083175	2.100473306	1.107544667	2.326368008
25° 27′ 40″	0.42989838	0.90287728	0.476142646	2.100210952	1.107570232	2.326131132
25° 27′ 50″	0.42994215	0.90285644	0.476202120	2.099948652	1.107595801	2.325894310

191 **25° 27′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
25° 28′ 00″	0.42998592	0.90283559	0.476261597	2.099686405	1.107621374	2.325657541
25° 28′ 10″	0.43002969	0.90281475	0.476321076	2.099424211	1.107646951	2.325420826
25° 28′ 20″	0.43007346	0.90279390	0.476380559	2.099162071	1.107672531	2.325184164
25° 28′ 30″	0.43011723	0.90277304	0.476440044	2.098899984	1.107698116	2.324947557
25° 28′ 40″	0.43016100	0.90275219	0.476499532	2.098637950	1.107723704	2.324711003
25° 28′ 50″	0.43020476	0.90273133	0.476559022	2.098375970	1.107749295	2.324474502
25° 29′ 00″	0.43024853	0.90271048	0.476618515	2.098114043	1.107774891	2.324238055
25° 29′ 10″	0.43029229	0.90268962	0.476678011	2.097852169	1.107800490	2.324001662
25° 29′ 20″	0.43033605	0.90266875	0.476737510	2.097590349	1.107826094	2.323765322
25° 29′ 30″	0.43037982	0.90264789	0.476797012	2.097328581	1.107851700	2.323529035
25° 29′ 40″	0.43042358	0.90262702	0.476856516	2.097066867	1.107877311	2.323292803
25° 29′ 50″	0.43046734	0.90260616	0.476916023	2.096805207	1.107902926	2.323056623
25° 30′ 00″	0.43051110	0.90258528	0.476975533	2.096543599	1.107928544	2.322820497
25° 30′ 10″	0.43055485	0.90256441	0.477035045	2.096282045	1.107954166	2.322584425
25° 30′ 20″	0.43059861	0.90254354	0.477094561	2.096020543	1.107979792	2.322348406
25° 30′ 30″	0.43064237	0.90252266	0.477154079	2.095759095	1.108005422	2.322112440
25° 30′ 40″	0.43068612	0.90250178	0.477213599	2.095497700	1.108031055	2.321876528
25° 30′ 50″	0.43072988	0.90248090	0.477273123	2.095236359	1.108056693	2.321640669
25° 31′ 00″	0.43077363	0.90246002	0.477332649	2.094975070	1.108082334	2.321404864
25° 31′ 10″	0.43081738	0.90243913	0.477392178	2.094713834	1.108107978	2.321169112
25° 31′ 20″	0.43086113	0.90241824	0.477451710	2.094452651	1.108133627	2.320933413
25° 31′ 30″	0.43090488	0.90239735	0.477511245	2.094191522	1.108159279	2.320697768
25° 31′ 40″	0.43094863	0.90237646	0.477570782	2.093930445	1.108184936	2.320462176
25° 31′ 50″	0.43099238	0.90235557	0.477630322	2.093669422	1.108210596	2.320226637
25° 32′ 00″	0.43103613	0.90233467	0.477689865	2.093408451	1.108236260	2.319991151
25° 32′ 10″	0.43107987	0.90231377	0.477749410	2.093147533	1.108261927	2.319755719
25° 32′ 20″	0.43112362	0.90229287	0.477808959	2.092886669	1.108287599	2.319520340
25° 32′ 30″	0.43116736	0.90227197	0.477868510	2.092625857	1.108313274	2.319285014
25° 32′ 40″	0.43121110	0.90225106	0.477928064	2.092365098	1.108338953	2.319049741
25° 32′ 50″	0.43125485	0.90223016	0.477987620	2.092104392	1.108364636	2.318814522
25° 33′ 00″	0.43129859	0.90220925	0.478047180	2.091843739	1.108390322	2.318579356
25° 33′ 10″	0.43134233	0.90218834	0.478106742	2.091583139	1.108416012	2.318344242
25° 33′ 20″	0.43138607	0.90216742	0.478166307	2.091322591	1.108441707	2.318109182
25° 33′ 30″	0.43142980	0.90214651	0.478225875	2.091062097	1.108467405	2.317874175
25° 33′ 40″	0.43147354	0.90212559	0.478285445	2.090801655	1.108493106	2.317639222
25° 33′ 50″	0.43151728	0.90210467	0.478345018	2.090541266	1.108518812	2.317404321
25° 34′ 00″	0.43156101	0.90208375	0.478404594	2.090280930	1.108544521	2.317169473
25° 34′ 10″	0.43160474	0.90206283	0.478464173	2.090020647	1.108570234	2.316934678
25° 34′ 20″	0.43164848	0.90204190	0.478523754	2.089760416	1.108595951	2.316699937
25° 34′ 30″	0.43169221	0.90202097	0.478583339	2.089500238	1.108621672	2.316465248
25° 34′ 40″	0.43173594	0.90200004	0.478642926	2.089240113	1.108647397	2.316230612
25° 34′ 50″ 25° 35′ 00″	0.43177967	0.90197911	0.478702515 0.478762108	2.088980040	1.108673125 1.108698857	2.315996030
25° 35′ 00″ 25° 35′ 10″	0.43182340	0.90195818		2.088720021		2.315761500
25° 35′ 10″ 25° 35′ 20″	0.43186713	0.90193724	0.478821703	2.088460053	1.108724593 1.108750333	2.315527023
25° 35′ 20″ 25° 35′ 30″	0.43191085	0.90191630	0.478881301 0.478940902	2.088200139		2.315292599
25° 35′ 30″ 25° 35′ 40″	0.43195458 0.43199830	0.90189536 0.90187442	0.478940902	2.087940277 2.087680468	1.108776077 1.108801824	2.315058228 2.314823910
25° 35′ 50″	0.43177630	0.90185347	0.479060112	2.087420711	1.108827575	2.314589645
	0.73204203	0./010334/	0.77/000112	2.00/420/11	1.10002/3/3	2.314307043

192 **25° 35′ 50″**

	-: (24)	(24)	A (a)		()	(-1)
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
25° 36′ 00″	0.43208575	0.90183253	0.479119721	2.087161007	1.108853330	2.314355432
25° 36′ 10″	0.43212947	0.90181158	0.479179333	2.086901355	1.108879089	2.314121273
25° 36′ 20″	0.43217319	0.90179063	0.479238948	2.086641756	1.108904851	2.313887166
25° 36′ 30″	0.43221691	0.90176967	0.479298565	2.086382209	1.108930618	2.313653112
25° 36′ 40″	0.43226063	0.90174872	0.479358186	2.086122715	1.108956388	2.313419111
25° 36′ 50″	0.43230435	0.90172776	0.479417809	2.085863274	1.108982162	2.313185163
25° 37′ 00″	0.43234806	0.90170680	0.479477435	2.085603885	1.109007940	2.312951267
25° 37′ 10″	0.43239178	0.90168584	0.479537063	2.085344548	1.109033721	2.312717424
25° 37′ 20″	0.43243549	0.90166487	0.479596694	2.085085264	1.109059507	2.312483634
25° 37′ 30″	0.43247921	0.90164391	0.479656329	2.084826032	1.109085296	2.312249896
25° 37′ 40″	0.43252292	0.90162294	0.479715965	2.084566852	1.109111089	2.312016211
25° 37′ 50″	0.43256663	0.90160197	0.479775605	2.084307725	1.109136886	2.311782579
25° 38′ 00″	0.43261034	0.90158100	0.479835247	2.084048651	1.109162686	2.311549000
25° 38′ 10″	0.43265405	0.90156002	0.479894893	2.083789628	1.109188491	2.311315473
25° 38′ 20″	0.43269776	0.90153905	0.479954541	2.083530658	1.109214299	2.311081999
25° 38′ 30″	0.43274147	0.90151807	0.480014191	2.083271741	1.109240111	2.310848577
25° 38′ 40″	0.43278517	0.90149709	0.480073845	2.083012875	1.109265927	2.310615208
25° 38′ 50″	0.43282888	0.90147610	0.480133501	2.082754062	1.109291747	2.310381891
25° 39′ 00″	0.43287258	0.90145512	0.480193160	2.082495301	1.109317570	2.310148627
25° 39′ 10″	0.43291628	0.90143413	0.480252822	2.082236593	1.109343397	2.309915416
25° 39′ 20″	0.43295999	0.90141314	0.480312487	2.081977936	1.109369228	2.309682257
25° 39′ 30″	0.43300369	0.90139215	0.480372154	2.081719332	1.109395063	2.309449150
25° 39′ 40″	0.43304739	0.90137116	0.480431824	2.081460780	1.109420902	2.309216096
25° 39′ 50″	0.43309109	0.90135016	0.480491497	2.081202280	1.109446745	2.308983095
25° 40′ 00″	0.43313479	0.90132916	0.480551173	2.080943833	1.109472591	2.308750146
25° 40′ 10″	0.43317848	0.90130816	0.480610852	2.080685437	1.109498441	2.308517249
25° 40′ 20″	0.43322218	0.90128716	0.480670533	2.080427094	1.109524295	2.308284405
25° 40′ 30″	0.43326587	0.90126616	0.480730217	2.080168803	1.109550153	2.308051613
25° 40′ 40″	0.43330957	0.90124515	0.480789904	2.079910564	1.109576014	2.307818873
25° 40′ 50″	0.43335326	0.90122414	0.480849594	2.079652377	1.109601880	2.307586186
25° 41′ 00″	0.43339695	0.90120313	0.480909286	2.079394241	1.109627749	2.307353551
25° 41′ 10″	0.43344064	0.90118212	0.480968981	2.079136158	1.109653622	2.307120969
25° 41′ 20″	0.43348433	0.90116110	0.481028679	2.078878128	1.109679499	2.306888439
25° 41′ 30″	0.43352802	0.90114008	0.481088380	2.078620149	1.109705380	2.306655961
25° 41′ 40″	0.43357171	0.90111907	0.481148084	2.078362222	1.109731264	2.306423535
25° 41′ 50″	0.43361540	0.90109804	0.481207790	2.078104347	1.109757152	2.306191162
25° 42′ 00″	0.43365908	0.90107702	0.481267499	2.077846524	1.109783044	2.305958841
25° 42′ 10″	0.43370277	0.90105600	0.481327211	2.077588752	1.109808940	2.305726572
25° 42′ 20″	0.43374645	0.90103497	0.481386926	2.077331033	1.109834840	2.305494355
25° 42′ 30″	0.43379014	0.90101394	0.481446643	2.077073366	1.109860744	2.305262191
25° 42′ 40″	0.43383382	0.90099291	0.481506364	2.076815751	1.109886651	2.305030078
25° 42′ 50″	0.43387750	0.90097187	0.481566087	2.076558187	1.109912562	2.304798018
25° 43′ 00″	0.43392118	0.90095084	0.481625813	2.076300675	1.109938477	2.304566010
25° 43′ 10″	0.43396486	0.90092980	0.481685541	2.076043216	1.109964396	2.304334054
25° 43′ 20″	0.43400854	0.90090876	0.481745273	2.075785808	1.109990319	2.304102150
25° 43′ 30″	0.43405221	0.90088772	0.481805007	2.075528451	1.110016245	2.303870299
25° 43′ 40″	0.43409589	0.90086667	0.481864744	2.075271147	1.110042176	2.303638499
25° 43′ 50″	0.43413956	0.90084562	0.481924484	2.075013894	1.110068110	2.303406751

193 25° 43′ 50″

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<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
25° 44′ 00″	0.43418324	0.90082458	0.481984226	2.074756694	1.110094048	2.303175056
25° 44′ 10″	0.43422691	0.90080353	0.482043972	2.074499544	1.110119989	2.302943412
25° 44′ 20″	0.43427058	0.90078247	0.482103720	2.074242447	1.110145935	2.302711821
25° 44′ 30″	0.43431425	0.90076142	0.482163471	2.073985401	1.110171884	2.302480281
25° 44′ 40″	0.43435792	0.90074036	0.482223225	2.073728407	1.110197838	2.302248793
25° 44′ 50″	0.43440159	0.90071930	0.482282981	2.073471465	1.110223795	2.302017358
25° 45′ 00″	0.43444526	0.90069824	0.482342741	2.073214574	1.110249756	2.301785974
25° 45′ 10″	0.43448892	0.90067718	0.482402503	2.072957735	1.110275720	2.301554642
25° 45′ 20″	0.43453259	0.90065611	0.482462268	2.072700948	1.110301689	2.301323362
25° 45′ 30″	0.43457625	0.90063504	0.482522036	2.072444212	1.110327661	2.301092134
25° 45′ 40″	0.43461992	0.90061397	0.482581806	2.072187528	1.110353637	2.300860958
25° 45′ 50″	0.43466358	0.90059290	0.482641580	2.071930895	1.110379617	2.300629834
25° 46′ 00″	0.43470724	0.90057183	0.482701356	2.071674314	1.110405601	2.300398761
25° 46′ 10″	0.43475090	0.90055075	0.482761135	2.071417784	1.110431589	2.300167741
25° 46′ 20″	0.43479456	0.90052967	0.482820917	2.071161306	1.110457580	2.299936772
25° 46′ 30″	0.43483822	0.90050859	0.482880701	2.070904879	1.110483576	2.299705855
25° 46′ 40″	0.43488188	0.90048751	0.482940488	2.070648504	1.110509575	2.299474990
25° 46′ 50″	0.43492553	0.90046642	0.483000279	2.070392181	1.110535578	2.299244176
25° 47′ 00″	0.43496919	0.90044534	0.483060072	2.070135908	1.110561584	2.299013414
25° 47′ 10″	0.43501284	0.90042425	0.483119867	2.069879688	1.110587595	2.298782704
25° 47′ 20″	0.43505650	0.90040316	0.483179666	2.069623518	1.110613609	2.298552046
25° 47′ 30″	0.43510015	0.90038206	0.483239467	2.069367400	1.110639628	2.298321439
25° 47′ 40″	0.43514380	0.90036097	0.483299271	2.069111334	1.110665650	2.298090884
25° 47′ 50″	0.43518745	0.90033987	0.483359078	2.068855319	1.110691676	2.297860381
25° 48′ 00″	0.43523110	0.90031877	0.483418888	2.068599355	1.110717706	2.297629929
25° 48′ 10″	0.43527475	0.90029767	0.483478701	2.068343442	1.110743739	2.297399529
25° 48′ 20″	0.43531839	0.90027657	0.483538516	2.068087581	1.110769777	2.297169180
25° 48′ 30″	0.43536204	0.90025546	0.483598334	2.067831771	1.110795818	2.296938884
25° 48′ 40″	0.43540569	0.90023435	0.483658155	2.067576013	1.110821863	2.296708638
25° 48′ 50″	0.43544933	0.90021324	0.483717979	2.067320306	1.110847912	2.296478444
25° 49′ 00″	0.43549297	0.90019213	0.483777806	2.067064649	1.110873965	2.296248302
25° 49′ 10″	0.43553662	0.90017102	0.483837635	2.066809045	1.110900021	2.296018211
25° 49′ 20″	0.43558026	0.90014990	0.483897467	2.066553491	1.110926082	2.295788172
25° 49′ 30″	0.43562390	0.90012878	0.483957302	2.066297989	1.110952146	2.295558184
25° 49′ 40″	0.43566754	0.90010766	0.484017140	2.066042537	1.110978214	2.295328248
25° 49′ 50″	0.43571117	0.90008654	0.484076981	2.065787137	1.111004286	2.295098363
25° 50′ 00″	0.43575481	0.90006541	0.484136824	2.065531788	1.111030362	2.294868530
25° 50′ 10″	0.43579845	0.90004428	0.484196670	2.065276491	1.111056441	2.294638748
25° 50′ 20″	0.43584208	0.90002316	0.484256519	2.065021244	1.111082525	2.294409017
25° 50′ 30″	0.43588571	0.90000202	0.484316371	2.064766049	1.111108612	2.294179338
25° 50′ 40″	0.43592935	0.89998089	0.484376226	2.064510904	1.111134703	2.293949710
25° 50′ 50″	0.43597298	0.89995976	0.484436083	2.064255811	1.111160798	2.293720134
25° 51′ 00″	0.43601661	0.89993862	0.484495944	2.064000768	1.111186897	2.293490609
25° 51′ 10″	0.43606024	0.89991748	0.484555807	2.063745777	1.111212999	2.293261135
25° 51′ 20″	0.43610387	0.89989634	0.484615673	2.063490837	1.111239106	2.293031712
25° 51′ 30″	0.43614750	0.89987519	0.484675541	2.063235948	1.111265216	2.292802341
25° 51′ 40″	0.43619112	0.89985405	0.484735413	2.062981109	1.111291330	2.292573021
25° 51′ 50″	0.43623475	0.89983290	0.484795287	2.062726322	1.111317448	2.292343752

194 25° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
25° 52′ 00″	0.43627837	0.89981175	0.484855165	2.062471586	1.111343570	2.292114535
25° 52′ 10″	0.43632200	0.89979060	0.484915045	2.062216900	1.111369696	2.291885369
25° 52′ 20″	0.43636562	0.89976944	0.484974927	2.061962266	1.111395825	2.291656254
25° 52′ 30″	0.43640924	0.89974828	0.485034813	2.061707682	1.111421958	2.291427190
25° 52′ 40″	0.43645286	0.89972713	0.485094701	2.061453149	1.111448096	2.291198177
25° 52′ 50″	0.43649648	0.89970596	0.485154593	2.061198668	1.111474237	2.290969216
25° 53′ 00″	0.43654010	0.89968480	0.485214487	2.060944237	1.111500382	2.290740305
25° 53′ 10″	0.43658372	0.89966364	0.485274384	2.060689857	1.111526530	2.290511446
25° 53′ 20″	0.43662733	0.89964247	0.485334283	2.060435527	1.111552683	2.290282638
25° 53′ 30″	0.43667095	0.89962130	0.485394186	2.060181249	1.111578839	2.290053881
25° 53′ 40″	0.43671456	0.89960013	0.485454091	2.059927021	1.111604999	2.289825175
25° 53′ 50″	0.43675818	0.89957895	0.485513999	2.059672844	1.111631163	2.289596520
25° 54′ 00″	0.43680179	0.89955778	0.485573910	2.059418718	1.111657331	2.289367916
25° 54′ 10″	0.43684540	0.89953660	0.485633824	2.059164642	1.111683503	2.289139363
25° 54′ 20″	0.43688901	0.89951542	0.485693741	2.058910618	1.111709679	2.288910861
25° 54′ 30″	0.43693262	0.89949424	0.485753660	2.058656644	1.111735858	2.288682411
25° 54′ 40″	0.43697623	0.89947306	0.485813583	2.058402720	1.111762042	2.288454011
25° 54′ 50″	0.43701983	0.89945187	0.485873508	2.058148848	1.111788229	2.288225662
25° 55′ 00″	0.43706344	0.89943068	0.485933436	2.057895026	1.111814420	2.287997364
25° 55′ 10″	0.43710705	0.89940949	0.485993366	2.057641254	1.111840615	2.287769117
25° 55′ 20″	0.43715065	0.89938830	0.486053300	2.057387534	1.111866813	2.287540921
25° 55′ 30″	0.43719425	0.89936710	0.486113236	2.057133864	1.111893016	2.287312775
25° 55′ 40″	0.43723785	0.89934591	0.486173176	2.056880244	1.111919222	2.287084681
25° 55′ 50″	0.43728146	0.89932471	0.486233118	2.056626675	1.111945432	2.286856638
25° 56′ 00″	0.43732506	0.89930351	0.486293062	2.056373157	1.111971647	2.286628645
25° 56′ 10″	0.43736865	0.89928230	0.486353010	2.056119689	1.111997864	2.286400703
25° 56′ 20″	0.43741225	0.89926110	0.486412961	2.055866272	1.112024086	2.286172812
25° 56′ 30″	0.43745585	0.89923989	0.486472914	2.055612905	1.112050312	2.285944972
25° 56′ 40″	0.43749945	0.89921868	0.486532870	2.055359588	1.112076541	2.285717182
25° 56′ 50″	0.43754304	0.89919747	0.486592829	2.055106323	1.112102775	2.285489444
25° 57′ 00″	0.43758663	0.89917626	0.486652791	2.054853107	1.112129012	2.285261756
25° 57′ 10″	0.43763023	0.89915504	0.486712756	2.054599942	1.112155253	2.285034119
25° 57′ 20″	0.43767382	0.89913382	0.486772723	2.054346828	1.112181498	2.284806532
25° 57′ 30″	0.43771741	0.89911260	0.486832694	2.054093764	1.112207747	2.284578996
25° 57′ 40″	0.43776100	0.89909138	0.486892667	2.053840750	1.112233999	2.284351511
25° 57′ 50″	0.43780459	0.89907015	0.486952643	2.053587787	1.112260256	2.284124077
25° 58′ 00″	0.43784818	0.89904893	0.487012622	2.053334874	1.112286516	2.283896693
25° 58′ 10″	0.43789176	0.89902770	0.487072603	2.053082011	1.112312780	2.283669360
25° 58′ 20″	0.43793535	0.89900647	0.487132588	2.052829199	1.112339048	2.283442077
25° 58′ 30″	0.43797893	0.89898524	0.487192575	2.052576437	1.112365320	2.283214846
25° 58′ 40″	0.43802252	0.89896400	0.487252565	2.052323726	1.112391596	2.282987664
25° 58′ 50″	0.43806610	0.89894276	0.487312558	2.052071064	1.112417875	2.282760533
25° 59′ 00″ 25° 59′ 10″	0.43810968	0.89892153	0.487372554	2.051818453	1.112444159	2.282533453
25° 59′ 10″ 25° 59′ 20″	0.43815326	0.89890028	0.487432553	2.051565892	1.112470446	2.282306424 2.282079444
25° 59′ 30″	0.43819684	0.89887904	0.487492554	2.051313382	1.112496737 1.112523032	2.282079444 2.281852516
25° 59′ 40″	0.43824042 0.43828400	0.89885780 0.89883655	0.487552559 0.487612566	2.051060922 2.050808511	1.112523032	2.281852516
25° 59′ 50″	0.43832757	0.89881530	0.487672576	2.0505556151	1.112547551	2.281398810
	0,73032/3/	0.07001330	0.70/0/23/0	2.030330131	1.1143/3034	2.2013/0010

195 **25° 59′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
26° 00′ 00″	0.43837115	0.89879405	0.487732589	2.050303842	1.112601940	2.281172033
26° 00′ 10″	0.43841472	0.89877279	0.487792604	2.050051582	1.112628251	2.280945306
26° 00′ 20″	0.43845829	0.89875154	0.487852623	2.049799372	1.112654565	2.280718630
26° 00′ 30″	0.43850187	0.89873028	0.487912644	2.049547213	1.112680883	2.280492004
26° 00′ 40″	0.43854544	0.89870902	0.487972668	2.049295104	1.112707205	2.280265428
26° 00′ 50″	0.43858901	0.89868776	0.488032695	2.049043045	1.112733531	2.280038903
26° 01′ 00″	0.43863258	0.89866649	0.488092725	2.048791035	1.112759861	2.279812428
26° 01′ 10″	0.43867614	0.89864522	0.488152758	2.048539076	1.112786195	2.279586004
26° 01′ 20″	0.43871971	0.89862396	0.488212794	2.048287167	1.112812532	2.279359629
26° 01′ 30″	0.43876328	0.89860269	0.488272832	2.048035308	1.112838874	2.279133306
26° 01′ 40″	0.43880684	0.89858141	0.488332873	2.047783499	1.112865219	2.278907032
26° 01′ 50″	0.43885041	0.89856014	0.488392917	2.047531740	1.112891568	2.278680809
26° 02′ 00″	0.43889397	0.89853886	0.488452964	2.047280031	1.112917921	2.278454636
26° 02′ 10″	0.43893753	0.89851758	0.488513014	2.047028372	1.112944278	2.278228513
26° 02′ 20″	0.43898109	0.89849630	0.488573067	2.046776763	1.112970638	2.278002441
26° 02′ 30″	0.43902465	0.89847502	0.488633122	2.046525204	1.112997003	2.277776418
26° 02′ 40″	0.43906821	0.89845373	0.488693180	2.046273695	1.113023371	2.277550446
26° 02′ 50″	0.43911177	0.89843244	0.488753242	2.046022236	1.113049743	2.277324524
26° 03′ 00″	0.43915533	0.89841115	0.488813306	2.045770826	1.113076119	2.277098652
26° 03′ 10″	0.43919888	0.89838986	0.488873372	2.045519466	1.113102499	2.276872831
26° 03′ 20″	0.43924244	0.89836857	0.488933442	2.045268157	1.113128883	2.276647059
26° 03′ 30″	0.43928599	0.89834727	0.488993515	2.045016897	1.113155271	2.276421338
26° 03′ 40″	0.43932954	0.89832597	0.489053590	2.044765687	1.113181663	2.276195667
26° 03′ 50″	0.43937309	0.89830467	0.489113668	2.044514526	1.113208058	2.275970046
26° 04′ 00″	0.43941664	0.89828337	0.489173749	2.044263416	1.113234457	2.275744475
26° 04′ 10″	0.43946019	0.89826207	0.489233833	2.044012355	1.113260861	2.275518954
26° 04′ 20″	0.43950374	0.89824076	0.489293920	2.043761344	1.113287268	2.275293483
26° 04′ 30″	0.43954729	0.89821945	0.489354010	2.043510383	1.113313679	2.275068062
26° 04′ 40″	0.43959084	0.89819814	0.489414102	2.043259471	1.113340093	2.274842691
26° 04′ 50″	0.43963438	0.89817683	0.489474198	2.043008610	1.113366512	2.274617370
26° 05′ 00″	0.43967793	0.89815551	0.489534296	2.042757797	1.113392935	2.274392099
26° 05′ 10″	0.43972147	0.89813419	0.489594397	2.042507035	1.113419361	2.274166878
26° 05′ 20″ 26° 05′ 30″	0.43976501	0.89811287	0.489654501	2.042256322	1.113445791	2.273941707
26° 05′ 40″	0.43980855 0.43985209	0.89809155 0.89807023	0.489714608 0.489774717	2.042005659 2.041755045	1.113472225 1.113498664	2.273716585 2.273491514
26° 05′ 50″	0.43783207	0.89804890	0.489834830		1.113478664	
26° 06′ 00″	0.43767363	0.89802758	0.489894945	2.041504481 2.041253967	1.113525105	2.273266493 2.273041521
26° 06′ 10″	0.43773717	0.87802738	0.489955063	2.041233767	1.113578001	2.272816600
26° 06′ 20″	0.43778271	0.89798491	0.490015184	2.041003302	1.113604454	2.272591728
26° 06′ 30″	0.44006978	0.89796358	0.490075308	2.040502722	1.113630912	2.272366906
26° 06′ 40″	0.44011331	0.89794224	0.490135435	2.040302722	1.113657373	2.272142134
26° 06′ 50″	0.440115684	0.89792091	0.470133433	2.040202139	1.113637373	2.271917412
26° 07′ 00″	0.44020038	0.87772071	0.490255697	2.039751922	1.113710307	2.271692739
26° 07′ 10″	0.44024391	0.87787736	0.470233677	2.039501754	1.113710307	2.271468117
26° 07′ 20″	0.44028744	0.87787822	0.470375832	2.037301734	1.113736760	2.271243544
26° 07′ 30″	0.44033097	0.89783553	0.490436112	2.039001567	1.113789738	2.271019020
26° 07′ 40″	0.44037449	0.89781418	0.490496255	2.038751548	1.113816222	2.271017020
26° 07′ 50″	0.44041802	0.89779283	0.490556402	2.038501578	1.113842710	2.270570123
	3.11011002	5.07777203	2.170330102	030301370	1,113012/10	

196 26° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
26° 08′ 00″	0.44046155	0.89777148	0.490616552	2.038251658	1.113869203	2.270345749
26° 08′ 10″	0.44050507	0.89775012	0.490676704	2.038001787	1.113895699	2.270121425
26° 08′ 20″	0.44054859	0.89772876	0.490736860	2.037751965	1.113922199	2.269897150
26° 08′ 30″	0.44059212	0.89770741	0.490797018	2.037502193	1.113948703	2.269672925
26° 08′ 40″	0.44063564	0.89768604	0.490857179	2.037252470	1.113975211	2.269448749
26° 08′ 50″	0.44067916	0.89766468	0.490917343	2.037002796	1.114001722	2.269224623
26° 09′ 00″	0.44072268	0.89764331	0.490977510	2.036753172	1.114028238	2.269000547
26° 09′ 10″	0.44076620	0.89762195	0.491037679	2.036503597	1.114054757	2.268776520
26° 09′ 20″	0.44080972	0.89760058	0.491097852	2.036254071	1.114081281	2.268552543
26° 09′ 30″	0.44085323	0.89757920	0.491158027	2.036004594	1.114107808	2.268328615
26° 09′ 40″	0.44089675	0.89755783	0.491218206	2.035755167	1.114134339	2.268104737
26° 09′ 50″	0.44094026	0.89753645	0.491278387	2.035505789	1.114160874	2.267880909
26° 10′ 00″	0.44098377	0.89751508	0.491338571	2.035256460	1.114187413	2.267657130
26° 10′ 10″	0.44102729	0.89749369	0.491398758	2.035007180	1.114213956	2.267433400
26° 10′ 20″	0.44107080	0.89747231	0.491458947	2.034757950	1.114240502	2.267209720
26° 10′ 30″	0.44111431	0.89745093	0.491519140	2.034508769	1.114267053	2.266986089
26° 10′ 40″	0.44115782	0.89742954	0.491579335	2.034259637	1.114293607	2.266762508
26° 10′ 50″	0.44120133	0.89740815	0.491639534	2.034010554	1.114320165	2.266538976
26° 11′ 00″	0.44124483	0.89738676	0.491699735	2.033761520	1.114346728	2.266315494
26° 11′ 10″	0.44128834	0.89736537	0.491759939	2.033512535	1.114373294	2.266092061
26° 11′ 20″	0.44133184	0.89734397	0.491820146	2.033263599	1.114399864	2.265868678
26° 11′ 30″	0.44137535	0.89732257	0.491880356	2.033014713	1.114426437	2.265645343
26° 11′ 40″	0.44141885	0.89730118	0.491940568	2.032765875	1.114453015	2.265422058
26° 11′ 50″	0.44146235	0.89727977	0.492000784	2.032517087	1.114479597	2.265198823
26° 12′ 00″	0.44150585	0.89725837	0.492061002	2.032268347	1.114506182	2.264975637
26° 12′ 10″	0.44154935	0.89723696	0.492121224	2.032019657	1.114532772	2.264752500
26° 12′ 20″	0.44159285	0.89721556	0.492181448	2.031771015	1.114559365	2.264529412
26° 12′ 30″	0.44163635	0.89719415	0.492241675	2.031522423	1.114585962	2.264306374
26° 12′ 40″	0.44167985	0.89717273	0.492301905	2.031273879	1.114612563	2.264083384
26° 12′ 50″	0.44172334	0.89715132	0.492362138	2.031025384	1.114639168	2.263860445
26° 13′ 00″	0.44176684	0.89712990	0.492422373	2.030776939	1.114665777	2.263637554
26° 13′ 10″	0.44181033	0.89710848	0.492482612	2.030528542	1.114692389	2.263414712
26° 13′ 20″	0.44185382	0.89708706	0.492542853	2.030280194	1.114719006	2.263191920
26° 13′ 30″	0.44189731	0.89706564	0.492603098	2.030031895	1.114745627	2.262969177
26° 13′ 40″	0.44194080	0.89704422	0.492663345	2.029783645	1.114772251	2.262746483
26° 13′ 50″	0.44198429	0.89702279	0.492723595	2.029535444	1.114798879	2.262523838
26° 14′ 00″	0.44202778	0.89700136	0.492783848	2.029287292	1.114825511	2.262301243
26° 14′ 10″	0.44207127	0.89697993	0.492844104	2.029039188	1.114852147	2.262078696
26° 14′ 20″	0.44211476	0.89695850	0.492904362	2.028791133	1.114878787	2.261856198
26° 14′ 30″ 26° 14′ 40″	0.44215824	0.89693706	0.492964624	2.028543127 2.028295170	1.114905431	2.261633750 2.261411351
26° 14′ 40″ 26° 14′ 50″	0.44220172	0.89691562	0.493024888		1.114932079	
26° 15′ 00″	0.44224521	0.89689418 0.89687274	0.493085156 0.493145426	2.028047262 2.027799402	1.114958731	2.261189000 2.260966699
26° 15′ 10″ 26° 15′ 10″	0.44228869	0.89687274	0.493145426	2.027799402	1.114985386 1.115012046	2.260766699
26° 15′ 10″ 26° 15′ 20″	0.44233217 0.44237565	0.89682985	0.493205699	2.027303829	1.115012046	
26° 15′ 30″	0.44241913	0.89680840	0.493263973	2.027303829	1.115038709	2.260522244 2.260300089
26° 15′ 40″	0.44241913	0.89678695	0.493386536	2.027036113	1.115065376	2.260300089
26° 15′ 50″	0.44246261	0.89676550	0.473366336	2.026560834	1.115072047	2.259855928
	0.77230007	0.07070330	0.773770020	2.020300034	1,113110/22	2,23/033/20

197 **26° 15′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	csc(x)
26° 16′ 00″	0.44254956	0.89674405	0.493507108	2.026313267	1.115145401	2.259633920
26° 16′ 10″	0.44259304	0.87674403	0.473567398	2.026065748	1.115172084	2.259411962
26° 16′ 20″	0.44263651	0.89670113	0.493627692	2.025818277	1.115172004	2.259190052
26° 16′ 30″	0.44267998	0.89667967	0.493687988	2.025570856	1.115225461	2.258968192
26° 16′ 40″	0.44272345	0.89665821	0.493748287	2.025323483	1.115252156	2.258746380
26° 16′ 50″	0.44272543	0.87663674	0.473748287	2.025076158	1.115278854	2.258524617
26° 17′ 00″	0.44281039	0.87663674	0.473868894	2.024828882	1.115305556	2.258302903
26° 17′ 10″	0.44285386	0.89659381	0.493929201	2.024581655	1.115332263	2.258081238
26° 17′ 20″	0.44289733	0.89657234	0.493989512	2.024334476	1.115352203	2.257859622
26° 17′ 30″	0.44294080	0.89655086	0.494049826	2.024087346	1.115385687	2.257638054
26° 17′ 40″	0.44298426	0.89652939	0.494110142	2.023840264	1.115412405	2.257416535
26° 17′ 50″	0.44302773	0.89650791	0.494170461	2.023593230	1.115439126	2.257195065
26° 18′ 00″	0.44307119	0.89648643	0.494230783	2.023346245	1.115465852	2.256973644
26° 18′ 10″	0.44311465	0.89646495	0.494291109	2.023099309	1.115492582	2.256752271
26° 18′ 20″	0.44315811	0.89644346	0.494351436	2.022852421	1.115519315	2.256530947
26° 18′ 30″	0.44320157	0.89642198	0.494411767	2.022605581	1.115546053	2.256309672
26° 18′ 40″	0.44324503	0.89640049	0.494472101	2.022358790	1.115572794	2.256088446
26° 18′ 50″	0.44328849	0.89637900	0.494532438	2.022112047	1.115599539	2.255867268
26° 19′ 00″	0.44333195	0.89635751	0.494592777	2.021865353	1.115626288	2.255646139
26° 19′ 10″	0.44337541	0.89633601	0.494653120	2.021618707	1.115653041	2.255425059
26° 19′ 20″	0.44341886	0.89631452	0.494713465	2.021372109	1.115679798	2.255204027
26° 19′ 30″	0.44346231	0.89629302	0.494773813	2.021125559	1.115706559	2.254983044
26° 19′ 40″	0.44350577	0.89627152	0.494834164	2.020879058	1.115733324	2.254762109
26° 19′ 50″	0.44354922	0.89625002	0.494894518	2.020632606	1.115760093	2.254541223
26° 20′ 00″	0.44359267	0.89622851	0.494954875	2.020386201	1.115786865	2.254320386
26° 20′ 10″	0.44363612	0.89620700	0.495015235	2.020139845	1.115813642	2.254099597
26° 20′ 20″	0.44367957	0.89618549	0.495075598	2.019893537	1.115840422	2.253878857
26° 20′ 30″	0.44372302	0.89616398	0.495135963	2.019647277	1.115867206	2.253658165
26° 20′ 40″	0.44376646	0.89614247	0.495196332	2.019401065	1.115893995	2.253437521
26° 20′ 50″	0.44380991	0.89612095	0.495256703	2.019154902	1.115920787	2.253216927
26° 21′ 00″	0.44385335	0.89609944	0.495317077	2.018908787	1.115947583	2.252996380
26° 21′ 10″	0.44389680	0.89607792	0.495377455	2.018662720	1.115974383	2.252775883
26° 21′ 20″	0.44394024	0.89605640	0.495437835	2.018416701	1.116001186	2.252555433
26° 21′ 30″	0.44398368	0.89603487	0.495498218	2.018170730	1.116027994	2.252335032
26° 21′ 40″	0.44402712	0.89601335	0.495558604	2.017924808	1.116054806	2.252114680
26° 21′ 50″	0.44407056	0.89599182	0.495618992	2.017678933	1.116081621	2.251894376
26° 22′ 00″	0.44411400	0.89597029	0.495679384	2.017433107	1.116108441	2.251674120
26° 22′ 10″	0.44415744	0.89594875	0.495739779	2.017187329	1.116135264	2.251453912
26° 22′ 20″	0.44420087	0.89592722	0.495800176	2.016941599	1.116162092	2.251233753
26° 22′ 30″	0.44424431	0.89590568	0.495860577	2.016695917	1.116188923	2.251013643
26° 22′ 40″	0.44428774	0.89588415	0.495920980	2.016450282	1.116215758	2.250793580
26° 22′ 50″	0.44433118	0.89586260	0.495981386	2.016204696	1.116242597	2.250573566
26° 23′ 00″	0.44437461	0.89584106	0.496041795	2.015959158	1.116269440	2.250353601
26° 23′ 10″	0.44441804	0.89581952	0.496102207	2.015713668	1.116296287	2.250133683
26° 23′ 20″	0.44446147	0.89579797	0.496162622	2.015468226	1.116323138	2.249913814
26° 23′ 30″	0.44450490	0.89577642	0.496223040	2.015222832	1.116349992	2.249693993
26° 23′ 40″	0.44454833	0.89575487	0.496283461	2.014977486	1.116376851	2.249474220
26° 23′ 50″	0.44459175	0.89573332	0.496343884	2.014732187	1.116403714	2.249254496

198 26° 23′ 50″

		(**)	4(04)	+(a)	(04)	(-1)
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	csc(x)
26° 24′ 00″	0.44463518	0.89571176	0.496404311	2.014486937	1.116430580	2.249034820
26° 24′ 10″	0.44467860	0.89569020	0.496464740	2.014241735	1.116457450	2.248815192
26° 24′ 20″	0.44472203	0.89566864	0.496525173	2.013996580	1.116484325	2.248595612
26° 24′ 30″	0.44476545	0.89564708	0.496585608	2.013751473	1.116511203	2.248376080
26° 24′ 40″	0.44480887	0.89562552	0.496646046	2.013506415	1.116538085	2.248156596
26° 24′ 50″	0.44485229	0.89560395	0.496706487	2.013261404	1.116564971	2.247937161
26° 25′ 00″	0.44489571	0.89558238	0.496766931	2.013016440	1.116591861	2.247717773
26° 25′ 10″	0.44493913	0.89556081	0.496827378	2.012771525	1.116618755	2.247498434
26° 25′ 20″	0.44498255	0.89553924	0.496887828	2.012526657	1.116645653	2.247279143
26° 25′ 30″	0.44502596	0.89551767	0.496948281	2.012281838	1.116672554	2.247059900
26° 25′ 40″	0.44506938	0.89549609	0.497008737	2.012037066	1.116699460	2.246840705
26° 25′ 50″	0.44511279	0.89547451	0.497069195	2.011792341	1.116726370	2.246621558
26° 26′ 00″	0.44515621	0.89545293	0.497129657	2.011547665	1.116753283	2.246402459
26° 26′ 10″	0.44519962	0.89543135	0.497190121	2.011303036	1.116780201	2.246183408
26° 26′ 20″	0.44524303	0.89540976	0.497250588	2.011058455	1.116807122	2.245964405
26° 26′ 30″	0.44528644	0.89538818	0.497311059	2.010813921	1.116834047	2.245745450
26° 26′ 40″	0.44532985	0.89536659	0.497371532	2.010569436	1.116860976	2.245526543
26° 26′ 50″	0.44537326	0.89534500	0.497432008	2.010324997	1.116887910	2.245307684
26° 27′ 00″	0.44541667	0.89532340	0.497492487	2.010080607	1.116914847	2.245088873
26° 27′ 10″	0.44546007	0.89530181	0.497552969	2.009836264	1.116941788	2.244870109
26° 27′ 20″	0.44550348	0.89528021	0.497613454	2.009591969	1.116968732	2.244651394
26° 27′ 30″	0.44554688	0.89525861	0.497673941	2.009347721	1.116995681	2.244432727
26° 27′ 40″	0.44559028	0.89523701	0.497734432	2.009103521	1.117022634	2.244214107
26° 27′ 50″	0.44563369	0.89521540	0.497794926	2.008859369	1.117049591	2.243995535
26° 28′ 00″	0.44567709	0.89519380	0.497855422	2.008615264	1.117076551	2.243777012
26° 28′ 10″	0.44572049	0.89517219	0.497915922	2.008371206	1.117103516	2.243558536
26° 28′ 20″	0.44576388	0.89515058	0.497976424	2.008127197	1.117130484	2.243340107
26° 28′ 30″	0.44580728	0.89512897	0.498036929	2.007883234	1.117157457	2.243121727
26° 28′ 40″	0.44585068	0.89510735	0.498097437	2.007639319	1.117184433	2.242903394
26° 28′ 50″	0.44589407	0.89508574	0.498157948	2.007395452	1.117211413	2.242685109
26° 29′ 00″	0.44593747	0.89506412	0.498218462	2.007151632	1.117238397	2.242466872
26° 29′ 10″	0.44598086	0.89504250	0.498278979	2.006907859	1.117265385	2.242248683
26° 29′ 20″	0.44602425	0.89502087	0.498339499	2.006664134	1.117292377	2.242030541
26° 29′ 30″	0.44606765	0.89499925	0.498400022	2.006420457	1.117319373	2.241812447
26° 29′ 40″	0.44611104	0.89497762	0.498460548	2.006176827	1.117346373	2.241594401
26° 29′ 50″	0.44615442	0.89495599	0.498521076	2.005933244	1.117373377	2.241376403
26° 30′ 00″	0.44619781	0.89493436	0.498581608	2.005689708	1.117400385	2.241158452
26° 30′ 10″	0.44624120	0.89491273	0.498642143	2.005446220	1.117427396	2.240940548
26° 30′ 20″	0.44628459	0.89489109	0.498702680	2.005202779	1.117454412	2.240722693
26° 30′ 30″	0.44632797	0.89486946	0.498763220	2.004959386	1.117481432	2.240504885
26° 30′ 40″	0.44637136	0.89484782	0.498823764	2.004716040	1.117508455	2.240287125
26° 30′ 50″	0.44641474	0.89482617	0.498884310	2.004472741	1.117535482	2.240069412
26° 31′ 00″	0.44645812	0.89480453	0.498944859	2.004229489	1.117562514	2.239851746
26° 31′ 10″	0.44650150	0.89478288	0.499005411	2.003986285	1.117589549	2.239634129
26° 31′ 20″	0.44654488	0.89476124	0.499065966	2.003743128	1.117616588	2.239416559
26° 31′ 30″	0.44658826	0.89473959	0.499126524	2.003500018	1.117643631	2.239199036
26° 31′ 40″	0.44663164	0.89471793	0.499187085	2.003256956	1.117670679	2.238981561
26° 31′ 50″	0.44667501	0.89469628	0.499247649	2.003013940	1.117697730	2.238764133

199 26° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
26° 32′ 00″	0.44671839	0.89467462	0.499308215	2.002770972	1.117724785	2.238546753
26° 32′ 10″	0.44676176	0.89465296	0.499368785	2.002528051	1.117751843	2.238329421
26° 32′ 20″	0.44680514	0.89463130	0.499429358	2.002285177	1.117778906	2.238112136
26° 32′ 30″	0.44684851	0.89460964	0.499489933	2.002042351	1.117805973	2.237894898
26° 32′ 40″	0.44689188	0.89458798	0.499550512	2.001799571	1.117833044	2.237677708
26° 32′ 50″	0.44693525	0.89456631	0.499611093	2.001556839	1.117860118	2.237460565
26° 33′ 00″	0.44697862	0.89454464	0.499671677	2.001314153	1.117887197	2.237243469
26° 33′ 10″	0.44702199	0.89452297	0.499732265	2.001071515	1.117914280	2.237026421
26° 33′ 20″	0.44706536	0.89450130	0.499792855	2.000828924	1.117941366	2.236809420
26° 33′ 30″	0.44710872	0.89447962	0.499853448	2.000586380	1.117968456	2.236592467
26° 33′ 40″	0.44715209	0.89445794	0.499914044	2.000343883	1.117995551	2.236375561
26° 33′ 50″	0.44719545	0.89443626	0.499974643	2.000101433	1.118022649	2.236158702
26° 34′ 00″	0.44723881	0.89441458	0.500035245	1.999859030	1.118049751	2.235941891
26° 34′ 10″	0.44728218	0.89439290	0.500095850	1.999616674	1.118076857	2.235725127
26° 34′ 20″	0.44732554	0.89437121	0.500156458	1.999374365	1.118103968	2.235508410
26° 34′ 30″	0.44736890	0.89434952	0.500217068	1.999132103	1.118131082	2.235291740
26° 34′ 40″	0.44741226	0.89432783	0.500277682	1.998889888	1.118158200	2.235075118
26° 34′ 50″	0.44745561	0.89430614	0.500338299	1.998647720	1.118185322	2.234858543
26° 35′ 00″	0.44749897	0.89428445	0.500398918	1.998405598	1.118212447	2.234642015
26° 35′ 10″	0.44754233	0.89426275	0.500459541	1.998163524	1.118239577	2.234425534
26° 35′ 20″	0.44758568	0.89424105	0.500520166	1.997921497	1.118266711	2.234209101
26° 35′ 30″	0.44762903	0.89421935	0.500580795	1.997679516	1.118293849	2.233992715
26° 35′ 40″	0.44767239	0.89419765	0.500641426	1.997437582	1.118320990	2.233776375
26° 35′ 50″	0.44771574	0.89417594	0.500702061	1.997195696	1.118348136	2.233560083
26° 36′ 00″	0.44775909	0.89415424	0.500762698	1.996953856	1.118375286	2.233343839
26° 36′ 10″	0.44780244	0.89413253	0.500823338	1.996712062	1.118402439	2.233127641
26° 36′ 20″	0.44784579	0.89411082	0.500883981	1.996470316	1.118429597	2.232911490
26° 36′ 30″	0.44788913	0.89408910	0.500944627	1.996228617	1.118456758	2.232695387
26° 36′ 40″	0.44793248	0.89406739	0.501005276	1.995986964	1.118483923	2.232479330
26° 36′ 50″	0.44797582	0.89404567	0.501065928	1.995745358	1.118511093	2.232263321
26° 37′ 00″	0.44801917	0.89402395	0.501126583	1.995503798	1.118538266	2.232047358
26° 37′ 10″	0.44806251	0.89400223	0.501187241	1.995262286	1.118565443	2.231831443
26° 37′ 20″	0.44810585	0.89398051	0.501247902	1.995020820	1.118592624	2.231615575
26° 37′ 30″	0.44814919	0.89395878	0.501308565	1.994779401	1.118619809	2.231399753
26° 37′ 40″	0.44819253	0.89393705	0.501369232	1.994538029	1.118646998	2.231183979
26° 37′ 50″ 26° 38′ 00″	0.44823587	0.89391532	0.501429902	1.994296703	1.118674191	2.230968252
26° 38′ 00″ 26° 38′ 10″	0.44827921	0.89389359	0.501490574	1.994055424	1.118701388	2.230752571
26° 38′ 20″	0.44832255	0.89387186 0.89385012	0.501551250	1.993814191	1.118728589	2.230536938
26° 38′ 20″ 26° 38′ 30″	0.44836588		0.501611929	1.993573006	1.118755794	2.230321351 2.230105811
26° 38′ 40″	0.44840922	0.89382838	0.501672610	1.993331866	1.118783003	
26° 38′ 40″ 26° 38′ 50″	0.44845255	0.89380664 0.89378490	0.501733294 0.501793982	1.993090774	1.118810216 1.118837432	2.229890319 2.229674873
26° 39′ 00″	0.44853921	0.89376315	0.501793982	1.992849728 1.992608728	1.118864653	2.229459474
26° 39′ 10″	0.44858254	0.89374141	0.501854672	1.992367776	1.118891878	2.229439474
26° 39′ 20″	0.44862587	0.89371966	0.501915365	1.992126869	1.118919106	2.229028816
26° 39′ 30″	0.44866920	0.89369791	0.501976062	1.991886009	1.118946339	2.228813558
26° 39′ 40″	0.44871253	0.89367615	0.502036761	1.991645196	1.118973575	2.228598346
26° 39′ 50″	0.44875586	0.87367613	0.502077463	1.991404429	1.119000816	2.228383181
	0.770/3300	0.07303770	0.302130100	1.//170774/	1.11/000010	2,220303101

200 26° 39′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
26° 40′ 00″	0.44879918	0.89363264	0.502218876	1.991163709	1.119028060	2.228168063
26° 40′ 10″	0.44884250	0.89361088	0.502279587	1.990923035	1.119055309	2.227952992
26° 40′ 20″	0.44888583	0.89358912	0.502340301	1.990682408	1.119082561	2.227737967
26° 40′ 30″	0.44892915	0.89356736	0.502401018	1.990441827	1.119109817	2.227522989
26° 40′ 40″	0.44897247	0.89354559	0.502461738	1.990201293	1.119137077	2.227308058
26° 40′ 50″	0.44901579	0.89352382	0.502522461	1.989960805	1.119164342	2.227093174
26° 41′ 00″	0.44905911	0.89350205	0.502583186	1.989720363	1.119191610	2.226878336
26° 41′ 10″	0.44910243	0.89348028	0.502643915	1.989479968	1.119218882	2.226663545
26° 41′ 20″	0.44914574	0.89345851	0.502704647	1.989239619	1.119246158	2.226448800
26° 41′ 30″	0.44918906	0.89343673	0.502765382	1.988999316	1.119273438	2.226234103
26° 41′ 40″	0.44923237	0.89341495	0.502826119	1.988759060	1.119300722	2.226019451
26° 41′ 50″	0.44927569	0.89339317	0.502886860	1.988518850	1.119328010	2.225804847
26° 42′ 00″	0.44931900	0.89337139	0.502947603	1.988278686	1.119355302	2.225590289
26° 42′ 10″	0.44936231	0.89334960	0.503008350	1.988038569	1.119382598	2.225375778
26° 42′ 20″	0.44940562	0.89332782	0.503069099	1.987798498	1.119409898	2.225161313
26° 42′ 30″	0.44944893	0.89330603	0.503129852	1.987558473	1.119437201	2.224946895
26° 42′ 40″	0.44949224	0.89328424	0.503190607	1.987318495	1.119464509	2.224732523
26° 42′ 50″	0.44953554	0.89326244	0.503251366	1.987078563	1.119491821	2.224518198
26° 43′ 00″	0.44957885	0.89324065	0.503312127	1.986838677	1.119519137	2.224303920
26° 43′ 10″	0.44962216	0.89321885	0.503372891	1.986598837	1.119546456	2.224089688
26° 43′ 20″	0.44966546	0.89319705	0.503433658	1.986359043	1.119573780	2.223875502
26° 43′ 30″	0.44970876	0.89317525	0.503494429	1.986119296	1.119601107	2.223661363
26° 43′ 40″	0.44975206	0.89315345	0.503555202	1.985879594	1.119628439	2.223447270
26° 43′ 50″	0.44979537	0.89313164	0.503615978	1.985639939	1.119655774	2.223233224
26° 44′ 00″	0.44983866	0.89310983	0.503676757	1.985400330	1.119683114	2.223019224
26° 44′ 10″	0.44988196	0.89308802	0.503737539	1.985160767	1.119710457	2.222805271
26° 44′ 20″	0.44992526	0.89306621	0.503798324	1.984921251	1.119737805	2.222591364
26° 44′ 30″	0.44996856	0.89304440	0.503859112	1.984681780	1.119765156	2.222377503
26° 44′ 40″	0.45001185	0.89302258	0.503919903	1.984442355	1.119792512	2.222163689
26° 44′ 50″	0.45005515	0.89300076	0.503980697	1.984202977	1.119819871	2.221949921
26° 45′ 00″	0.45009844	0.89297894	0.504041494	1.983963644	1.119847234	2.221736200
26° 45′ 10″	0.45014173	0.89295712	0.504102294	1.983724358	1.119874601	2.221522525
26° 45′ 20″	0.45018502	0.89293530	0.504163097	1.983485118	1.119901973	2.221308896
26° 45′ 30″	0.45022831	0.89291347	0.504223903	1.983245923	1.119929348	2.221095313
26° 45′ 40″	0.45027160	0.89289164	0.504284712	1.983006775	1.119956727	2.220881777
26° 45′ 50″	0.45031489	0.89286981	0.504345524	1.982767672	1.119984110	2.220668287
26° 46′ 00″	0.45035818	0.89284798	0.504406338	1.982528616	1.120011497	2.220454844
26° 46′ 10″	0.45040146	0.89282614	0.504467156	1.982289605	1.120038888	2.220241446
26° 46′ 20″	0.45044475	0.89280431	0.504527977	1.982050641	1.120066284	2.220028095
26° 46′ 30″	0.45048803	0.89278247	0.504588801	1.981811722	1.120093683	2.219814790
26° 46′ 40″	0.45053132	0.89276062	0.504649627	1.981572849	1.120121086	2.219601531
26° 46′ 50″	0.45057460	0.89273878	0.504710457	1.981334022	1.120148493	2.219388319
26° 47′ 00″	0.45061788	0.89271694	0.504771290	1.981095241	1.120175904	2.219175152
26° 47′ 10″	0.45066116	0.89269509	0.504832125	1.980856506	1.120203318	2.218962032
26° 47′ 20″	0.45070444	0.89267324	0.504892964	1.980617817	1.120230737	2.218748958
26° 47′ 30″	0.45074771	0.89265139	0.504953805	1.980379174	1.120258160	2.218535930
26° 47′ 40″	0.45079099	0.89262953	0.505014650	1.980140576	1.120285587	2.218322948
26° 47′ 50″	0.45083427	0.89260768	0.505075498	1.979902024	1.120313018	2.218110012

201 26° 47′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
26° 48′ 00″	0.45087754	0.89258582	0.505136348	1.979663518	1.120340453	2.217897122
26° 48′ 10″	0.45092081	0.89256396	0.505197202	1.979425058	1.120367892	2.217684279
26° 48′ 20″	0.45096409	0.89254210	0.505258058	1.979186643	1.120395334	2.217471481
26° 48′ 30″	0.45100736	0.89252023	0.505318918	1.978948275	1.120422781	2.217258730
26° 48′ 40″	0.45105063	0.89249837	0.505379780	1.978709952	1.120450232	2.217046024
26° 48′ 50″	0.45109390	0.89247650	0.505440645	1.978471674	1.120477687	2.216833365
26° 49′ 00″	0.45113716	0.89245463	0.505501514	1.978233443	1.120505145	2.216620751
26° 49′ 10″	0.45118043	0.89243275	0.505562385	1.977995257	1.120532608	2.216408184
26° 49′ 20″	0.45122370	0.89241088	0.505623260	1.977757117	1.120560075	2.216195662
26° 49′ 30″	0.45126696	0.89238900	0.505684137	1.977519022	1.120587545	2.215983187
26° 49′ 40″	0.45131023	0.89236712	0.505745017	1.977280973	1.120615020	2.215770757
26° 49′ 50″	0.45135349	0.89234524	0.505805901	1.977042970	1.120642498	2.215558373
26° 50′ 00″	0.45139675	0.89232336	0.505866787	1.976805012	1.120669981	2.215346036
26° 50′ 10″	0.45144001	0.89230147	0.505927676	1.976567100	1.120697467	2.215133744
26° 50′ 20″	0.45148327	0.89227958	0.505988568	1.976329234	1.120724958	2.214921498
26° 50′ 30″	0.45152653	0.89225770	0.506049464	1.976091413	1.120752453	2.214709298
26° 50′ 40″	0.45156979	0.89223580	0.506110362	1.975853638	1.120779951	2.214497143
26° 50′ 50″	0.45161304	0.89221391	0.506171263	1.975615908	1.120807453	2.214285035
26° 51′ 00″	0.45165630	0.89219201	0.506232168	1.975378224	1.120834960	2.214072973
26° 51′ 10″	0.45169955	0.89217012	0.506293075	1.975140585	1.120862470	2.213860956
26° 51′ 20″	0.45174280	0.89214822	0.506353985	1.974902992	1.120889985	2.213648985
26° 51′ 30″	0.45178606	0.89212631	0.506414898	1.974665444	1.120917503	2.213437060
26° 51′ 40″	0.45182931	0.89210441	0.506475814	1.974427942	1.120945026	2.213225180
26° 51′ 50″	0.45187256	0.89208250	0.506536734	1.974190485	1.120972552	2.213013347
26° 52′ 00″	0.45191581	0.89206059	0.506597656	1.973953074	1.121000082	2.212801559
26° 52′ 10″	0.45195905	0.89203868	0.506658581	1.973715708	1.121027617	2.212589817
26° 52′ 20″	0.45200230	0.89201677	0.506719509	1.973478388	1.121055155	2.212378120
26° 52′ 30″	0.45204555	0.89199486	0.506780440	1.973241113	1.121082698	2.212166470
26° 52′ 40″	0.45208879	0.89197294	0.506841374	1.973003883	1.121110244	2.211954865
26° 52′ 50″	0.45213203	0.89195102	0.506902312	1.972766699	1.121137794	2.211743305
26° 53′ 00″	0.45217528	0.89192910	0.506963252	1.972529560	1.121165348	2.211531792
26° 53′ 10″	0.45221852	0.89190718	0.507024195	1.972292467	1.121192907	2.211320324
26° 53′ 20″	0.45226176	0.89188525	0.507085141	1.972055418	1.121220469	2.211108901
26° 53′ 30″	0.45230500	0.89186332	0.507146090	1.971818415	1.121248035	2.210897524
26° 53′ 40″	0.45234824	0.89184139	0.507207042	1.971581458	1.121275606	2.210686193
26° 53′ 50″	0.45239147	0.89181946		1.971344546	1.121303180	2.210474908
26° 54′ 00″	0.45243471	0.89179753	0.507328956	1.971107679	1.121330758	2.210263668
26° 54′ 10″	0.45247794	0.89177559	0.507389917	1.970870857	1.121358340	2.210052473
26° 54′ 20″	0.45252118	0.89175366	0.507450881	1.970634080	1.121385927	2.209841324
26° 54′ 30″	0.45256441	0.89173172	0.507511848	1.970397349	1.121413517	2.209630221
26° 54′ 40″	0.45260764	0.89170977	0.507572818	1.970160663	1.121441111	2.209419163
26° 54′ 50″	0.45265087	0.89168783	0.507633791	1.969924022	1.121468709	2.209208151
26° 55′ 00″	0.45269410	0.89166588	0.507694767	1.969687427	1.121496312	2.208997184
26° 55′ 10″	0.45273733	0.89164394	0.507755747	1.969450876	1.121523918	2.208786263
26° 55′ 20″	0.45278056	0.89162199	0.507816729	1.969214371	1.121551528	2.208575387
26° 55′ 30″	0.45282379	0.89160003	0.507877714	1.968977911	1.121579142	2.208364556
26° 55′ 40″	0.45286701	0.89157808	0.507938702	1.968741496	1.121606760	2.208153771
26° 55′ 50″	0.45291024	0.89155612	0.507999693	1.968505126	1.121634383	2.207943032

202 26° 55′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
26° 56′ 00″	0.45295346	0.89153416	0.508060687	1.968268802	1.121662009	2.207732338
26° 56′ 10″	0.45299668	0.89151220	0.508121684	1.968032522	1.121689639	2.207521689
26° 56′ 20″	0.45303990	0.89149024	0.508182685	1.967796287	1.121717273	2.207311086
26° 56′ 30″	0.45308312	0.89146827	0.508243688	1.967560098	1.121744911	2.207100528
26° 56′ 40″	0.45312634	0.89144631	0.508304694	1.967323953	1.121772554	2.206890015
26° 56′ 50″	0.45316956	0.89142434	0.508365703	1.967087854	1.121800200	2.206679548
26° 57′ 00″	0.45321278	0.89140237	0.508426715	1.966851800	1.121827850	2.206469126
26° 57′ 10″	0.45325599	0.89138039	0.508487730	1.966615790	1.121855504	2.206258749
26° 57′ 20″	0.45329921	0.89135842	0.508548749	1.966379826	1.121883162	2.206048418
26° 57′ 30″	0.45334242	0.89133644	0.508609770	1.966143907	1.121910824	2.205838131
26° 57′ 40″	0.45338563	0.89131446	0.508670794	1.965908032	1.121938491	2.205627891
26° 57′ 50″	0.45342885	0.89129248	0.508731821	1.965672203	1.121966161	2.205417695
26° 58′ 00″	0.45347206	0.89127049	0.508792852	1.965436419	1.121993835	2.205207545
26° 58′ 10″	0.45351527	0.89124851	0.508853885	1.965200679	1.122021513	2.204997440
26° 58′ 20″	0.45355847	0.89122652	0.508914921	1.964964984	1.122049195	2.204787380
26° 58′ 30″	0.45360168	0.89120453	0.508975960	1.964729335	1.122076882	2.204577365
26° 58′ 40″	0.45364489	0.89118254	0.509037003	1.964493730	1.122104572	2.204367396
26° 58′ 50″	0.45368809	0.89116054	0.509098048	1.964258170	1.122132266	2.204157471
26° 59′ 00″	0.45373130	0.89113855	0.509159096	1.964022655	1.122159964	2.203947592
26° 59′ 10″	0.45377450	0.89111655	0.509220148	1.963787185	1.122187666	2.203737758
26° 59′ 20″	0.45381770	0.89109455	0.509281202	1.963551759	1.122215373	2.203527969
26° 59′ 30″	0.45386090	0.89107255	0.509342259	1.963316379	1.122243083	2.203318225
26° 59′ 40″	0.45390410	0.89105054	0.509403320	1.963081043	1.122270797	2.203108527
26° 59′ 50″	0.45394730	0.89102853	0.509464383	1.962845752	1.122298515	2.202898873
27° 00′ 00″	0.45399050	0.89100652	0.509525449	1.962610506	1.122326238	2.202689265
27° 00′ 10″	0.45403370	0.89098451	0.509586519	1.962375304	1.122353964	2.202479701
27° 00′ 20″	0.45407689	0.89096250	0.509647591	1.962140147	1.122381694	2.202270183
27° 00′ 30″	0.45412009	0.89094048	0.509708667	1.961905035	1.122409428	2.202060709
27° 00′ 40″	0.45416328	0.89091847	0.509769745	1.961669968	1.122437167	2.201851281
27° 00′ 50″	0.45420647	0.89089645	0.509830827	1.961434946	1.122464909	2.201641898
27° 01′ 00″	0.45424966	0.89087443	0.509891911	1.961199968	1.122492655	2.201432559
27° 01′ 10″	0.45429285	0.89085240	0.509952999	1.960965035	1.122520406	2.201223266
27° 01′ 20″	0.45433604	0.89083038	0.510014089	1.960730146	1.122548160	2.201014018
27° 01′ 30″	0.45437923	0.89080835	0.510075183	1.960495302	1.122575918	2.200804814
27° 01′ 40″	0.45442242	0.89078632	0.510136280	1.960260503	1.122603681	2.200595656
27° 01′ 50″	0.45446560	0.89076429	0.510197379	1.960025748	1.122631447	2.200386542
27° 02′ 00″	0.45450879	0.89074225	0.510258482	1.959791038	1.122659217	2.200177473
27° 02′ 10″	0.45455197	0.89072022	0.510319588	1.959556373	1.122686992	2.199968450
27° 02′ 20″	0.45459516	0.89069818	0.510380696	1.959321752	1.122714770	2.199759471
27° 02′ 30″	0.45463834	0.89067614	0.510441808	1.959087176	1.122742553	2.199550537
27° 02′ 40″	0.45468152	0.89065409	0.510502923	1.958852644	1.122770339	2.199341647
27° 02′ 50″	0.45472470	0.89063205	0.510564040	1.958618157	1.122798129	2.199132803
27° 03′ 00″	0.45476788	0.89061000	0.510625161	1.958383715	1.122825924	2.198924004
27° 03′ 10″	0.45481105	0.89058795	0.510686285	1.958149316	1.122853722	2.198715249
27° 03′ 20″	0.45485423	0.89056590	0.510747412	1.957914963	1.122881525	2.198506539
27° 03′ 30″	0.45489741	0.89054385	0.510808542	1.957680654	1.122909331	2.198297874
27° 03′ 40″	0.45494058	0.89052180	0.510869675	1.957446389	1.122937142	2.198089253
27° 03′ 50″	0.45498375	0.89049974	0.510930811	1.957212169	1.122964956	2.197880678

203 27° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
27° 04′ 00″	0.45502693	0.89047768	0.510991950	1.956977993	1.122992775	2.197672147
27° 04′ 10″	0.45507010	0.89045562	0.511053092	1.956743862	1.123020597	2.197463661
27° 04′ 20″	0.45511327	0.89043355	0.511114237	1.956509775	1.123048424	2.197255220
27° 04′ 30″	0.45515644	0.89041149	0.511175385	1.956275733	1.123076255	2.197046823
27° 04′ 40″	0.45519960	0.89038942	0.511236536	1.956041734	1.123104089	2.196838471
27° 04′ 50″	0.45524277	0.89036735	0.511297690	1.955807781	1.123131928	2.196630164
27° 05′ 00″	0.45528594	0.89034528	0.511358847	1.955573871	1.123159771	2.196421901
27° 05′ 10″	0.45532910	0.89032321	0.511420007	1.955340006	1.123187617	2.196213683
27° 05′ 20″	0.45537226	0.89030113	0.511481170	1.955106186	1.123215468	2.196005509
27° 05′ 30″	0.45541543	0.89027905	0.511542337	1.954872409	1.123243323	2.195797381
27° 05′ 40″	0.45545859	0.89025697	0.511603506	1.954638677	1.123271182	2.195589297
27° 05′ 50″	0.45550175	0.89023489	0.511664678	1.954404990	1.123299044	2.195381257
27° 06′ 00″	0.45554491	0.89021280	0.511725853	1.954171346	1.123326911	2.195173262
27° 06′ 10″	0.45558807	0.89019072	0.511787032	1.953937747	1.123354782	2.194965312
27° 06′ 20″	0.45563122	0.89016863	0.511848213	1.953704192	1.123382657	2.194757406
27° 06′ 30″	0.45567438	0.89014654	0.511909398	1.953470681	1.123410536	2.194549544
27° 06′ 40″	0.45571753	0.89012445	0.511970585	1.953237215	1.123438418	2.194341728
27° 06′ 50″	0.45576069	0.89010235	0.512031776	1.953003793	1.123466305	2.194133955
27° 07′ 00″	0.45580384	0.89008025	0.512092969	1.952770415	1.123494196	2.193926228
27° 07′ 10″	0.45584699	0.89005816	0.512154166	1.952537081	1.123522091	2.193718544
27° 07′ 20″	0.45589014	0.89003605	0.512215366	1.952303791	1.123549990	2.193510905
27° 07′ 30″	0.45593329	0.89001395	0.512276568	1.952070545	1.123577893	2.193303311
27° 07′ 40″	0.45597644	0.88999185	0.512337774	1.951837344	1.123605800	2.193095761
27° 07′ 50″	0.45601959	0.88996974	0.512398983	1.951604187	1.123633711	2.192888256
27° 08′ 00″	0.45606273	0.88994763	0.512460195	1.951371074	1.123661627	2.192680795
27° 08′ 10″	0.45610588	0.88992552	0.512521409	1.951138005	1.123689546	2.192473378
27° 08′ 20″	0.45614902	0.88990340	0.512582627	1.950904980	1.123717469	2.192266006
27° 08′ 30″	0.45619217	0.88988129	0.512643848	1.950671999	1.123745396	2.192058678
27° 08′ 40″	0.45623531	0.88985917	0.512705072	1.950439062	1.123773327	2.191851394
27° 08′ 50″	0.45627845	0.88983705	0.512766299	1.950206169	1.123801262	2.191644155
27° 09′ 00″	0.45632159	0.88981493	0.512827529	1.949973320	1.123829202	2.191436960
27° 09′ 10″	0.45636473	0.88979280	0.512888762	1.949740516	1.123857145	2.191229810
27° 09′ 20″ 27° 09′ 30″	0.45640787	0.88977068	0.512949999	1.949507755	1.123885092 1.123913044	2.191022703
27° 09′ 40″	0.45645100	0.88974855 0.88972642	0.513011238 0.513072480	1.949275038 1.949042366	1.123913044	2.190815641 2.190608624
27° 09′ 50″	0.45653727	0.88970429	0.513072480	1.948809737	1.123940999	2.190401650
27° 10′ 00″	0.45658041	0.88968215	0.513194974	1.948577152	1.123766737	2.190401630
27° 10′ 00′ 27° 10′ 10″	0.45662354	0.88966001	0.513174774	1.948344611	1.123776722	2.189987836
27° 10′ 10″ 27° 10′ 20″	0.45666667	0.88963788	0.513236223	1.948112114	1.124024870	2.189780996
27° 10′ 20″ 27° 10′ 30″	0.45670980	0.88961574	0.513378737	1.947879661	1.124080837	2.189574199
27° 10′ 30″ 27° 10′ 40″	0.45675293	0.88959359	0.513439997	1.947647252	1.124108816	2.189367447
27° 10′ 40″ 27° 10′ 50″	0.45679606	0.88957145	0.513501261	1.947414887	1.124136800	2.189160739
27° 11′ 00″	0.45683919	0.88954930	0.513562528	1.947182565	1.124164788	2.188954075
27° 11′ 10″	0.45688231	0.88952715	0.513623797	1.946950288	1.124192779	2.188747455
27° 11′ 20″	0.45692544	0.88950500	0.513685070	1.946718054	1.124220775	2.188540880
27° 11′ 30″	0.45696856	0.88948285	0.513746346	1.946485864	1.124248775	2.188334348
27° 11′ 40″	0.45701168	0.88946069	0.513807625	1.946253718	1.124276779	2.188127861
27° 11′ 50″	0.45705481	0.88943853	0.513868907	1.946021616	1.124304787	2.187921418
	1 2 60 101	3.00. 10000			2.30 11 01	

204 27° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
27° 12′ 00″	0.45709793	0.88941637	0.513930192	1.945789558	1.124332798	2.187715019
27° 12′ 10″	0.45714105	0.88939421	0.513991480	1.945557543	1.124360814	2.187508664
27° 12′ 20″	0.45718417	0.88937205	0.514052771	1.945325572	1.124388834	2.187302353
27° 12′ 30″	0.45722728	0.88934988	0.514114065	1.945093645	1.124416858	2.187096086
27° 12′ 40″	0.45727040	0.88932771	0.514175362	1.944861762	1.124444886	2.186889863
27° 12′ 50″	0.45731351	0.88930554	0.514236662	1.944629922	1.124472919	2.186683684
27° 13′ 00″	0.45735663	0.88928337	0.514297965	1.944398126	1.124500955	2.186477549
27° 13′ 10″	0.45739974	0.88926120	0.514359272	1.944166374	1.124528995	2.186271458
27° 13′ 20″	0.45744285	0.88923902	0.514420581	1.943934665	1.124557039	2.186065411
27° 13′ 30″	0.45748596	0.88921684	0.514481894	1.943703000	1.124585087	2.185859408
27° 13′ 40″	0.45752907	0.88919466	0.514543209	1.943471379	1.124613140	2.185653449
27° 13′ 50″	0.45757218	0.88917248	0.514604528	1.943239801	1.124641196	2.185447534
27° 14′ 00″	0.45761529	0.88915029	0.514665849	1.943008267	1.124669256	2.185241663
27° 14′ 10″	0.45765840	0.88912811	0.514727174	1.942776777	1.124697321	2.185035836
27° 14′ 20″	0.45770150	0.88910592	0.514788502	1.942545330	1.124725389	2.184830053
27° 14′ 30″	0.45774461	0.88908373	0.514849832	1.942313927	1.124753462	2.184624314
27° 14′ 40″	0.45778771	0.88906153	0.514911166	1.942082568	1.124781538	2.184418618
27° 14′ 50″	0.45783081	0.88903934	0.514972503	1.941851252	1.124809619	2.184212967
27° 15′ 00″	0.45787392	0.88901714	0.515033843	1.941619979	1.124837704	2.184007359
27° 15′ 10″	0.45791702	0.88899494	0.515095186	1.941388750	1.124865792	2.183801795
27° 15′ 20″	0.45796011	0.88897274	0.515156532	1.941157565	1.124893885	2.183596275
27° 15′ 30″	0.45800321	0.88895054	0.515217882	1.940926423	1.124921982	2.183390798
27° 15′ 40″	0.45804631	0.88892833	0.515279234	1.940695324	1.124950083	2.183185366
27° 15′ 50″	0.45808941	0.88890612	0.515340589	1.940464269	1.124978188	2.182979977
27° 16′ 00″	0.45813250	0.88888391	0.515401948	1.940233258	1.125006297	2.182774632
27° 16′ 10″	0.45817559	0.88886170	0.515463309	1.940002290	1.125034410	2.182569331
27° 16′ 20″	0.45821869	0.88883949	0.515524674	1.939771365	1.125062527	2.182364074
27° 16′ 30″	0.45826178	0.88881727	0.515586041	1.939540484	1.125090648	2.182158860
27° 16′ 40″	0.45830487	0.88879505	0.515647412	1.939309647	1.125118773	2.181953690
27° 16′ 50″	0.45834796	0.88877283	0.515708786	1.939078852	1.125146902	2.181748564
27° 17′ 00″	0.45839105	0.88875061	0.515770162	1.938848101	1.125175035	2.181543481
27° 17′ 10″	0.45843413	0.88872839	0.515831542	1.938617394	1.125203173	2.181338442
27° 17′ 20″	0.45847722	0.88870616	0.515892925	1.938386730	1.125231314	2.181133447
27° 17′ 30″ 27° 17′ 40″	0.45852031	0.88868393	0.515954311	1.938156109	1.125259459	2.180928495
27° 17′ 40″ 27° 17′ 50″	0.45856339	0.88866170	0.516015700	1.937925531	1.125287609	2.180723588
27° 18′ 00″	0.45860647	0.88863947 0.88861723	0.516077092	1.937694997	1.125315762 1.125343920	2.180518723
27° 18′ 10″	0.45864955 0.45869264	0.88859500	0.516138488 0.516199886	1.937464506 1.937234059	1.125343920	2.180313902 2.180109125
27° 18′ 20″	0.45873572	0.88857276	0.516199888	1.937234039	1.125372082	2.179904392
27° 18′ 30″	0.45877879	0.88855052	0.516322692	1.936773293	1.125428417	2.179699702
27° 18′ 40″	0.45882187	0.88852827	0.516322672	1.736773273	1.125456591	2.179495055
27° 18′ 50″	0.45886495	0.88850603	0.516364077	1.736342776	1.125484769	2.179493033
27° 19′ 00″	0.45890802	0.88848378	0.516506923	1.936082470	1.125512951	2.177270433
27° 19′ 10″	0.45895110	0.88846153	0.516568340	1.935852282	1.125541137	2.178881377
27° 19′ 20″	0.45899417	0.88843928	0.516629760	1.935622137	1.125569327	2.178676905
27° 19′ 30″	0.45903724	0.88841702	0.516691183	1.935392035	1.125597521	2.178472476
27° 19′ 40″	0.45908031	0.88839477	0.516752609	1.935161977	1.125625719	2.178268091
27° 19′ 50″	0.45912338	0.88837251	0.516814038	1.934931961	1.125653921	2.178063749
	3.13712330	2.000 <i>31</i> 2 <i>3</i> 1	2.310011030	1.731731701	2003721	

205 27° 19′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
27° 20′ 00″	0.45916645	0.88835025	0.516875470	1.934701989	1.125682127	2.177859451
27° 20′ 10″	0.45920952	0.88832799	0.516936905	1.934472060	1.125710337	2.177655196
27° 20′ 20″	0.45925259	0.88830572	0.516998343	1.934242174	1.125738552	2.177450984
27° 20′ 30″	0.45929565	0.88828346	0.517059785	1.934012332	1.125766770	2.177246816
27° 20′ 40″	0.45933872	0.88826119	0.517121229	1.933782532	1.125794993	2.177042691
27° 20′ 50″	0.45938178	0.88823892	0.517182677	1.933552775	1.125823219	2.176838610
27° 21′ 00″	0.45942484	0.88821665	0.517244127	1.933323062	1.125851450	2.176634572
27° 21′ 10″	0.45946791	0.88819437	0.517305581	1.933093391	1.125879685	2.176430578
27° 21′ 20″	0.45951097	0.88817210	0.517367038	1.932863764	1.125907923	2.176226626
27° 21′ 30″	0.45955403	0.88814982	0.517428498	1.932634179	1.125936166	2.176022718
27° 21′ 40″	0.45959708	0.88812754	0.517489961	1.932404638	1.125964413	2.175818854
27° 21′ 50″	0.45964014	0.88810525	0.517551427	1.932175139	1.125992664	2.175615033
27° 22′ 00″	0.45968320	0.88808297	0.517612896	1.931945684	1.126020919	2.175411255
27° 22′ 10″	0.45972625	0.88806068	0.517674368	1.931716272	1.126049178	2.175207520
27° 22′ 20″	0.45976931	0.88803839	0.517735843	1.931486902	1.126077441	2.175003828
27° 22′ 30″	0.45981236	0.88801610	0.517797322	1.931257576	1.126105708	2.174800180
27° 22′ 40″	0.45985541	0.88799381	0.517858803	1.931028292	1.126133980	2.174596575
27° 22′ 50″	0.45989846	0.88797151	0.517920288	1.930799051	1.126162255	2.174393014
27° 23′ 00″	0.45994151	0.88794921	0.517981775	1.930569854	1.126190534	2.174189495
27° 23′ 10″	0.45998456	0.88792691	0.518043266	1.930340699	1.126218818	2.173986020
27° 23′ 20″	0.46002761	0.88790461	0.518104760	1.930111587	1.126247105	2.173782588
27° 23′ 30″	0.46007065	0.88788231	0.518166257	1.929882518	1.126275397	2.173579199
27° 23′ 40″	0.46011370	0.88786000	0.518227757	1.929653492	1.126303692	2.173375853
27° 23′ 50″	0.46015674	0.88783770	0.518289260	1.929424508	1.126331992	2.173172550
27° 24′ 00″	0.46019978	0.88781539	0.518350766	1.929195568	1.126360296	2.172969291
27° 24′ 10″	0.46024283	0.88779307	0.518412275	1.928966670	1.126388604	2.172766075
27° 24′ 20″	0.46028587	0.88777076	0.518473787	1.928737815	1.126416916	2.172562901
27° 24′ 30″	0.46032891	0.88774844	0.518535303	1.928509003	1.126445232	2.172359771
27° 24′ 40″	0.46037195	0.88772612	0.518596821	1.928280234	1.126473552	2.172156684
27° 24′ 50″	0.46041498	0.88770380	0.518658343	1.928051507	1.126501876	2.171953640
27° 25′ 00″	0.46045802	0.88768148	0.518719868	1.927822824	1.126530204	2.171750639
27° 25′ 10″	0.46050106	0.88765916	0.518781396	1.927594182	1.126558537	2.171547681
27° 25′ 20″	0.46054409	0.88763683	0.518842926	1.927365584	1.126586873	2.171344767
27° 25′ 30″	0.46058712	0.88761450	0.518904460	1.927137029	1.126615213	2.171141895
27° 25′ 40″	0.46063016	0.88759217	0.518965998	1.926908516	1.126643558	2.170939066
27° 25′ 50″	0.46067319	0.88756984	0.519027538	1.926680045	1.126671907	2.170736280
27° 26′ 00″	0.46071622	0.88754750	0.519089081	1.926451618	1.126700259	2.170533537
27° 26′ 10″	0.46075925	0.88752516	0.519150627	1.926223233	1.126728616	2.170330837
27° 26′ 20″	0.46080227	0.88750283	0.519212177	1.925994891	1.126756977	2.170128180
27° 26′ 30″	0.46084530	0.88748048	0.519273729	1.925766591	1.126785342	2.169925567
27° 26′ 40″	0.46088833	0.88745814	0.519335285	1.925538334	1.126813711	2.169722995
27° 26′ 50″	0.46093135	0.88743579	0.519396844	1.925310120	1.126842084	2.169520467
27° 27′ 00″	0.46097437	0.88741345	0.519458406	1.925081948	1.126870461	2.169317982
27° 27′ 10″	0.46101740	0.88739110	0.519519971	1.924853819	1.126898842	2.169115540
27° 27′ 20″	0.46106042	0.88736875	0.519581539	1.924625733	1.126927227	2.168913140
27° 27′ 30″	0.46110344	0.88734639	0.519643110	1.924397689	1.126955617	2.168710784
27° 27′ 40″	0.46114646	0.88732404	0.519704684	1.924169687	1.126984010	2.168508470
27° 27′ 50″	0.46118948	0.88730168	0.519766262	1.923941728	1.127012408	2.168306199

206 27° 27′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	asa(y)
						$\frac{\csc(x)}{2.169102071}$
27° 28′ 00″	0.46123249	0.88727932	0.519827842	1.923713812	1.127040809	2.168103971
27° 28′ 10″	0.46127551	0.88725696	0.519889426	1.923485938	1.127069215	2.167901786
27° 28′ 20″	0.46131852	0.88723459	0.519951013	1.923258107	1.127097625	2.167699643
27° 28′ 30″	0.46136154	0.88721222	0.520012602	1.923030318	1.127126039	2.167497544
27° 28′ 40″	0.46140455	0.88718986	0.520074195	1.922802571	1.127154456	2.167295487
27° 28′ 50″	0.46144756	0.88716749	0.520135791	1.922574867	1.127182878	2.167093473
27° 29′ 00″	0.46149057	0.88714511	0.520197390	1.922347206	1.127211305	2.166891501
27° 29′ 10″	0.46153358	0.88712274	0.520258993	1.922119587	1.127239735	2.166689573
27° 29′ 20″	0.46157659	0.88710036	0.520320598	1.921892010	1.127268169	2.166487687
27° 29′ 30″	0.46161960	0.88707798	0.520382207	1.921664476	1.127296607	2.166285844
27° 29′ 40″	0.46166260	0.88705560	0.520443818	1.921436984	1.127325050	2.166084043
27° 29′ 50″	0.46170561	0.88703322	0.520505433	1.921209534	1.127353496	2.165882285
27° 30′ 00″	0.46174861	0.88701083	0.520567051	1.920982127	1.127381947	2.165680570
27° 30′ 10″	0.46179162	0.88698845	0.520628671	1.920754762	1.127410402	2.165478898
27° 30′ 20″	0.46183462	0.88696606	0.520690295	1.920527440	1.127438860	2.165277268
27° 30′ 30″	0.46187762	0.88694367	0.520751923	1.920300160	1.127467323	2.165075681
27° 30′ 40″	0.46192062	0.88692127	0.520813553	1.920072922	1.127495790	2.164874136
27° 30′ 50″	0.46196362	0.88689888	0.520875186	1.919845726	1.127524261	2.164672634
27° 31′ 00″	0.46200661	0.88687648	0.520936823	1.919618573	1.127552736	2.164471175
27° 31′ 10″	0.46204961	0.88685408	0.520998462	1.919391462	1.127581216	2.164269758
27° 31′ 20″	0.46209261	0.88683168	0.521060105	1.919164393	1.127609699	2.164068384
27° 31′ 30″	0.46213560	0.88680927	0.521121751	1.918937367	1.127638186	2.163867052
27° 31′ 40″	0.46217859	0.88678687	0.521183400	1.918710383	1.127666678	2.163665763
27° 31′ 50″	0.46222159	0.88676446	0.521245052	1.918483441	1.127695173	2.163464516
27° 32′ 00″	0.46226458	0.88674205	0.521306707	1.918256541	1.127723673	2.163263312
27° 32′ 10″	0.46230757	0.88671964	0.521368365	1.918029684	1.127752177	2.163062150
27° 32′ 20″ 27° 32′ 30″	0.46235056	0.88669722	0.521430026	1.917802868	1.127780685	2.162861031
27° 32′ 40″	0.46239354	0.88667481	0.521491691	1.917576095	1.127809196	2.162659955
27° 32′ 50″	0.46243653	0.88665239 0.88662997	0.521553358 0.521615029	1.917349364 1.917122675	1.127837712 1.127866233	2.162458921 2.162257929
27° 33′ 00″	0.46247932	0.88660754	0.521676703	1.91/1226/3	1.127894757	2.162257929
27° 33′ 10″	0.46252230	0.88658512	0.521676703	1.916669424	1.127874737	2.162036780
27° 33′ 20″	0.46256346	0.88656269	0.521738380	1.916442861	1.127923263	2.161655208
27° 33′ 30″	0.46265145	0.88654026	0.521861743	1.916216341	1.127731818	2.161454386
27° 33′ 40″	0.46269443	0.88651783	0.521923430	1.915989862	1.128008895	2.161253607
27° 33′ 50″	0.46273741	0.88649540	0.521725430	1.915763426	1.128037439	2.161253667
27° 34′ 00″	0.46278038	0.88647296	0.522046812	1.915537032	1.128065988	2.160852175
27° 34′ 10″	0.46282336	0.88645053	0.522108507	1.915310680	1.128093788	2.160651522
27° 34′ 20″	0.46282536	0.88642809	0.522170206	1.915084370	1.128123098	2.160651322
27° 34′ 30″	0.46290931	0.88640565	0.522231908	1.914858101	1.128123078	2.160450712
27° 34′ 40″	0.46270731	0.88638320	0.522293613	1.914631875	1.128180224	2.160230344
27° 34′ 40″ 27° 34′ 50″	0.46293229	0.88636076	0.522275615	1.914405691	1.128180224	2.159849335
27° 35′ 00″	0.46277326	0.88633831	0.522333321	1.914179549	1.128237367	2.159648894
27° 35′ 00″ 27° 35′ 10″	0.46303823	0.88631586	0.522477033	1.914179349	1.128257367	2.159448496
27° 35′ 10″ 27° 35′ 20″	0.46308120	0.88629341	0.522540465	1.913733449	1.128294526	2.159448496
27° 35′ 30″	0.46312417	0.88627095	0.522602185	1.913727391	1.128294526	2.159248139
27° 35′ 40″	0.46316714	0.88624850	0.522663909	1.913275400	1.128323112	2.159047825
27° 35′ 50″	0.46321010	0.88622604	0.522725636	1.913049468	1.128380295	2.158647323
=======================================	0.46323307	0.00022004	0.344743636	1.713047400	1.120300273	4,13004/343

207 27° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
27° 36′ 00″	0.46329604	0.88620358	0.522787366	1.912823577	1.128408893	2.158447136
27° 36′ 10″	0.46333900	0.88618112	0.522849099	1.912597729	1.128437495	2.158246990
27° 36′ 20″	0.46338196	0.88615865	0.522910836	1.912371727	1.128466101	2.158046887
27° 36′ 30″	0.46342492	0.88613619	0.522972575	1.912146157	1.128494712	2.157846826
27° 36′ 40″	0.46346788	0.88611372	0.523034318	1.911920434	1.128523326	2.157646808
27° 36′ 50″	0.46351084	0.88609125	0.523096064	1.911694753	1.128551945	2.157446831
27° 37′ 00″	0.46355380	0.88606877	0.523157812	1.911469114	1.128580567	2.157246896
27° 37′ 10″	0.46359676	0.88604630	0.523219564	1.911243516	1.128609194	2.157047004
27° 37′ 20″	0.46363972	0.88602382	0.523281320	1.911017960	1.128637825	2.156847154
27° 37′ 30″	0.46368267	0.88600134	0.523343078	1.910792446	1.128666460	2.156647346
27° 37′ 40″	0.46372562	0.88597886	0.523404839	1.910566974	1.128695099	2.156447579
27° 37′ 50″	0.46376858	0.88595638	0.523466604	1.910341544	1.128723742	2.156247855
27° 38′ 00″	0.46381153	0.88593389	0.523528371	1.910116155	1.128752389	2.156048173
27° 38′ 10″	0.46385448	0.88591141	0.523590142	1.909890808	1.128781040	2.155848534
27° 38′ 20″	0.46389743	0.88588892	0.523651916	1.909665503	1.128809696	2.155648936
27° 38′ 30″	0.46394038	0.88586643	0.523713693	1.909440240	1.128838355	2.155449380
27° 38′ 40″	0.46398333	0.88584393	0.523775473	1.909215018	1.128867019	2.155249866
27° 38′ 50″	0.46402627	0.88582144	0.523837257	1.908989838	1.128895687	2.155050394
27° 39′ 00″	0.46406922	0.88579894	0.523899043	1.908764700	1.128924359	2.154850964
27° 39′ 10″	0.46411216	0.88577644	0.523960833	1.908539603	1.128953035	2.154651576
27° 39′ 20″	0.46415510	0.88575394	0.524022626	1.908314548	1.128981715	2.154452230
27° 39′ 30″	0.46419805	0.88573143	0.524084422	1.908089534	1.129010399	2.154252926
27° 39′ 40″	0.46424099	0.88570893	0.524146221	1.907864563	1.129039087	2.154053664
27° 39′ 50″	0.46428393	0.88568642	0.524208023	1.907639632	1.129067780	2.153854444
27° 40′ 00″	0.46432687	0.88566391	0.524269828	1.907414744	1.129096476	2.153655266
27° 40′ 10″	0.46436980	0.88564140	0.524331637	1.907189897	1.129125177	2.153456130
27° 40′ 20″	0.46441274	0.88561888	0.524393448	1.906965091	1.129153882	2.153257035
27° 40′ 30″	0.46445568	0.88559637	0.524455263	1.906740327	1.129182591	2.153057983
27° 40′ 40″	0.46449861	0.88557385	0.524517081	1.906515605	1.129211304	2.152858972
27° 40′ 50″	0.46454154	0.88555133	0.524578902	1.906290924	1.129240021	2.152660003
27° 41′ 00″	0.46458448	0.88552881	0.524640726	1.906066285	1.129268742	2.152461076
27° 41′ 10″	0.46462741	0.88550628	0.524702554	1.905841687	1.129297467	2.152262191
27° 41′ 20″	0.46467034	0.88548375	0.524764384	1.905617131	1.129326197	2.152063347
27° 41′ 30″	0.46471327	0.88546122	0.524826218	1.905392617	1.129354930	2.151864546
27° 41′ 40″	0.46475619	0.88543869	0.524888054	1.905168143	1.129383668	2.151665786
27° 41′ 50″	0.46479912	0.88541616	0.524949894	1.904943711	1.129412410	2.151467068
27° 42′ 00″	0.46484205	0.88539363	0.525011737	1.904719321	1.129441156	2.151268391
27° 42′ 10″	0.46488497	0.88537109	0.525073584	1.904494972	1.129469906	2.151069757
27° 42′ 20″	0.46492789	0.88534855	0.525135433	1.904270665	1.129498660	2.150871164
27° 42′ 30″	0.46497082	0.88532601	0.525197285	1.904046399	1.129527418	2.150672613
27° 42′ 40″	0.46501374	0.88530346	0.525259141	1.903822174	1.129556181	2.150474104
27° 42′ 50″	0.46505666	0.88528092	0.525321000	1.903597991	1.129584947	2.150275636
27° 43′ 00″	0.46509958	0.88525837	0.525382862	1.903373849	1.129613718	2.150077210
27° 43′ 10″	0.46514249	0.88523582	0.525444727	1.903149748	1.129642493	2.149878825
27° 43′ 20″	0.46518541	0.88521327	0.525506595	1.902925689	1.129671272	2.149680483
27° 43′ 30″	0.46522833	0.88519072	0.525568467	1.902701671	1.129700055	2.149482182
27° 43′ 40″	0.46527124	0.88516816	0.525630341	1.902477695	1.129728842	2.149283922
27° 43′ 50″	0.46531416	0.88514560	0.525692219	1.902253759	1.129757633	2.149085705

208 27° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
27° 44′ 00″	0.46535707	0.88512304	0.525754100	1.902029866	1.129786428	2.148887528
27° 44′ 10″	0.46539998	0.88510048	0.525815984	1.901806013	1.129815228	2.148689394
27° 44′ 20″	0.46544289	0.88507792	0.525877871	1.901582202	1.129844031	2.148491301
27° 44′ 30″	0.46548580	0.88505535	0.525939762	1.901358432	1.129872839	2.148293249
27° 44′ 40″	0.46552871	0.88503278	0.526001655	1.901134703	1.129901651	2.148095239
27° 44′ 50″	0.46557161	0.88501021	0.526063552	1.900911015	1.129930467	2.147897271
27° 45′ 00″	0.46561452	0.88498764	0.526125451	1.900687369	1.129959287	2.147699344
27° 45′ 10″	0.46565743	0.88496506	0.526187354	1.900463764	1.129988111	2.147501459
27° 45′ 20″	0.46570033	0.88494249	0.526249261	1.900240200	1.130016940	2.147303615
27° 45′ 30″	0.46574323	0.88491991	0.526311170	1.900016677	1.130045772	2.147105813
27° 45′ 40″	0.46578613	0.88489733	0.526373082	1.899793195	1.130074609	2.146908052
27° 45′ 50″	0.46582903	0.88487474	0.526434998	1.899569755	1.130103450	2.146710333
27° 46′ 00″	0.46587193	0.88485216	0.526496917	1.899346356	1.130132295	2.146512655
27° 46′ 10″	0.46591483	0.88482957	0.526558839	1.899122997	1.130161144	2.146315019
27° 46′ 20″	0.46595773	0.88480698	0.526620764	1.898899680	1.130189997	2.146117424
27° 46′ 30″	0.46600062	0.88478439	0.526682692	1.898676404	1.130218854	2.145919870
27° 46′ 40″	0.46604352	0.88476180	0.526744623	1.898453170	1.130247715	2.145722358
27° 46′ 50″	0.46608641	0.88473920	0.526806558	1.898229976	1.130276581	2.145524887
27° 47′ 00″	0.46612931	0.88471660	0.526868496	1.898006823	1.130305451	2.145327458
27° 47′ 10″	0.46617220	0.88469400	0.526930437	1.897783712	1.130334324	2.145130070
27° 47′ 20″	0.46621509	0.88467140	0.526992381	1.897560641	1.130363202	2.144932723
27° 47′ 30″	0.46625798	0.88464880	0.527054328	1.897337612	1.130392084	2.144735418
27° 47′ 40″	0.46630087	0.88462619	0.527116278	1.897114623	1.130420971	2.144538154
27° 47′ 50″	0.46634375	0.88460359	0.527178232	1.896891676	1.130449861	2.144340931
27° 48′ 00″	0.46638664	0.88458098	0.527240189	1.896668769	1.130478755	2.144143750
27° 48′ 10″	0.46642953	0.88455836	0.527302149	1.896445904	1.130507654	2.143946610
27° 48′ 20″	0.46647241	0.88453575	0.527364112	1.896223080	1.130536557	2.143749511
27° 48′ 30″	0.46651529	0.88451313	0.527426078	1.896000296	1.130565464	2.143552454
27° 48′ 40″	0.46655817	0.88449051	0.527488047	1.895777553	1.130594375	2.143355438
27° 48′ 50″	0.46660106	0.88446789	0.527550020	1.895554852	1.130623290	2.143158463
27° 49′ 00″	0.46664393	0.88444527	0.527611996	1.895332191	1.130652209	2.142961529
27° 49′ 10″	0.46668681	0.88442265	0.527673975	1.895109571	1.130681133	2.142764637
27° 49′ 20″	0.46672969	0.88440002	0.527735957	1.894886993	1.130710060	2.142567785
27° 49′ 30″	0.46677257	0.88437739	0.527797942	1.894664455	1.130738992	2.142370975
27° 49′ 40″	0.46681544	0.88435476	0.527859930	1.894441958	1.130767928	2.142174206
27° 49′ 50″ 27° 50′ 00″	0.46685832	0.88433213 0.88430949	0.527921922	1.894219501	1.130796868	2.141977479
27° 50′ 10″	0.46690119		0.527983917	1.893997086	1.130825812	2.141780792 2.141584147
27° 50′ 10″ 27° 50′ 20″	0.46694406	0.88428686	0.528045915	1.893774711	1.130854760	
27° 50′ 30″	0.46698693 0.46702980	0.88426422	0.528107916 0.528169920	1.893552378	1.130883712 1.130912669	2.141387543 2.141190979
27° 50′ 40″	0.46702780	0.88424158 0.88421893	0.528167720	1.893330085 1.893107833	1.130912669	
27° 50′ 50″	0.46707267	0.88419629	0.528293938	1.892885622	1.130941630	2.140994457 2.140797976
27° 51′ 00″	0.46711334	0.88417364	0.528355952	1.892663451	1.130970594	2.140/9/9/6
27° 51′ 10″	0.46713641	0.88415099	0.528417969	1.892441321	1.131028536	2.140601337
27° 51′ 20″	0.46724413	0.88412834	0.528479989	1.892219232	1.131028338	2.140403138
27° 51′ 30″	0.46724413	0.88410568	0.528542013	1.891997184	1.131037314	2.140208780
27° 51′ 40″	0.46732986	0.88408303	0.528604039	1.891775177	1.131086473	2.140012464
27° 51′ 50″	0.46737272	0.88406037	0.528666069	1.891553210	1.131113481	2.137610166
	0.10/3/2/2	2.00100037	3.32000007	1.071333210	1.131177710	2. 13/01//34

209 **27° 51′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
27° 52′ 00″	0.46741558	0.88403771	0.528728102	1.891331284	1.131173464	2.139423760
27° 52′ 10″	0.46745844	0.88401505	0.528790138	1.891109398	1.131202462	2.139227607
27° 52′ 20″	0.46750130	0.88399238	0.528852177	1.890887554	1.131231464	2.139031496
27° 52′ 30″	0.46754415	0.88396972	0.528914220	1.890665750	1.131260470	2.138835425
27° 52′ 40″	0.46758701	0.88394705	0.528976265	1.890443986	1.131289481	2.138639396
27° 52′ 50″	0.46762986	0.88392438	0.529038314	1.890222264	1.131318495	2.138443407
27° 53′ 00″	0.46767272	0.88390171	0.529100366	1.890000581	1.131347514	2.138247460
27° 53′ 10″	0.46771557	0.88387903	0.529162421	1.889778940	1.131376537	2.138051553
27° 53′ 20″	0.46775842	0.88385636	0.529224480	1.889557339	1.131405564	2.137855687
27° 53′ 30″	0.46780127	0.88383368	0.529286541	1.889335779	1.131434595	2.137659862
27° 53′ 40″	0.46784412	0.88381100	0.529348606	1.889114259	1.131463630	2.137464078
27° 53′ 50″	0.46788697	0.88378831	0.529410674	1.888892780	1.131492670	2.137268335
27° 54′ 00″	0.46792981	0.88376563	0.529472745	1.888671342	1.131521713	2.137072633
27° 54′ 10″	0.46797266	0.88374294	0.529534819	1.888449944	1.131550761	2.136876971
27° 54′ 20″	0.46801550	0.88372025	0.529596897	1.888228586	1.131579813	2.136681351
27° 54′ 30″	0.46805835	0.88369756	0.529658978	1.888007269	1.131608869	2.136485771
27° 54′ 40″	0.46810119	0.88367487	0.529721061	1.887785993	1.131637929	2.136290232
27° 54′ 50″	0.46814403	0.88365217	0.529783149	1.887564757	1.131666994	2.136094734
27° 55′ 00″	0.46818687	0.88362948	0.529845239	1.887343562	1.131696062	2.135899276
27° 55′ 10″	0.46822971	0.88360678	0.529907332	1.887122407	1.131725135	2.135703860
27° 55′ 20″	0.46827255	0.88358408	0.529969429	1.886901292	1.131754212	2.135508484
27° 55′ 30″	0.46831539	0.88356137	0.530031529	1.886680218	1.131783293	2.135313149
27° 55′ 40″	0.46835822	0.88353867	0.530093632	1.886459184	1.131812378	2.135117855
27° 55′ 50″	0.46840106	0.88351596	0.530155738	1.886238191	1.131841467	2.134922601
27° 56′ 00″	0.46844389	0.88349325	0.530217847	1.886017239	1.131870560	2.134727389
27° 56′ 10″	0.46848672	0.88347054	0.530279960	1.885796326	1.131899658	2.134532217
27° 56′ 20″	0.46852955	0.88344782	0.530342076	1.885575454	1.131928760	2.134337085
27° 56′ 30″	0.46857238	0.88342511	0.530404195	1.885354623	1.131957866	2.134141995
27° 56′ 40″	0.46861521	0.88340239	0.530466317	1.885133831	1.131986976	2.133946945
27° 56′ 50″	0.46865804	0.88337967	0.530528442	1.884913081	1.132016090	2.133751935
27° 57′ 00″	0.46870087	0.88335695	0.530590571	1.884692370	1.132045208	2.133556967
27° 57′ 10″	0.46874369	0.88333422	0.530652702	1.884471700	1.132074331	2.133362039
27° 57′ 20″ 27° 57′ 30″	0.46878652	0.88331150	0.530714837	1.884251070	1.132103458 1.132132588	2.133167151
27° 57′ 40″	0.46882934 0.46887216	0.88328877 0.88326604	0.530776975 0.530839117	1.884030480 1.883809931	1.132132388	2.132972304 2.132777498
27° 57′ 40″ 27° 57′ 50″	0.46891498	0.88324331	0.530839117	1.883589422	1.132161723	2.132777498
27° 58′ 00″	0.46895781	0.88322057	0.530963409	1.883368953	1.132170865	2.132388008
27° 58′ 10″	0.46900062	0.88319783	0.531025560	1.883148525	1.132249153	2.132193323
27° 58′ 20″	0.46904344	0.88317783	0.531025360	1.882928137	1.132278305	2.131998679
27° 58′ 30″	0.46704344	0.88317310	0.531149871	1.882707789	1.132307461	2.131778077
27° 58′ 40″	0.46703020	0.88312961	0.531147871	1.882487481	1.132336621	2.131604076
27° 58′ 50″	0.46917189	0.88310687	0.531272032	1.882267213	1.132365785	2.131414991
27° 59′ 00″	0.46921470	0.88308412	0.531336363	1.882046986	1.132394953	2.131414771
27° 59′ 10″	0.46925752	0.88306137	0.531398533	1.881826799	1.132374733	2.131226367
27° 59′ 20″	0.46930033	0.88303862	0.531460706	1.881606652	1.132453302	2.130831667
27° 59′ 30″	0.46934314	0.88301587	0.531522883	1.881386545	1.132482483	2.130637306
27° 59′ 40″	0.46938595	0.88299311	0.531585063	1.881166478	1.132511668	2.130442987
27° 59′ 50″	0.46942876	0.88297035	0.531647245	1.880946452	1.132540857	2.130248707
	3.10712070	3.002//000	2.00.1017210			

210 **27° 59′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
28° 00′ 00″	0.46947156	0.88294759	0.531709432	1.880726465	1.132570051	2.130054468
28° 00′ 10″	0.46951437	0.88292483	0.531771621	1.880506519	1.132599248	2.129860270
28° 00′ 20″	0.46955717	0.88290207	0.531833814	1.880286613	1.132628450	2.129666111
28° 00′ 30″	0.46959998	0.88287930	0.531896009	1.880066747	1.132657656	2.129471994
28° 00′ 40″	0.46964278	0.88285653	0.531958208	1.879846921	1.132686866	2.129277916
28° 00′ 50″	0.46968558	0.88283376	0.532020411	1.879627135	1.132716080	2.129083879
28° 01′ 00″	0.46972838	0.88281099	0.532082616	1.879407389	1.132745298	2.128889883
28° 01′ 10″	0.46977118	0.88278822	0.532144825	1.879187683	1.132774521	2.128695926
28° 01′ 20″	0.46981398	0.88276544	0.532207036	1.878968017	1.132803747	2.128502011
28° 01′ 30″	0.46985678	0.88274266	0.532269252	1.878748391	1.132832978	2.128308135
28° 01′ 40″	0.46989957	0.88271988	0.532331470	1.878528805	1.132862213	2.128114300
28° 01′ 50″	0.46994237	0.88269710	0.532393691	1.878309259	1.132891452	2.127920505
28° 02′ 00″	0.46998516	0.88267432	0.532455916	1.878089754	1.132920696	2.127726750
28° 02′ 10″	0.47002795	0.88265153	0.532518144	1.877870288	1.132949943	2.127533036
28° 02′ 20″	0.47007075	0.88262874	0.532580375	1.877650862	1.132979195	2.127339361
28° 02′ 30″	0.47011354	0.88260595	0.532642609	1.877431476	1.133008451	2.127145728
28° 02′ 40″	0.47015633	0.88258316	0.532704847	1.877212130	1.133037711	2.126952134
28° 02′ 50″	0.47019911	0.88256036	0.532767088	1.876992824	1.133066975	2.126758581
28° 03′ 00″	0.47024190	0.88253757	0.532829332	1.876773557	1.133096243	2.126565067
28° 03′ 10″	0.47028469	0.88251477	0.532891579	1.876554331	1.133125516	2.126371594
28° 03′ 20″	0.47032747	0.88249197	0.532953829	1.876335145	1.133154793	2.126178162
28° 03′ 30″	0.47037026	0.88246916	0.533016083	1.876115998	1.133184073	2.125984769
28° 03′ 40″	0.47041304	0.88244636	0.533078340	1.875896891	1.133213359	2.125791417
28° 03′ 50″	0.47045582	0.88242355	0.533140600	1.875677825	1.133242648	2.125598104
28° 04′ 00″	0.47049860	0.88240074	0.533202863	1.875458797	1.133271941	2.125404832
28° 04′ 10″	0.47054138	0.88237793	0.533265129	1.875239810	1.133301239	2.125211600
28° 04′ 20″	0.47058416	0.88235512	0.533327399	1.875020863	1.133330541	2.125018408
28° 04′ 30″	0.47062694	0.88233230	0.533389672	1.874801955	1.133359847	2.124825257
28° 04′ 40″	0.47066971	0.88230948	0.533451948	1.874583088	1.133389157	2.124632145
28° 04′ 50″	0.47071249	0.88228666	0.533514227	1.874364260	1.133418471	2.124439074
28° 05′ 00″	0.47075526	0.88226384	0.533576510	1.874145471	1.133447790	2.124246042
28° 05′ 10″	0.47079803	0.88224102	0.533638796	1.873926723	1.133477112	2.124053051
28° 05′ 20″	0.47084081	0.88221819	0.533701085	1.873708014	1.133506439	2.123860099
28° 05′ 30″	0.47088358	0.88219536	0.533763377	1.873489345	1.133535770	2.123667188
28° 05′ 40″	0.47092635	0.88217253	0.533825673	1.873270716	1.133565106	2.123474317
28° 05′ 50″	0.47096911	0.88214970	0.533887971	1.873052126	1.133594445	2.123281486
28° 06′ 00″	0.47101188	0.88212687	0.533950273	1.872833576	1.133623789	2.123088695
28° 06′ 10″	0.47105465	0.88210403	0.534012578	1.872615066	1.133653137	2.122895943
28° 06′ 20″	0.47109741	0.88208119	0.534074887	1.872396596	1.133682489	2.122703232
28° 06′ 30″	0.47114018	0.88205835	0.534137198	1.872178165	1.133711845	2.122510561
28° 06′ 40″	0.47118294	0.88203551	0.534199513	1.871959774	1.133741205	2.122317929
28° 06′ 50″	0.47122570	0.88201266	0.534261831	1.871741422	1.133770570	2.122125338
28° 07′ 00″ 28° 07′ 10″	0.47126846	0.88198982	0.534324153	1.871523110	1.133799938	2.121932787
	0.47131122	0.88196697	0.534386477	1.871304838	1.133829311	2.121740275
28° 07′ 20″	0.47135398	0.88194412	0.534448805	1.871086605	1.133858688	2.121547804
28° 07′ 30″ 28° 07′ 40″	0.47139674	0.88192126	0.534511136	1.870868412	1.133888070	2.121355372
28° 07′ 40″ 28° 07′ 50″	0.47143949 0.47148225	0.88189841	0.534573470	1.870650258	1.133917455	2.121162980 2.120970628
20 07 30	0.47 140223	0.88187555	0.534635808	1.870432144	1.133946845	4.1407/0648

211 28° 07′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
28° 08′ 00″	0.47152500	0.88185269	0.534698148	1.870214070	1.133976239	2.120778316
28° 08′ 10″	0.47156775	0.88182983	0.534760492	1.869996035	1.134005637	2.120586044
28° 08′ 20″	0.47161051	0.88180697	0.534822839	1.869778039	1.134035039	2.120393812
28° 08′ 30″	0.47165326	0.88178410	0.534885190	1.869560084	1.134064445	2.120201619
28° 08′ 40″	0.47169601	0.88176124	0.534947543	1.869342167	1.134093856	2.120009467
28° 08′ 50″	0.47173876	0.88173837	0.535009900	1.869124290	1.134123271	2.119817354
28° 09′ 00″	0.47178150	0.88171549	0.535072260	1.868906453	1.134152690	2.119625281
28° 09′ 10″	0.47182425	0.88169262	0.535134624	1.868688655	1.134182113	2.119433247
28° 09′ 20″	0.47186699	0.88166975	0.535196990	1.868470897	1.134211540	2.119241254
28° 09′ 30″	0.47190974	0.88164687	0.535259360	1.868253178	1.134240972	2.119049300
28° 09′ 40″	0.47195248	0.88162399	0.535321733	1.868035498	1.134270408	2.118857386
28° 09′ 50″	0.47199522	0.88160111	0.535384109	1.867817858	1.134299848	2.118665512
28° 10′ 00″	0.47203796	0.88157822	0.535446489	1.867600257	1.134329292	2.118473677
28° 10′ 10″	0.47208070	0.88155534	0.535508871	1.867382696	1.134358740	2.118281882
28° 10′ 20″	0.47212344	0.88153245	0.535571257	1.867165174	1.134388193	2.118090127
28° 10′ 30″	0.47216618	0.88150956	0.535633647	1.866947691	1.134417649	2.117898412
28° 10′ 40″	0.47220891	0.88148667	0.535696039	1.866730248	1.134447110	2.117706736
28° 10′ 50″	0.47225165	0.88146377	0.535758435	1.866512844	1.134476576	2.117515100
28° 11′ 00″	0.47229438	0.88144087	0.535820834	1.866295480	1.134506045	2.117323503
28° 11′ 10″	0.47233712	0.88141798	0.535883236	1.866078155	1.134535518	2.117131947
28° 11′ 20″	0.47237985	0.88139508	0.535945641	1.865860869	1.134564996	2.116940430
28° 11′ 30″	0.47242258	0.88137217	0.536008050	1.865643622	1.134594478	2.116748952
28° 11′ 40″	0.47246531	0.88134927	0.536070462	1.865426415	1.134623964	2.116557514
28° 11′ 50″ 28° 12′ 00″	0.47250804	0.88132636	0.536132877	1.865209247	1.134653455	2.116366116
28° 12′ 10″	0.47255076 0.47259349	0.88130345 0.88128054	0.536195295 0.536257717	1.864992118 1.864775029	1.134682949 1.134712448	2.116174757 2.115983438
28° 12′ 10″ 28° 12′ 20″	0.47259349	0.88125763	0.536257717	1.864773029	1.134712448	2.115783438
28° 12′ 30″	0.47267894	0.88123471	0.536382570	1.864340968	1.134741731	2.115600918
28° 12′ 40″	0.47272166	0.88121180	0.536362370	1.864123996	1.134771438	2.115409718
28° 12′ 50″	0.47272100	0.88118888	0.536507436	1.863907064	1.134830485	2.115218557
28° 13′ 00″	0.47280711	0.88116596	0.536569874	1.863690170	1.134860004	2.115027435
28° 13′ 10″	0.47284983	0.88114303	0.536632315	1.863473316	1.134889528	2.114836353
28° 13′ 20″	0.47289254	0.88112011	0.536694760	1.863256501	1.134919057	2.114645311
28° 13′ 30″	0.47293526	0.88109718	0.536757207	1.863039726	1.134948589	2.114454308
28° 13′ 40″	0.47297798	0.88107425	0.536819658	1.862822989	1.134978125	2.114263344
28° 13′ 50″	0.47302069	0.88105132	0.536882112	1.862606292	1.135007666	
28° 14′ 00″	0.47306341	0.88102838	0.536944570	1.862389633	1.135037211	2.113881536
28° 14′ 10″	0.47310612	0.88100545	0.537007030	1.862173014	1.135066760	2.113690690
28° 14′ 20″	0.47314883	0.88098251	0.537069494	1.861956434	1.135096314	2.113499885
28° 14′ 30″	0.47319154	0.88095957	0.537131961	1.861739893	1.135125871	2.113309118
28° 14′ 40″	0.47323425	0.88093663	0.537194432	1.861523391	1.135155433	2.113118391
28° 14′ 50″	0.47327696	0.88091368	0.537256905	1.861306928	1.135184999	2.112927704
28° 15′ 00″	0.47331967	0.88089074	0.537319382	1.861090505	1.135214569	2.112737056
28° 15′ 10″	0.47336237	0.88086779	0.537381862	1.860874120	1.135244144	2.112546447
28° 15′ 20″	0.47340508	0.88084484	0.537444346	1.860657774	1.135273722	2.112355877
28° 15′ 30″	0.47344778	0.88082189	0.537506832	1.860441467	1.135303305	2.112165347
28° 15′ 40″	0.47349049	0.88079893	0.537569322	1.860225200	1.135332892	2.111974856
28° 15′ 50″	0.47353319	0.88077598	0.537631815	1.860008971	1.135362484	2.111784405

212 **28° 15′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
28° 16′ 00″	0.47357589	0.88075302	0.537694312	1.859792782	1.135392079	2.111593993
28° 16′ 10″	0.47361859	0.88073302	0.537756812	1.859576631	1.135372077	2.1113/3//3
28° 16′ 20″	0.47366129	0.88070709	0.537730812	1.859360519	1.135451283	2.111213286
28° 16′ 30″	0.47370398	0.88068413	0.537817313	1.859144447	1.135480891	2.111022992
28° 16′ 40″	0.47374668	0.88066116	0.537944330	1.858928413	1.135510503	2.110832737
28° 16′ 50″	0.47374668	0.88063819	0.538006843	1.858712418	1.135540120	2.110632737
28° 17′ 00″	0.47378737	0.88063517	0.538069359	1.858496462	1.135569740	2.110452345
28° 17′ 10″	0.47387476	0.88059225	0.538131878	1.858280545	1.135599365	2.110452545
28° 17′ 20″	0.47391745	0.88056927	0.538194401	1.858064667	1.135628994	2.110202207
28° 17′ 30″	0.47396014	0.88054630	0.538256927	1.857848828	1.135658628	2.109882050
28° 17′ 40″	0.47400283	0.88052332	0.538319456	1.857633027	1.135688265	2.109692031
28° 17′ 50″	0.47404552	0.88050034	0.538381988	1.857417266	1.135717907	2.109502050
28° 18′ 00″	0.47408821	0.88047735	0.538444523	1.857201543	1.135747553	2.109312109
28° 18′ 10″	0.47413090	0.88045437	0.538507062	1.856985860	1.135777204	2.109122207
28° 18′ 20″	0.47417358	0.88043138	0.538569604	1.856770215	1.135806858	2.108932344
28° 18′ 30″	0.47421626	0.88040839	0.538632150	1.856554609	1.135836517	2.108742520
28° 18′ 40″	0.47425895	0.88038540	0.538694698	1.856339041	1.135866180	2.108552735
28° 18′ 50″	0.47430163	0.88036241	0.538757250	1.856123513	1.135895847	2.108362989
28° 19′ 00″	0.47434431	0.88033941	0.538819806	1.855908023	1.135925518	2.108173283
28° 19′ 10″	0.47438699	0.88031641	0.538882364	1.855692572	1.135955194	2.107983615
28° 19′ 20″	0.47442967	0.88029341	0.538944926	1.855477160	1.135984874	2.107793987
28° 19′ 30″	0.47447234	0.88027041	0.539007491	1.855261786	1.136014558	2.107604397
28° 19′ 40″	0.47451502	0.88024741	0.539070059	1.855046452	1.136044246	2.107414847
28° 19′ 50″	0.47455770	0.88022440	0.539132630	1.854831156	1.136073938	2.107225336
28° 20′ 00″	0.47460037	0.88020139	0.539195205	1.854615899	1.136103635	2.107035864
28° 20′ 10″	0.47464304	0.88017838	0.539257783	1.854400680	1.136133336	2.106846431
28° 20′ 20″	0.47468571	0.88015537	0.539320365	1.854185500	1.136163041	2.106657036
28° 20′ 30″	0.47472838	0.88013235	0.539382949	1.853970359	1.136192750	2.106467681
28° 20′ 40″	0.47477105	0.88010934	0.539445537	1.853755256	1.136222464	2.106278365
28° 20′ 50″	0.47481372	0.88008632	0.539508128	1.853540193	1.136252182	2.106089088
28° 21′ 00″	0.47485639	0.88006330	0.539570723	1.853325167	1.136281904	2.105899850
28° 21′ 10″	0.47489906	0.88004028	0.539633320	1.853110181	1.136311630	2.105710650
28° 21′ 20″	0.47494172	0.88001725	0.539695921	1.852895233	1.136341360	2.105521490
28° 21′ 30″	0.47498438	0.87999422	0.539758526	1.852680324	1.136371095	2.105332369
28° 21′ 40″	0.47502705	0.87997119	0.539821133	1.852465453	1.136400834	2.105143286
28° 21′ 50″	0.47506971	0.87994816	0.539883744	1.852250621	1.136430577	2.104954242
28° 22′ 00″	0.47511237	0.87992513	0.539946358	1.852035827	1.136460325	2.104765238
28° 22′ 10″	0.47515503	0.87990210	0.540008975	1.851821072	1.136490076	2.104576272
28° 22′ 20″	0.47519769	0.87987906	0.540071596	1.851606356	1.136519832	2.104387345
28° 22′ 30″	0.47524034	0.87985602	0.540134220	1.851391678	1.136549592	2.104198457
28° 22′ 40″	0.47528300	0.87983298	0.540196847	1.851177039	1.136579357	2.104009608
28° 22′ 50″	0.47532566	0.87980993	0.540259478	1.850962438	1.136609125	2.103820797
28° 23′ 00″	0.47536831	0.87978689	0.540322111	1.850747876	1.136638898	2.103632026
28° 23′ 10″	0.47541096	0.87976384	0.540384748	1.850533352	1.136668675	2.103443293
28° 23′ 20″	0.47545361	0.87974079	0.540447389	1.850318867	1.136698456	2.103254599
28° 23′ 30″	0.47549626	0.87971774	0.540510032	1.850104420	1.136728242	2.103065944
28° 23′ 40″	0.47553891	0.87969469	0.540572679	1.849890012	1.136758031	2.102877328
28° 23′ 50″	0.47558156	0.87967163	0.540635330	1.849675642	1.136787825	2.102688750

213 **28° 23′ 50″**

	• ()	()	4 ()	4 ()	()	()
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
28° 24′ 00″	0.47562421	0.87964857	0.540697983	1.849461310	1.136817623	2.102500211
28° 24′ 10″	0.47566686	0.87962551	0.540760640	1.849247017	1.136847426	2.102311711
28° 24′ 20″	0.47570950	0.87960245	0.540823300	1.849032763	1.136877232	2.102123250
28° 24′ 30″	0.47575214	0.87957939	0.540885963	1.848818546	1.136907043	2.101934827
28° 24′ 40″	0.47579479	0.87955632	0.540948630	1.848604369	1.136936858	2.101746443
28° 24′ 50″	0.47583743	0.87953325	0.541011300	1.848390229	1.136966678	2.101558098
28° 25′ 00″	0.47588007	0.87951018	0.541073973	1.848176128	1.136996501	2.101369792
28° 25′ 10″	0.47592271	0.87948711	0.541136649	1.847962066	1.137026329	2.101181524
28° 25′ 20″	0.47596535	0.87946404	0.541199329	1.847748041	1.137056161	2.100993295
28° 25′ 30″	0.47600798	0.87944096	0.541262012	1.847534055	1.137085997	2.100805104
28° 25′ 40″	0.47605062	0.87941788	0.541324698	1.847320108	1.137115838	2.100616952
28° 25′ 50″	0.47609325	0.87939480	0.541387388	1.847106198	1.137145683	2.100428839
28° 26′ 00″	0.47613589	0.87937172	0.541450081	1.846892327	1.137175532	2.100240764
28° 26′ 10″	0.47617852	0.87934863	0.541512777	1.846678495	1.137205385	2.100052728
28° 26′ 20″	0.47622115	0.87932555	0.541575477	1.846464700	1.137235243	2.099864731
28° 26′ 30″	0.47626378	0.87930246	0.541638179	1.846250944	1.137265104	2.099676772
28° 26′ 40″	0.47630641	0.87927937	0.541700885	1.846037226	1.137294970	2.099488852
28° 26′ 50″	0.47634904	0.87925627	0.541763595	1.845823546	1.137324840	2.099300970
28° 27′ 00″	0.47639167	0.87923318	0.541826308	1.845609905	1.137354715	2.099113127
28° 27′ 10″	0.47643429	0.87921008	0.541889024	1.845396302	1.137384594	2.098925323
28° 27′ 20″	0.47647692	0.87918698	0.541951743	1.845182737	1.137414477	2.098737557
28° 27′ 30″	0.47651954	0.87916388	0.542014465	1.844969210	1.137444364	2.098549829
28° 27′ 40″	0.47656216	0.87914078	0.542077191	1.844755722	1.137474255	2.098362140
28° 27′ 50″	0.47660478	0.87911767	0.542139920	1.844542271	1.137504151	2.098174490
28° 28′ 00″	0.47664740	0.87909456	0.542202653	1.844328859	1.137534051	2.097986878
28° 28′ 10″	0.47669002	0.87907145	0.542265389	1.844115485	1.137563955	2.097799305
28° 28′ 20″	0.47673264	0.87904834	0.542328128	1.843902149	1.137593863	2.097611769
28° 28′ 30″	0.47677526	0.87902523	0.542390870	1.843688851	1.137623776	2.097424273
28° 28′ 40″	0.47681787	0.87900211	0.542453616	1.843475592	1.137653693	2.097236815
28° 28′ 50″	0.47686049	0.87897900	0.542516365	1.843262370	1.137683614	2.097049395
28° 29′ 00″	0.47690310	0.87895588	0.542579117	1.843049187	1.137713540	2.096862014
28° 29′ 10″	0.47694571	0.87893275	0.542641872	1.842836042	1.137743469	2.096674671
28° 29′ 20″	0.47698833	0.87890963	0.542704631	1.842622934	1.137773403	2.096487367
28° 29′ 30″	0.47703094	0.87888650	0.542767393	1.842409865	1.137803341	2.096300100
28° 29′ 40″	0.47707355	0.87886338	0.542830159	1.842196834	1.137833284	2.096112873
28° 29′ 50″	0.47711615	0.87884024	0.542892928	1.841983841	1.137863230	2.095925683
28° 30′ 00″	0.47715876	0.87881711	0.542955700	1.841770886	1.137893181	2.095738533
28° 30′ 10″	0.47720137	0.87879398	0.543018475	1.841557969	1.137923136	2.095551420
28° 30′ 20″	0.47724397	0.87877084	0.543081254	1.841345090	1.137953096	2.095364346
28° 30′ 30″	0.47728657	0.87874770	0.543144036	1.841132249	1.137983059	2.095177310
28° 30′ 40″	0.47732918	0.87872456	0.543206821	1.840919446	1.138013027	2.094990312
28° 30′ 50″	0.47737178	0.87870142	0.543269610	1.840706681	1.138042999	2.094803353
28° 31′ 00″	0.47741438	0.87867828	0.543332401	1.840493954	1.138072976	2.094616432
28° 31′ 10″	0.47745698	0.87865513	0.543395197	1.840281265	1.138102957	2.094429549
28° 31′ 20″	0.47749957	0.87863198	0.543457995	1.840068614	1.138132942	2.094242704
28° 31′ 30″	0.47754217	0.87860883	0.543520797	1.839856001	1.138162931	2.094055898
28° 31′ 40″	0.47758477	0.87858568	0.543583602	1.839643426	1.138192924	2.093869130
28° 31′ 50″	0.47762736	0.87856252	0.543646411	1.839430888	1.138222922	2.093682400

214 28° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
28° 32′ 00″	0.47766995	0.87853936	0.543709222	1.839218389	1.138252924	2.093495709
28° 32′ 10″	0.47771255	0.87851621	0.543772037	1.839005927	1.138282930	2.093309055
28° 32′ 20″	0.47775514	0.87849304	0.543834856	1.838793504	1.138312940	2.093122440
28° 32′ 30″	0.47779773	0.87846988	0.543897678	1.838581118	1.138342955	2.092935863
28° 32′ 40″	0.47784032	0.87844672	0.543960503	1.838368770	1.138372974	2.092749324
28° 32′ 50″	0.47788290	0.87842355	0.544023331	1.838156460	1.138402997	2.092562824
28° 33′ 00″	0.47792549	0.87840038	0.544086162	1.837944188	1.138433025	2.092376361
28° 33′ 10″	0.47796808	0.87837721	0.544148997	1.837731953	1.138463057	2.092189937
28° 33′ 20″	0.47801066	0.87835403	0.544211836	1.837519757	1.138493093	2.092003551
28° 33′ 30″	0.47805324	0.87833086	0.544274677	1.837307598	1.138523133	2.091817203
28° 33′ 40″	0.47809583	0.87830768	0.544337522	1.837095477	1.138553178	2.091630893
28° 33′ 50″	0.47813841	0.87828450	0.544400370	1.836883394	1.138583226	2.091444621
28° 34′ 00″	0.47818099	0.87826132	0.544463222	1.836671348	1.138613279	2.091258387
28° 34′ 10″	0.47822357	0.87823813	0.544526077	1.836459341	1.138643337	2.091072191
28° 34′ 20″	0.47826614	0.87821495	0.544588935	1.836247371	1.138673398	2.090886034
28° 34′ 30″	0.47830872	0.87819176	0.544651796	1.836035439	1.138703464	2.090699914
28° 34′ 40″	0.47835130	0.87816857	0.544714661	1.835823544	1.138733534	2.090513833
28° 34′ 50″	0.47839387	0.87814538	0.544777529	1.835611687	1.138763609	2.090327789
28° 35′ 00″	0.47843644	0.87812218	0.544840401	1.835399868	1.138793687	2.090141784
28° 35′ 10″	0.47847901	0.87809899	0.544903276	1.835188087	1.138823770	2.089955816
28° 35′ 20″	0.47852159	0.87807579	0.544966154	1.834976343	1.138853857	2.089769887
28° 35′ 30″	0.47856416	0.87805259	0.545029035	1.834764637	1.138883949	2.089583995
28° 35′ 40″	0.47860672	0.87802939	0.545091920	1.834552969	1.138914045	2.089398142
28° 35′ 50″	0.47864929	0.87800618	0.545154808	1.834341338	1.138944145	2.089212326
28° 36′ 00″	0.47869186	0.87798298	0.545217699	1.834129745	1.138974249	2.089026549
28° 36′ 10″	0.47873442	0.87795977	0.545280594	1.833918190	1.139004357	2.088840809
28° 36′ 20″	0.47877699	0.87793656	0.545343492	1.833706672	1.139034470	2.088655108
28° 36′ 30″	0.47881955	0.87791334	0.545406393	1.833495192	1.139064587	2.088469444
28° 36′ 40″	0.47886211	0.87789013	0.545469298	1.833283749	1.139094709	2.088283818
28° 36′ 50″	0.47890467	0.87786691	0.545532206	1.833072344	1.139124834	2.088098230
28° 37′ 00″	0.47894723	0.87784369	0.545595118	1.832860977	1.139154964	2.087912680
28° 37′ 10″	0.47898979	0.87782047	0.545658032	1.832649647	1.139185098	2.087727168
28° 37′ 20″	0.47903235	0.87779725	0.545720950	1.832438354	1.139215237	2.087541694
28° 37′ 30″	0.47907490	0.87777402	0.545783872	1.832227100	1.139245379	2.087356257
28° 37′ 40″	0.47911746	0.87775080	0.545846796	1.832015882	1.139275526	2.087170859
28° 37′ 50″	0.47916001	0.87772757	0.545909724	1.831804703	1.139305678	2.086985498
28° 38′ 00″	0.47920257	0.87770434	0.545972656	1.831593560	1.139335833	2.086800175
28° 38′ 10″	0.47924512	0.87768110	0.546035590	1.831382456	1.139365993	2.086614890
28° 38′ 20″	0.47928767	0.87765787	0.546098528	1.831171388	1.139396157	2.086429643
28° 38′ 30″	0.47933022	0.87763463	0.546161470	1.830960358	1.139426325	2.086244433
28° 38′ 40″	0.47937277	0.87761139	0.546224414	1.830749366	1.139456498	2.086059261
28° 38′ 50″	0.47941531	0.87758815	0.546287362	1.830538411	1.139486675	2.085874127
28° 39′ 00″	0.47945786	0.87756490	0.546350313	1.830327494	1.139516856	2.085689031
28° 39′ 10″	0.47950041	0.87754166	0.546413268	1.830116614	1.139547041	2.085503973
28° 39′ 20″	0.47954295	0.87751841	0.546476226	1.829905771	1.139577231	2.085318952
28° 39′ 30″	0.47958549	0.87749516	0.546539187	1.829694966	1.139607425	2.085133969
28° 39′ 40″ 28° 39′ 50″	0.47962803	0.87747191	0.546602152	1.829484198	1.139637623	2.084949024
20- 39- 30"	0.47967057	0.87744865	0.546665120	1.829273468	1.139667826	2.084764116

215 **28° 39′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
28° 40′ 00″	0.47971311	0.87742540	0.546728091	1.829062775	1.139698033	2.084579246
28° 40′ 10″	0.47975565	0.87740214	0.546791066	1.828852119	1.139728244	2.084394414
28° 40′ 20″	0.47979819	0.87737888	0.546854044	1.828641501	1.139758459	2.084209619
28° 40′ 30″	0.47984072	0.87735562	0.546917026	1.828430920	1.139788679	2.084024863
28° 40′ 40″	0.47988326	0.87733235	0.546980010	1.828220376	1.139818903	2.083840143
28° 40′ 50″	0.47992579	0.87730909	0.547042998	1.828009870	1.139849131	2.083655462
28° 41′ 00″	0.47996833	0.87728582	0.547105990	1.827799401	1.139879364	2.083470818
28° 41′ 10″	0.48001086	0.87726255	0.547168984	1.827588969	1.139909601	2.083286212
28° 41′ 20″	0.48005339	0.87723927	0.547231982	1.827378574	1.139939842	2.083101643
28° 41′ 30″	0.48009592	0.87721600	0.547294984	1.827168217	1.139970087	2.082917112
28° 41′ 40″	0.48013844	0.87719272	0.547357989	1.826957897	1.140000337	2.082732618
28° 41′ 50″	0.48018097	0.87716944	0.547420997	1.826747615	1.140030591	2.082548162
28° 42′ 00″	0.48022350	0.87714616	0.547484008	1.826537369	1.140060849	2.082363744
28° 42′ 10″	0.48026602	0.87712288	0.547547023	1.826327161	1.140091111	2.082179363
28° 42′ 20″	0.48030855	0.87709960	0.547610041	1.826116990	1.140121378	2.081995020
28° 42′ 30″	0.48035107	0.87707631	0.547673063	1.825906856	1.140151649	2.081810714
28° 42′ 40″	0.48039359	0.87705302	0.547736087	1.825696760	1.140181925	2.081626446
28° 42′ 50″	0.48043611	0.87702973	0.547799116	1.825486701	1.140212204	2.081442215
28° 43′ 00″	0.48047863	0.87700644	0.547862147	1.825276678	1.140242488	2.081258022
28° 43′ 10″	0.48052115	0.87698314	0.547925182	1.825066693	1.140272777	2.081073866
28° 43′ 20″	0.48056366	0.87695984	0.547988220	1.824856746	1.140303069	2.080889748
28° 43′ 30″	0.48060618	0.87693654	0.548051262	1.824646835	1.140333366	2.080705667
28° 43′ 40″	0.48064869	0.87691324	0.548114307	1.824436961	1.140363667	2.080521623
28° 43′ 50″	0.48069121	0.87688994	0.548177355	1.824227125	1.140393972	2.080337618
28° 44′ 00″	0.48073372	0.87686663	0.548240407	1.824017325	1.140424282	2.080153649
28° 44′ 10″	0.48077623	0.87684332	0.548303461	1.823807563	1.140454596	2.079969718
28° 44′ 20″	0.48081874	0.87682002	0.548366520	1.823597838	1.140484914	2.079785824
28° 44′ 30″	0.48086125	0.87679670	0.548429581	1.823388150	1.140515237	2.079601968
28° 44′ 40″	0.48090376	0.87677339	0.548492647	1.823178499	1.140545564	2.079418149
28° 44′ 50″	0.48094626	0.87675007	0.548555715	1.822968885	1.140575895	2.079234368
28° 45′ 00″ 28° 45′ 10″	0.48098877 0.48103127	0.87672676	0.548618787 0.548681862	1.822759308 1.822549768	1.140606230	2.079050624 2.078866917
28° 45′ 20″	0.48103127	0.87670344 0.87668011	0.548744940	1.822340266	1.140636570 1.140666914	2.078683248
28° 45′ 30″	0.48111628	0.87665679	0.548808022	1.822130800	1.140697263	2.078499615
28° 45′ 40″	0.48115878	0.87663346	0.548871107	1.821921371	1.140772615	2.078316021
28° 45′ 50″	0.48120128	0.87661013	0.548934196	1.821711979	1.140757972	2.078132463
28° 46′ 00″	0.48124378	0.87658680	0.548997288	1.821502624	1.140788333	2.077948943
28° 46′ 10″	0.48128628	0.87656347	0.549060383	1.821293307	1.140818699	2.077765460
28° 46′ 20″	0.48132877	0.87654014	0.549123481	1.821084026	1.140849069	2.077582015
28° 46′ 30″	0.48137127	0.87651680	0.549186583	1.820874782	1.140879443	2.077398607
28° 46′ 40″	0.48141376	0.87649346	0.549249689	1.820665575	1.140909821	2.077215236
28° 46′ 50″	0.48145625	0.87647012	0.549312797	1.820456405	1.140940204	2.077031902
28° 47′ 00″	0.48149875	0.87644678	0.549375909	1.820247271	1.140970591	2.076848605
28° 47′ 10″	0.48154124	0.87642343	0.549439025	1.820038175	1.141000982	2.076665346
28° 47′ 20″	0.48158373	0.87640009	0.549502144	1.819829116	1.141031378	2.076482124
28° 47′ 30″	0.48162622	0.87637674	0.549565266	1.819620093	1.141061778	2.076298939
28° 47′ 40″	0.48166870	0.87635339	0.549628391	1.819411108	1.141092182	2.076115791
28° 47′ 50″	0.48171119	0.87633004	0.549691520	1.819202159	1.141122591	2.075932681
	1					

216 **28° 47′ 50″**

~	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	csc(v)
X 200 401 2011						$\frac{\csc(x)}{2.075740600}$
28° 48′ 00″	0.48175367	0.87630668	0.549754652	1.818993247	1.141153004	2.075749608
28° 48′ 10″	0.48179616	0.87628332	0.549817788	1.818784372	1.141183421	2.075566572
28° 48′ 20″	0.48183864	0.87625996	0.549880927	1.818575534	1.141213842	2.075383573
28° 48′ 30″	0.48188112	0.87623660	0.549944069	1.818366733	1.141244268	2.075200611
28° 48′ 40″	0.48192360	0.87621324	0.550007215	1.818157968	1.141274698	2.075017686
28° 48′ 50″	0.48196608	0.87618987	0.550070364	1.817949240	1.141305132	2.074834798
28° 49′ 00″	0.48200856	0.87616651	0.550133516	1.817740549	1.141335571	2.074651948
28° 49′ 10″	0.48205104	0.87614314	0.550196672	1.817531895	1.141366014	2.074469135
28° 49′ 20″	0.48209351	0.87611977	0.550259831	1.817323278	1.141396461	2.074286358
28° 49′ 30″	0.48213599	0.87609639	0.550322994	1.817114697	1.141426913	2.074103619
28° 49′ 40″	0.48217846	0.87607302	0.550386160	1.816906153	1.141457369	2.073920917
28° 49′ 50″	0.48222094	0.87604964	0.550449329	1.816697646	1.141487829	2.073738252
28° 50′ 00″	0.48226341	0.87602626	0.550512501	1.816489176	1.141518293	2.073555624
28° 50′ 10″	0.48230588	0.87600288	0.550575677	1.816280742	1.141548762	2.073373033
28° 50′ 20″	0.48234835	0.87597949	0.550638857	1.816072345	1.141579235	2.073190479
28° 50′ 30″	0.48239081	0.87595611	0.550702040	1.815863985	1.141609713	2.073007962
28° 50′ 40″	0.48243328	0.87593272	0.550765226	1.815655661	1.141640195	2.072825482
28° 50′ 50″	0.48247575	0.87590933	0.550828415	1.815447374	1.141670681	2.072643039
28° 51′ 00″	0.48251821	0.87588594	0.550891608	1.815239124	1.141701171	2.072460633
28° 51′ 10″	0.48256068	0.87586254	0.550954804	1.815030910	1.141731666	2.072278264
28° 51′ 20″	0.48260314	0.87583915	0.551018004	1.814822733	1.141762165	2.072095932
28° 51′ 30″	0.48264560	0.87581575	0.551081207	1.814614593	1.141792668	2.071913637
28° 51′ 40″	0.48268806	0.87579235	0.551144413	1.814406489	1.141823176	2.071731379
28° 51′ 50″	0.48273052	0.87576895	0.551207623	1.814198422	1.141853688	2.071549158
28° 52′ 00″	0.48277298	0.87574554	0.551270836	1.813990391	1.141884204	2.071366973
28° 52′ 10″	0.48281543	0.87572213	0.551334053	1.813782397	1.141914724	2.071184826
28° 52′ 20″	0.48285789	0.87569873	0.551397273	1.813574440	1.141945249	2.071002716
28° 52′ 30″ 28° 52′ 40″	0.48290034	0.87567532	0.551460496	1.813366519	1.141975779	2.070820642
28° 52′ 50″	0.48294280	0.87565190	0.551523723	1.813158635	1.142006312	2.070638605
28° 53′ 00″	0.48298525	0.87562849	0.551586953	1.812950787	1.142036850 1.142067392	2.070456606
28° 53′ 10″	0.48302770	0.87560507	0.551650186	1.812742976		2.070274643
28° 53′ 20″	0.48307015 0.48311260	0.87558165 0.87555823	0.551713423 0.551776663	1.812535201 1.812327463	1.142097938 1.142128489	2.070092716 2.069910827
28° 53′ 30″	0.48311260	0.87553481	0.551839907	1.812119761	1.142120407	2.069710827
28° 53′ 40″	0.48319749	0.87551138	0.551903154	1.811912096	1.142189604	2.069547159
28° 53′ 50″	0.48323994	0.87548796	0.551966404	1.811712076	1.142187804	2.067347137
28° 54′ 00″	0.48328238	0.87546453	0.552029658	1.811496875	1.142250736	2.069183638
28° 54′ 10″	0.48332483	0.87544110	0.552092915	1.811289319	1.142281308	2.069001933
28° 54′ 20″	0.48336727	0.87541766	0.552156175	1.811081800	1.142281308	2.067001733
28° 54′ 30″	0.48340971	0.87539423	0.552219439	1.810874317	1.142311663	2.068638633
28° 54′ 40″	0.48345215	0.87537423	0.552282707	1.8106/431/	1.142342466	2.068457038
28° 54′ 50″	0.48349459	0.87534735	0.552345977	1.810459461	1.142373031	2.068275479
28° 55′ 00″	0.48353703	0.87532391	0.552409251	1.810252087	1.142403641	2.068273477
28° 55′ 10″	0.48357946	0.87530047	0.552472529	1.810232087	1.142454255	2.067912473
28° 55′ 20″	0.48362190	0.87527702	0.552535810	1.809837449	1.142464633	2.067712473
28° 55′ 30″	0.48366433	0.87525357	0.5525599094	1.809630184	1.142473436	2.067731023
28° 55′ 40″	0.48370676	0.87523012	0.552662381	1.809422956	1.142526643	2.067347613
28° 55′ 50″	0.48374920	0.87520667	0.552725672	1.809215765	1.142587270	2.067366237
	0.403/4720	0.0/32000/	0.332723072	1.00/213/63	1.14430/4/0	2.00/100701

217 28° 55′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
28° 56′ 00″	0.48379163	0.87518322	0.552788967	1.809008609	1.142617890	2.067005599
28° 56′ 10″	0.48383406	0.87515976	0.552852265	1.808801490	1.142648514	2.066824335
28° 56′ 20″	0.48387648	0.87513630	0.552915566	1.808594407	1.142679143	2.066643107
28° 56′ 30″	0.48391891	0.87511284	0.552978870	1.808387361	1.142709776	2.066461915
28° 56′ 40″	0.48396134	0.87508938	0.553042178	1.808180351	1.142740413	2.066280760
28° 56′ 50″	0.48400376	0.87506592	0.553105490	1.807973377	1.142771054	2.066099642
28° 57′ 00″	0.48404619	0.87504245	0.553168804	1.807766439	1.142801700	2.065918561
28° 57′ 10″	0.48408861	0.87501898	0.553232123	1.807559538	1.142832351	2.065737516
28° 57′ 20″	0.48413103	0.87499551	0.553295444	1.807352673	1.142863005	2.065556507
28° 57′ 30″	0.48417345	0.87497204	0.553358769	1.807145844	1.142893664	2.065375535
28° 57′ 40″	0.48421587	0.87494856	0.553422097	1.806939052	1.142924327	2.065194600
28° 57′ 50″	0.48425829	0.87492509	0.553485429	1.806732295	1.142954995	2.065013701
28° 58′ 00″	0.48430071	0.87490161	0.553548764	1.806525575	1.142985667	2.064832839
28° 58′ 10″	0.48434312	0.87487813	0.553612103	1.806318891	1.143016343	2.064652014
28° 58′ 20″	0.48438554	0.87485465	0.553675445	1.806112244	1.143047024	2.064471225
28° 58′ 30″	0.48442795	0.87483116	0.553738790	1.805905632	1.143077709	2.064290472
28° 58′ 40″	0.48447036	0.87480768	0.553802139	1.805699057	1.143108398	2.064109756
28° 58′ 50″	0.48451277	0.87478419	0.553865491	1.805492518	1.143139091	2.063929076
28° 59′ 00″	0.48455518	0.87476070	0.553928847	1.805286015	1.143169789	2.063748433
28° 59′ 10″	0.48459759	0.87473720	0.553992206	1.805079548	1.143200492	2.063567826
28° 59′ 20″	0.48464000	0.87471371	0.554055568	1.804873117	1.143231198	2.063387256
28° 59′ 30″	0.48468241	0.87469021	0.554118934	1.804666722	1.143261909	2.063206722
28° 59′ 40″	0.48472481	0.87466671	0.554182303	1.804460364	1.143292624	2.063026225
28° 59′ 50″	0.48476722	0.87464321	0.554245675	1.804254042	1.143323344	2.062845764
29° 00′ 00″	0.48480962	0.87461971	0.554309051	1.804047755	1.143354068	2.062665340
29° 00′ 10″	0.48485202	0.87459620	0.554372431	1.803841505	1.143384796	2.062484952
29° 00′ 20″	0.48489442	0.87457269	0.554435814	1.803635291	1.143415529	2.062304600
29° 00′ 30″	0.48493682	0.87454919	0.554499200	1.803429113	1.143446266	2.062124285
29° 00′ 40″	0.48497922	0.87452567	0.554562589	1.803222971	1.143477007	2.061944006
29° 00′ 50″	0.48502162	0.87450216	0.554625982	1.803016865	1.143507753	2.061763763
29° 01′ 00″	0.48506402	0.87447864	0.554689379	1.802810795	1.143538503	2.061583557
29° 01′ 10″	0.48510641	0.87445513	0.554752779	1.802604761	1.143569257	2.061403387
29° 01′ 20″	0.48514881	0.87443161	0.554816182	1.802398763	1.143600016	2.061223253
29° 01′ 30″	0.48519120	0.87440809	0.554879589	1.802192801	1.143630779	2.061043156
29° 01′ 40″	0.48523359	0.87438456	0.554942999	1.801986875	1.143661546	2.060863095
29° 01′ 50″	0.48527598	0.87436104	0.555006412	1.801780985	1.143692318	2.060683071
29° 02′ 00″	0.48531837	0.87433751	0.555069829	1.801575131	1.143723094	2.060503082
29° 02′ 10″	0.48536076	0.87431398	0.555133249	1.801369313	1.143753874	2.060323130
29° 02′ 20″	0.48540315	0.87429045	0.555196673	1.801163531	1.143784659	2.060143215
29° 02′ 30″	0.48544553	0.87426691	0.555260100	1.800957785	1.143815448	2.059963335
29° 02′ 40″	0.48548792	0.87424338	0.555323531	1.800752074	1.143846241	2.059783492
29° 02′ 50″	0.48553030	0.87421984	0.555386965	1.800546400	1.143877039	2.059603685
29° 03′ 00″	0.48557269	0.87419630	0.555450402	1.800340762	1.143907841	2.059423914
29° 03′ 10″	0.48561507	0.87417276	0.555513843	1.800135159	1.143938648	2.059244180
29° 03′ 20″	0.48565745	0.87414921	0.555577287	1.799929592	1.143969458	2.059064481
29° 03′ 30″	0.48569983	0.87412567	0.555640735	1.799724062	1.144000274	2.058884819
29° 03′ 40″	0.48574221	0.87410212	0.555704186	1.799518567	1.144031093	2.058705193
29° 03′ 50″	0.48578458	0.87407857	0.555767640	1.799313108	1.144061917	2.058525603

218 **29° 03′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
29° 04′ 00″	0.48582696	0.87405501	0.555831098	1.799107684	1.144092745	2.058346050
29° 04′ 10″	0.48586933	0.87403146	0.555894559	1.798902297	1.144123578	2.058166532
29° 04′ 20″	0.48591171	0.87400790	0.555958024	1.798696946	1.144154415	2.057987051
29° 04′ 30″	0.48595408	0.87398434	0.556021492	1.798491630	1.144185256	2.057807606
29° 04′ 40″	0.48599645	0.87396078	0.556084964	1.798286350	1.144216102	2.057628197
29° 04′ 50″	0.48603882	0.87393722	0.556148439	1.798081106	1.144246952	2.057448824
29° 05′ 00″	0.48608119	0.87391366	0.556211917	1.797875897	1.144277806	2.057269487
29° 05′ 10″	0.48612356	0.87389009	0.556275399	1.797670725	1.144308665	2.057090186
29° 05′ 20″	0.48616592	0.87386652	0.556338884	1.797465588	1.144339528	2.056910922
29° 05′ 30″	0.48620829	0.87384295	0.556402373	1.797260487	1.144370395	2.056731693
29° 05′ 40″	0.48625065	0.87381938	0.556465865	1.797055421	1.144401267	2.056552501
29° 05′ 50″	0.48629302	0.87379580	0.556529361	1.796850392	1.144432143	2.056373344
29° 06′ 00″	0.48633538	0.87377222	0.556592860	1.796645398	1.144463023	2.056194224
29° 06′ 10″	0.48637774	0.87374864	0.556656362	1.796440440	1.144493908	2.056015139
29° 06′ 20″	0.48642010	0.87372506	0.556719868	1.796235517	1.144524797	2.055836091
29° 06′ 30″	0.48646246	0.87370148	0.556783377	1.796030630	1.144555691	2.055657079
29° 06′ 40″	0.48650482	0.87367789	0.556846890	1.795825779	1.144586589	2.055478102
29° 06′ 50″	0.48654717	0.87365431	0.556910406	1.795620964	1.144617491	2.055299162
29° 07′ 00″	0.48658953	0.87363072	0.556973926	1.795416184	1.144648397	2.055120258
29° 07′ 10″	0.48663188	0.87360713	0.557037449	1.795211440	1.144679308	2.054941389
29° 07′ 20″	0.48667424	0.87358353	0.557100975	1.795006731	1.144710224	2.054762557
29° 07′ 30″	0.48671659	0.87355994	0.557164505	1.794802058	1.144741143	2.054583760
29° 07′ 40″	0.48675894	0.87353634	0.557228038	1.794597421	1.144772067	2.054405000
29° 07′ 50″	0.48680129	0.87351274	0.557291575	1.794392819	1.144802996	2.054226275
29° 08′ 00″	0.48684364	0.87348914	0.557355115	1.794188253	1.144833929	2.054047587
29° 08′ 10″	0.48688599	0.87346553	0.557418658	1.793983723	1.144864866	2.053868934
29° 08′ 20″	0.48692833	0.87344193	0.557482205	1.793779228	1.144895807	2.053690317
29° 08′ 30″	0.48697068	0.87341832	0.557545756	1.793574768	1.144926753	2.053511736
29° 08′ 40″	0.48701302	0.87339471	0.557609310	1.793370345	1.144957703	2.053333191
29° 08′ 50″	0.48705536	0.87337110	0.557672867	1.793165956	1.144988658	2.053154682
29° 09′ 00″	0.48709771	0.87334748	0.557736428	1.792961604	1.145019617	2.052976208
29° 09′ 10″	0.48714005	0.87332387	0.557799992	1.792757286	1.145050580	2.052797771
29° 09′ 20″	0.48718239	0.87330025	0.557863560	1.792553005	1.145081548	2.052619369
29° 09′ 30″	0.48722472	0.87327663	0.557927131	1.792348758	1.145112520	2.052441003
29° 09′ 40″	0.48726706	0.87325301	0.557990705	1.792144548	1.145143496	2.052262673
29° 09′ 50″	0.48730940	0.87322938	0.558054283	1.791940373	1.145174477	2.052084379
29° 10′ 00″	0.48735173	0.87320575	0.558117865	1.791736233	1.145205462	2.051906121
29° 10′ 10″	0.48739406	0.87318213	0.558181449	1.791532129	1.145236452	2.051727898
29° 10′ 20″	0.48743640	0.87315850	0.558245038	1.791328060	1.145267446	2.051549711
29° 10′ 30″ 29° 10′ 40″	0.48747873	0.87313486	0.558308629	1.791124026	1.145298444	2.051371560
	0.48752106	0.87311123	0.558372224	1.790920028	1.145329446	2.051193445
29° 10′ 50″ 29° 11′ 00″	0.48756339 0.48760572	0.87308759	0.558435823	1.790716066	1.145360453	2.051015365
29° 11′ 00″ 29° 11′ 10″	0.48760572	0.87306395 0.87304031	0.558499425 0.558563031	1.790512139 1.790308247	1.145391465 1.145422481	2.050837321 2.050659313
29° 11′ 10″ 29° 11′ 20″	0.48769037	0.87304031	0.558626639	1.790308247	1.145453501	2.050639313
29° 11′ 30″	0.48773269	0.87301667	0.558690252	1.789900570	1.145484525	2.050303404
29° 11′ 40″	0.48777502	0.87296938	0.558753868	1.789696784	1.145464525	2.050303404
29° 11′ 50″	0.48777302	0.87294573	0.558817487	1.789493034	1.145546587	2.030123303
	0.70701734	0.072/43/3	0.550017407	1.70/4/3034	1.17337030/	2.07/7/030

219 **29° 11′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
29° 12′ 00″	0.48785966	0.87292208	0.558881110	1.789289319	1.145577625	2.049769808
29° 12′ 10″	0.48790198	0.87289842	0.558944736	1.789085639	1.145608667	2.049592014
29° 12′ 20″	0.48794430	0.87287477	0.559008365	1.788881995	1.145639713	2.049414256
29° 12′ 30″	0.48798662	0.87285111	0.559071998	1.788678386	1.145670764	2.049236533
29° 12′ 40″	0.48802893	0.87282745	0.559135635	1.788474813	1.145701819	2.049058846
29° 12′ 50″	0.48807125	0.87280379	0.559199275	1.788271275	1.145732879	2.048881195
29° 13′ 00″	0.48811356	0.87278013	0.559262918	1.788067772	1.145763942	2.048703579
29° 13′ 10″	0.48815587	0.87275646	0.559326565	1.787864304	1.145795011	2.048525999
29° 13′ 20″	0.48819819	0.87273279	0.559390215	1.787660871	1.145826083	2.048348455
29° 13′ 30″	0.48824050	0.87270913	0.559453869	1.787457474	1.145857160	2.048170946
29° 13′ 40″	0.48828281	0.87268545	0.559517526	1.787254112	1.145888242	2.047993472
29° 13′ 50″	0.48832511	0.87266178	0.559581187	1.787050786	1.145919327	2.047816034
29° 14′ 00″	0.48836742	0.87263810	0.559644851	1.786847494	1.145950418	2.047638632
29° 14′ 10″	0.48840973	0.87261443	0.559708519	1.786644238	1.145981512	2.047461265
29° 14′ 20″	0.48845203	0.87259075	0.559772190	1.786441017	1.146012611	2.047283934
29° 14′ 30″	0.48849434	0.87256706	0.559835864	1.786237831	1.146043714	2.047106639
29° 14′ 40″	0.48853664	0.87254338	0.559899542	1.786034681	1.146074822	2.046929378
29° 14′ 50″	0.48857894	0.87251970	0.559963224	1.785831565	1.146105934	2.046752154
29° 15′ 00″	0.48862124	0.87249601	0.560026908	1.785628485	1.146137050	2.046574965
29° 15′ 10″	0.48866354	0.87247232	0.560090597	1.785425440	1.146168171	2.046397811
29° 15′ 20″	0.48870584	0.87244862	0.560154289	1.785222430	1.146199296	2.046220693
29° 15′ 30″	0.48874814	0.87242493	0.560217984	1.785019455	1.146230426	2.046043610
29° 15′ 40″	0.48879043	0.87240123	0.560281682	1.784816515	1.146261560	2.045866563
29° 15′ 50″	0.48883273	0.87237754	0.560345385	1.784613610	1.146292698	2.045689551
29° 16′ 00″	0.48887502	0.87235384	0.560409090	1.784410741	1.146323841	2.045512575
29° 16′ 10″	0.48891731	0.87233013	0.560472799	1.784207907	1.146354988	2.045335634
29° 16′ 20″	0.48895960	0.87230643	0.560536512	1.784005107	1.146386140	2.045158728
29° 16′ 30″	0.48900189	0.87228272	0.560600228	1.783802343	1.146417296	2.044981858
29° 16′ 40″	0.48904418	0.87225901	0.560663947	1.783599614	1.146448456	2.044805023
29° 16′ 50″	0.48908647	0.87223530	0.560727670	1.783396920	1.146479620	2.044628224
29° 17′ 00″	0.48912876	0.87221159	0.560791397	1.783194261	1.146510790	2.044451460
29° 17′ 10″	0.48917104	0.87218788	0.560855127	1.782991637	1.146541963	2.044274731
29° 17′ 20″	0.48921333	0.87216416	0.560918860	1.782789048	1.146573141	2.044098038
29° 17′ 30″	0.48925561	0.87214044	0.560982597	1.782586494	1.146604323	2.043921380
29° 17′ 40″	0.48929789	0.87211672	0.561046337	1.782383975	1.146635510	2.043744757
29° 17′ 50″	0.48934017	0.87209300	0.561110081	1.782181491	1.146666701	2.043568170
29° 18′ 00″	0.48938245	0.87206927	0.561173828	1.781979042	1.146697896	2.043391618
29° 18′ 10″	0.48942473	0.87204555	0.561237579	1.781776628	1.146729096	2.043215102
29° 18′ 20″	0.48946701	0.87202182	0.561301333	1.781574249	1.146760300	2.043038620
29° 18′ 30″	0.48950928	0.87199809	0.561365090	1.781371905	1.146791509	2.042862174
29° 18′ 40″	0.48955156	0.87197435	0.561428851	1.781169596	1.146822722	2.042685763
29° 18′ 50″	0.48959383	0.87195062	0.561492616	1.780967321	1.146853939	2.042509388
29° 19′ 00″	0.48963611	0.87192688	0.561556384	1.780765082	1.146885161	2.042333048
29° 19′ 10″	0.48967838	0.87190314	0.561620155	1.780562878	1.146916387	2.042156743
29° 19′ 20″	0.48972065	0.87187940	0.561683930	1.780360708	1.146947618	2.041980473
29° 19′ 30″	0.48976292	0.87185566	0.561747709	1.780158574	1.146978853	2.041804238
29° 19′ 40″ 29° 19′ 50″	0.48980519	0.87183191	0.561811491	1.779956474	1.147010092	2.041628039
29- 19: 50"	0.48984745	0.87180816	0.561875276	1.779754409	1.147041336	2.041451875

220 29° 19′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
29° 20′ 00″	0.48988972	0.87178441	0.561939065	1.779552379	1.147072584	2.041275746
29° 20′ 10″	0.48993198	0.87176066	0.562002857	1.779350384	1.147103836	2.041099652
29° 20′ 20″	0.48997425	0.87173691	0.562066653	1.779148424	1.147135093	2.040923594
29° 20′ 30″	0.49001651	0.87171315	0.562130452	1.778946499	1.147166355	2.040747570
29° 20′ 40″	0.49005877	0.87168940	0.562194255	1.778744608	1.147197621	2.040571582
29° 20′ 50″	0.49010103	0.87166564	0.562258061	1.778542752	1.147228891	2.040395629
29° 21′ 00″	0.49014329	0.87164187	0.562321871	1.778340931	1.147260165	2.040219711
29° 21′ 10″	0.49018555	0.87161811	0.562385684	1.778139145	1.147291444	2.040043828
29° 21′ 20″	0.49022780	0.87159434	0.562449501	1.777937394	1.147322728	2.039867980
29° 21′ 30″	0.49027006	0.87157058	0.562513321	1.777735677	1.147354015	2.039692168
29° 21′ 40″	0.49031231	0.87154681	0.562577145	1.777533996	1.147385307	2.039516390
29° 21′ 50″	0.49035457	0.87152303	0.562640972	1.777332349	1.147416604	2.039340648
29° 22′ 00″	0.49039682	0.87149926	0.562704802	1.777130736	1.147447905	2.039164940
29° 22′ 10″	0.49043907	0.87147548	0.562768637	1.776929159	1.147479210	2.038989268
29° 22′ 20″	0.49048132	0.87145171	0.562832474	1.776727616	1.147510520	2.038813631
29° 22′ 30″	0.49052357	0.87142793	0.562896315	1.776526108	1.147541834	2.038638029
29° 22′ 40″	0.49056582	0.87140414	0.562960160	1.776324634	1.147573153	2.038462462
29° 22′ 50″	0.49060806	0.87138036	0.563024008	1.776123196	1.147604476	2.038286929
29° 23′ 00″	0.49065031	0.87135657	0.563087859	1.775921792	1.147635803	2.038111432
29° 23′ 10″	0.49069255	0.87133278	0.563151714	1.775720422	1.147667135	2.037935970
29° 23′ 20″	0.49073479	0.87130899	0.563215573	1.775519088	1.147698471	2.037760543
29° 23′ 30″	0.49077704	0.87128520	0.563279435	1.775317788	1.147729812	2.037585151
29° 23′ 40″	0.49081928	0.87126141	0.563343300	1.775116522	1.147761157	2.037409794
29° 23′ 50″	0.49086152	0.87123761	0.563407169	1.774915292	1.147792507	2.037234472
29° 24′ 00″	0.49090375	0.87121381	0.563471042	1.774714096	1.147823860	2.037059184
29° 24′ 10″	0.49094599	0.87119001	0.563534918	1.774512934	1.147855219	2.036883932
29° 24′ 20″	0.49098823	0.87116621	0.563598797	1.774311807	1.147886581	2.036708715
29° 24′ 30″	0.49103046	0.87114240	0.563662680	1.774110715	1.147917949	2.036533533
29° 24′ 40″	0.49107269	0.87111860	0.563726566	1.773909657	1.147949320	2.036358385
29° 24′ 50″	0.49111493	0.87109479	0.563790456	1.773708634	1.147980696	2.036183272
29° 25′ 00″	0.49115716	0.87107098	0.563854350	1.773507646	1.148012076	2.036008195
29° 25′ 10″	0.49119939	0.87104716	0.563918246	1.773306692	1.148043461	2.035833152
29° 25′ 20″ 29° 25′ 30″	0.49124162	0.87102335	0.563982147	1.773105772	1.148074850	2.035658144
29° 25′ 40″	0.49128383	0.87099953 0.87097571	0.564046051 0.564109958	1.772904887 1.772704037	1.148106244 1.148137642	2.035483171 2.035308233
29° 25′ 50″	0.49136830	0.87097371	0.564107738	1.772704037	1.148169044	2.035308233
29° 26′ 00″	0.49141052	0.87093189	0.564237783	1.772302440	1.148169044	2.033133330
29° 26′ 10″	0.49145275	0.87092807	0.564301701	1.772302440	1.148231862	2.034783628
29° 26′ 20″	0.49149497	0.87070424	0.564365622	1.772101673	1.148263278	2.034783828
29° 26′ 30″	0.47147477	0.87085659	0.564429547	1.771700781	1.148294698	2.034434065
29° 26′ 40″	0.47153717	0.87083275	0.564493476	1.771499660	1.148326123	2.034259336
29° 26′ 50″	0.49162163	0.87080892	0.564557407	1.771299051	1.148357552	2.034084641
29° 27′ 00″	0.47162163	0.87078509	0.564621343	1.771277031	1.148388985	2.033909982
29° 27′ 10″	0.47100384	0.87076125	0.564685282	1.771078476	1.148420423	2.033707782
29° 27′ 20″	0.47170000	0.87073741	0.564749224	1.770697431	1.148451865	2.033560767
29° 27′ 30″	0.47174020	0.87073741	0.564813170	1.770496960	1.148483312	2.033386211
29° 27′ 40″	0.49183270	0.87068972	0.564877119	1.770476766	1.148514763	2.033211691
29° 27′ 50″	0.49187491	0.87066588	0.564941072	1.770096120	1.148546218	2.033037205
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221 29° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
29° 28′ 00″	0.49191712	0.87064203	0.565005028	1.769895753	1.148577678	2.032862754
29° 28′ 10″	0.49195933	0.87061818	0.565068988	1.769695419	1.148609142	2.032688337
29° 28′ 20″	0.49200154	0.87059433	0.565132952	1.769495120	1.148640611	2.032513955
29° 28′ 30″	0.49204375	0.87057047	0.565196919	1.769294855	1.148672084	2.032339608
29° 28′ 40″	0.49208595	0.87054662	0.565260889	1.769094624	1.148703562	2.032165296
29° 28′ 50″	0.49212816	0.87052276	0.565324863	1.768894428	1.148735044	2.031991018
29° 29′ 00″	0.49217036	0.87049890	0.565388840	1.768694267	1.148766530	2.031816775
29° 29′ 10″	0.49221257	0.87047504	0.565452821	1.768494139	1.148798021	2.031642567
29° 29′ 20″	0.49225477	0.87045117	0.565516805	1.768294046	1.148829516	2.031468393
29° 29′ 30″	0.49229697	0.87042731	0.565580793	1.768093987	1.148861016	2.031294254
29° 29′ 40″	0.49233917	0.87040344	0.565644785	1.767893963	1.148892520	2.031120150
29° 29′ 50″	0.49238136	0.87037957	0.565708780	1.767693972	1.148924029	2.030946080
29° 30′ 00″	0.49242356	0.87035570	0.565772778	1.767494016	1.148955542	2.030772045
29° 30′ 10″	0.49246576	0.87033182	0.565836780	1.767294095	1.148987059	2.030598044
29° 30′ 20″	0.49250795	0.87030795	0.565900786	1.767094207	1.149018581	2.030424078
29° 30′ 30″	0.49255014	0.87028407	0.565964795	1.766894354	1.149050107	2.030250147
29° 30′ 40″	0.49259233	0.87026019	0.566028807	1.766694535	1.149081638	2.030076250
29° 30′ 50″	0.49263453	0.87023630	0.566092823	1.766494750	1.149113173	2.029902387
29° 31′ 00″	0.49267672	0.87021242	0.566156843	1.766294999	1.149144713	2.029728559
29° 31′ 10″	0.49271890	0.87018853	0.566220866	1.766095283	1.149176257	2.029554766
29° 31′ 20″	0.49276109	0.87016464	0.566284892	1.765895601	1.149207805	2.029381008
29° 31′ 30″	0.49280328	0.87014075	0.566348922	1.765695953	1.149239358	2.029207283
29° 31′ 40″	0.49284546	0.87011686	0.566412956	1.765496339	1.149270915	2.029033594
29° 31′ 50″	0.49288765	0.87009297	0.566476993	1.765296760	1.149302477	2.028859938
29° 32′ 00″	0.49292983	0.87006907	0.566541034	1.765097214	1.149334043	2.028686318
29° 32′ 10″	0.49297201	0.87004517	0.566605078	1.764897703	1.149365614	2.028512731
29° 32′ 20″	0.49301419	0.87002127	0.566669125	1.764698226	1.149397189	2.028339180
29° 32′ 30″	0.49305637	0.86999737	0.566733176	1.764498783	1.149428768	2.028165662
29° 32′ 40″	0.49309855	0.86997346	0.566797231	1.764299374	1.149460352	2.027992180
29° 32′ 50″	0.49314073	0.86994955	0.566861289	1.764099999	1.149491941	2.027818731
29° 33′ 00″	0.49318290	0.86992564	0.566925351	1.763900658	1.149523533	2.027645317
29° 33′ 10″	0.49322508	0.86990173	0.566989416	1.763701352	1.149555131	2.027471938
29° 33′ 20″ 29° 33′ 30″	0.49326725	0.86987782	0.567053485	1.763502079	1.149586732	2.027298592
	0.49330942	0.86985390	0.567117557	1.763302841	1.149618338	2.027125282
29° 33′ 40″	0.49335159	0.86982999	0.567181633	1.763103636	1.149649949	2.026952005
29° 33′ 50″ 29° 34′ 00″	0.49339376	0.86980607	0.567245713	1.762904466	1.149681564	2.026778763
29° 34′ 00″ 29° 34′ 10″	0.49343593 0.49347810	0.86978215 0.86975822	0.567309795 0.567373882	1.762705330	1.149713183 1.149744807	2.026605556 2.026432383
29° 34′ 20″	0.49352027	0.86973430	0.567437972	1.762506227 1.762307159	1.1497744607	2.026452565
29° 34′ 30″	0.49356243	0.86971037	0.567502065	1.762307137	1.149776436	2.026237244
29° 34′ 40″	0.49360460	0.86968644	0.567566162	1.762108125	1.147808088	2.025006137
29° 34′ 50″	0.49364676	0.86966251	0.567630263	1.761707123	1.147837708	2.025740033
29° 35′ 00″	0.47364878	0.86963857	0.567694367	1.761710138	1.147871347	2.025567032
27° 35′ 10″	0.47308872	0.86961464	0.567758474	1.761311228	1.147702773	2.025394064
29° 35′ 20″	0.47373108	0.86959070	0.567822585	1.761312326	1.147734644	2.025374064
27° 35′ 30″	0.47377324	0.86956676	0.567886700	1.760914633	1.147766277	2.025048233
27° 35′ 40″	0.47381340	0.86954282	0.567950818	1.760714833	1.150029622	2.023048233
29° 35′ 50″	0.47383730	0.86951888	0.568014940	1.760517074	1.150027022	2.024702538
	0.1/30///1	0.00/31000	2.300017770	1.7 003 17 074	1.130001270	2.02 17 02330

222 **29° 35′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
29° 36′ 00″	0.49394187	0.86949493	0.568079065	1.760318346	1.150092963	2.024529743
29° 36′ 10″	0.49398402	0.86947098	0.568143194	1.760119651	1.150124640	2.024356981
29° 36′ 20″	0.49402617	0.86944703	0.568207326	1.759920990	1.150156322	2.024184254
29° 36′ 30″	0.49406832	0.86942308	0.568271462	1.759722364	1.150188008	2.024011560
29° 36′ 40″	0.49411047	0.86939913	0.568335601	1.759523771	1.150219699	2.023838902
29° 36′ 50″	0.49415262	0.86937517	0.568399744	1.759325212	1.150251394	2.023666277
29° 37′ 00″	0.49419477	0.86935121	0.568463890	1.759126686	1.150283093	2.023493686
29° 37′ 10″	0.49423692	0.86932725	0.568528040	1.758928195	1.150314797	2.023321130
29° 37′ 20″	0.49427906	0.86930329	0.568592194	1.758729738	1.150346506	2.023148608
29° 37′ 30″	0.49432121	0.86927932	0.568656351	1.758531314	1.150378218	2.022976120
29° 37′ 40″	0.49436335	0.86925536	0.568720511	1.758332924	1.150409936	2.022803666
29° 37′ 50″	0.49440549	0.86923139	0.568784676	1.758134568	1.150441657	2.022631247
29° 38′ 00″	0.49444763	0.86920742	0.568848843	1.757936246	1.150473384	2.022458861
29° 38′ 10″	0.49448977	0.86918345	0.568913014	1.757737958	1.150505114	2.022286510
29° 38′ 20″	0.49453191	0.86915947	0.568977189	1.757539703	1.150536849	2.022114193
29° 38′ 30″	0.49457405	0.86913549	0.569041367	1.757341482	1.150568589	2.021941909
29° 38′ 40″	0.49461619	0.86911152	0.569105549	1.757143295	1.150600333	2.021769660
29° 38′ 50″	0.49465832	0.86908754	0.569169734	1.756945142	1.150632081	2.021597446
29° 39′ 00″	0.49470046	0.86906355	0.569233923	1.756747022	1.150663834	2.021425265
29° 39′ 10″	0.49474259	0.86903957	0.569298116	1.756548937	1.150695592	2.021253118
29° 39′ 20″	0.49478472	0.86901558	0.569362312	1.756350885	1.150727353	2.021081005
29° 39′ 30″	0.49482685	0.86899159	0.569426511	1.756152866	1.150759120	2.020908927
29° 39′ 40″	0.49486898	0.86896760	0.569490714	1.755954882	1.150790891	2.020736882
29° 39′ 50″	0.49491111	0.86894361	0.569554921	1.755756931	1.150822666	2.020564872
29° 40′ 00″	0.49495324	0.86891961	0.569619131	1.755559014	1.150854445	2.020392895
29° 40′ 10″	0.49499536	0.86889562	0.569683345	1.755361130	1.150886230	2.020220953
29° 40′ 20″	0.49503749	0.86887162	0.569747562	1.755163280	1.150918018	2.020049044
29° 40′ 30″	0.49507961	0.86884762	0.569811783	1.754965464	1.150949811	2.019877170
29° 40′ 40″	0.49512173	0.86882361	0.569876007	1.754767682	1.150981609	2.019705329
29° 40′ 50″	0.49516385	0.86879961	0.569940235	1.754569933	1.151013411	2.019533523
29° 41′ 00″	0.49520597	0.86877560	0.570004466	1.754372218	1.151045217	2.019361750
29° 41′ 10″	0.49524809	0.86875159	0.570068701	1.754174536	1.151077028	2.019190012
29° 41′ 20″ 29° 41′ 30″	0.49529021	0.86872758	0.570132940	1.753976888	1.151108843	2.019018307
29° 41′ 30″ 29° 41′ 40″	0.49533233	0.86870357	0.570197182	1.753779274	1.151140663	2.018846636
29° 41′ 50″	0.49537444	0.86867955 0.86865553	0.570261428	1.753581693	1.151172487	2.018675000
29° 42′ 00″	0.49541656		0.570325677	1.753384146	1.151204316	2.018503397
29° 42′ 10″	0.49545867 0.49550078	0.86863151 0.86860749	0.570389930 0.570454186	1.753186632 1.752989152	1.151236149 1.151267987	2.018331828 2.018160293
29° 42′ 20″	0.49554289	0.86858347	0.570434166	1.752767132	1.151297829	2.017988792
29° 42′ 30″	0.47554287	0.86855944	0.570582709	1.752594293	1.151277827	2.017988792
29° 42′ 40″	0.47538300	0.86853542	0.570582709	1.752374273	1.151363527	2.017645892
29° 42′ 50″	0.47566922	0.86851139	0.570711247	1.752376714	1.151395383	2.017474492
29° 43′ 00″	0.47566722	0.86848735	0.570771547	1.752002256	1.151373383	2.017474472
29° 43′ 10″	0.47571132	0.86846332	0.570773321	1.751804977	1.151459107	2.017303127
29° 43′ 20″	0.47579553	0.86843928	0.570904080	1.751604777	1.151490976	2.016960497
29° 43′ 30″	0.47577553	0.86841525	0.570968364	1.751410520	1.151522850	2.016789233
29° 43′ 40″	0.47587773	0.86839121	0.571032653	1.751416326	1.151522836	2.016618003
29° 43′ 50″	0.47597773	0.86836717	0.571096945	1.751213342	1.151586610	2.016446806
	3.17372103	2.00030717	2.37 10707 13			010110000

223 **29° 43′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
29° 44′ 00″	0.49596393	0.86834312	0.571161240	1.750819086	1.151618497	2.016275644
29° 44′ 10″	0.49600603	0.86831908	0.571225539	1.750622008	1.151650388	2.016104515
29° 44′ 20″	0.49604813	0.86829503	0.571289842	1.750424963	1.151682284	2.015933420
29° 44′ 30″	0.49609022	0.86827098	0.571354148	1.750227953	1.151714184	2.015762358
29° 44′ 40″	0.49613232	0.86824692	0.571418457	1.750030975	1.151746089	2.015591331
29° 44′ 50″	0.49617441	0.86822287	0.571482771	1.749834031	1.151777998	2.015420337
29° 45′ 00″	0.49621650	0.86819881	0.571547087	1.749637120	1.151809912	2.015249377
29° 45′ 10″	0.49625859	0.86817476	0.571611408	1.749440243	1.151841830	2.015078451
29° 45′ 20″	0.49630068	0.86815070	0.571675732	1.749243399	1.151873753	2.014907558
29° 45′ 30″	0.49634277	0.86812663	0.571740059	1.749046589	1.151905680	2.014736700
29° 45′ 40″	0.49638486	0.86810257	0.571804390	1.748849811	1.151937611	2.014565875
29° 45′ 50″	0.49642695	0.86807850	0.571868725	1.748653068	1.151969548	2.014395083
29° 46′ 00″	0.49646903	0.86805443	0.571933063	1.748456357	1.152001488	2.014224325
29° 46′ 10″	0.49651112	0.86803036	0.571997405	1.748259680	1.152033433	2.014053601
29° 46′ 20″	0.49655320	0.86800629	0.572061750	1.748063036	1.152065383	2.013882911
29° 46′ 30″	0.49659528	0.86798222	0.572126099	1.747866426	1.152097337	2.013712254
29° 46′ 40″	0.49663736	0.86795814	0.572190452	1.747669849	1.152129295	2.013541631
29° 46′ 50″	0.49667944	0.86793406	0.572254808	1.747473305	1.152161258	2.013371042
29° 47′ 00″	0.49672152	0.86790998	0.572319167	1.747276795	1.152193226	2.013200486
29° 47′ 10″	0.49676359	0.86788590	0.572383530	1.747080317	1.152225198	2.013029964
29° 47′ 20″	0.49680567	0.86786181	0.572447897	1.746883874	1.152257174	2.012859475
29° 47′ 30″	0.49684774	0.86783773	0.572512267	1.746687463	1.152289155	2.012689020
29° 47′ 40″	0.49688982	0.86781364	0.572576641	1.746491086	1.152321140	2.012518599
29° 47′ 50″	0.49693189	0.86778955	0.572641019	1.746294741	1.152353130	2.012348211
29° 48′ 00″	0.49697396	0.86776545	0.572705400	1.746098431	1.152385124	2.012177857
29° 48′ 10″	0.49701603	0.86774136	0.572769785	1.745902153	1.152417123	2.012007537
29° 48′ 20″	0.49705810	0.86771726	0.572834173	1.745705908	1.152449127	2.011837250
29° 48′ 30″	0.49710017	0.86769316	0.572898565	1.745509697	1.152481134	2.011666996
29° 48′ 40″	0.49714223	0.86766906	0.572962960	1.745313519	1.152513147	2.011496776
29° 48′ 50″	0.49718430	0.86764496	0.573027359	1.745117374	1.152545164	2.011326590
29° 49′ 00″	0.49722636	0.86762085	0.573091761	1.744921263	1.152577185	2.011156437
29° 49′ 10″ 29° 49′ 20″	0.49726843 0.49731049	0.86759675 0.86757264	0.573156167 0.573220577	1.744725184 1.744529139	1.152609211	2.010986317 2.010816232
29° 49′ 30″	0.49731049	0.86754852	0.573284990	1.744329139	1.152641241 1.152673276	2.010646179
29° 49′ 40″	0.49739461	0.86752441	0.573349407	1.744137148	1.152705315	2.010476160
29° 49′ 50″	0.49743667	0.86750030	0.573347407	1.743941202	1.152703313	2.010476160
29° 50′ 00″	0.47743867	0.86747618	0.573478252	1.743745290	1.152757557	2.010306173
29° 50′ 10″	0.47747872	0.86745206	0.573542679	1.743549410	1.152801459	2.009966304
29° 50′ 20″	0.47756283	0.86742794	0.573607110	1.743353564	1.152833517	2.007766304
29° 50′ 30″	0.47750285	0.86740381	0.57367116	1.743157750	1.152865578	2.007776417
29° 50′ 40″	0.49764694	0.86737969	0.573735983	1.742961970	1.152897645	2.007626366
29° 50′ 50″	0.49768899	0.86735556	0.573800425	1.742766223	1.152929715	2.007430730
29° 51′ 00″	0.49773104	0.86733143	0.573864871	1.742570509	1.152961790	2.007200703
29° 51′ 10″	0.49777309	0.86730730	0.573929320	1.742374828	1.152993870	2.008947496
29° 51′ 20″	0.49781514	0.86728317	0.573993773	1.742179180	1.153025954	2.008777811
29° 51′ 30″	0.49785718	0.86725903	0.574058229	1.741983565	1.153058043	2.008608160
29° 51′ 40″	0.49789923	0.86723489	0.574122689	1.741787983	1.153090136	2.008438542
29° 51′ 50″	0.49794127	0.86721075	0.574187152	1.741592434	1.153122234	2.008268958

224 **29° 51′ 50″**

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
29° 52′ 00″	0.49798332	0.86718661	0.574251619	1.741396918	1.153154336	2.008099407
29° 52′ 10″	0.49802536	0.86716247	0.574316090	1.741201435	1.153186442	2.007929889
29° 52′ 20″	0.49806740	0.86713832	0.574380564	1.741005986	1.153218554	2.007760404
29° 52′ 30″	0.49810944	0.86711417	0.574445042	1.740810569	1.153250669	2.007590953
29° 52′ 40″	0.49815148	0.86709002	0.574509523	1.740615185	1.153282789	2.007421536
29° 52′ 50″	0.49819351	0.86706587	0.574574008	1.740419834	1.153314914	2.007252151
29° 53′ 00″	0.49823555	0.86704172	0.574638497	1.740224516	1.153347043	2.007082800
29° 53′ 10″	0.49827758	0.86701756	0.574702989	1.740029231	1.153379177	2.006913482
29° 53′ 20″	0.49831962	0.86699340	0.574767485	1.739833979	1.153411315	2.006744198
29° 53′ 30″	0.49836165	0.86696924	0.574831984	1.739638760	1.153443458	2.006574946
29° 53′ 40″	0.49840368	0.86694508	0.574896487	1.739443574	1.153475605	2.006405728
29° 53′ 50″	0.49844571	0.86692092	0.574960994	1.739248421	1.153507756	2.006236543
29° 54′ 00″	0.49848774	0.86689675	0.575025504	1.739053300	1.153539913	2.006067392
29° 54′ 10″	0.49852977	0.86687258	0.575090017	1.738858213	1.153572073	2.005898274
29° 54′ 20″	0.49857179	0.86684841	0.575154535	1.738663158	1.153604238	2.005729189
29° 54′ 30″	0.49861382	0.86682424	0.575219056	1.738468137	1.153636408	2.005560137
29° 54′ 40″	0.49865584	0.86680006	0.575283580	1.738273148	1.153668582	2.005391118
29° 54′ 50″	0.49869787	0.86677589	0.575348108	1.738078192	1.153700761	2.005222133
29° 55′ 00″	0.49873989	0.86675171	0.575412640	1.737883269	1.153732944	2.005053180
29° 55′ 10″	0.49878191	0.86672753	0.575477176	1.737688379	1.153765132	2.004884261
29° 55′ 20″	0.49882393	0.86670334	0.575541714	1.737493521	1.153797324	2.004715375
29° 55′ 30″	0.49886595	0.86667916	0.575606257	1.737298697	1.153829521	2.004546523
29° 55′ 40″	0.49890796	0.86665497	0.575670803	1.737103905	1.153861722	2.004377703
29° 55′ 50″	0.49894998	0.86663078	0.575735353	1.736909146	1.153893928	2.004208917
29° 56′ 00″	0.49899200	0.86660659	0.575799906	1.736714420	1.153926138	2.004040163
29° 56′ 10″	0.49903401	0.86658240	0.575864463	1.736519726	1.153958353	2.003871443
29° 56′ 20″	0.49907602	0.86655821	0.575929024	1.736325066	1.153990572	2.003702756
29° 56′ 30″	0.49911803	0.86653401	0.575993588	1.736130438	1.154022796	2.003534102
29° 56′ 40″	0.49916004	0.86650981	0.576058156	1.735935843	1.154055024	2.003365481
29° 56′ 50″	0.49920205	0.86648561	0.576122727	1.735741281	1.154087257	2.003196893
29° 57′ 00″	0.49924406	0.86646141	0.576187302	1.735546751	1.154119494	2.003028339
29° 57′ 10″	0.49928607	0.86643720	0.576251881	1.735352254	1.154151736	2.002859817
29° 57′ 20″	0.49932807	0.86641299	0.576316463	1.735157790	1.154183982	2.002691328
29° 57′ 30″	0.49937008	0.86638879	0.576381049	1.734963359	1.154216233	2.002522873
29° 57′ 40″	0.49941208	0.86636457	0.576445638	1.734768960	1.154248489	2.002354450
29° 57′ 50″	0.49945408	0.86634036	0.576510231	1.734574594	1.154280749	2.002186061
29° 58′ 00″	0.49949608	0.86631615	0.576574828	1.734380261	1.154313013	2.002017704
29° 58′ 10″	0.49953808	0.86629193	0.576639428	1.734185960	1.154345282	2.001849381
29° 58′ 20″	0.49958008	0.86626771	0.576704032	1.733991692	1.154377555	2.001681091
29° 58′ 30″	0.49962208	0.86624349	0.576768639	1.733797457	1.154409833	2.001512833
29° 58′ 40″	0.49966407	0.86621926	0.576833250	1.733603254	1.154442116	2.001344609
29° 58′ 50″	0.49970607	0.86619504	0.576897865	1.733409084	1.154474403	2.001176417
29° 59′ 00″	0.49974806	0.86617081	0.576962483	1.733214947	1.154506694	2.001008259
29° 59′ 10″	0.49979005	0.86614658	0.577027105	1.733020842	1.154538990	2.000840133
29° 59′ 20″	0.49983205	0.86612235	0.577091731	1.732826770	1.154571291	2.000672041
29° 59′ 30″	0.49987404	0.86609812	0.577156360	1.732632731	1.154603596	2.000503981
29° 59′ 40″	0.49991603	0.86607388	0.577220993	1.732438724	1.154635906	2.000335955
29° 59′ 50″	0.49995801	0.86604964	0.577285629	1.732244749	1.154668220	2.000167961

225 **29° 59′ 50″**

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
30° 00′ 00″	0.50000000	0.86602540	0.577350269	1.732050808	1.154700538	2.000000000
30° 00′ 10″	0.50004199	0.86600116	0.577414913	1.731856898	1.154732862	1.999832072
30° 00′ 20″	0.50008397	0.86597692	0.577479560	1.731663022	1.154765189	1.999664177
30° 00′ 30″	0.50012595	0.86595267	0.577544211	1.731469178	1.154797521	1.999496315
30° 00′ 40″	0.50016793	0.86592842	0.577608865	1.731275366	1.154829858	1.999328486
30° 00′ 50″	0.50020992	0.86590417	0.577673524	1.731081587	1.154862199	1.999160689
30° 01′ 00″	0.50025190	0.86587992	0.577738185	1.730887841	1.154894545	1.998992926
30° 01′ 10″	0.50029387	0.86585567	0.577802851	1.730694127	1.154926896	1.998825195
30° 01′ 20″	0.50033585	0.86583141	0.577867520	1.730500445	1.154959250	1.998657497
30° 01′ 30″	0.50037783	0.86580716	0.577932192	1.730306796	1.154991610	1.998489832
30° 01′ 40″	0.50041980	0.86578290	0.577996868	1.730113180	1.155023974	1.998322200
30° 01′ 50″	0.50046178	0.86575863	0.578061548	1.729919596	1.155056342	1.998154601
30° 02′ 00″	0.50050375	0.86573437	0.578126232	1.729726044	1.155088715	1.997987034
30° 02′ 10″	0.50054572	0.86571010	0.578190919	1.729532525	1.155121093	1.997819500
30° 02′ 20″	0.50058769	0.86568583	0.578255610	1.729339039	1.155153475	1.997651999
30° 02′ 30″	0.50062966	0.86566156	0.578320304	1.729145584	1.155185861	1.997484531
30° 02′ 40″	0.50067163	0.86563729	0.578385002	1.728952163	1.155218252	1.997317096
30° 02′ 50″	0.50071359	0.86561302	0.578449704	1.728758773	1.155250648	1.997149693
30° 03′ 00″	0.50075556	0.86558874	0.578514409	1.728565416	1.155283048	1.996982323
30° 03′ 10″	0.50079752	0.86556446	0.578579118	1.728372092	1.155315453	1.996814986
30° 03′ 20″	0.50083949	0.86554018	0.578643830	1.728178800	1.155347862	1.996647681
30° 03′ 30″	0.50088145	0.86551590	0.578708546	1.727985540	1.155380276	1.996480410
30° 03′ 40″	0.50092341	0.86549162	0.578773266	1.727792313	1.155412694	1.996313171
30° 03′ 50″	0.50096537	0.86546733	0.578837990	1.727599118	1.155445117	1.996145964
30° 04′ 00″	0.50100733	0.86544304	0.578902717	1.727405955	1.155477544	1.995978791
30° 04′ 10″	0.50104928	0.86541875	0.578967447	1.727212825	1.155509976	1.995811650
30° 04′ 20″	0.50109124	0.86539446	0.579032182	1.727019727	1.155542413	1.995644542
30° 04′ 30″	0.50113320	0.86537016	0.579096919	1.726826661	1.155574854	1.995477466
30° 04′ 40″	0.50117515	0.86534587	0.579161661	1.726633628	1.155607299	1.995310423
30° 04′ 50″	0.50121710	0.86532157	0.579226406	1.726440627	1.155639749	1.995143413
30° 05′ 00″	0.50125905	0.86529727	0.579291155	1.726247658	1.155672204	1.994976435
30° 05′ 10″	0.50130100	0.86527296	0.579355908	1.726054722	1.155704663	1.994809491
30° 05′ 20″	0.50134295	0.86524866	0.579420664	1.725861818	1.155737126	1.994642578
30° 05′ 30″	0.50138490	0.86522435	0.579485423	1.725668946	1.155769595	1.994475698
30° 05′ 40″	0.50142685	0.86520004	0.579550187	1.725476107	1.155802067	1.994308851
30° 05′ 50″	0.50146879	0.86517573	0.579614954	1.725283299	1.155834545	1.994142037
30° 06′ 00″	0.50151074	0.86515142	0.579679725	1.725090524	1.155867027	1.993975255
30° 06′ 10″	0.50155268	0.86512711	0.579744499	1.724897782	1.155899513	1.993808506
30° 06′ 20″	0.50159462	0.86510279	0.579809277	1.724705071	1.155932004	1.993641789
30° 06′ 30″	0.50163656	0.86507847	0.579874058	1.724512393	1.155964499	1.993475105
30° 06′ 40″	0.50167850	0.86505415	0.579938844	1.724319747	1.155996999	1.993308453
30° 06′ 50″	0.50172044	0.86502983	0.580003633	1.724127133	1.156029504	1.993141834
30° 07′ 00″	0.50176238	0.86500550	0.580068425	1.723934551	1.156062013	1.992975247
30° 07′ 10″	0.50180431	0.86498117	0.580133221	1.723742002	1.156094527	1.992808693
30° 07′ 20″	0.50184625	0.86495684	0.580198021	1.723549484	1.156127045	1.992642172
30° 07′ 30″	0.50188818	0.86493251	0.580262825	1.723356999	1.156159567	1.992475683
30° 07′ 40″	0.50193012	0.86490818	0.580327632	1.723164546	1.156192095	1.992309226
30° 07′ 50″	0.50197205	0.86488384	0.580392442	1.722972125	1.156224627	1.992142802
	0.30177203	2.00100004	2.000072112	.,,,,,	1,130221021	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

226 30° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
30° 08′ 00″	0.50201398	0.86485951	0.580457257	1.722779737	1.156257163	1.991976411
30° 08′ 10″	0.50205591	0.86483517	0.580522075	1.722587380	1.156289704	1.991810052
30° 08′ 20″	0.50209783	0.86481083	0.580586897	1.722395056	1.156322249	1.991643725
30° 08′ 30″	0.50213976	0.86478648	0.580651722	1.722202763	1.156354799	1.991477431
30° 08′ 40″	0.50218169	0.86476214	0.580716551	1.722010503	1.156387354	1.991311169
30° 08′ 50″	0.50222361	0.86473779	0.580781384	1.721818275	1.156419913	1.991144940
30° 09′ 00″	0.50226553	0.86471344	0.580846220	1.721626079	1.156452477	1.990978743
30° 09′ 10″	0.50230746	0.86468909	0.580911060	1.721433915	1.156485045	1.990812579
30° 09′ 20″	0.50234938	0.86466474	0.580975903	1.721241783	1.156517618	1.990646447
30° 09′ 30″	0.50239130	0.86464038	0.581040751	1.721049684	1.156550195	1.990480347
30° 09′ 40″	0.50243321	0.86461602	0.581105602	1.720857616	1.156582777	1.990314280
30° 09′ 50″	0.50247513	0.86459166	0.581170456	1.720665580	1.156615363	1.990148245
30° 10′ 00″	0.50251705	0.86456730	0.581235314	1.720473576	1.156647954	1.989982243
30° 10′ 10″	0.50255896	0.86454294	0.581300176	1.720281605	1.156680550	1.989816273
30° 10′ 20″	0.50260088	0.86451857	0.581365042	1.720089665	1.156713150	1.989650335
30° 10′ 30″	0.50264279	0.86449420	0.581429911	1.719897758	1.156745755	1.989484430
30° 10′ 40″	0.50268470	0.86446983	0.581494784	1.719705882	1.156778364	1.989318557
30° 10′ 50″	0.50272661	0.86444546	0.581559660	1.719514038	1.156810978	1.989152716
30° 11′ 00″	0.50276852	0.86442109	0.581624540	1.719322227	1.156843596	1.988986908
30° 11′ 10″	0.50281043	0.86439671	0.581689424	1.719130447	1.156876219	1.988821132
30° 11′ 20″	0.50285233	0.86437233	0.581754312	1.718938700	1.156908847	1.988655388
30° 11′ 30″	0.50289424	0.86434795	0.581819203	1.718746984	1.156941479	1.988489677
30° 11′ 40″	0.50293614	0.86432357	0.581884098	1.718555300	1.156974115	1.988323998
30° 11′ 50″	0.50297804	0.86429919	0.581948996	1.718363648	1.157006756	1.988158351
30° 12′ 00″	0.50301995	0.86427480	0.582013898	1.718172028	1.157039402	1.987992736
30° 12′ 10″	0.50306185	0.86425041	0.582078804	1.717980440	1.157072052	1.987827154
30° 12′ 20″	0.50310375	0.86422602	0.582143713	1.717788884	1.157104707	1.987661604
30° 12′ 30″	0.50314564	0.86420163	0.582208627	1.717597360	1.157137366	1.987496086
30° 12′ 40″	0.50318754	0.86417724	0.582273543	1.717405868	1.157170030	1.987330600
30° 12′ 50″	0.50322944	0.86415284	0.582338464	1.717214407	1.157202699	1.987165147
30° 13′ 00″	0.50327133	0.86412844	0.582403388	1.717022979	1.157235372	1.986999726
30° 13′ 10″	0.50331323	0.86410404	0.582468316	1.716831582	1.157268050	1.986834337
30° 13′ 20″	0.50335512	0.86407964	0.582533247	1.716640217	1.157300732	1.986668980
30° 13′ 30″	0.50339701	0.86405524	0.582598182	1.716448884	1.157333419	1.986503655
30° 13′ 40″	0.50343890	0.86403083	0.582663121	1.716257583	1.157366110	1.986338363
30° 13′ 50″ 30° 14′ 00″	0.50348079	0.86400642	0.582728063	1.716066314	1.157398806	1.986173103
30° 14′ 10″	0.50352268	0.86398201	0.582793010 0.582857959	1.715875077	1.157431506	1.986007875
30° 14′ 10″ 30° 14′ 20″	0.50356456	0.86395760		1.715683871 1.715492697	1.157464211	1.985842679
30° 14′ 30″	0.50360645	0.86393318	0.582922913 0.582987870		1.157496921 1.157529635	1.985677515 1.985512384
30° 14′ 40″	0.50364833	0.86390877 0.86388435	0.583052831	1.715301555 1.715110445	1.157527633	1.985347284
30° 14′ 40″ 30° 14′ 50″	0.50367021	0.86385993	0.583117795	1.714919366	1.157562534	1.985182217
30° 15′ 00″	0.50373210	0.86383551	0.583117773	1.714717366	1.157575077	1.985017181
30° 15′ 10″	0.50377378	0.86381108	0.583247735	1.714537305	1.157627803	1.984852178
30° 15′ 20″	0.50385773	0.86378665	0.583312711	1.714337303	1.157693275	1.784687207
30° 15′ 30″	0.50389773	0.86376223	0.583377690	1.714155370	1.157726016	1.984522268
30° 15′ 40″	0.50394149	0.86373779	0.583442673	1.713964451	1.157758763	1.984357361
30° 15′ 50″	0.50398336	0.86371336	0.583507659	1.713773563	1.157791513	1.984192487
	0.30370330	0.003/1330	0.303307037	1.7 137 7 3303	1,13/1/1313	1./011/270/

227 30° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
30° 16′ 00″	0.50402524	0.86368893	0.583572649	1.713582706	1.157824269	1.984027644
30° 16′ 10″	0.50406711	0.86366449	0.583637643	1.713391882	1.157857029	1.983862833
30° 16′ 20″	0.50410898	0.86364005	0.583702641	1.713201089	1.157889793	1.983698054
30° 16′ 30″	0.50415085	0.86361561	0.583767642	1.713010328	1.157922562	1.983533308
30° 16′ 40″	0.50419272	0.86359117	0.583832647	1.712819598	1.157955336	1.983368593
30° 16′ 50″	0.50423458	0.86356672	0.583897656	1.712628901	1.157988114	1.983203911
30° 17′ 00″	0.50427645	0.86354228	0.583962668	1.712438234	1.158020897	1.983039260
30° 17′ 10″	0.50431832	0.86351783	0.584027684	1.712247600	1.158053684	1.982874641
30° 17′ 20″	0.50436018	0.86349338	0.584092704	1.712056997	1.158086476	1.982710055
30° 17′ 30″	0.50440204	0.86346892	0.584157727	1.711866426	1.158119273	1.982545500
30° 17′ 40″	0.50444390	0.86344447	0.584222754	1.711675886	1.158152074	1.982380978
30° 17′ 50″	0.50448576	0.86342001	0.584287785	1.711485378	1.158184880	1.982216487
30° 18′ 00″	0.50452762	0.86339555	0.584352819	1.711294902	1.158217690	1.982052028
30° 18′ 10″	0.50456948	0.86337109	0.584417857	1.711104457	1.158250505	1.981887601
30° 18′ 20″	0.50461134	0.86334663	0.584482899	1.710914044	1.158283324	1.981723206
30° 18′ 30″	0.50465319	0.86332216	0.584547944	1.710723663	1.158316148	1.981558843
30° 18′ 40″	0.50469505	0.86329769	0.584612993	1.710533313	1.158348977	1.981394512
30° 18′ 50″	0.50473690	0.86327322	0.584678046	1.710342994	1.158381810	1.981230213
30° 19′ 00″	0.50477875	0.86324875	0.584743103	1.710152708	1.158414648	1.981065946
30° 19′ 10″	0.50482060	0.86322428	0.584808163	1.709962452	1.158447490	1.980901711
30° 19′ 20″	0.50486245	0.86319980	0.584873227	1.709772229	1.158480337	1.980737507
30° 19′ 30″	0.50490430	0.86317533	0.584938294	1.709582036	1.158513189	1.980573336
30° 19′ 40″	0.50494615	0.86315085	0.585003365	1.709391876	1.158546045	1.980409196
30° 19′ 50″	0.50498800	0.86312637	0.585068440	1.709201746	1.158578905	1.980245088
30° 20′ 00″	0.50502984	0.86310188	0.585133519	1.709011649	1.158611771	1.980081012
30° 20′ 10″	0.50507169	0.86307740	0.585198601	1.708821583	1.158644640	1.979916968
30° 20′ 20″	0.50511353	0.86305291	0.585263687	1.708631548	1.158677515	1.979752956
30° 20′ 30″	0.50515537	0.86302842	0.585328777	1.708441545	1.158710394	1.979588975
30° 20′ 40″	0.50519721	0.86300393	0.585393870	1.708251573	1.158743278	1.979425027
30° 20′ 50″	0.50523905	0.86297943	0.585458968	1.708061633	1.158776166	1.979261110
30° 21′ 00″	0.50528089	0.86295494	0.585524068	1.707871724	1.158809059	1.979097225
30° 21′ 10″	0.50532272	0.86293044	0.585589173	1.707681847	1.158841956	1.978933372
30° 21′ 20″	0.50536456	0.86290594	0.585654281	1.707492001	1.158874858	1.978769550
30° 21′ 30″	0.50540639	0.86288144	0.585719393	1.707302186	1.158907765	1.978605760
30° 21′ 40″	0.50544823	0.86285694	0.585784508	1.707112403	1.158940676	1.978442002
30° 21′ 50″	0.50549006	0.86283243	0.585849628	1.706922652	1.158973592	1.978278276
30° 22′ 00″	0.50553189	0.86280792	0.585914751	1.706732931	1.159006512	1.978114582
30° 22′ 10″	0.50557372	0.86278341	0.585979877	1.706543242	1.159039437	1.977950919
30° 22′ 20″	0.50561555	0.86275890	0.586045008	1.706353585	1.159072367	1.977787288
30° 22′ 30″	0.50565737	0.86273439	0.586110142	1.706163959	1.159105301	1.977623689
30° 22′ 40″	0.50569920	0.86270987	0.586175280	1.705974364	1.159138240	1.977460121
30° 22′ 50″	0.50574102	0.86268535	0.586240421	1.705784801	1.159171183	1.977296585
30° 23′ 00″	0.50578285	0.86266083	0.586305566	1.705595269	1.159204131	1.977133081
30° 23′ 10″	0.50582467	0.86263631	0.586370715	1.705405768	1.159237083	1.976969609
30° 23′ 20″	0.50586649	0.86261179	0.586435868	1.705216299	1.159270041	1.976806168
30° 23′ 30″	0.50590831	0.86258726	0.586501024	1.705026861	1.159303002	1.976642759
30° 23′ 40″ 30° 23′ 50″	0.50595013	0.86256273	0.586566184	1.704837454	1.159335969	1.976479381
<u> </u>	0.50599195	0.86253820	0.586631348	1.704648079	1.159368940	1.976316035

228 30° 23′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
30° 24′ 00″	0.50603376	0.86251367	0.586696515	1.704458734	1.159401915	1.976152721
30° 24′ 10″	0.50607558	0.86248913	0.586761686	1.704269422	1.159434895	1.975989439
30° 24′ 20″	0.50611739	0.86246460	0.586826861	1.704080140	1.159467880	1.975826188
30° 24′ 30″	0.50615921	0.86244006	0.586892040	1.703890890	1.159500870	1.975662968
30° 24′ 40″	0.50620102	0.86241552	0.586957222	1.703701671	1.159533863	1.975499781
30° 24′ 50″	0.50624283	0.86239098	0.587022408	1.703512483	1.159566862	1.975336625
30° 25′ 00″	0.50628464	0.86236643	0.587087598	1.703323327	1.159599865	1.975173500
30° 25′ 10″	0.50632645	0.86234189	0.587152791	1.703134201	1.159632873	1.975010407
30° 25′ 20″	0.50636825	0.86231734	0.587217988	1.702945107	1.159665885	1.974847346
30° 25′ 30″	0.50641006	0.86229279	0.587283189	1.702756045	1.159698902	1.974684316
30° 25′ 40″	0.50645186	0.86226824	0.587348394	1.702567013	1.159731924	1.974521318
30° 25′ 50″	0.50649367	0.86224368	0.587413602	1.702378013	1.159764950	1.974358351
30° 26′ 00″	0.50653547	0.86221912	0.587478814	1.702189044	1.159797981	1.974195416
30° 26′ 10″	0.50657727	0.86219457	0.587544029	1.702000106	1.159831016	1.974032512
30° 26′ 20″	0.50661907	0.86217001	0.587609249	1.701811199	1.159864056	1.973869640
30° 26′ 30″	0.50666087	0.86214544	0.587674472	1.701622323	1.159897101	1.973706799
30° 26′ 40″	0.50670267	0.86212088	0.587739699	1.701433479	1.159930150	1.973543990
30° 26′ 50″	0.50674446	0.86209631	0.587804929	1.701244665	1.159963204	1.973381213
30° 27′ 00″	0.50678626	0.86207174	0.587870163	1.701055883	1.159996263	1.973218467
30° 27′ 10″	0.50682805	0.86204717	0.587935401	1.700867132	1.160029326	1.973055752
30° 27′ 20″	0.50686984	0.86202260	0.588000643	1.700678412	1.160062393	1.972893069
30° 27′ 30″	0.50691163	0.86199802	0.588065889	1.700489723	1.160095466	1.972730417
30° 27′ 40″	0.50695342	0.86197345	0.588131138	1.700301066	1.160128542	1.972567797
30° 27′ 50″	0.50699521	0.86194887	0.588196390	1.700112439	1.160161624	1.972405208
30° 28′ 00″	0.50703700	0.86192429	0.588261647	1.699923843	1.160194710	1.972242651
30° 28′ 10″	0.50707879	0.86189971	0.588326907	1.699735279	1.160227801	1.972080125
30° 28′ 20″	0.50712057	0.86187512	0.588392171	1.699546746	1.160260896	1.971917630
30° 28′ 30″	0.50716236	0.86185053	0.588457439	1.699358243	1.160293996	1.971755167
30° 28′ 40″	0.50720414	0.86182594	0.588522711	1.699169772	1.160327101	1.971592735
30° 28′ 50″	0.50724592	0.86180135	0.588587986	1.698981332	1.160360210	1.971430335
30° 29′ 00″	0.50728770	0.86177676	0.588653265	1.698792923	1.160393324	1.971267966
30° 29′ 10″ 30° 29′ 20″	0.50732948	0.86175217	0.588718547	1.698604545	1.160426442	1.971105629
30° 29′ 30″	0.50737126	0.86172757	0.588783834	1.698416198	1.160459565	1.970943322
30° 29′ 40″	0.50741304	0.86170297 0.86167837	0.588849124 0.588914418	1.698227882 1.698039596	1.160492693 1.160525825	1.970781048 1.970618804
30° 29′ 50″		0.86165377	0.588979715		1.160525825	
30° 30′ 00″	0.50749659 0.50753836	0.86163377		1.697851342		1.970456592 1.970294411
30° 30′ 10″			0.589045016	1.697663119	1.160592104	1.970294411
30° 30′ 20″	0.50758014 0.50762191	0.86160455 0.86157994	0.589110321 0.589175630	1.697474927	1.160625250 1.160658401	1.969970144
30° 30′ 30″	0.50762171	0.86157533	0.589240943	1.697286766 1.697098636	1.160636401	1.969970144
30° 30′ 40″	0.50766566	0.86153072	0.589306259	1.696910537	1.160671336	1.969646001
30° 30′ 50″	0.50770343	0.86153072	0.589371579	1.696722468	1.160724716	1.969483977
30° 31′ 00″	0.50774721	0.86148149	0.589436902	1.696534431	1.160737881	1.969321984
30° 31′ 10″	0.507783074	0.86145687	0.589502230	1.696346425	1.160791030	1.969160022
30° 31′ 20″	0.50787251	0.86143225	0.589567561	1.676346423	1.160824224	1.968998092
30° 31′ 30″	0.50787231	0.86143223	0.589632896	1.695970505	1.160897403	1.968836193
30° 31′ 40″	0.50771427	0.86138300	0.589698234	1.695782591	1.160870388	1.968674325
30° 31′ 50″	0.50779003	0.86135837	0.589763577	1.695594708	1.160723773	1.968512488
	0.30177117	0.00133037	0.307703377	1.0/33/4/00	1.100/30/00	1.700312400

229 30° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
30° 32′ 00″	0.50803955	0.86133374	0.589828923	1.695406856	1.160990163	1.968350682
30° 32′ 10″	0.50808131	0.86130911	0.589894273	1.695219036	1.161023365	1.968188908
30° 32′ 20″	0.50812307	0.86128448	0.589959626	1.695031245	1.161056571	1.968027165
30° 32′ 30″	0.50816482	0.86125984	0.590024984	1.694843486	1.161089782	1.967865453
30° 32′ 40″	0.50820658	0.86123520	0.590090345	1.694655758	1.161122997	1.967703773
30° 32′ 50″	0.50824833	0.86121056	0.590155709	1.694468060	1.161156217	1.967542123
30° 33′ 00″	0.50829008	0.86118592	0.590221078	1.694280393	1.161189442	1.967380505
30° 33′ 10″	0.50833183	0.86116128	0.590286450	1.694092758	1.161222672	1.967218918
30° 33′ 20″	0.50837358	0.86113663	0.590351826	1.693905152	1.161255906	1.967057362
30° 33′ 30″	0.50841533	0.86111198	0.590417206	1.693717578	1.161289144	1.966895837
30° 33′ 40″	0.50845708	0.86108734	0.590482589	1.693530035	1.161322388	1.966734344
30° 33′ 50″	0.50849883	0.86106268	0.590547977	1.693342522	1.161355636	1.966572881
30° 34′ 00″	0.50854057	0.86103803	0.590613368	1.693155040	1.161388888	1.966411450
30° 34′ 10″	0.50858231	0.86101337	0.590678762	1.692967589	1.161422146	1.966250050
30° 34′ 20″	0.50862406	0.86098872	0.590744161	1.692780169	1.161455407	1.966088681
30° 34′ 30″	0.50866580	0.86096406	0.590809563	1.692592779	1.161488674	1.965927343
30° 34′ 40″	0.50870754	0.86093939	0.590874969	1.692405420	1.161521945	1.965766036
30° 34′ 50″	0.50874928	0.86091473	0.590940379	1.692218092	1.161555221	1.965604760
30° 35′ 00″	0.50879101	0.86089006	0.591005792	1.692030795	1.161588501	1.965443515
30° 35′ 10″	0.50883275	0.86086540	0.591071209	1.691843528	1.161621786	1.965282301
30° 35′ 20″	0.50887449	0.86084073	0.591136630	1.691656292	1.161655076	1.965121119
30° 35′ 30″	0.50891622	0.86081605	0.591202055	1.691469087	1.161688370	1.964959967
30° 35′ 40″	0.50895795	0.86079138	0.591267483	1.691281913	1.161721669	1.964798847
30° 35′ 50″	0.50899969	0.86076671	0.591332915	1.691094769	1.161754973	1.964637757
30° 36′ 00″	0.50904142	0.86074203	0.591398351	1.690907656	1.161788281	1.964476699
30° 36′ 10″	0.50908315	0.86071735	0.591463791	1.690720573	1.161821594	1.964315671
30° 36′ 20″	0.50912487	0.86069266	0.591529235	1.690533522	1.161854911	1.964154675
30° 36′ 30″	0.50916660	0.86066798	0.591594682	1.690346500	1.161888234	1.963993710
30° 36′ 40″	0.50920833	0.86064329	0.591660133	1.690159510	1.161921560	1.963832775
30° 36′ 50″	0.50925005	0.86061861	0.591725587	1.689972550	1.161954892	1.963671872
30° 37′ 00″	0.50929177	0.86059392	0.591791046	1.689785621	1.161988228	1.963510999
30° 37′ 10″	0.50933350	0.86056922	0.591856508	1.689598722	1.162021569	1.963350158
30° 37′ 20″	0.50937522	0.86054453	0.591921974	1.689411854	1.162054914	1.963189347
30° 37′ 30″	0.50941694	0.86051983	0.591987444	1.689225017	1.162088264	1.963028568
30° 37′ 40″	0.50945866	0.86049514	0.592052917	1.689038210	1.162121619	1.962867819
30° 37′ 50″	0.50950037	0.86047044	0.592118395	1.688851434	1.162154978	1.962707102
30° 38′ 00″	0.50954209	0.86044573	0.592183876	1.688664689	1.162188342	1.962546415
30° 38′ 10″	0.50958380	0.86042103	0.592249360	1.688477974	1.162221711	1.962385759
30° 38′ 20″	0.50962552	0.86039632	0.592314849	1.688291289	1.162255084	1.962225134
30° 38′ 30″	0.50966723	0.86037161	0.592380341	1.688104635	1.162288462	1.962064540
30° 38′ 40″	0.50970894	0.86034690	0.592445837	1.687918012	1.162321844	1.961903977
30° 38′ 50″	0.50975065	0.86032219	0.592511337	1.687731419	1.162355232	1.961743445
30° 39′ 00″	0.50979236	0.86029748	0.592576841	1.687544857	1.162388624	1.961582944
30° 39′ 10″	0.50983407	0.86027276	0.592642348	1.687358325	1.162422020	1.961422473
30° 39′ 20″	0.50987578	0.86024804	0.592707859	1.687171824	1.162455421	1.961262034
30° 39′ 30″	0.50991748	0.86022332	0.592773374	1.686985353	1.162488827	1.961101625
30° 39′ 40″	0.50995918	0.86019860	0.592838893	1.686798913	1.162522238	1.960941247
30° 39′ 50″	0.51000089	0.86017387	0.592904415	1.686612504	1.162555653	1.960780900

230 30° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
30° 40′ 00″	0.51004259	0.86014915	0.592969941	1.686426124	1.162589072	1.960620584
30° 40′ 10″	0.51008429	0.86012442	0.593035471	1.686239776	1.162622497	1.960460298
30° 40′ 20″	0.51012599	0.86009969	0.593101005	1.686053457	1.162655926	1.960300044
30° 40′ 30″	0.51016769	0.86007496	0.593166542	1.685867169	1.162689360	1.960139820
30° 40′ 40″	0.51020939	0.86005022	0.593232084	1.685680912	1.162722798	1.959979627
30° 40′ 50″	0.51025108	0.86002548	0.593297629	1.685494685	1.162756241	1.959819465
30° 41′ 00″	0.51029278	0.86000075	0.593363178	1.685308489	1.162789689	1.959659333
30° 41′ 10″	0.51033447	0.85997601	0.593428730	1.685122323	1.162823141	1.959499232
30° 41′ 20″	0.51037616	0.85995126	0.593494286	1.684936187	1.162856598	1.959339163
30° 41′ 30″	0.51041785	0.85992652	0.593559847	1.684750082	1.162890060	1.959179123
30° 41′ 40″	0.51045954	0.85990177	0.593625410	1.684564007	1.162923526	1.959019115
30° 41′ 50″	0.51050123	0.85987702	0.593690978	1.684377962	1.162956997	1.958859137
30° 42′ 00″	0.51054292	0.85985227	0.593756550	1.684191948	1.162990473	1.958699190
30° 42′ 10″	0.51058460	0.85982752	0.593822125	1.684005965	1.163023953	1.958539274
30° 42′ 20″	0.51062629	0.85980276	0.593887704	1.683820011	1.163057438	1.958379389
30° 42′ 30″	0.51066797	0.85977801	0.593953287	1.683634088	1.163090928	1.958219534
30° 42′ 40″	0.51070966	0.85975325	0.594018873	1.683448196	1.163124422	1.958059710
30° 42′ 50″	0.51075134	0.85972849	0.594084463	1.683262333	1.163157921	1.957899916
30° 43′ 00″	0.51079302	0.85970372	0.594150057	1.683076501	1.163191425	1.957740154
30° 43′ 10″	0.51083470	0.85967896	0.594215655	1.682890700	1.163224933	1.957580422
30° 43′ 20″	0.51087637	0.85965419	0.594281257	1.682704928	1.163258446	1.957420720
30° 43′ 30″	0.51091805	0.85962942	0.594346862	1.682519187	1.163291964	1.957261050
30° 43′ 40″	0.51095973	0.85960465	0.594412472	1.682333477	1.163325486	1.957101409
30° 43′ 50″	0.51100140	0.85957988	0.594478085	1.682147796	1.163359013	1.956941800
30° 44′ 00″	0.51104307	0.85955510	0.594543701	1.681962146	1.163392545	1.956782221
30° 44′ 10″	0.51108475	0.85953033	0.594609322	1.681776526	1.163426081	1.956622673
30° 44′ 20″	0.51112642	0.85950555	0.594674946	1.681590937	1.163459622	1.956463155
30° 44′ 30″	0.51116809	0.85948077	0.594740574	1.681405377	1.163493168	1.956303668
30° 44′ 40″	0.51120975	0.85945598	0.594806206	1.681219848	1.163526718	1.956144212
30° 44′ 50″	0.51125142	0.85943120	0.594871842	1.681034349	1.163560273	1.955984786
30° 45′ 00″	0.51129309	0.85940641	0.594937482	1.680848881	1.163593832	1.955825391
30° 45′ 10″	0.51133475	0.85938162	0.595003125	1.680663442	1.163627397	1.955666026
30° 45′ 20″	0.51137641	0.85935683	0.595068772	1.680478034	1.163660966	1.955506692
30° 45′ 30″	0.51141808	0.85933204	0.595134423	1.680292656	1.163694539	1.955347389
30° 45′ 40″	0.51145974	0.85930724	0.595200077	1.680107309	1.163728118	1.955188116
30° 45′ 50″	0.51150140	0.85928245	0.595265736	1.679921991	1.163761701	1.955028873
30° 46′ 00″	0.51154306	0.85925765	0.595331398	1.679736704	1.163795288	1.954869661
30° 46′ 10″ 30° 46′ 20″	0.51158471	0.85923284	0.595397064	1.679551446	1.163828881	1.954710480
30° 46′ 20″ 30° 46′ 30″	0.51162637	0.85920804	0.595462734	1.679366219	1.163862478	1.954551329
30° 46′ 40″	0.51166802	0.85918324	0.595528407	1.679181022	1.163896080	1.954392209
30° 46′ 40″ 30° 46′ 50″	0.51170968	0.85915843 0.85913362	0.595594085 0.595659766	1.678995856 1.678810719	1.163929686 1.163963297	1.954233119 1.954074060
30° 47′ 00″	0.51175133	0.85910881	0.595725451	1.678625613	1.163963297	1.953915031
30° 47′ 10″	0.51177278	0.85908399	0.595791140	1.678440536	1.163776713	1.953756032
30° 47′ 10′′′ 30° 47′ 20′′′	0.51187628	0.85905918	0.595856832	1.678255490	1.164064158	1.953597064
30° 47′ 30″	0.51191793	0.85903436	0.595922529	1.678070474	1.164097788	1.953438127
30° 47′ 40″	0.51171773	0.85703436	0.595988229	1.677885488	1.164131422	1.953279220
30° 47′ 50″	0.51200122	0.85898472	0.596053933	1.677700532	1.164165062	1.953120343
JU 71 JU	0.31200122	0.030/04/2	0.3/0033/33	1.0///00332	1,104103002	1,/33140343

231 30° 47′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
30° 48′ 00″	0.51204286	0.85895990	0.596119640	1.677515606	1.164198705	1.952961497
30° 48′ 10″	0.51208451	0.85893507	0.596185352	1.677330711	1.164232354	1.952802681
30° 48′ 20″	0.51212615	0.85891024	0.596251067	1.677145845	1.164266007	1.952643896
30° 48′ 30″	0.51216779	0.85888541	0.596316786	1.676961009	1.164299665	1.952485141
30° 48′ 40″	0.51220943	0.85886058	0.596382509	1.676776204	1.164333327	1.952326417
30° 48′ 50″	0.51225107	0.85883575	0.596448236	1.676591428	1.164366995	1.952167723
30° 49′ 00″	0.51229270	0.85881091	0.596513967	1.676406683	1.164400667	1.952009059
30° 49′ 10″	0.51233434	0.85878608	0.596579701	1.676221967	1.164434343	1.951850426
30° 49′ 20″	0.51237597	0.85876124	0.596645439	1.676037282	1.164468024	1.951691823
30° 49′ 30″	0.51241761	0.85873639	0.596711181	1.675852626	1.164501710	1.951533250
30° 49′ 40″	0.51245924	0.85871155	0.596776927	1.675668001	1.164535401	1.951374708
30° 49′ 50″	0.51250087	0.85868670	0.596842676	1.675483406	1.164569096	1.951216196
30° 50′ 00″	0.51254250	0.85866186	0.596908430	1.675298840	1.164602796	1.951057714
30° 50′ 10″	0.51258413	0.85863701	0.596974187	1.675114305	1.164636501	1.950899263
30° 50′ 20″	0.51262576	0.85861216	0.597039948	1.674929799	1.164670211	1.950740842
30° 50′ 30″	0.51266738	0.85858730	0.597105713	1.674745324	1.164703925	1.950582451
30° 50′ 40″	0.51270901	0.85856245	0.597171481	1.674560878	1.164737643	1.950424091
30° 50′ 50″	0.51275063	0.85853759	0.597237254	1.674376462	1.164771367	1.950265761
30° 51′ 00″	0.51279225	0.85851273	0.597303030	1.674192077	1.164805095	1.950107461
30° 51′ 10″	0.51283387	0.85848787	0.597368810	1.674007721	1.164838828	1.949949192
30° 51′ 20″	0.51287550	0.85846300	0.597434594	1.673823395	1.164872565	1.949790952
30° 51′ 30″	0.51291711	0.85843814	0.597500381	1.673639099	1.164906308	1.949632744
30° 51′ 40″	0.51295873	0.85841327	0.597566173	1.673454833	1.164940055	1.949474565
30° 51′ 50″	0.51300035	0.85838840	0.597631968	1.673270597	1.164973806	1.949316416
30° 52′ 00″	0.51304196	0.85836353	0.597697767	1.673086391	1.165007563	1.949158298
30° 52′ 10″	0.51308358	0.85833865	0.597763570	1.672902215	1.165041324	1.949000210
30° 52′ 20″	0.51312519	0.85831378	0.597829377	1.672718068	1.165075089	1.948842152
30° 52′ 30″	0.51316680	0.85828890	0.597895187	1.672533951	1.165108860	1.948684125
30° 52′ 40″	0.51320841	0.85826402	0.597961002	1.672349865	1.165142635	1.948526128
30° 52′ 50″	0.51325002	0.85823914	0.598026820	1.672165808	1.165176415	1.948368160
30° 53′ 00″	0.51329163	0.85821425	0.598092642	1.671981781	1.165210199	1.948210224
30° 53′ 10″	0.51333324	0.85818937	0.598158467	1.671797783	1.165243988	1.948052317
30° 53′ 20″	0.51337484	0.85816448	0.598224297	1.671613816	1.165277782	1.947894440
30° 53′ 30″	0.51341645	0.85813959	0.598290130	1.671429878	1.165311581	1.947736594
30° 53′ 40″	0.51345805	0.85811470	0.598355968	1.671245971	1.165345384	1.947578778
30° 53′ 50″	0.51349965	0.85808980	0.598421809	1.671062093	1.165379192	1.947420991
30° 54′ 00″	0.51354125	0.85806491	0.598487654	1.670878245	1.165413005	1.947263235
30° 54′ 10″	0.51358285	0.85804001	0.598553502	1.670694426	1.165446822	1.947105510
30° 54′ 20″	0.51362445	0.85801511	0.598619355	1.670510637	1.165480644	1.946947814
30° 54′ 30″	0.51366605	0.85799021	0.598685211	1.670326879	1.165514471	1.946790148
30° 54′ 40″	0.51370764	0.85796530	0.598751071	1.670143149	1.165548302	1.946632513
30° 54′ 50″	0.51374924	0.85794039	0.598816935	1.669959450	1.165582139	1.946474907
30° 55′ 00″	0.51379083	0.85791549	0.598882803	1.669775780	1.165615980	1.946317332
30° 55′ 10″	0.51383242	0.85789058	0.598948675	1.669592141	1.165649825	1.946159787
30° 55′ 20″	0.51387401	0.85786566	0.599014550	1.669408530	1.165683676	1.946002272
30° 55′ 30″	0.51391560	0.85784075	0.599080430	1.669224950	1.165717531	1.945844787
30° 55′ 40″	0.51395719	0.85781583	0.599146313	1.669041399	1.165751390	1.945687332
30° 55′ 50″	0.51399878	0.85779091	0.599212200	1.668857878	1.165785255	1.945529907

232 30° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
30° 56′ 00″	0.51404037	0.85776599	0.599278090	1.668674387	1.165819124	1.945372512
30° 56′ 10″	0.51408195	0.85774107	0.599343985	1.668490925	1.165852998	1.945215147
30° 56′ 20″	0.51412354	0.85771615	0.599409883	1.668307493	1.165886876	1.945057812
30° 56′ 30″	0.51416512	0.85769122	0.599475786	1.668124091	1.165920760	1.944900507
30° 56′ 40″	0.51420670	0.85766629	0.599541692	1.667940718	1.165954648	1.944743232
30° 56′ 50″	0.51424828	0.85764136	0.599607602	1.667757375	1.165988540	1.944585988
30° 57′ 00″	0.51428986	0.85761643	0.599673515	1.667574062	1.166022438	1.944428773
30° 57′ 10″	0.51433144	0.85759150	0.599739433	1.667390778	1.166056340	1.944271588
30° 57′ 20″	0.51437301	0.85756656	0.599805354	1.667207524	1.166090247	1.944114433
30° 57′ 30″	0.51441459	0.85754162	0.599871280	1.667024300	1.166124158	1.943957308
30° 57′ 40″	0.51445616	0.85751668	0.599937209	1.666841105	1.166158074	1.943800213
30° 57′ 50″	0.51449774	0.85749174	0.600003142	1.666657940	1.166191995	1.943643148
30° 58′ 00″	0.51453931	0.85746679	0.600069078	1.666474804	1.166225921	1.943486113
30° 58′ 10″	0.51458088	0.85744185	0.600135019	1.666291698	1.166259851	1.943329108
30° 58′ 20″	0.51462245	0.85741690	0.600200963	1.666108622	1.166293787	1.943172133
30° 58′ 30″	0.51466402	0.85739195	0.600266912	1.665925575	1.166327726	1.943015188
30° 58′ 40″	0.51470558	0.85736699	0.600332864	1.665742557	1.166361671	1.942858273
30° 58′ 50″	0.51474715	0.85734204	0.600398820	1.665559570	1.166395620	1.942701387
30° 59′ 00″	0.51478871	0.85731708	0.600464780	1.665376612	1.166429574	1.942544532
30° 59′ 10″	0.51483028	0.85729212	0.600530743	1.665193683	1.166463533	1.942387706
30° 59′ 20″	0.51487184	0.85726716	0.600596711	1.665010784	1.166497496	1.942230911
30° 59′ 30″	0.51491340	0.85724220	0.600662682	1.664827914	1.166531464	1.942074145
30° 59′ 40″	0.51495496	0.85721724	0.600728657	1.664645074	1.166565437	1.941917409
30° 59′ 50″	0.51499652	0.85719227	0.600794636	1.664462263	1.166599415	1.941760703
31° 00′ 00″	0.51503807	0.85716730	0.600860619	1.664279482	1.166633397	1.941604026
31° 00′ 10″	0.51507963	0.85714233	0.600926606	1.664096731	1.166667384	1.941447380
31° 00′ 20″	0.51512119	0.85711736	0.600992596	1.663914009	1.166701376	1.941290763
31° 00′ 30″	0.51516274	0.85709238	0.601058591	1.663731316	1.166735372	1.941134177
31° 00′ 40″	0.51520429	0.85706741	0.601124589	1.663548653	1.166769374	1.940977620
31° 00′ 50″	0.51524584	0.85704243	0.601190591	1.663366019	1.166803380	1.940821093
31° 01′ 00″	0.51528739	0.85701745	0.601256597	1.663183415	1.166837390	1.940664595
31° 01′ 10″	0.51532894	0.85699246	0.601322607	1.663000840	1.166871406	1.940508128
31° 01′ 20″	0.51537049	0.85696748	0.601388620	1.662818295	1.166905426	1.940351690
31° 01′ 30″	0.51541204	0.85694249	0.601454638	1.662635779	1.166939451	1.940195282
31° 01′ 40″	0.51545358	0.85691750	0.601520659	1.662453292	1.166973480	1.940038904
31° 01′ 50″ 31° 02′ 00″	0.51549512	0.85689251	0.601586684	1.662270835	1.167007514	1.939882556
	0.51553667	0.85686752	0.601652713	1.662088408	1.167041553	1.939726237
31° 02′ 10″ 31° 02′ 20″	0.51557821	0.85684252	0.601718746	1.661906009	1.167075597	1.939569948
	0.51561975	0.85681753	0.601784783	1.661723640	1.167109646	1.939413689
31° 02′ 30″ 31° 02′ 40″	0.51566129	0.85679253	0.601850823	1.661541301	1.167143699	1.939257460
	0.51570283	0.85676753	0.601916868	1.661358991	1.167177757	1.939101260
31° 02′ 50″ 31° 03′ 00″	0.51574436	0.85674252	0.601982916	1.661176710	1.167211819	1.938945090
31° 03′ 00″ 31° 03′ 10″		0.85671752 0.85669251	0.602048968	1.660994459 1.660812237	1.167245887	1.938788950
31° 03′ 10″ 31° 03′ 20″	0.51582743		0.602115024		1.167279959	1.938632839 1.938476758
31° 03′ 20″ 31° 03′ 30″	0.51586897	0.85666750 0.85664249	0.602181084	1.660630044	1.167314036	
31° 03′ 30″ 31° 03′ 40″	0.51591050 0.51595203	0.85661748	0.602247148 0.602313215	1.660447880 1.660265746	1.167348117 1.167382204	1.938320707 1.938164686
31° 03′ 50″	0.5159356	0.85659246	0.602379287	1.660263746	1.167382204	1.938008694
=======================================	0.313/7330	0.03037240	0.0043/740/	1.000003042	1.10/410473	1./30000074

233 31° 03′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
31° 04′ 00″	0.51603509	0.85656745	0.602445362	1.659901566	1.167450390	1.937852732
31° 04′ 10″	0.51607661	0.85654243	0.602511441	1.659719520	1.167484491	1.937696799
31° 04′ 20″	0.51611814	0.85651741	0.602577524	1.659537503	1.167518596	1.937540896
31° 04′ 30″	0.51615966	0.85649238	0.602643611	1.659355516	1.167552706	1.937385023
31° 04′ 40″	0.51620119	0.85646736	0.602709702	1.659173557	1.167586821	1.937229179
31° 04′ 50″	0.51624271	0.85644233	0.602775796	1.658991628	1.167620941	1.937073365
31° 05′ 00″	0.51628423	0.85641730	0.602841895	1.658809729	1.167655065	1.936917581
31° 05′ 10″	0.51632575	0.85639227	0.602907997	1.658627858	1.167689194	1.936761826
31° 05′ 20″	0.51636727	0.85636724	0.602974103	1.658446017	1.167723327	1.936606101
31° 05′ 30″	0.51640878	0.85634220	0.603040213	1.658264205	1.167757466	1.936450406
31° 05′ 40″	0.51645030	0.85631717	0.603106327	1.658082422	1.167791609	1.936294740
31° 05′ 50″	0.51649182	0.85629213	0.603172445	1.657900669	1.167825757	1.936139103
31° 06′ 00″	0.51653333	0.85626708	0.603238567	1.657718944	1.167859910	1.935983496
31° 06′ 10″	0.51657484	0.85624204	0.603304692	1.657537249	1.167894067	1.935827919
31° 06′ 20″	0.51661635	0.85621700	0.603370822	1.657355583	1.167928229	1.935672371
31° 06′ 30″	0.51665786	0.85619195	0.603436955	1.657173946	1.167962396	1.935516853
31° 06′ 40″	0.51669937	0.85616690	0.603503092	1.656992339	1.167996568	1.935361365
31° 06′ 50″	0.51674088	0.85614185	0.603569233	1.656810761	1.168030744	1.935205905
31° 07′ 00″	0.51678239	0.85611679	0.603635378	1.656629211	1.168064925	1.935050476
31° 07′ 10″	0.51682389	0.85609174	0.603701527	1.656447691	1.168099111	1.934895076
31° 07′ 20″	0.51686539	0.85606668	0.603767679	1.656266200	1.168133302	1.934739705
31° 07′ 30″	0.51690690	0.85604162	0.603833836	1.656084739	1.168167497	1.934584364
31° 07′ 40″	0.51694840	0.85601656	0.603899996	1.655903306	1.168201697	1.934429052
31° 07′ 50″	0.51698990	0.85599150	0.603966160	1.655721903	1.168235902	1.934273770
31° 08′ 00″	0.51703140	0.85596643	0.604032328	1.655540528	1.168270112	1.934118518
31° 08′ 10″	0.51707290	0.85594137	0.604098500	1.655359183	1.168304326	1.933963295
31° 08′ 20″	0.51711439	0.85591630	0.604164676	1.655177867	1.168338545	1.933808101
31° 08′ 30″	0.51715589	0.85589122	0.604230856	1.654996580	1.168372769	1.933652937
31° 08′ 40″	0.51719738	0.85586615	0.604297040	1.654815322	1.168406998	1.933497802
31° 08′ 50″	0.51723887	0.85584108	0.604363227	1.654634093	1.168441231	1.933342696
31° 09′ 00″	0.51728037	0.85581600	0.604429418	1.654452893	1.168475469	1.933187620
31° 09′ 10″	0.51732186	0.85579092	0.604495614	1.654271722	1.168509712	1.933032574
31° 09′ 20″ 31° 09′ 30″	0.51736335	0.85576584	0.604561813	1.654090581	1.168543960	1.932877557
31° 09′ 40″	0.51740483	0.85574075 0.85571567	0.604628016 0.604694223	1.653909468 1.653728385	1.168578212 1.168612469	1.932722569 1.932567611
31° 09′ 50″	0.51744632	0.85569058	0.604674223	1.653547330	1.168646731	1.932412682
31° 10′ 00″	0.51748781	0.85566549	0.604760433	1.653366304	1.168680998	1.932257782
31° 10′ 10″	0.51752727	0.85564040	0.604892867	1.653185308	1.168715269	1.932102912
31° 10′ 10″	0.51757077	0.85561531	0.604672667	1.653004340	1.168749545	1.931948071
31° 10′ 30″	0.51761226	0.85559021	0.605025315	1.652823402	1.168747343	1.931793260
31° 10′ 40″	0.51769522	0.85556511	0.605023313	1.652642492	1.168818112	1.931638478
31° 10′ 50″	0.51767322	0.85554001	0.605071546	1.652461612	1.168852402	1.731636476
31° 10′ 30″	0.51773807	0.85551491	0.605224018	1.652280760	1.168886697	1.931329001
31° 11′ 10″	0.51777817	0.85548981	0.605290259	1.652099938	1.168920997	1.931174307
31° 11′ 20″	0.51781763	0.85546470	0.605356505	1.651919144	1.168955302	1.931019642
31° 11′ 30″	0.51780112	0.85543960	0.605422755	1.651738380	1.168733302	1.930865007
31° 11′ 40″	0.51770200	0.85541449	0.605489008	1.651557644	1.169023926	1.930710401
31° 11′ 50″	0.51774407	0.85538937	0.605555266	1.651376937	1.169058245	1.930555824
	J.51770554	2.03330737	2.003333200	1.031370737	1.107030213	,50555024

234 31° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
31° 12′ 00″	0.51802701	0.85536426	0.605621527	1.651196259	1.169092569	1.930401276
31° 12′ 10″	0.51806848	0.85533914	0.605687792	1.651015611	1.169126897	1.930246758
31° 12′ 20″	0.51810995	0.85531403	0.605754061	1.650834991	1.169161230	1.930092269
31° 12′ 30″	0.51815141	0.85528891	0.605820334	1.650654400	1.169195568	1.929937809
31° 12′ 40″	0.51819288	0.85526379	0.605886611	1.650473837	1.169229911	1.929783378
31° 12′ 50″	0.51823434	0.85523866	0.605952892	1.650293304	1.169264259	1.929628977
31° 13′ 00″	0.51827580	0.85521354	0.606019176	1.650112800	1.169298611	1.929474605
31° 13′ 10″	0.51831726	0.85518841	0.606085465	1.649932324	1.169332968	1.929320262
31° 13′ 20″	0.51835872	0.85516328	0.606151757	1.649751878	1.169367330	1.929165949
31° 13′ 30″	0.51840018	0.85513815	0.606218054	1.649571460	1.169401697	1.929011664
31° 13′ 40″	0.51844164	0.85511301	0.606284354	1.649391071	1.169436068	1.928857409
31° 13′ 50″	0.51848310	0.85508788	0.606350658	1.649210711	1.169470445	1.928703183
31° 14′ 00″	0.51852455	0.85506274	0.606416966	1.649030380	1.169504826	1.928548986
31° 14′ 10″	0.51856601	0.85503760	0.606483278	1.648850077	1.169539211	1.928394819
31° 14′ 20″	0.51860746	0.85501246	0.606549594	1.648669804	1.169573602	1.928240680
31° 14′ 30″	0.51864891	0.85498731	0.606615914	1.648489559	1.169607997	1.928086571
31° 14′ 40″	0.51869036	0.85496217	0.606682237	1.648309343	1.169642397	1.927932491
31° 14′ 50″	0.51873181	0.85493702	0.606748565	1.648129156	1.169676802	1.927778440
31° 15′ 00″	0.51877326	0.85491187	0.606814896	1.647948997	1.169711212	1.927624418
31° 15′ 10″	0.51881470	0.85488672	0.606881232	1.647768868	1.169745626	1.927470426
31° 15′ 20″	0.51885615	0.85486156	0.606947571	1.647588767	1.169780045	1.927316462
31° 15′ 30″	0.51889759	0.85483641	0.607013914	1.647408695	1.169814469	1.927162528
31° 15′ 40″	0.51893904	0.85481125	0.607080261	1.647228652	1.169848898	1.927008623
31° 15′ 50″	0.51898048	0.85478609	0.607146612	1.647048637	1.169883331	1.926854746
31° 16′ 00″	0.51902192	0.85476093	0.607212967	1.646868652	1.169917769	1.926700899
31° 16′ 10″	0.51906336	0.85473577	0.607279326	1.646688694	1.169952212	1.926547081
31° 16′ 20″	0.51910480	0.85471060	0.607345688	1.646508766	1.169986660	1.926393292
31° 16′ 30″	0.51914623	0.85468543	0.607412055	1.646328867	1.170021113	1.926239533
31° 16′ 40″	0.51918767	0.85466026	0.607478425	1.646148996	1.170055570	1.926085802
31° 16′ 50″	0.51922910	0.85463509	0.607544800	1.645969154	1.170090032	1.925932100
31° 17′ 00″	0.51927054	0.85460992	0.607611178	1.645789340	1.170124499	1.925778428
31° 17′ 10″	0.51931197	0.85458474	0.607677560	1.645609555	1.170158971	1.925624784
31° 17′ 20″	0.51935340	0.85455956	0.607743947	1.645429799	1.170193447	1.925471170
31° 17′ 30″	0.51939483	0.85453438	0.607810337	1.645250072	1.170227929	1.925317584
31° 17′ 40″	0.51943626	0.85450920	0.607876731	1.645070373	1.170262415	1.925164028
31° 17′ 50″	0.51947769	0.85448402	0.607943128	1.644890703	1.170296906	1.925010500
31° 18′ 00″	0.51951911	0.85445883	0.608009530	1.644711062	1.170331401	1.924857002
31° 18′ 10″	0.51956054	0.85443364	0.608075936	1.644531449	1.170365902	1.924703532
31° 18′ 20″	0.51960196	0.85440845	0.608142346	1.644351865	1.170400407	1.924550092
31° 18′ 30″	0.51964338	0.85438326	0.608208759	1.644172309	1.170434917	1.924396680
31° 18′ 40″	0.51968480	0.85435807	0.608275177	1.643992783	1.170469432	1.924243298
31° 18′ 50″	0.51972622	0.85433287	0.608341598	1.643813284	1.170503951	1.924089944
31° 19′ 00″	0.51976764	0.85430767	0.608408023	1.643633815	1.170538476	1.923936620
31° 19′ 10″ 31° 19′ 20″	0.51980906	0.85428247	0.608474452	1.643454374	1.170573005 1.170607539	1.923783324
31° 19′ 20″ 31° 19′ 30″	0.51985048	0.85425727	0.608540885	1.643274961		1.923630057
31° 19′ 30″ 31° 19′ 40″	0.51989189	0.85423207	0.608607323	1.643095577	1.170642077	1.923476820
31° 19′ 40″ 31° 19′ 50″	0.51993330	0.85420686 0.85418165	0.608673764 0.608740208	1.642916222 1.642736895	1.170676621 1.170711169	1.923323611 1.923170431
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235 31° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
31° 20′ 00″	0.52001613	0.85415644	0.608806657	1.642557597	1.170745722	1.923017280
31° 20′ 10″	0.52005754	0.85413123	0.608873110	1.642378328	1.170780280	1.922864158
31° 20′ 20″	0.52009895	0.85410602	0.608939567	1.642199087	1.170814843	1.922711065
31° 20′ 30″	0.52014035	0.85408080	0.609006027	1.642019874	1.170849410	1.922558001
31° 20′ 40″	0.52018176	0.85405558	0.609072492	1.641840690	1.170883982	1.922404965
31° 20′ 50″	0.52022317	0.85403036	0.609138960	1.641661535	1.170918559	1.922251959
31° 21′ 00″	0.52026457	0.85400514	0.609205432	1.641482408	1.170953141	1.922098981
31° 21′ 10″	0.52030597	0.85397991	0.609271909	1.641303309	1.170987728	1.921946033
31° 21′ 20″	0.52034737	0.85395469	0.609338389	1.641124239	1.171022319	1.921793113
31° 21′ 30″	0.52038877	0.85392946	0.609404873	1.640945198	1.171056916	1.921640222
31° 21′ 40″	0.52043017	0.85390423	0.609471361	1.640766185	1.171091517	1.921487360
31° 21′ 50″	0.52047157	0.85387900	0.609537853	1.640587200	1.171126122	1.921334526
31° 22′ 00″	0.52051297	0.85385376	0.609604349	1.640408244	1.171160733	1.921181722
31° 22′ 10″	0.52055436	0.85382853	0.609670849	1.640229317	1.171195348	1.921028946
31° 22′ 20″	0.52059576	0.85380329	0.609737353	1.640050418	1.171229969	1.920876199
31° 22′ 30″	0.52063715	0.85377805	0.609803860	1.639871547	1.171264594	1.920723481
31° 22′ 40″	0.52067854	0.85375281	0.609870372	1.639692705	1.171299223	1.920570792
31° 22′ 50″	0.52071993	0.85372756	0.609936888	1.639513891	1.171333858	1.920418131
31° 23′ 00″	0.52076132	0.85370232	0.610003407	1.639335106	1.171368497	1.920265500
31° 23′ 10″	0.52080271	0.85367707	0.610069931	1.639156349	1.171403142	1.920112897
31° 23′ 20″	0.52084410	0.85365182	0.610136458	1.638977620	1.171437791	1.919960322
31° 23′ 30″	0.52088548	0.85362657	0.610202989	1.638798920	1.171472445	1.919807777
31° 23′ 40″	0.52092687	0.85360131	0.610269525	1.638620248	1.171507103	1.919655260
31° 23′ 50″	0.52096825	0.85357606	0.610336064	1.638441605	1.171541767	1.919502772
31° 24′ 00″	0.52100963	0.85355080	0.610402607	1.638262990	1.171576435	1.919350313
31° 24′ 10″	0.52105101	0.85352554	0.610469154	1.638084403	1.171611108	1.919197883
31° 24′ 20″	0.52109239	0.85350027	0.610535705	1.637905845	1.171645786	1.919045481
31° 24′ 30″	0.52113377	0.85347501	0.610602260	1.637727315	1.171680468	1.918893108
31° 24′ 40″	0.52117515	0.85344974	0.610668819	1.637548814	1.171715156	1.918740763
31° 24′ 50″	0.52121652	0.85342448	0.610735382	1.637370341	1.171749848	1.918588448
31° 25′ 00″	0.52125790	0.85339921	0.610801949	1.637191896	1.171784545	1.918436161
31° 25′ 10″	0.52129927	0.85337393	0.610868519	1.637013479	1.171819247	1.918283903
31° 25′ 20″	0.52134064	0.85334866	0.610935094	1.636835091	1.171853954	1.918131673
31° 25′ 30″	0.52138201	0.85332338	0.611001673	1.636656731	1.171888665	1.917979472
31° 25′ 40″	0.52142338	0.85329810	0.611068255	1.636478399	1.171923382	1.917827300
31° 25′ 50″ 31° 26′ 00″	0.52146475	0.85327282	0.611134842	1.636300096	1.171958103	1.917675156
	0.52150612	0.85324754	0.611201432	1.636121821	1.171992829	1.917523041
31° 26′ 10″	0.52154749	0.85322226	0.611268026	1.635943574	1.172027559	1.917370955
31° 26′ 20″ 31° 26′ 30″	0.52158885	0.85319697	0.611334625	1.635765356	1.172062295	1.917218897
31° 26′ 30″ 31° 26′ 40″	0.52163021	0.85317168	0.611401227	1.635587166	1.172097035	1.917066868
31° 26′ 40″ 31° 26′ 50″	0.52167158 0.52171294	0.85314639 0.85312110	0.611467833	1.635409004 1.635230870	1.172131781	1.916914868
31° 26′ 30″ 31° 27′ 00″	0.52171294	0.85309581	0.611534443		1.172166531 1.172201285	1.916762896 1.916610952
31° 27′ 10″	0.52175430	0.85307581	0.611601058 0.611667676	1.635052765 1.634874687	1.172236045	1.916459038
31° 27′ 10″	0.52179366	0.85307051	0.611734298	1.634674687	1.172270810	1.916307152
31° 27′ 30″	0.52187837	0.85304521	0.611734298	1.634518618	1.172270810	1.916307132
31° 27′ 40″	0.52191972	0.85299461	0.611867554	1.634340625	1.172340353	1.916003465
31° 27′ 50″	0.52191772	0.85296930	0.611934188	1.634340623	1.172340333	1.915851665
=======================================	0.32170100	0.032/0/30	0.011/34100	1.034102001	1,174373134	1.7 1303 1003

236 31° 27′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
31° 28′ 00″	0.52200243	0.85294400	0.612000825	1.633984724	1.172409916	1.915699893
31° 28′ 10″	0.52204378	0.85291869	0.612067467	1.633806817	1.172444704	1.915548150
31° 28′ 20″	0.52208513	0.85289338	0.612134113	1.633628937	1.172479498	1.915396435
31° 28′ 30″	0.52212648	0.85286807	0.612200763	1.633451085	1.172514296	1.915244749
31° 28′ 40″	0.52216783	0.85284275	0.612267416	1.633273262	1.172549099	1.915093091
31° 28′ 50″	0.52220917	0.85281744	0.612334074	1.633095466	1.172583907	1.914941462
31° 29′ 00″	0.52225052	0.85279212	0.612400735	1.632917699	1.172618719	1.914789861
31° 29′ 10″	0.52229186	0.85276680	0.612467401	1.632739960	1.172653537	1.914638289
31° 29′ 20″	0.52233321	0.85274147	0.612534071	1.632562249	1.172688359	1.914486745
31° 29′ 30″	0.52237455	0.85271615	0.612600744	1.632384567	1.172723186	1.914335230
31° 29′ 40″	0.52241589	0.85269082	0.612667421	1.632206912	1.172758018	1.914183743
31° 29′ 50″	0.52245723	0.85266549	0.612734103	1.632029286	1.172792855	1.914032285
31° 30′ 00″	0.52249856	0.85264016	0.612800788	1.631851687	1.172827697	1.913880855
31° 30′ 10″	0.52253990	0.85261483	0.612867477	1.631674117	1.172862543	1.913729454
31° 30′ 20″	0.52258124	0.85258950	0.612934171	1.631496575	1.172897394	1.913578081
31° 30′ 30″	0.52262257	0.85256416	0.613000868	1.631319061	1.172932250	1.913426737
31° 30′ 40″	0.52266390	0.85253882	0.613067569	1.631141574	1.172967111	1.913275421
31° 30′ 50″	0.52270524	0.85251348	0.613134274	1.630964117	1.173001977	1.913124133
31° 31′ 00″	0.52274657	0.85248814	0.613200983	1.630786687	1.173036848	1.912972874
31° 31′ 10″	0.52278789	0.85246280	0.613267697	1.630609285	1.173071723	1.912821643
31° 31′ 20″	0.52282922	0.85243745	0.613334414	1.630431911	1.173106603	1.912670441
31° 31′ 30″	0.52287055	0.85241210	0.613401135	1.630254565	1.173141488	1.912519267
31° 31′ 40″	0.52291187	0.85238675	0.613467860	1.630077247	1.173176378	1.912368122
31° 31′ 50″	0.52295320	0.85236140	0.613534589	1.629899958	1.173211273	1.912217004
31° 32′ 00″	0.52299452	0.85233604	0.613601322	1.629722696	1.173246173	1.912065916
31° 32′ 10″	0.52303584	0.85231069	0.613668058	1.629545462	1.173281077	1.911914855
31° 32′ 20″	0.52307716	0.85228533	0.613734799	1.629368257	1.173315986	1.911763823
31° 32′ 30″	0.52311848	0.85225997	0.613801544	1.629191079	1.173350900	1.911612820
31° 32′ 40″	0.52315980	0.85223460	0.613868293	1.629013929	1.173385819	1.911461844
31° 32′ 50″	0.52320112	0.85220924	0.613935046	1.628836808	1.173420743	1.911310897
31° 33′ 00″	0.52324243	0.85218387	0.614001803	1.628659714	1.173455672	1.911159978
31° 33′ 10″	0.52328375	0.85215851	0.614068563	1.628482648	1.173490605	1.911009088
31° 33′ 20″	0.52332506	0.85213313	0.614135328	1.628305610	1.173525543	1.910858226
31° 33′ 30″	0.52336637	0.85210776	0.614202097	1.628128600	1.173560487	1.910707392
31° 33′ 40″	0.52340768	0.85208239	0.614268869	1.627951618	1.173595435	1.910556587
31° 33′ 50″ 31° 34′ 00″	0.52344899	0.85205701	0.614335646	1.627774664	1.173630387	1.910405810
31° 34′ 00″ 31° 34′ 10″	0.52349030	0.85203163	0.614402427	1.627597738	1.173665345	1.910255061
	0.52353161	0.85200625	0.614469211	1.627420840	1.173700307	1.910104340
31° 34′ 20″	0.52357292	0.85198087	0.614536000	1.627243970	1.173735275	1.909953648
31° 34′ 30″ 31° 34′ 40″	0.52361422	0.85195549	0.614602792	1.627067127	1.173770247	1.909802984
31° 34′ 40″ 31° 34′ 50″	0.52365552	0.85193010	0.614669589	1.626890313 1.626713526	1.173805224	1.909652348
31° 34′ 50″ 31° 35′ 00″	0.52369683	0.85190471	0.614736389		1.173840206 1.173875192	1.909501741 1.909351161
31° 35′ 00″ 31° 35′ 10″	0.52373813 0.52377943	0.85187932 0.85185393	0.614803194 0.614870002	1.626536768 1.626360037	1.173875192	1.909351161
31° 35′ 20″	0.52377943	0.85182853	0.614870002	1.626360037	1.173910184	1.909200610
31° 35′ 30″	0.523862072	0.85180314	0.614936813	1.626183334	1.173945180	1.909030087
31° 35′ 40″	0.52390332	0.85177774	0.615070452	1.625830012	1.173780182	1.908749126
31° 35′ 50″	0.52394461	0.85177774	0.615070432	1.625653392	1.174013188	1.908598688
=======================================	0.023/4401	0.03173234	0.013137270	1.023033372	1.17 7030177	1.700370000

237 31° 35′ 50″

	• ()				()	()
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
31° 36′ 00″	0.52398591	0.85172693	0.615204105	1.625476801	1.174085214	1.908448278
31° 36′ 10″	0.52402720	0.85170153	0.615270937	1.625300237	1.174120235	1.908297896
31° 36′ 20″	0.52406849	0.85167612	0.615337773	1.625123701	1.174155260	1.908147543
31° 36′ 30″	0.52410978	0.85165071	0.615404614	1.624947193	1.174190291	1.907997217
31° 36′ 40″	0.52415107	0.85162530	0.615471458	1.624770713	1.174225326	1.907846920
31° 36′ 50″	0.52419236	0.85159989	0.615538307	1.624594261	1.174260366	1.907696651
31° 37′ 00″	0.52423364	0.85157448	0.615605159	1.624417836	1.174295411	1.907546410
31° 37′ 10″	0.52427493	0.85154906	0.615672015	1.624241439	1.174330460	1.907396197
31° 37′ 20″	0.52431621	0.85152364	0.615738876	1.624065070	1.174365515	1.907246012
31° 37′ 30″	0.52435749	0.85149822	0.615805740	1.623888729	1.174400574	1.907095856
31° 37′ 40″	0.52439877	0.85147280	0.615872608	1.623712415	1.174435639	1.906945727
31° 37′ 50″	0.52444005	0.85144737	0.615939481	1.623536129	1.174470708	1.906795627
31° 38′ 00″	0.52448133	0.85142195	0.616006357	1.623359871	1.174505782	1.906645555
31° 38′ 10″	0.52452261	0.85139652	0.616073237	1.623183641	1.174540861	1.906495511
31° 38′ 20″	0.52456389	0.85137109	0.616140121	1.623007438	1.174575944	1.906345495
31° 38′ 30″	0.52460516	0.85134566	0.616207010	1.622831263	1.174611033	1.906195507
31° 38′ 40″	0.52464643	0.85132022	0.616273902	1.622655116	1.174646126	1.906045547
31° 38′ 50″	0.52468771	0.85129478	0.616340798	1.622478997	1.174681225	1.905895615
31° 39′ 00″	0.52472898	0.85126935	0.616407698	1.622302905	1.174716328	1.905745711
31° 39′ 10″	0.52477025	0.85124391	0.616474603	1.622126841	1.174751436	1.905595836
31° 39′ 20″	0.52481152	0.85121846	0.616541511	1.621950805	1.174786549	1.905445988
31° 39′ 30″	0.52485278	0.85119302	0.616608423	1.621774796	1.174821666	1.905296168
31° 39′ 40″	0.52489405	0.85116757	0.616675340	1.621598815	1.174856789	1.905146377
31° 39′ 50″	0.52493532	0.85114212	0.616742260	1.621422862	1.174891916	1.904996613
31° 40′ 00″	0.52497658	0.85111667	0.616809184	1.621246936	1.174927049	1.904846878
31° 40′ 10″	0.52501784	0.85109122	0.616876112	1.621071038	1.174962186	1.904697170
31° 40′ 20″	0.52505910	0.85106577	0.616943045	1.620895168	1.174997328	1.904547491
31° 40′ 30″	0.52510036	0.85104031	0.617009981	1.620719325	1.175032475	1.904397839
31° 40′ 40″	0.52514162	0.85101485	0.617076921	1.620543510	1.175067626	1.904248216
31° 40′ 50″	0.52518288	0.85098939	0.617143866	1.620367723	1.175102783	1.904098620
31° 41′ 00″	0.52522414	0.85096393	0.617210814	1.620191963	1.175137945	1.903949053
31° 41′ 10″	0.52526539	0.85093846	0.617277766	1.620016231	1.175173111	1.903799513
31° 41′ 20″	0.52530665	0.85091300	0.617344723	1.619840526	1.175208282	1.903650002
31° 41′ 30″ 31° 41′ 40″	0.52534790	0.85088753	0.617411683	1.619664849	1.175243458 1.175278639	1.903500518
31° 41′ 40″ 31° 41′ 50″	0.52538915	0.85086206 0.85083658	0.617478647 0.617545616	1.619489199 1.619313578	1.175278639	1.903351063 1.903201635
31° 42′ 00″						
31° 42′ 00″ 31° 42′ 10″	0.52547165	0.85081111	0.617612588	1.619137983	1.175349016	1.903052235 1.902902863
31° 42′ 10″ 31° 42′ 20″	0.52551290	0.85078563	0.617679564	1.618962417	1.175384211	1.902902863
31° 42′ 20″ 31° 42′ 30″	0.52555415	0.85076015 0.85073467	0.617746545	1.618786877	1.175419412	
31° 42′ 30″ 31° 42′ 40″	0.52559539 0.52563664	0.85073467	0.617813529 0.617880517	1.618611366	1.175454617 1.175489827	1.902604203 1.902454915
31° 42′ 40″ 31° 42′ 50″	0.52567788	0.85068371	0.617880317	1.618435882 1.618260425		1.902434913
31° 42′ 50″ 31° 43′ 00″			0.617947510	1.618260425	1.175525042	1.902303633
31° 43′ 00″ 31° 43′ 10″	0.52571912	0.85065822	0.618014506	1.618084996	1.175560262	1.902136422
31° 43′ 10″ 31° 43′ 20″	0.52576036	0.85063273			1.175595487	1.902007218
31° 43′ 20″ 31° 43′ 30″	0.52580160	0.85060724	0.618148511	1.617734221	1.175630717	1.901858041
31° 43′ 30″ 31° 43′ 40″	0.52584284	0.85058175	0.618215520 0.618282532	1.617558874 1.617383555	1.175665951	1.901708893
31° 43′ 40″ 31° 43′ 50″	0.52588407	0.85055625 0.85053076	0.618349549	1.617383333	1.175701191 1.175736435	1.901339772
	0.32372331	0.03033076	0.010347347	1.01/200204	1.173730433	1./014100/7

238 31° 43′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\csc(x)$
31° 44′ 00″	0.52596654	0.85050526	0.618416569	1.617033000	1.175771684	1.901261613
31° 44′ 10″	0.52600778	0.85047976	0.618483594	1.616857763	1.175806938	1.901112576
31° 44′ 20″	0.52604901	0.85045426	0.618550622	1.616682554	1.175842197	1.900963567
31° 44′ 30″	0.52609024	0.85042875	0.618617655	1.616507373	1.175877461	1.900814585
31° 44′ 40″	0.52613147	0.85040324	0.618684691	1.616332219	1.175912730	1.900665631
31° 44′ 50″	0.52617270	0.85037774	0.618751732	1.616157092	1.175948003	1.900516705
31° 45′ 00″	0.52621392	0.85035222	0.618818777	1.615981993	1.175983282	1.900367807
31° 45′ 10″	0.52625515	0.85032671	0.618885825	1.615806921	1.176018565	1.900218936
31° 45′ 20″	0.52629637	0.85030120	0.618952878	1.615631877	1.176053853	1.900070094
31° 45′ 30″	0.52633760	0.85027568	0.619019935	1.615456860	1.176089146	1.899921279
31° 45′ 40″	0.52637882	0.85025016	0.619086996	1.615281870	1.176124444	1.899772492
31° 45′ 50″	0.52642004	0.85022464	0.619154060	1.615106908	1.176159747	1.899623732
31° 46′ 00″	0.52646126	0.85019912	0.619221129	1.614931973	1.176195055	1.899475001
31° 46′ 10″	0.52650248	0.85017360	0.619288202	1.614757066	1.176230367	1.899326297
31° 46′ 20″	0.52654369	0.85014807	0.619355279	1.614582186	1.176265685	1.899177621
31° 46′ 30″	0.52658491	0.85012254	0.619422360	1.614407333	1.176301007	1.899028972
31° 46′ 40″	0.52662612	0.85009701	0.619489445	1.614232508	1.176336335	1.898880352
31° 46′ 50″	0.52666734	0.85007148	0.619556534	1.614057710	1.176371667	1.898731759
31° 47′ 00″	0.52670855	0.85004594	0.619623627	1.613882940	1.176407004	1.898583194
31° 47′ 10″	0.52674976	0.85002041	0.619690724	1.613708197	1.176442346	1.898434656
31° 47′ 20″	0.52679097	0.84999487	0.619757825	1.613533481	1.176477693	1.898286147
31° 47′ 30″	0.52683218	0.84996933	0.619824930	1.613358792	1.176513044	1.898137664
31° 47′ 40″	0.52687339	0.84994378	0.619892039	1.613184131	1.176548401	1.897989210
31° 47′ 50″	0.52691459	0.84991824	0.619959152	1.613009498	1.176583762	1.897840783
31° 48′ 00″	0.52695580	0.84989269	0.620026269	1.612834891	1.176619129	1.897692384
31° 48′ 10″	0.52699700	0.84986714	0.620093390	1.612660312	1.176654500	1.897544013
31° 48′ 20″	0.52703820	0.84984159	0.620160515	1.612485760	1.176689876	1.897395669
31° 48′ 30″	0.52707940	0.84981604	0.620227645	1.612311235	1.176725257	1.897247353
31° 48′ 40″	0.52712060	0.84979049	0.620294778	1.612136738	1.176760643	1.897099065
31° 48′ 50″	0.52716180	0.84976493	0.620361915	1.611962268	1.176796034	1.896950804
31° 49′ 00″	0.52720300	0.84973937	0.620429057	1.611787825	1.176831430	1.896802571
31° 49′ 10″	0.52724419	0.84971381	0.620496202	1.611613409	1.176866831	1.896654365
31° 49′ 20″	0.52728539	0.84968825	0.620563352	1.611439021	1.176902236	1.896506187
31° 49′ 30″	0.52732658	0.84966268	0.620630505	1.611264660	1.176937647	1.896358037
31° 49′ 40″	0.52736777	0.84963712	0.620697663	1.611090326	1.176973062	1.896209914
31° 49′ 50″	0.52740896	0.84961155	0.620764824	1.610916020	1.177008482	1.896061819
31° 50′ 00″	0.52745015	0.84958598	0.620831990	1.610741740	1.177043907	1.895913752
31° 50′ 10″	0.52749134	0.84956041	0.620899160	1.610567488	1.177079337	1.895765712
31° 50′ 20″	0.52753253	0.84953483	0.620966333	1.610393263	1.177114772	1.895617699
31° 50′ 30″	0.52757372	0.84950926	0.621033511	1.610219066	1.177150212	1.895469715
31° 50′ 40″	0.52761490	0.84948368	0.621100693	1.610044895	1.177185657	1.895321757
31° 50′ 50″ 31° 51′ 00″	0.52765608	0.84945810	0.621167879	1.609870752	1.177221107	1.895173828
	0.52769727	0.84943251	0.621235069	1.609696636	1.177256561	1.895025926
31° 51′ 10″	0.52773845	0.84940693	0.621302263	1.609522547	1.177292021	1.894878051
31° 51′ 20″ 31° 51′ 30″	0.52777963	0.84938134	0.621369461	1.609348485	1.177327485	1.894730204
	0.52782081	0.84935575	0.621436663	1.609174450	1.177362954	1.894582384
31° 51′ 40″ 31° 51′ 50″	0.52786198	0.84933016	0.621503869	1.609000443	1.177398428	1.894434592
31 31 30"	0.52790316	0.84930457	0.621571079	1.608826462	1.177433907	1.894286828

239 31° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
31° 52′ 00″	0.52794433	0.84927898	0.621638293	1.608652509	1.177469391	1.894139091
31° 52′ 10″	0.52798551	0.84925338	0.621705511	1.608478583	1.177504880	1.893991381
31° 52′ 20″	0.52802668	0.84922778	0.621772734	1.608304684	1.177540374	1.893843699
31° 52′ 30″	0.52806785	0.84920218	0.621839960	1.608130812	1.177575873	1.893696044
31° 52′ 40″	0.52810902	0.84917658	0.621907190	1.607956967	1.177611376	1.893548417
31° 52′ 50″	0.52815019	0.84915097	0.621974425	1.607783150	1.177646885	1.893400818
31° 53′ 00″	0.52819136	0.84912537	0.622041663	1.607609359	1.177682398	1.893253246
31° 53′ 10″	0.52823252	0.84909976	0.622108906	1.607435596	1.177717917	1.893105701
31° 53′ 20″	0.52827369	0.84907415	0.622176153	1.607261859	1.177753440	1.892958184
31° 53′ 30″	0.52831485	0.84904854	0.622243403	1.607088150	1.177788968	1.892810694
31° 53′ 40″	0.52835601	0.84902292	0.622310658	1.606914468	1.177824501	1.892663231
31° 53′ 50″	0.52839717	0.84899731	0.622377917	1.606740813	1.177860039	1.892515796
31° 54′ 00″	0.52843833	0.84897169	0.622445180	1.606567185	1.177895582	1.892368389
31° 54′ 10″	0.52847949	0.84894607	0.622512447	1.606393583	1.177931130	1.892221009
31° 54′ 20″	0.52852065	0.84892044	0.622579718	1.606220009	1.177966682	1.892073656
31° 54′ 30″	0.52856181	0.84889482	0.622646993	1.606046462	1.178002240	1.891926330
31° 54′ 40″	0.52860296	0.84886919	0.622714272	1.605872942	1.178037803	1.891779032
31° 54′ 50″	0.52864412	0.84884357	0.622781555	1.605699449	1.178073370	1.891631762
31° 55′ 00″	0.52868527	0.84881794	0.622848842	1.605525984	1.178108942	1.891484519
31° 55′ 10″	0.52872642	0.84879230	0.622916134	1.605352545	1.178144520	1.891337303
31° 55′ 20″	0.52876757	0.84876667	0.622983429	1.605179133	1.178180102	1.891190114
31° 55′ 30″	0.52880872	0.84874103	0.623050728	1.605005748	1.178215689	1.891042953
31° 55′ 40″	0.52884987	0.84871539	0.623118032	1.604832390	1.178251281	1.890895819
31° 55′ 50″	0.52889101	0.84868975	0.623185339	1.604659059	1.178286878	1.890748713
31° 56′ 00″	0.52893216	0.84866411	0.623252651	1.604485755	1.178322480	1.890601634
31° 56′ 10″	0.52897330	0.84863847	0.623319967	1.604312478	1.178358087	1.890454582
31° 56′ 20″	0.52901444	0.84861282	0.623387286	1.604139227	1.178393699	1.890307557
31° 56′ 30″	0.52905558	0.84858717	0.623454610	1.603966004	1.178429315	1.890160560
31° 56′ 40″	0.52909672	0.84856152	0.623521938	1.603792808	1.178464937	1.890013590
31° 56′ 50″	0.52913786	0.84853587	0.623589270	1.603619639	1.178500563	1.889866648
31° 57′ 00″	0.52917900	0.84851021	0.623656606	1.603446496	1.178536195	1.889719732
31° 57′ 10″	0.52922014	0.84848456	0.623723946	1.603273381	1.178571831	1.889572844
31° 57′ 20″	0.52926127	0.84845890	0.623791290	1.603100292	1.178607472	1.889425983
31° 57′ 30″	0.52930241	0.84843324	0.623858639	1.602927230	1.178643119	1.889279150
31° 57′ 40″	0.52934354	0.84840758	0.623925991	1.602754196	1.178678770	1.889132344
31° 57′ 50″	0.52938467	0.84838191	0.623993347	1.602581188	1.178714426	1.888985565
31° 58′ 00″	0.52942580	0.84835625	0.624060708	1.602408207	1.178750087	1.888838813
31° 58′ 10″	0.52946693	0.84833058	0.624128073	1.602235253	1.178785753	1.888692088
31° 58′ 20″	0.52950806	0.84830491	0.624195441	1.602062325	1.178821424	1.888545391
31° 58′ 30″	0.52954918	0.84827924	0.624262814	1.601889425	1.178857099	1.888398721
31° 58′ 40″ 31° 58′ 50″	0.52959031	0.84825356	0.624330191	1.601716552	1.178892780	1.888252078
31° 58′ 50″ 31° 59′ 00″	0.52963143	0.84822789	0.624397572	1.601543705	1.178928466	1.888105463 1.887958874
31° 59′ 00″ 31° 59′ 10″	0.52967255	0.84820221	0.624464956	1.601370885	1.178964156	
31° 59′ 10″ 31° 59′ 20″	0.52971368	0.84817653	0.624532346	1.601198092	1.178999852	1.887812313
31° 59′ 20″ 31° 59′ 30″	0.52975480 0.52979592	0.84815085	0.624599739	1.601025326	1.179035552 1.179071258	1.887665779
31° 59′ 40″	0.52979592	0.84812516 0.84809947	0.624667136 0.624734537	1.600852586 1.600679874	1.179071258	1.887519272 1.887372793
31° 59′ 50″	0.52987815	0.84807379	0.624734337	1.600507188	1.179106966	1.887226340
=======================================	0.52767613	0.0400/3/7	0.024001742	1.00030/100	1.17/144003	1.00/ 440340

240 31° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
32° 00′ 00″	0.52991926	0.84804810	0.624869352	1.600334529	1.179178403	1.887079915
32° 00′ 10″	0.52996038	0.84802240	0.624936765	1.600161897	1.179214128	1.886933517
32° 00′ 20″	0.53000149	0.84799671	0.625004183	1.599989291	1.179249859	1.886787146
32° 00′ 30″	0.53004260	0.84797101	0.625071605	1.599816713	1.179285594	1.886640802
32° 00′ 40″	0.53008371	0.84794532	0.625139031	1.599644161	1.179321333	1.886494485
32° 00′ 50″	0.53012482	0.84791962	0.625206460	1.599471636	1.179357078	1.886348195
32° 01′ 00″	0.53016593	0.84789391	0.625273894	1.599299138	1.179392828	1.886201933
32° 01′ 10″	0.53020704	0.84786821	0.625341332	1.599126666	1.179428583	1.886055697
32° 01′ 20″	0.53024814	0.84784250	0.625408775	1.598954221	1.179464343	1.885909489
32° 01′ 30″	0.53028924	0.84781679	0.625476221	1.598781803	1.179500107	1.885763308
32° 01′ 40″	0.53033035	0.84779108	0.625543671	1.598609412	1.179535877	1.885617154
32° 01′ 50″	0.53037145	0.84776537	0.625611126	1.598437047	1.179571651	1.885471027
32° 02′ 00″	0.53041255	0.84773966	0.625678584	1.598264709	1.179607431	1.885324927
32° 02′ 10″	0.53045365	0.84771394	0.625746047	1.598092398	1.179643215	1.885178854
32° 02′ 20″	0.53049475	0.84768822	0.625813513	1.597920113	1.179679004	1.885032808
32° 02′ 30″	0.53053584	0.84766250	0.625880984	1.597747855	1.179714799	1.884886789
32° 02′ 40″	0.53057694	0.84763678	0.625948459	1.597575624	1.179750598	1.884740798
32° 02′ 50″	0.53061803	0.84761106	0.626015938	1.597403420	1.179786402	1.884594833
32° 03′ 00″	0.53065912	0.84758533	0.626083421	1.597231242	1.179822211	1.884448896
32° 03′ 10″	0.53070022	0.84755960	0.626150908	1.597059091	1.179858025	1.884302985
32° 03′ 20″	0.53074131	0.84753387	0.626218399	1.596886966	1.179893844	1.884157101
32° 03′ 30″	0.53078239	0.84750814	0.626285895	1.596714868	1.179929668	1.884011245
32° 03′ 40″	0.53082348	0.84748241	0.626353394	1.596542797	1.179965497	1.883865415
32° 03′ 50″	0.53086457	0.84745667	0.626420898	1.596370752	1.180001331	1.883719613
32° 04′ 00″	0.53090565	0.84743093	0.626488405	1.596198735	1.180037170	1.883573837
32° 04′ 10″	0.53094674	0.84740519	0.626555917	1.596026743	1.180073014	1.883428089
32° 04′ 20″	0.53098782	0.84737945	0.626623433	1.595854778	1.180108862	1.883282367
32° 04′ 30″	0.53102890	0.84735371	0.626690953	1.595682840	1.180144716	1.883136672
32° 04′ 40″	0.53106998	0.84732796	0.626758477	1.595510929	1.180180575	1.882991005
32° 04′ 50″	0.53111106	0.84730221	0.626826005	1.595339044	1.180216438	1.882845364
32° 05′ 00″ 32° 05′ 10″	0.53115214	0.84727646	0.626893538	1.595167186	1.180252307 1.180288180	1.882699750
32° 05′ 20″	0.53119322 0.53123429	0.84725071 0.84722496	0.626961074 0.627028614	1.594995354 1.594823549	1.180288180	1.882554164 1.882408604
32° 05′ 30″	0.53123427	0.84719920	0.627028614	1.594651770	1.180324037	1.882263071
32° 05′ 40″	0.53127537	0.84717720	0.627163708	1.594480018	1.180397742	1.882117565
32° 05′ 50″	0.53135751	0.84714768	0.627231261	1.594308293	1.180431724	1.881972086
32° 06′ 00″	0.53139858	0.84712192	0.627298817	1.594136594	1.180467622	1.881826634
32° 06′ 10″	0.53143965	0.84709616	0.627366378	1.593964921	1.180503525	1.881681208
32° 06′ 20″	0.53148072	0.84707039	0.627433944	1.593793275	1.180539433	1.881535810
32° 06′ 30″	0.53110072	0.84704462	0.627501513	1.593621656	1.180575346	1.881390439
32° 06′ 40″	0.53156285	0.84701885	0.627569086	1.593450063	1.180611265	1.881245094
32° 06′ 50″	0.53160391	0.84699308	0.627636664	1.593278497	1.180647188	1.881099776
32° 07′ 00″	0.53164497	0.84696731	0.627704245	1.593106957	1.180683116	1.880954485
32° 07′ 10″	0.53168604	0.84694153	0.627771831	1.592935444	1.180719049	1.880809221
32° 07′ 20″	0.53172710	0.84691575	0.627839421	1.592763957	1.180754987	1.880663984
32° 07′ 30″	0.53176816	0.84688997	0.627907015	1.592592496	1.180790929	1.880518774
32° 07′ 40″	0.53180921	0.84686419	0.627974613	1.592421062	1.180826877	1.880373591
32° 07′ 50″	0.53185027	0.84683841	0.628042215	1.592249655	1.180862830	1.880228434

241 32° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
32° 08′ 00″	0.53189133	0.84681262	0.628109821	1.592078274	1.180898788	1.880083304
32° 08′ 10″	0.53187133	0.84678684	0.628177432	1.591906920	1.180934751	1.879938201
32° 08′ 20″	0.53173238	0.84676105	0.628245046	1.591735591	1.180734731	1.879793125
32° 08′ 30″	0.53177343	0.84673525	0.628312665	1.591564290	1.181006691	1.879648076
32° 08′ 40″	0.53205553	0.84670946	0.628380287	1.591393015	1.181042669	1.879503053
32° 08′ 50″	0.53209658	0.84668366	0.628447914	1.591221766	1.181042667	1.879358058
32° 09′ 00″	0.53207638	0.84665787	0.628515545	1.591050544	1.181114639	1.879213089
32° 09′ 10″	0.53217868	0.84663207	0.628583180	1.590879348	1.181114637	1.879068146
32° 09′ 20″	0.53217000	0.84660626	0.628650820	1.590708178	1.181186629	1.878923231
32° 09′ 30″	0.53226077	0.84658046	0.628718463	1.590537035	1.181222632	1.878778342
32° 09′ 40″	0.53230181	0.84655466	0.628786110	1.590365918	1.181258639	1.878633481
32° 09′ 50″	0.53234285	0.84652885	0.628853762	1.590194828	1.181294652	1.878488645
32° 10′ 00″	0.53234283	0.84650304	0.628921418	1.590023764	1.181330669	1.878343837
32° 10′ 10″	0.53242493	0.84647723	0.628989078	1.589852726	1.181366692	1.878199055
32° 10′ 20″	0.53242473	0.84645141	0.629056742	1.589681715	1.181402719	1.878054300
32° 10′ 30″	0.53250700	0.84642560	0.629124410	1.589510730	1.181438751	1.877909572
32° 10′ 40″	0.53254804	0.84639978	0.629192082	1.589339772	1.181474789	1.877764871
32° 10′ 50″	0.53258907	0.84637396	0.629259758	1.589168840	1.181510831	1.877620196
32° 11′ 00″	0.53263011	0.84634814	0.629327439	1.588997934	1.181546878	1.877475548
32° 11′ 10″	0.53267114	0.84632231	0.629395123	1.588827054	1.181582930	1.877330927
32° 11′ 20″	0.53271217	0.84629649	0.629462812	1.588656201	1.181618988	1.877186332
32° 11′ 30″	0.53275320	0.84627066	0.629530505	1.588485374	1.181655050	1.877041764
32° 11′ 40″	0.53279422	0.84624483	0.629598202	1.588314574	1.181691117	1.876897223
32° 11′ 50″	0.53283525	0.84621900	0.629665903	1.588143799	1.181727189	1.876752708
32° 12′ 00″	0.53287628	0.84619317	0.629733609	1.587973051	1.181763266	1.876608220
32° 12′ 10″	0.53291730	0.84616733	0.629801318	1.587802330	1.181799349	1.876463759
32° 12′ 20″	0.53295832	0.84614149	0.629869032	1.587631634	1.181835436	1.876319324
32° 12′ 30″	0.53299934	0.84611565	0.629936749	1.587460965	1.181871528	1.876174916
32° 12′ 40″	0.53304036	0.84608981	0.630004471	1.587290322	1.181907625	1.876030535
32° 12′ 50″	0.53308138	0.84606397	0.630072197	1.587119706	1.181943727	1.875886180
32° 13′ 00″	0.53312240	0.84603812	0.630139927	1.586949115	1.181979834	1.875741852
32° 13′ 10″	0.53316342	0.84601228	0.630207661	1.586778551	1.182015946	1.875597550
32° 13′ 20″	0.53320443	0.84598643	0.630275400	1.586608014	1.182052063	1.875453275
32° 13′ 30″	0.53324545	0.84596057	0.630343142	1.586437502	1.182088185	1.875309027
32° 13′ 40″	0.53328646	0.84593472	0.630410889	1.586267017	1.182124312	1.875164805
32° 13′ 50″	0.53332747	0.84590887	0.630478640	1.586096557	1.182160444	1.875020610
32° 14′ 00″	0.53336848	0.84588301	0.630546395	1.585926124	1.182196581	1.874876442
32° 14′ 10″	0.53340949	0.84585715	0.630614154	1.585755718	1.182232723	1.874732300
32° 14′ 20″	0.53345050	0.84583129	0.630681917	1.585585337	1.182268870	1.874588184
32° 14′ 30″	0.53349150	0.84580542	0.630749684	1.585414983	1.182305022	1.874444096
32° 14′ 40″	0.53353251	0.84577956	0.630817456	1.585244655	1.182341179	1.874300033
32° 14′ 50″	0.53357351	0.84575369	0.630885232	1.585074353	1.182377341	1.874155998
32° 15′ 00″	0.53361452	0.84572782	0.630953011	1.584904077	1.182413507	1.874011988
32° 15′ 10″	0.53365552	0.84570195	0.631020795	1.584733827	1.182449679	1.873868006
32° 15′ 20″	0.53369652	0.84567608	0.631088583	1.584563604	1.182485856	1.873724050
32° 15′ 30″	0.53373752	0.84565020	0.631156376	1.584393406	1.182522038	1.873580120
32° 15′ 40″	0.53377851	0.84562432	0.631224172	1.584223235	1.182558225	1.873436217
32° 15′ 50″	0.53381951	0.84559845	0.631291973	1.584053090	1.182594417	1.873292340

242 32° 15′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
32° 16′ 00″	0.53386051	0.84557256	0.631359777	1.583882971	1.182630614	1.873148490
32° 16′ 10″	0.53390150	0.84554668	0.631427586	1.583712878	1.182666816	1.873004667
32° 16′ 20″	0.53394249	0.84552080	0.631495399	1.583542812	1.182703022	1.872860869
32° 16′ 30″	0.53398348	0.84549491	0.631563216	1.583372771	1.182739234	1.872717099
32° 16′ 40″	0.53402447	0.84546902	0.631631038	1.583202757	1.182775451	1.872573355
32° 16′ 50″	0.53406546	0.84544313	0.631698863	1.583032768	1.182811673	1.872429637
32° 17′ 00″	0.53410645	0.84541723	0.631766693	1.582862806	1.182847900	1.872285946
32° 17′ 10″	0.53414744	0.84539134	0.631834527	1.582692870	1.182884132	1.872142281
32° 17′ 20″	0.53418842	0.84536544	0.631902364	1.582522960	1.182920368	1.871998643
32° 17′ 30″	0.53422941	0.84533954	0.631970207	1.582353076	1.182956610	1.871855031
32° 17′ 40″	0.53427039	0.84531364	0.632038053	1.582183218	1.182992857	1.871711445
32° 17′ 50″	0.53431137	0.84528774	0.632105903	1.582013386	1.183029109	1.871567886
32° 18′ 00″	0.53435235	0.84526183	0.632173758	1.581843580	1.183065366	1.871424354
32° 18′ 10″	0.53439333	0.84523593	0.632241616	1.581673800	1.183101628	1.871280847
32° 18′ 20″	0.53443431	0.84521002	0.632309479	1.581504046	1.183137895	1.871137367
32° 18′ 30″	0.53447528	0.84518411	0.632377346	1.581334318	1.183174166	1.870993914
32° 18′ 40″	0.53451626	0.84515819	0.632445218	1.581164617	1.183210443	1.870850487
32° 18′ 50″	0.53455723	0.84513228	0.632513093	1.580994941	1.183246725	1.870707086
32° 19′ 00″	0.53459820	0.84510636	0.632580972	1.580825291	1.183283012	1.870563712
32° 19′ 10″	0.53463917	0.84508044	0.632648856	1.580655667	1.183319304	1.870420364
32° 19′ 20″	0.53468014	0.84505452	0.632716744	1.580486070	1.183355601	1.870277043
32° 19′ 30″	0.53472111	0.84502860	0.632784636	1.580316498	1.183391903	1.870133748
32° 19′ 40″	0.53476208	0.84500267	0.632852532	1.580146952	1.183428210	1.869990479
32° 19′ 50″	0.53480305	0.84497675	0.632920433	1.579977432	1.183464522	1.869847236
32° 20′ 00″	0.53484401	0.84495082	0.632988337	1.579807939	1.183500839	1.869704020
32° 20′ 10″	0.53488498	0.84492489	0.633056246	1.579638471	1.183537161	1.869560830
32° 20′ 20″	0.53492594	0.84489895	0.633124159	1.579469029	1.183573487	1.869417667
32° 20′ 30″	0.53496690	0.84487302	0.633192076	1.579299613	1.183609819	1.869274530
32° 20′ 40″	0.53500786	0.84484708	0.633259997	1.579130223	1.183646156	1.869131419
32° 20′ 50″	0.53504882	0.84482114	0.633327922	1.578960859	1.183682498	1.868988334
32° 21′ 00″	0.53508978	0.84479520	0.633395852	1.578791521	1.183718845	1.868845276
32° 21′ 10″	0.53513073	0.84476926	0.633463785	1.578622208	1.183755197	1.868702244
32° 21′ 20″ 32° 21′ 30″	0.53517169	0.84474331	0.633531723	1.578452922	1.183791554	1.868559238
32° 21′ 30″ 32° 21′ 40″	0.53521264	0.84471737 0.84469142	0.633599665	1.578283662	1.183827917	1.868416259
32° 21′ 40″ 32° 21′ 50″	0.53525359 0.53529454	0.84469142	0.633667612 0.633735562	1.578114427 1.577945219	1.183864284 1.183900656	1.868273306 1.868130379
32° 21′ 50″ 32° 22′ 00″	0.53529454	0.84463951				
32° 22′ 10″			0.633803517	1.577776036	1.183937033	1.867987478
32° 22′ 10″ 32° 22′ 20″	0.53537644	0.84461356	0.633871475	1.577606879	1.183973415	1.867844604
32° 22′ 30″	0.53541739 0.53545834	0.84458760 0.84456164	0.633939438 0.634007405	1.577437748 1.577268643	1.184009802 1.184046194	1.867701756 1.867558934
32° 22′ 40″	0.53545854	0.84453568	0.634007405	1.577268643	1.184082591	1.867338734
32° 22′ 50″	0.53554022	0.84450972	0.634143352	1.576930510	1.184118994	1.867273369
32° 23′ 00″	0.53558117	0.84448376	0.634143332	1.576761483	1.1841155401	1.867130626
32° 23′ 10″	0.53562211	0.84445779	0.634277316	1.576592481	1.184191813	1.866987909
32° 23′ 20″	0.53566305	0.84443182	0.634347304	1.576372461	1.184228230	1.866845218
32° 23′ 30″	0.53570399	0.84440585	0.634347304	1.576425305	1.184264653	1.866702553
32° 23′ 40″	0.53570399	0.84437988	0.634483292	1.576254555	1.184264633	1.866559915
32° 23′ 50″	0.53578586	0.84435390	0.634551293	1.575916733	1.184337512	1.866417303
	0.5557 6566	0.01133370	0.034331273	1.3/3/10/33	1.10433/312	1.000+1/303

243 32° 23′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
32° 24′ 00″	0.53582679	0.84432793	0.634619298	1.575747860	1.184373950	1.866274717
32° 24′ 10″	0.53586773	0.84430195	0.634687306	1.575579013	1.184410392	1.866132157
32° 24′ 20″	0.53590866	0.84427597	0.634755320	1.575410192	1.184446840	1.865989623
32° 24′ 30″	0.53594959	0.84424998	0.634823337	1.575241397	1.184483292	1.865847116
32° 24′ 40″	0.53599052	0.84422400	0.634891358	1.575072627	1.184519749	1.865704634
32° 24′ 50″	0.53603145	0.84419801	0.634959384	1.574903884	1.184556212	1.865562179
32° 25′ 00″	0.53607238	0.84417202	0.635027414	1.574735166	1.184592680	1.865419750
32° 25′ 10″	0.53611330	0.84414603	0.635095448	1.574566474	1.184629152	1.865277347
32° 25′ 20″	0.53615423	0.84412004	0.635163486	1.574397807	1.184665630	1.865134970
32° 25′ 30″	0.53619515	0.84409405	0.635231529	1.574229167	1.184702112	1.864992619
32° 25′ 40″	0.53623607	0.84406805	0.635299575	1.574060552	1.184738600	1.864850294
32° 25′ 50″	0.53627699	0.84404205	0.635367626	1.573891963	1.184775093	1.864707996
32° 26′ 00″	0.53631791	0.84401605	0.635435681	1.573723399	1.184811590	1.864565724
32° 26′ 10″	0.53635883	0.84399005	0.635503740	1.573554862	1.184848093	1.864423477
32° 26′ 20″	0.53639975	0.84396404	0.635571804	1.573386350	1.184884601	1.864281257
32° 26′ 30″	0.53644067	0.84393804	0.635639871	1.573217863	1.184921114	1.864139063
32° 26′ 40″	0.53648158	0.84391203	0.635707943	1.573049403	1.184957632	1.863996895
32° 26′ 50″	0.53652249	0.84388602	0.635776019	1.572880968	1.184994155	1.863854753
32° 27′ 00″	0.53656341	0.84386001	0.635844099	1.572712558	1.185030682	1.863712637
32° 27′ 10″	0.53660432	0.84383399	0.635912184	1.572544175	1.185067215	1.863570547
32° 27′ 20″	0.53664523	0.84380798	0.635980272	1.572375817	1.185103753	1.863428483
32° 27′ 30″	0.53668613	0.84378196	0.636048365	1.572207485	1.185140297	1.863286445
32° 27′ 40″	0.53672704	0.84375594	0.636116462	1.572039178	1.185176845	1.863144433
32° 27′ 50″	0.53676795	0.84372992	0.636184563	1.571870897	1.185213398	1.863002447
32° 28′ 00″	0.53680885	0.84370389	0.636252668	1.571702642	1.185249956	1.862860487
32° 28′ 10″	0.53684976	0.84367787	0.636320778	1.571534413	1.185286519	1.862718554
32° 28′ 20″	0.53689066	0.84365184	0.636388892	1.571366209	1.185323087	1.862576646
32° 28′ 30″	0.53693156	0.84362581	0.636457010	1.571198030	1.185359661	1.862434764
32° 28′ 40″	0.53697246	0.84359977	0.636525132	1.571029877	1.185396239	1.862292908
32° 28′ 50″	0.53701336	0.84357374	0.636593258	1.570861750	1.185432822	1.862151078
32° 29′ 00″	0.53705425	0.84354770	0.636661389	1.570693649	1.185469411	1.862009275
32° 29′ 10″ 32° 29′ 20″	0.53709515	0.84352167	0.636729524	1.570525573	1.185506004	1.861867497
32° 29′ 20″ 32° 29′ 30″	0.53713604	0.84349563	0.636797663	1.570357523	1.185542603	1.861725745
32° 29′ 30″ 32° 29′ 40″	0.53717694 0.53721783	0.84346958	0.636865806	1.570189498	1.185579206 1.185615815	1.861584019
32° 29′ 40″ 32° 29′ 50″	0.53721783	0.84344354 0.84341749	0.636933953 0.637002105	1.570021499 1.569853525	1.185652429	1.861442319 1.861300645
32° 30′ 00″	0.53725872	0.84339145				1.861300643
32° 30′ 10″	0.53729961	0.84336540	0.637070261 0.637138421	1.569685577 1.569517655	1.185689047 1.185725671	1.861138997
32° 30′ 10″ 32° 30′ 20″	0.53734030	0.84333934	0.637138421	1.569349758	1.185723671	1.860875778
32° 30′ 30″	0.53738138	0.84331329	0.637274754	1.569349738	1.185762300	1.860873778
32° 30′ 40″	0.53742227	0.84328723	0.637274734	1.569181886	1.185835573	1.860734208
32° 30′ 50″	0.53746515	0.84326118	0.637342926	1.568846220	1.185872217	1.860392664
32° 31′ 00″	0.53754492	0.84323512	0.637477103	1.568678426	1.185908866	1.860309652
32° 31′ 10″	0.53758580	0.84323312	0.637547470	1.568510656	1.185945520	1.860307632
32° 31′ 20″	0.53762668	0.84318299	0.637547470	1.568342913	1.185982179	1.860026745
32° 31′ 30″	0.53762666	0.84315692	0.637683853	1.568175194	1.186018843	1.859885330
32° 31′ 40″	0.53766736	0.84313086	0.637683833	1.568007502	1.186018843	1.859743941
32° 31′ 50″	0.53774931	0.84310479	0.637732031	1.567839834	1.186033312	1.859602578
<i>32 31 30</i>	0.55//4/51	0.043104//	0.03/020233	1.50/05/054	1.1000/210/	1.03/0023/0

244 32° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	csc(x)
32° 32′ 00″	0.53779018	0.84307871	0.637888459	1.567672193	1.186128866	1.859461240
32° 32′ 10″	0.53777010	0.84305264	0.637956670	1.567504576	1.186165550	1.859319929
32° 32′ 20″	0.53787193	0.84302657	0.638024885	1.567336986	1.186202240	1.859178643
32° 32′ 30″	0.53791280	0.84300049	0.638093104	1.567169420	1.186238934	1.859037383
32° 32′ 40″	0.53795367	0.84297441	0.638161327	1.567001881	1.186275634	1.858896149
32° 32′ 50″	0.53799453	0.84294833	0.638229555	1.566834366	1.186312339	1.858754941
32° 33′ 00″	0.53803540	0.84292224	0.638297787	1.566666877	1.186349048	1.858613759
32° 33′ 10″	0.53807627	0.84289616	0.638366023	1.566499414	1.186385763	1.858472602
32° 33′ 20″	0.53811713	0.84287007	0.638434263	1.566331976	1.186422483	1.858331471
32° 33′ 30″	0.53815799	0.84284398	0.638502507	1.566164563	1.186459208	1.858190367
32° 33′ 40″	0.53819886	0.84281789	0.638570756	1.565997176	1.186495938	1.858049287
32° 33′ 50″	0.53823972	0.84279179	0.638639009	1.565829814	1.186532673	1.857908234
32° 34′ 00″	0.53828057	0.84276570	0.638707266	1.565662478	1.186569413	1.857767207
32° 34′ 10″	0.53832143	0.84273960	0.638775527	1.565495167	1.186606158	1.857626205
32° 34′ 20″	0.53836229	0.84271350	0.638843793	1.565327881	1.186642908	1.857485229
32° 34′ 30″	0.53840314	0.84268740	0.638912062	1.565160621	1.186679663	1.857344278
32° 34′ 40″	0.53844400	0.84266130	0.638980336	1.564993386	1.186716424	1.857203354
32° 34′ 50″	0.53848485	0.84263519	0.639048614	1.564826176	1.186753189	1.857062455
32° 35′ 00″	0.53852570	0.84260908	0.639116897	1.564658992	1.186789960	1.856921582
32° 35′ 10″	0.53856655	0.84258297	0.639185184	1.564491834	1.186826735	1.856780735
32° 35′ 20″	0.53860740	0.84255686	0.639253475	1.564324700	1.186863516	1.856639913
32° 35′ 30″	0.53864825	0.84253075	0.639321770	1.564157592	1.186900301	1.856499118
32° 35′ 40″	0.53868910	0.84250463	0.639390069	1.563990510	1.186937092	1.856358347
32° 35′ 50″	0.53872994	0.84247852	0.639458373	1.563823452	1.186973888	1.856217603
32° 36′ 00″	0.53877079	0.84245240	0.639526681	1.563656420	1.187010689	1.856076884
32° 36′ 10″	0.53881163	0.84242628	0.639594993	1.563489414	1.187047495	1.855936191
32° 36′ 20″	0.53885247	0.84240015	0.639663309	1.563322432	1.187084306	1.855795524
32° 36′ 30″	0.53889331	0.84237403	0.639731630	1.563155476	1.187121122	1.855654882
32° 36′ 40″	0.53893415	0.84234790	0.639799954	1.562988545	1.187157943	1.855514266
32° 36′ 50″	0.53897499	0.84232177	0.639868283	1.562821640	1.187194769	1.855373676
32° 37′ 00″	0.53901582	0.84229564	0.639936617	1.562654760	1.187231601	1.855233112
32° 37′ 10″	0.53905666	0.84226951	0.640004954	1.562487905	1.187268437	1.855092573
32° 37′ 20″	0.53909749	0.84224337	0.640073296	1.562321075	1.187305278	1.854952059
32° 37′ 30″	0.53913832	0.84221723	0.640141642	1.562154271	1.187342125	1.854811572
32° 37′ 40″	0.53917915	0.84219109	0.640209992	1.561987492	1.187378977	1.854671110
32° 37′ 50″	0.53921998	0.84216495	0.640278347	1.561820738	1.187415833	1.854530673
32° 38′ 00″	0.53926081	0.84213881	0.640346705	1.561654009	1.187452695	1.854390262
32° 38′ 10″	0.53930164	0.84211267	0.640415068	1.561487306	1.187489562	1.854249877
32° 38′ 20″	0.53934247	0.84208652	0.640483436	1.561320628	1.187526434	1.854109518
32° 38′ 30″	0.53938329	0.84206037	0.640551807	1.561153975	1.187563311	1.853969184
32° 38′ 40″	0.53942411	0.84203422	0.640620183	1.560987347	1.187600193	1.853828875
32° 38′ 50″ 32° 39′ 00″	0.53946494	0.84200807	0.640688563	1.560820745 1.560654168	1.187637080	1.853688593
32° 39′ 00″ 32° 39′ 10″	0.53950576	0.84198191 0.84195575	0.640756947	1.560654168	1.187673973	1.853548335
32° 39′ 10″ 32° 39′ 20″	0.53954658 0.53958740	0.84193575	0.640825336 0.640893728	1.560487616	1.187710870 1.187747772	1.853408104 1.853267898
32° 39′ 30″	0.53958740	0.84192939	0.640893728	1.560321089	1.187747772	1.853127717
32° 39′ 40″	0.53962821	0.84190343	0.640962125	1.559988111	1.187821593	1.852987562
32° 39′ 50″	0.53970984	0.84185111	0.641030326	1.559821660	1.187858510	1.852847433
<u> </u>	0.33//0704	0.04103111	0.041070732	1.33/041000	1.10/030310	1.03204/433

245 32° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
32° 40′ 00″	0.53975066	0.84182494	0.641167342	1.559655234	1.187895433	1.852707329
32° 40′ 10″	0.53773000	0.84179877	0.641135756	1.559488833	1.187932361	1.852567251
32° 40′ 20″	0.53983228	0.84177260	0.641304174	1.559322457	1.187969294	1.852427198
32° 40′ 30″	0.53783228	0.84177200	0.641372596	1.559156107	1.188006232	1.852287171
32° 40′ 40″	0.53767307	0.84174045	0.641441023	1.558989781	1.188043175	1.852147170
32° 40′ 50″	0.53771370	0.84172023	0.641509454	1.558823481	1.188080123	1.852007193
32° 41′ 00″	0.53775471	0.84166790	0.641577889	1.558657206	1.188117077	1.851867243
32° 41′ 10″	0.54003632	0.84164172	0.641646329	1.558490956	1.188154035	1.851727318
32° 41′ 20″	0.54007712	0.84161553	0.641714772	1.558324731	1.188190999	1.851587418
32° 41′ 30″	0.54011792	0.84158935	0.641714772	1.558158531	1.188227967	1.851447544
32° 41′ 40″	0.54015872	0.84156316	0.641851673	1.557992356	1.188264941	1.851307695
32° 41′ 50″	0.54019952	0.84153697	0.641920129	1.557826207	1.188301920	1.851167872
32° 42′ 00″	0.54024032	0.84151078	0.641726127	1.557660082	1.188338904	1.851028074
32° 42′ 10″	0.54028112	0.84148459	0.642057055	1.557493983	1.188375893	1.850888302
32° 42′ 20″	0.54032191	0.84145839	0.642125525	1.557327908	1.188412887	1.850748555
32° 42′ 30″	0.54036271	0.84143220	0.642123323	1.557161859	1.188449886	1.850608834
32° 42′ 40″	0.54040350	0.84140600	0.642262476	1.556995835	1.188486890	1.850469138
32° 42′ 50″	0.54044429	0.84137980	0.642330958	1.556829836	1.188523900	1.850329467
32° 43′ 00″	0.54048508	0.84135360	0.642399444	1.556663862	1.188560914	1.850189822
32° 43′ 10″	0.54052587	0.84132739	0.642467935	1.556497913	1.188597934	1.850050203
32° 43′ 20″	0.54056666	0.84130119	0.642536430	1.556331989	1.188634958	1.849910608
32° 43′ 30″	0.54060745	0.84127498	0.642604929	1.556166090	1.188671988	1.8497710008
32° 43′ 40″	0.54064823	0.84124877	0.642673433	1.556000216	1.188709023	1.849631496
32° 43′ 50″	0.54068902	0.84122255	0.642741940	1.555834367	1.188746063	1.849491978
32° 44′ 00″	0.54072980	0.84119634	0.642810452	1.555668543	1.188783108	1.849352486
32° 44′ 10″	0.54077058	0.84117012	0.642878969	1.555502744	1.188820158	1.849213018
32° 44′ 20″	0.54081136	0.84114391	0.642947489	1.555336971	1.188857213	1.849073577
32° 44′ 30″	0.54085214	0.84111769	0.643016014	1.555171222	1.188894274	1.848934160
32° 44′ 40″	0.54089292	0.84109146	0.643084543	1.555005498	1.188931339	1.848794769
32° 44′ 50″	0.54093370	0.84106524	0.643153076	1.554839799	1.188968410	1.848655403
32° 45′ 00″	0.54097447	0.84103901	0.643221614	1.554674125	1.189005486	1.848516063
32° 45′ 10″	0.54101525	0.84101278	0.643290156	1.554508476	1.189042566	1.848376748
32° 45′ 20″	0.54105602	0.84098655	0.643358702	1.554342852	1.189079652	1.848237458
32° 45′ 30″	0.54109679	0.84096032	0.643427253	1.554177253	1.189116743	1.848098194
32° 45′ 40″	0.54113756	0.84093409	0.643495807	1.554011679	1.189153839	1.847958955
32° 45′ 50″	0.54117833	0.84090785	0.643564366	1.553846130	1.189190941	1.847819741
32° 46′ 00″	0.54121910	0.84088161	0.643632930	1.553680606	1.189228047	1.847680553
32° 46′ 10″	0.54125986	0.84085537	0.643701497	1.553515107	1.189265159	1.847541390
32° 46′ 20″	0.54130063	0.84082913	0.643770069	1.553349632	1.189302275	1.847402252
32° 46′ 30″	0.54134139	0.84080289	0.643838645	1.553184183	1.189339397	1.847263140
32° 46′ 40″	0.54138215	0.84077664	0.643907225	1.553018759	1.189376524	1.847124052
32° 46′ 50″	0.54142292	0.84075039	0.643975810	1.552853359	1.189413656	1.846984990
32° 47′ 00″	0.54146368	0.84072414	0.644044399	1.552687984	1.189450793	1.846845954
32° 47′ 10″	0.54150444	0.84069789	0.644112992	1.552522635	1.189487935	1.846706942
32° 47′ 20″	0.54154519	0.84067164	0.644181590	1.552357310	1.189525082	1.846567956
32° 47′ 30″	0.54158595	0.84064538	0.644250192	1.552192010	1.189562234	1.846428996
32° 47′ 40″	0.54162670	0.84061913	0.644318798	1.552026735	1.189599392	1.846290060
32° 47′ 50″	0.54166746	0.84059287	0.644387408	1.551861485	1.189636555	1.846151150
	1 3.5	3.0.007207	3.01.1007.100	.,001001100		

246 32° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
32° 48′ 00″	0.54170821	0.84056660	0.644456023	1.551696259	1.189673722	1.846012265
32° 48′ 10″	0.54174896	0.84054034	0.644524642	1.551531059	1.189710895	1.845873405
32° 48′ 20″	0.54178971	0.84051407	0.644593265	1.551365883	1.189748073	1.845734570
32° 48′ 30″	0.54183046	0.84048781	0.644661893	1.551200732	1.189785256	1.845595761
32° 48′ 40″	0.54187121	0.84046154	0.644730525	1.551035606	1.189822444	1.845456976
32° 48′ 50″	0.54191195	0.84043527	0.644799161	1.550870505	1.189859638	1.845318217
32° 49′ 00″	0.54195270	0.84040899	0.644867801	1.550705429	1.189896836	1.845179484
32° 49′ 10″	0.54199344	0.84038272	0.644936446	1.550540377	1.189934040	1.845040775
32° 49′ 20″	0.54203418	0.84035644	0.645005095	1.550375351	1.189971249	1.844902092
32° 49′ 30″	0.54207493	0.84033016	0.645073748	1.550210349	1.190008462	1.844763434
32° 49′ 40″	0.54211566	0.84030388	0.645142406	1.550045372	1.190045681	1.844624800
32° 49′ 50″	0.54215640	0.84027759	0.645211068	1.549880419	1.190082905	1.844486193
32° 50′ 00″	0.54219714	0.84025131	0.645279734	1.549715492	1.190120135	1.844347610
32° 50′ 10″	0.54223788	0.84022502	0.645348404	1.549550589	1.190157369	1.844209052
32° 50′ 20″	0.54227861	0.84019873	0.645417079	1.549385711	1.190194608	1.844070520
32° 50′ 30″	0.54231934	0.84017244	0.645485758	1.549220858	1.190231853	1.843932013
32° 50′ 40″	0.54236008	0.84014615	0.645554441	1.549056030	1.190269103	1.843793531
32° 50′ 50″	0.54240081	0.84011985	0.645623129	1.548891226	1.190306358	1.843655074
32° 51′ 00″	0.54244154	0.84009355	0.645691821	1.548726447	1.190343618	1.843516642
32° 51′ 10″	0.54248226	0.84006725	0.645760517	1.548561693	1.190380883	1.843378235
32° 51′ 20″	0.54252299	0.84004095	0.645829218	1.548396964	1.190418153	1.843239853
32° 51′ 30″	0.54256372	0.84001465	0.645897923	1.548232259	1.190455428	1.843101497
32° 51′ 40″	0.54260444	0.83998834	0.645966632	1.548067579	1.190492709	1.842963165
32° 51′ 50″	0.54264517	0.83996204	0.646035345	1.547902924	1.190529994	1.842824859
32° 52′ 00″	0.54268589	0.83993573	0.646104063	1.547738293	1.190567285	1.842686578
32° 52′ 10″	0.54272661	0.83990942	0.646172785	1.547573687	1.190604581	1.842548322
32° 52′ 20″	0.54276733	0.83988310	0.646241512	1.547409106	1.190641882	1.842410091
32° 52′ 30″	0.54280804	0.83985679	0.646310242	1.547244550	1.190679188	1.842271885
32° 52′ 40″	0.54284876	0.83983047	0.646378977	1.547080018	1.190716500	1.842133704
32° 52′ 50″	0.54288948	0.83980415	0.646447717	1.546915511	1.190753816	1.841995548
32° 53′ 00″	0.54293019	0.83977783	0.646516460	1.546751029	1.190791138	1.841857417
32° 53′ 10″ 32° 53′ 20″	0.54297090	0.83975151 0.83972518	0.646585208	1.546586571	1.190828464	1.841719311 1.841581230
32° 53′ 30″	0.54301162 0.54305233	0.83969886	0.646653961 0.646722717	1.546422138 1.546257729	1.190865796 1.190903133	1.841443175
32° 53′ 40″	0.54309304	0.83967253	0.646722717	1.546093346	1.190940475	1.841305144
32° 53′ 50″	0.54313374	0.83767233	0.646860243	1.545928986	1.170740473	1.841167138
32° 54′ 00″	0.54317445	0.83764620	0.646929013	1.545764652	1.170777823	1.841029158
32° 54′ 10″	0.54321516	0.83751786	0.646997786	1.545600342	1.171013173	1.840891202
32° 54′ 20″	0.54325586	0.83956719	0.647066565	1.545436057	1.171032333	1.840753271
32° 54′ 30″	0.54329656	0.83954085	0.647135347	1.545271796	1.171087873	1.840615366
32° 54′ 40″	0.54333726	0.83951451	0.647204134	1.545107560	1.191164636	1.840477485
32° 54′ 50″	0.54337796	0.83948817	0.647272925	1.544943349	1.191202014	1.840339629
32° 55′ 00″	0.54341866	0.83946183	0.647341720	1.544779162	1.191239398	1.840201798
32° 55′ 10″	0.54345936	0.83943548	0.647410520	1.544615000	1.191276786	1.840063993
32° 55′ 20″	0.54350006	0.83940913	0.647479324	1.544450862	1.191314180	1.839926212
32° 55′ 30″	0.54354075	0.83938278	0.647548132	1.544286749	1.191351579	1.839788456
32° 55′ 40″	0.54358145	0.83935643	0.647616945	1.544122660	1.191388982	1.839650725
32° 55′ 50″	0.54362214	0.83933007	0.647685762	1.543958596	1.191426391	1.839513019

247 32° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
32° 56′ 00″	0.54366283	0.83930372	0.647754583	1.543794557	1.191463806	1.839375338
32° 56′ 10″	0.54370352	0.83927736	0.647823409	1.543630542	1.191501225	1.839237682
32° 56′ 20″	0.54374421	0.83925100	0.647892239	1.543466552	1.191538649	1.839100051
32° 56′ 30″	0.54378490	0.83922463	0.647961073	1.543302586	1.191576079	1.838962445
32° 56′ 40″	0.54382558	0.83919827	0.648029912	1.543138645	1.191613514	1.838824863
32° 56′ 50″	0.54386627	0.83917190	0.648098755	1.542974728	1.191650954	1.838687307
32° 57′ 00″	0.54390695	0.83914554	0.648167602	1.542810836	1.191688399	1.838549775
32° 57′ 10″	0.54394763	0.83911917	0.648236454	1.542646969	1.191725849	1.838412269
32° 57′ 20″	0.54398831	0.83909279	0.648305309	1.542483126	1.191763305	1.838274787
32° 57′ 30″	0.54402899	0.83906642	0.648374170	1.542319307	1.191800765	1.838137330
32° 57′ 40″	0.54406967	0.83904004	0.648443034	1.542155513	1.191838231	1.837999898
32° 57′ 50″	0.54411035	0.83901366	0.648511903	1.541991743	1.191875702	1.837862491
32° 58′ 00″	0.54415102	0.83898728	0.648580776	1.541827998	1.191913178	1.837725109
32° 58′ 10″	0.54419170	0.83896090	0.648649654	1.541664277	1.191950659	1.837587751
32° 58′ 20″	0.54423237	0.83893452	0.648718536	1.541500581	1.191988145	1.837450419
32° 58′ 30″	0.54427304	0.83890813	0.648787422	1.541336909	1.192025637	1.837313111
32° 58′ 40″	0.54431371	0.83888174	0.648856313	1.541173262	1.192063134	1.837175828
32° 58′ 50″	0.54435438	0.83885535	0.648925208	1.541009639	1.192100635	1.837038570
32° 59′ 00″	0.54439505	0.83882896	0.648994107	1.540846041	1.192138142	1.836901337
32° 59′ 10″	0.54443572	0.83880257	0.649063010	1.540682467	1.192175655	1.836764129
32° 59′ 20″	0.54447639	0.83877617	0.649131918	1.540518918	1.192213172	1.836626945
32° 59′ 30″	0.54451705	0.83874977	0.649200830	1.540355393	1.192250694	1.836489786
32° 59′ 40″	0.54455771	0.83872337	0.649269747	1.540191892	1.192288222	1.836352652
32° 59′ 50″	0.54459837	0.83869697	0.649338668	1.540028416	1.192325755	1.836215543
33° 00′ 00″	0.54463904	0.83867057	0.649407593	1.539864964	1.192363293	1.836078459
33° 00′ 10″	0.54467969	0.83864416	0.649476523	1.539701536	1.192400836	1.835941399
33° 00′ 20″	0.54472035	0.83861775	0.649545457	1.539538133	1.192438384	1.835804364
33° 00′ 30″	0.54476101	0.83859134	0.649614395	1.539374755	1.192475938	1.835667354
33° 00′ 40″	0.54480166	0.83856493	0.649683338	1.539211401	1.192513496	1.835530369
33° 00′ 50″	0.54484232	0.83853852	0.649752285	1.539048071	1.192551060	1.835393408
33° 01′ 00″	0.54488297	0.83851210	0.649821236	1.538884765	1.192588629	1.835256473
33° 01′ 10″	0.54492362	0.83848569	0.649890192	1.538721484	1.192626203	1.835119562
33° 01′ 20″	0.54496427	0.83845927	0.649959152	1.538558227	1.192663783	1.834982675
33° 01′ 30″	0.54500492	0.83843284	0.650028116	1.538394995	1.192701367	1.834845814
33° 01′ 40″	0.54504557	0.83840642	0.650097085	1.538231787	1.192738957	1.834708977
33° 01′ 50″	0.54508622	0.83838000	0.650166058	1.538068603	1.192776552	1.834572165
33° 02′ 00″	0.54512686	0.83835357	0.650235035	1.537905444	1.192814152	1.834435377
33° 02′ 10″	0.54516751	0.83832714	0.650304017	1.537742309	1.192851757	1.834298615
33° 02′ 20″	0.54520815	0.83830071	0.650373003	1.537579198	1.192889367	1.834161877
33° 02′ 30″	0.54524879	0.83827427	0.650441993	1.537416111	1.192926983	1.834025163
33° 02′ 40″ 33° 02′ 50″	0.54528943	0.83824784	0.650510988	1.537253049	1.192964604	1.833888475
33° 02′ 50″ 33° 03′ 00″	0.54533007	0.83822140 0.83819496	0.650579987	1.537090011 1.536926998	1.193002230	1.833751811
33° 03′ 00″ 33° 03′ 10″	0.54537071 0.54541134	0.83819496	0.650648991 0.650717999	1.536726998	1.193039861 1.193077497	1.833615171 1.833478557
33° 03′ 10″ 33° 03′ 20″	0.54545134	0.83816852	0.650717999	1.536764009	1.193077497	
33° 03′ 30″	0.54549261	0.83811563	0.650787011	1.536438103	1.193115138	1.833341967 1.833205402
33° 03′ 40″	0.54549261	0.83808918	0.650836027	1.536458105	1.193192783	1.833203402
33° 03′ 50″	0.54557387	0.83806274	0.650923048	1.536275167	1.193170437	1.832932345
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248 33° 03′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
33° 04′ 00″	0.54561450	0.83803628	0.651063103	1.535949427	1.193265756	1.832795854
33° 04′ 10″	0.54565513	0.83800983	0.651132137	1.535786583	1.193303423	1.832659387
33° 04′ 20″	0.54569576	0.83798338	0.651201175	1.535623764	1.193341096	1.832522945
33° 04′ 30″	0.54573639	0.83795692	0.651270218	1.535460969	1.193378773	1.832386528
33° 04′ 40″	0.54577701	0.83793046	0.651339265	1.535298198	1.193416456	1.832250135
33° 04′ 50″	0.54581763	0.83790400	0.651408317	1.535135451	1.193454144	1.832113766
33° 05′ 00″	0.54585826	0.83787754	0.651477372	1.534972729	1.193491838	1.831977423
33° 05′ 10″	0.54589888	0.83785107	0.651546433	1.534810030	1.193529536	1.831841104
33° 05′ 20″	0.54593950	0.83782460	0.651615497	1.534647356	1.193567240	1.831704809
33° 05′ 30″	0.54598011	0.83779814	0.651684566	1.534484707	1.193604949	1.831568540
33° 05′ 40″	0.54602073	0.83777166	0.651753639	1.534322081	1.193642663	1.831432294
33° 05′ 50″	0.54606135	0.83774519	0.651822717	1.534159480	1.193680382	1.831296074
33° 06′ 00″	0.54610196	0.83771872	0.651891799	1.533996902	1.193718106	1.831159877
33° 06′ 10″	0.54614257	0.83769224	0.651960885	1.533834349	1.193755836	1.831023706
33° 06′ 20″	0.54618319	0.83766576	0.652029976	1.533671821	1.193793571	1.830887559
33° 06′ 30″	0.54622380	0.83763928	0.652099071	1.533509316	1.193831311	1.830751436
33° 06′ 40″	0.54626441	0.83761280	0.652168170	1.533346835	1.193869056	1.830615338
33° 06′ 50″	0.54630501	0.83758631	0.652237274	1.533184379	1.193906806	1.830479265
33° 07′ 00″	0.54634562	0.83755983	0.652306382	1.533021947	1.193944562	1.830343216
33° 07′ 10″	0.54638623	0.83753334	0.652375495	1.532859539	1.193982322	1.830207192
33° 07′ 20″	0.54642683	0.83750685	0.652444612	1.532697155	1.194020088	1.830071192
33° 07′ 30″	0.54646743	0.83748035	0.652513733	1.532534795	1.194057859	1.829935217
33° 07′ 40″	0.54650803	0.83745386	0.652582859	1.532372459	1.194095636	1.829799266
33° 07′ 50″	0.54654863	0.83742736	0.652651989	1.532210148	1.194133417	1.829663340
33° 08′ 00″	0.54658923	0.83740087	0.652721123	1.532047860	1.194171204	1.829527438
33° 08′ 10″	0.54662983	0.83737437	0.652790262	1.531885597	1.194208996	1.829391560
33° 08′ 20″	0.54667043	0.83734786	0.652859405	1.531723357	1.194246793	1.829255708
33° 08′ 30″	0.54671102	0.83732136	0.652928553	1.531561142	1.194284595	1.829119879
33° 08′ 40″	0.54675162	0.83729485	0.652997705	1.531398951	1.194322403	1.828984075
33° 08′ 50″	0.54679221	0.83726834	0.653066861	1.531236784	1.194360216	1.828848296
33° 09′ 00″	0.54683280	0.83724183	0.653136022	1.531074641	1.194398034	1.828712541
33° 09′ 10″	0.54687339	0.83721532	0.653205187	1.530912522	1.194435857	1.828576810
33° 09′ 20″	0.54691398	0.83718881	0.653274356	1.530750428	1.194473685	1.828441104
33° 09′ 30″	0.54695457	0.83716229	0.653343530	1.530588357	1.194511519	1.828305423
33° 09′ 40″	0.54699515	0.83713577	0.653412708	1.530426310	1.194549357	1.828169765
33° 09′ 50″	0.54703574	0.83710925	0.653481891	1.530264288	1.194587201	1.828034133
33° 10′ 00″	0.54707632	0.83708273	0.653551078	1.530102289	1.194625050	1.827898524
33° 10′ 10″	0.54711690	0.83705621	0.653620269	1.529940314	1.194662905	1.827762940
33° 10′ 20″	0.54715748	0.83702968	0.653689465	1.529778364	1.194700764	1.827627381
33° 10′ 30″	0.54719806	0.83700315	0.653758665	1.529616437	1.194738629	1.827491846
33° 10′ 40″	0.54723864	0.83697662	0.653827869	1.529454535	1.194776499	1.827356335
33° 10′ 50″	0.54727922	0.83695009	0.653897078	1.529292656	1.194814374	1.827220848
33° 11′ 00″	0.54731980	0.83692356	0.653966292	1.529130802	1.194852255	1.827085386
33° 11′ 10″ 33° 11′ 20″	0.54736037	0.83689702	0.654035509	1.528968971	1.194890140	1.826949949
33° 11′ 20″ 33° 11′ 30″	0.54740094	0.83687048	0.654104731	1.528807165	1.194928031	1.826814536
33° 11′ 30″ 33° 11′ 40″	0.54744152	0.83684394	0.654173958	1.528645382	1.194965927	1.826679147
33° 11′ 40″ 33° 11′ 50″	0.54748209 0.54752266	0.83681740 0.83679086	0.654243189 0.654312424	1.528483624 1.528321889	1.195003828 1.195041735	1.826543782 1.826408442
	0.547.52200	0.03077006	0.034312424	1.320321007	1.1/3041/33	1.020400442

249 33° 11′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
33° 12′ 00″	0.54756322	0.83676431	0.654381664	1.528160179	1.195079647	1.826273126
33° 12′ 10″	0.54760379	0.83673777	0.654450908	1.527998492	1.195117563	1.826137835
33° 12′ 20″	0.54764436	0.83671122	0.654520156	1.527836829	1.195155486	1.826002568
33° 12′ 30″	0.54768492	0.83668466	0.654589409	1.527675191	1.195193413	1.825867325
33° 12′ 40″	0.54772548	0.83665811	0.654658666	1.527513576	1.195231345	1.825732106
33° 12′ 50″	0.54776604	0.83663156	0.654727928	1.527351985	1.195269283	1.825596912
33° 13′ 00″	0.54780661	0.83660500	0.654797194	1.527190418	1.195307226	1.825461742
33° 13′ 10″	0.54784716	0.83657844	0.654866464	1.527028875	1.195345174	1.825326597
33° 13′ 20″	0.54788772	0.83655188	0.654935739	1.526867356	1.195383128	1.825191476
33° 13′ 30″	0.54792828	0.83652531	0.655005018	1.526705861	1.195421086	1.825056379
33° 13′ 40″	0.54796883	0.83649875	0.655074302	1.526544389	1.195459050	1.824921306
33° 13′ 50″	0.54800939	0.83647218	0.655143590	1.526382942	1.195497019	1.824786258
33° 14′ 00″	0.54804994	0.83644561	0.655212882	1.526221519	1.195534994	1.824651233
33° 14′ 10″	0.54809049	0.83641904	0.655282179	1.526060119	1.195572973	1.824516234
33° 14′ 20″	0.54813104	0.83639247	0.655351480	1.525898743	1.195610958	1.824381258
33° 14′ 30″	0.54817159	0.83636589	0.655420786	1.525737391	1.195648948	1.824246307
33° 14′ 40″	0.54821214	0.83633932	0.655490096	1.525576063	1.195686943	1.824111380
33° 14′ 50″	0.54825268	0.83631274	0.655559410	1.525414759	1.195724943	1.823976477
33° 15′ 00″	0.54829323	0.83628616	0.655628729	1.525253479	1.195762949	1.823841598
33° 15′ 10″	0.54833377	0.83625957	0.655698052	1.525092223	1.195800960	1.823706744
33° 15′ 20″	0.54837432	0.83623299	0.655767380	1.524930990	1.195838976	1.823571914
33° 15′ 30″	0.54841486	0.83620640	0.655836712	1.524769781	1.195876997	1.823437108
33° 15′ 40″	0.54845540	0.83617981	0.655906049	1.524608596	1.195915024	1.823302326
33° 15′ 50″	0.54849593	0.83615322	0.655975389	1.524447435	1.195953056	1.823167569
33° 16′ 00″	0.54853647	0.83612663	0.656044735	1.524286298	1.195991093	1.823032835
33° 16′ 10″	0.54857701	0.83610003	0.656114084	1.524125185	1.196029135	1.822898126
33° 16′ 20″	0.54861754	0.83607344	0.656183438	1.523964095	1.196067182	1.822763441
33° 16′ 30″	0.54865808	0.83604684	0.656252797	1.523803029	1.196105235	1.822628781
33° 16′ 40″	0.54869861	0.83602024	0.656322160	1.523641987	1.196143293	1.822494144
33° 16′ 50″	0.54873914	0.83599363	0.656391527	1.523480969	1.196181356	1.822359532
33° 17′ 00″	0.54877967	0.83596703	0.656460899	1.523319974	1.196219425	1.822224943
33° 17′ 10″	0.54882020	0.83594042	0.656530275	1.523159004	1.196257498	1.822090379
33° 17′ 20″	0.54886072	0.83591382	0.656599656	1.522998057	1.196295577	1.821955840
33° 17′ 30″	0.54890125	0.83588720	0.656669041	1.522837134	1.196333661	1.821821324
33° 17′ 40″	0.54894177	0.83586059	0.656738430	1.522676234	1.196371751	1.821686832
33° 17′ 50″	0.54898230	0.83583398	0.656807824	1.522515359	1.196409845	1.821552365
33° 18′ 00″	0.54902282	0.83580736	0.656877222	1.522354507	1.196447945	1.821417921
33° 18′ 10″	0.54906334	0.83578074	0.656946625	1.522193679	1.196486050	1.821283502
33° 18′ 20″	0.54910386	0.83575412	0.657016032	1.522032874	1.196524160	1.821149107
33° 18′ 30″	0.54914438	0.83572750	0.657085444	1.521872094	1.196562276	1.821014736
33° 18′ 40″ 33° 18′ 50″	0.54918489	0.83570088	0.657154860	1.521711337	1.196600397	1.820880389
33° 18′ 50″ 33° 19′ 00″	0.54922541	0.83567425	0.657224280	1.521550604	1.196638523	1.820746067
33° 19′ 00″ 33° 19′ 10″	0.54926592	0.83564762 0.83562099	0.657293705	1.521389894	1.196676654	1.820611768 1.820477493
33° 19′ 10″ 33° 19′ 20″	0.54930643		0.657363134	1.521229208	1.196714791 1.196752932	
33° 19′ 20″ 33° 19′ 30″	0.54934695	0.83559436	0.657432568 0.657502006	1.521068546 1.520907908		1.820343243 1.820209016
33° 19′ 30″ 33° 19′ 40″	0.54938746	0.83556773 0.83554109	0.657571448	1.520907908	1.196791079 1.196829232	1.820209016
33° 19′ 50″	0.54946847	0.83551445	0.657640895	1.520747273	1.176827232	1.819940636
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250 33° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
33° 20′ 00″	0.54950898	0.83548781	0.657710347	1.520426135	1.196905552	1.819806482
33° 20′ 10″	0.54954948	0.83546117	0.657779802	1.520265591	1.196943720	1.819672351
33° 20′ 20″	0.54958999	0.83543453	0.657849263	1.520105071	1.196981893	1.819538245
33° 20′ 30″	0.54963049	0.83540788	0.657918727	1.519944574	1.197020072	1.819404163
33° 20′ 40″	0.54967099	0.83538123	0.657988196	1.519784102	1.197058255	1.819270105
33° 20′ 50″	0.54971149	0.83535458	0.658057670	1.519623653	1.197096444	1.819136071
33° 21′ 00″	0.54975199	0.83532793	0.658127148	1.519463227	1.197134639	1.819002061
33° 21′ 10″	0.54979249	0.83530128	0.658196630	1.519302825	1.197172838	1.818868075
33° 21′ 20″	0.54983298	0.83527462	0.658266117	1.519142447	1.197211043	1.818734113
33° 21′ 30″	0.54987348	0.83524796	0.658335608	1.518982093	1.197249253	1.818600175
33° 21′ 40″	0.54991397	0.83522130	0.658405104	1.518821762	1.197287468	1.818466261
33° 21′ 50″	0.54995446	0.83519464	0.658474604	1.518661454	1.197325688	1.818332371
33° 22′ 00″	0.54999495	0.83516798	0.658544109	1.518501171	1.197363914	1.818198505
33° 22′ 10″	0.55003544	0.83514131	0.658613618	1.518340910	1.197402145	1.818064663
33° 22′ 20″	0.55007593	0.83511465	0.658683131	1.518180674	1.197440382	1.817930845
33° 22′ 30″	0.55011642	0.83508798	0.658752649	1.518020461	1.197478623	1.817797051
33° 22′ 40″	0.55015690	0.83506130	0.658822171	1.517860272	1.197516870	1.817663281
33° 22′ 50″	0.55019739	0.83503463	0.658891698	1.517700106	1.197555122	1.817529535
33° 23′ 00″	0.55023787	0.83500796	0.658961229	1.517539964	1.197593379	1.817395813
33° 23′ 10″	0.55027835	0.83498128	0.659030765	1.517379845	1.197631642	1.817262115
33° 23′ 20″	0.55031883	0.83495460	0.659100305	1.517219750	1.197669910	1.817128440
33° 23′ 30″	0.55035931	0.83492792	0.659169850	1.517059678	1.197708183	1.816994790
33° 23′ 40″	0.55039979	0.83490124	0.659239399	1.516899630	1.197746461	1.816861164
33° 23′ 50″	0.55044026	0.83487455	0.659308952	1.516739606	1.197784745	1.816727561
33° 24′ 00″	0.55048074	0.83484786	0.659378510	1.516579605	1.197823033	1.816593983
33° 24′ 10″	0.55052121	0.83482117	0.659448072	1.516419627	1.197861328	1.816460428
33° 24′ 20″	0.55056169	0.83479448	0.659517639	1.516259674	1.197899627	1.816326897
33° 24′ 30″	0.55060216	0.83476779	0.659587210	1.516099743	1.197937932	1.816193390
33° 24′ 40″	0.55064263	0.83474110	0.659656786	1.515939836	1.197976241	1.816059907
33° 24′ 50″	0.55068310	0.83471440	0.659726366	1.515779953	1.198014557	1.815926448
33° 25′ 00″	0.55072356	0.83468770	0.659795951	1.515620093	1.198052877	1.815793013
33° 25′ 10″	0.55076403	0.83466100	0.659865540	1.515460257	1.198091203	1.815659602
33° 25′ 20″	0.55080450	0.83463430	0.659935133	1.515300444	1.198129534	1.815526214
33° 25′ 30″	0.55084496	0.83460759	0.660004731	1.515140654	1.198167870	1.815392851
33° 25′ 40″	0.55088542	0.83458088	0.660074333	1.514980888	1.198206212	1.815259511
33° 25′ 50″	0.55092588	0.83455418	0.660143940	1.514821146	1.198244558	1.815126195
33° 26′ 00″	0.55096634	0.83452747	0.660213552	1.514661427	1.198282911	1.814992903
33° 26′ 10″	0.55100680	0.83450075	0.660283167	1.514501731	1.198321268	1.814859635
33° 26′ 20″	0.55104726	0.83447404	0.660352787	1.514342059	1.198359630	1.814726390
33° 26′ 30″	0.55108771	0.83444732	0.660422412	1.514182411	1.198397998	1.814593170
33° 26′ 40″	0.55112817	0.83442060	0.660492041	1.514022785	1.198436372	1.814459973
33° 26′ 50″ 33° 27′ 00″	0.55116862	0.83439388	0.660561675	1.513863184	1.198474750	1.814326800
33° 27′ 00″ 33° 27′ 10″	0.55120907	0.83436716	0.660631313	1.513703605	1.198513134	1.814193651
33° 27′ 10″ 33° 27′ 20″	0.55124952	0.83434044	0.660700955	1.513544050 1.513384519	1.198551523	1.814060526
33° 27′ 30″	0.55128997	0.83431371	0.660770602		1.198589917 1.198628316	1.813927425
33° 27′ 30″ 33° 27′ 40″	0.55133042 0.55137087	0.83428698 0.83426025	0.660840254 0.660909910	1.513225011 1.513065526	1.198628316	1.813794347 1.813661293
33° 27′ 50″	0.55141131	0.83423352	0.660979570	1.512906064	1.198705131	1.813528263
=======================================	0.33141131	0.03423332	0.000//73/0	1.314/00004	1.170/03131	1.013340403

251 33° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
33° 28′ 00″	0.55145176	0.83420678	0.661049235	1.512746627	1.198743547	1.813395256
33° 28′ 10″	0.55149220	0.83418005	0.661118904	1.512587212	1.198781967	1.813262274
33° 28′ 20″	0.55153264	0.83415331	0.661188578	1.512427821	1.198820393	1.813129315
33° 28′ 30″	0.55157308	0.83412657	0.661258256	1.512268453	1.198858825	1.812996380
33° 28′ 40″	0.55161352	0.83409983	0.661327939	1.512109109	1.198897261	1.812863469
33° 28′ 50″	0.55165396	0.83407308	0.661397626	1.511949788	1.198935703	1.812730581
33° 29′ 00″	0.55169439	0.83404634	0.661467318	1.511790490	1.198974150	1.812597717
33° 29′ 10″	0.55173483	0.83401959	0.661537014	1.511631215	1.199012602	1.812464877
33° 29′ 20″	0.55177526	0.83399284	0.661606714	1.511471964	1.199051060	1.812332061
33° 29′ 30″	0.55181570	0.83396609	0.661676419	1.511312737	1.199089523	1.812199268
33° 29′ 40″	0.55185613	0.83393934	0.661746129	1.511153532	1.199127991	1.812066499
33° 29′ 50″	0.55189656	0.83391258	0.661815843	1.510994351	1.199166465	1.811933754
33° 30′ 00″	0.55193699	0.83388582	0.661885561	1.510835194	1.199204943	1.811801033
33° 30′ 10″	0.55197741	0.83385906	0.661955284	1.510676059	1.199243427	1.811668335
33° 30′ 20″	0.55201784	0.83383230	0.662025012	1.510516948	1.199281917	1.811535661
33° 30′ 30″	0.55205826	0.83380554	0.662094743	1.510357860	1.199320411	1.811403010
33° 30′ 40″	0.55209869	0.83377877	0.662164480	1.510198796	1.199358911	1.811270384
33° 30′ 50″	0.55213911	0.83375200	0.662234221	1.510039755	1.199397417	1.811137781
33° 31′ 00″	0.55217953	0.83372523	0.662303966	1.509880737	1.199435927	1.811005201
33° 31′ 10″	0.55221995	0.83369846	0.662373716	1.509721742	1.199474443	1.810872646
33° 31′ 20″	0.55226037	0.83367169	0.662443470	1.509562771	1.199512964	1.810740114
33° 31′ 30″	0.55230078	0.83364491	0.662513229	1.509403823	1.199551490	1.810607605
33° 31′ 40″	0.55234120	0.83361814	0.662582992	1.509244898	1.199590022	1.810475120
33° 31′ 50″	0.55238161	0.83359136	0.662652760	1.509085996	1.199628559	1.810342659
33° 32′ 00″	0.55242203	0.83356458	0.662722532	1.508927118	1.199667101	1.810210222
33° 32′ 10″	0.55246244	0.83353779	0.662792309	1.508768263	1.199705649	1.810077808
33° 32′ 20″	0.55250285	0.83351101	0.662862090	1.508609431	1.199744202	1.809945418
33° 32′ 30″	0.55254326	0.83348422	0.662931875	1.508450622	1.199782760	1.809813051
33° 32′ 40″	0.55258367	0.83345743	0.663001666	1.508291837	1.199821324	1.809680708
33° 32′ 50″	0.55262407	0.83343064	0.663071460	1.508133075	1.199859892	1.809548389
33° 33′ 00″	0.55266448	0.83340385	0.663141259	1.507974336	1.199898466	1.809416093
33° 33′ 10″	0.55270488	0.83337705	0.663211063	1.507815620	1.199937046	1.809283821
33° 33′ 20″	0.55274528	0.83335026	0.663280871	1.507656928	1.199975630	1.809151572
33° 33′ 30″	0.55278569	0.83332346	0.663350684	1.507498258	1.200014220	1.809019347
33° 33′ 40″	0.55282609	0.83329666	0.663420501	1.507339612	1.200052816	1.808887146
33° 33′ 50″	0.55286648	0.83326985	0.663490322	1.507180989	1.200091416	1.808754968
33° 34′ 00″	0.55290688	0.83324305	0.663560148	1.507022389	1.200130022	1.808622814
33° 34′ 10″	0.55294728	0.83321624	0.663629979	1.506863813	1.200168633	1.808490683
33° 34′ 20″	0.55298767	0.83318943	0.663699814	1.506705259	1.200207250	1.808358576
33° 34′ 30″	0.55302807	0.83316262	0.663769653	1.506546729	1.200245872	1.808226492
33° 34′ 40″	0.55306846	0.83313581	0.663839497	1.506388222	1.200284499	1.808094432
33° 34′ 50″	0.55310885	0.83310900	0.663909346	1.506229738	1.200323131	1.807962395
33° 35′ 00″	0.55314924	0.83308218	0.663979199	1.506071277	1.200361769	1.807830382
33° 35′ 10″	0.55318963	0.83305536	0.664049056	1.505912839	1.200400412	1.807698393
33° 35′ 20″	0.55323001	0.83302854	0.664118918	1.505754425	1.200439060	1.807566427
33° 35′ 30″	0.55327040	0.83300172	0.664188785	1.505596033	1.200477714	1.807434484
33° 35′ 40″	0.55331078	0.83297490	0.664258656	1.505437665	1.200516373	1.807302565
33° 35′ 50″	0.55335117	0.83294807	0.664328531	1.505279320	1.200555037	1.807170670

252 33° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\csc(x)$
33° 36′ 00″	0.55339155	0.83292124	0.664398412	1.505120998	1.200593707	1.807038798
33° 36′ 10″	0.55343193	0.83289441	0.664468296	1.504962699	1.200632382	1.806906950
33° 36′ 20″	0.55347231	0.83286758	0.664538185	1.504804423	1.200671062	1.806775125
33° 36′ 30″	0.55351269	0.83284074	0.664608079	1.504646170	1.200709748	1.806643323
33° 36′ 40″	0.55355306	0.83281391	0.664677977	1.504487940	1.200748439	1.806511545
33° 36′ 50″	0.55359344	0.83278707	0.664747879	1.504329734	1.200787135	1.806379791
33° 37′ 00″	0.55363381	0.83276023	0.664817786	1.504171550	1.200825836	1.806248059
33° 37′ 10″	0.55367419	0.83273339	0.664887698	1.504013390	1.200864543	1.806116352
33° 37′ 20″	0.55371456	0.83270654	0.664957614	1.503855252	1.200903255	1.805984668
33° 37′ 30″	0.55375493	0.83267970	0.665027534	1.503697138	1.200941973	1.805853007
33° 37′ 40″	0.55379530	0.83265285	0.665097459	1.503539047	1.200980695	1.805721370
33° 37′ 50″	0.55383566	0.83262600	0.665167389	1.503380978	1.201019423	1.805589756
33° 38′ 00″	0.55387603	0.83259915	0.665237323	1.503222933	1.201058157	1.805458165
33° 38′ 10″	0.55391639	0.83257230	0.665307262	1.503064911	1.201096896	1.805326598
33° 38′ 20″	0.55395676	0.83254544	0.665377205	1.502906912	1.201135640	1.805195055
33° 38′ 30″	0.55399712	0.83251858	0.665447152	1.502748936	1.201174389	1.805063534
33° 38′ 40″	0.55403748	0.83249172	0.665517105	1.502590982	1.201213144	1.804932038
33° 38′ 50″	0.55407784	0.83246486	0.665587061	1.502433052	1.201251904	1.804800564
33° 39′ 00″	0.55411820	0.83243800	0.665657022	1.502275145	1.201290669	1.804669114
33° 39′ 10″	0.55415856	0.83241113	0.665726988	1.502117261	1.201329440	1.804537688
33° 39′ 20″	0.55419891	0.83238427	0.665796958	1.501959400	1.201368216	1.804406284
33° 39′ 30″	0.55423927	0.83235740	0.665866933	1.501801562	1.201406997	1.804274905
33° 39′ 40″	0.55427962	0.83233053	0.665936912	1.501643747	1.201445784	1.804143548
33° 39′ 50″	0.55431997	0.83230365	0.666006896	1.501485955	1.201484576	1.804012215
33° 40′ 00″	0.55436032	0.83227678	0.666076884	1.501328185	1.201523373	1.803880905
33° 40′ 10″	0.55440067	0.83224990	0.666146877	1.501170439	1.201562176	1.803749619
33° 40′ 20″	0.55444102	0.83222302	0.666216874	1.501012716	1.201600984	1.803618356
33° 40′ 30″	0.55448137	0.83219614	0.666286876	1.500855016	1.201639797	1.803487116
33° 40′ 40″	0.55452171	0.83216926	0.666356883	1.500697338	1.201678616	1.803355900
33° 40′ 50″	0.55456206	0.83214237	0.666426893	1.500539684	1.201717439	1.803224707
33° 41′ 00″	0.55460240	0.83211548	0.666496909	1.500382052	1.201756269	1.803093537
33° 41′ 10″	0.55464274	0.83208860	0.666566929	1.500224444	1.201795103	1.802962391
33° 41′ 20″	0.55468308	0.83206170	0.666636953	1.500066858	1.201833943	1.802831267
33° 41′ 30″	0.55472342	0.83203481	0.666706982	1.499909295	1.201872789	1.802700168
33° 41′ 40″	0.55476376	0.83200792	0.666777016	1.499751756	1.201911639	1.802569091
33° 41′ 50″	0.55480409	0.83198102	0.666847054	1.499594239	1.201950495	1.802438038
33° 42′ 00″	0.55484443	0.83195412	0.666917096	1.499436745	1.201989357	1.802307008
33° 42′ 10″	0.55488476	0.83192722	0.666987143	1.499279274	1.202028223	1.802176002
33° 42′ 20″	0.55492509	0.83190032	0.667057195	1.499121825	1.202067095	1.802045018
33° 42′ 30″	0.55496542	0.83187341	0.667127251	1.498964400	1.202105973	1.801914058
33° 42′ 40″	0.55500575	0.83184651	0.667197312	1.498806998	1.202144855	1.801783121
33° 42′ 50″	0.55504608	0.83181960	0.667267377	1.498649618	1.202183743	1.801652208
33° 43′ 00″	0.55508641	0.83179269	0.667337447	1.498492261	1.202222637	1.801521318
33° 43′ 10″	0.55512674	0.83176578	0.667407521	1.498334928	1.202261535	1.801390451
33° 43′ 20″	0.55516706	0.83173886	0.667477600	1.498177617	1.202300439	1.801259607
33° 43′ 30″	0.55520738	0.83171195	0.667547683	1.498020328	1.202339349	1.801128786
33° 43′ 40″	0.55524770	0.83168503	0.667617771	1.497863063	1.202378264	1.800997989
33° 43′ 50″	0.55528803	0.83165811	0.667687864	1.497705821	1.202417184	1.800867215

253 33° 43′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\csc(x)$
33° 44′ 00″	0.55532834	0.83163119	0.667757961	1.497548601	1.202456109	1.800736464
33° 44′ 10″	0.55536866	0.83160426	0.667828062	1.497391404	1.202495040	1.800605736
33° 44′ 20″	0.55540898	0.83157734	0.667898168	1.497234230	1.202533976	1.800475032
33° 44′ 30″	0.55544929	0.83155041	0.667968279	1.497077079	1.202572917	1.800344351
33° 44′ 40″	0.55548961	0.83152348	0.668038394	1.496919951	1.202611864	1.800213693
33° 44′ 50″	0.55552992	0.83149655	0.668108514	1.496762845	1.202650816	1.800083058
33° 45′ 00″	0.55557023	0.83146961	0.668178638	1.496605763	1.202689774	1.799952446
33° 45′ 10″	0.55561054	0.83144268	0.668248767	1.496448703	1.202728737	1.799821858
33° 45′ 20″	0.55565085	0.83141574	0.668318900	1.496291666	1.202767705	1.799691293
33° 45′ 30″	0.55569116	0.83138880	0.668389038	1.496134651	1.202806679	1.799560750
33° 45′ 40″	0.55573147	0.83136186	0.668459180	1.495977660	1.202845657	1.799430232
33° 45′ 50″	0.55577177	0.83133491	0.668529327	1.495820691	1.202884642	1.799299736
33° 46′ 00″	0.55581207	0.83130797	0.668599479	1.495663745	1.202923631	1.799169263
33° 46′ 10″	0.55585238	0.83128102	0.668669635	1.495506821	1.202962626	1.799038814
33° 46′ 20″	0.55589268	0.83125407	0.668739795	1.495349921	1.203001627	1.798908387
33° 46′ 30″	0.55593298	0.83122712	0.668809960	1.495193043	1.203040632	1.798777984
33° 46′ 40″	0.55597328	0.83120017	0.668880130	1.495036188	1.203079643	1.798647604
33° 46′ 50″	0.55601357	0.83117321	0.668950304	1.494879356	1.203118660	1.798517247
33° 47′ 00″	0.55605387	0.83114625	0.669020483	1.494722546	1.203157682	1.798386913
33° 47′ 10″	0.55609416	0.83111929	0.669090666	1.494565759	1.203196709	1.798256603
33° 47′ 20″	0.55613446	0.83109233	0.669160854	1.494408995	1.203235741	1.798126315
33° 47′ 30″	0.55617475	0.83106537	0.669231047	1.494252254	1.203274779	1.797996051
33° 47′ 40″	0.55621504	0.83103841	0.669301244	1.494095535	1.203313822	1.797865809
33° 47′ 50″	0.55625533	0.83101144	0.669371445	1.493938839	1.203352871	1.797735591
33° 48′ 00″	0.55629562	0.83098447	0.669441652	1.493782166	1.203391925	1.797605396
33° 48′ 10″	0.55633590	0.83095750	0.669511862	1.493625515	1.203430984	1.797475224
33° 48′ 20″	0.55637619	0.83093053	0.669582077	1.493468887	1.203470049	1.797345074
33° 48′ 30″	0.55641647	0.83090355	0.669652297	1.493312282	1.203509119	1.797214948
33° 48′ 40″	0.55645675	0.83087657	0.669722522	1.493155699	1.203548194	1.797084846
33° 48′ 50″	0.55649704	0.83084959	0.669792750	1.492999139	1.203587275	1.796954766
33° 49′ 00″	0.55653732	0.83082261	0.669862984	1.492842602	1.203626361	1.796824709
33° 49′ 10″	0.55657759	0.83079563	0.669933222	1.492686087	1.203665453	1.796694675
33° 49′ 20″	0.55661787	0.83076865	0.670003465	1.492529596	1.203704550	1.796564664
33° 49′ 30″	0.55665815	0.83074166	0.670073712	1.492373126	1.203743652	1.796434677
33° 49′ 40″	0.55669842	0.83071467	0.670143963	1.492216680	1.203782759	1.796304712
33° 49′ 50″	0.55673870	0.83068768	0.670214220	1.492060256	1.203821872	1.796174770
33° 50′ 00″	0.55677897	0.83066069	0.670284481	1.491903854	1.203860991	1.796044852
33° 50′ 10″	0.55681924	0.83063369	0.670354746	1.491747475	1.203900114	1.795914956
33° 50′ 20″	0.55685951	0.83060670	0.670425016	1.491591119	1.203939244	1.795785084
33° 50′ 30″	0.55689978	0.83057970	0.670495291	1.491434786	1.203978378	1.795655234
33° 50′ 40″	0.55694004	0.83055270	0.670565570	1.491278475	1.204017518	1.795525408
33° 50′ 50″	0.55698031	0.83052570	0.670635853	1.491122186	1.204056663	1.795395604
33° 51′ 00″	0.55702057	0.83049869	0.670706142	1.490965921	1.204095814	1.795265823
33° 51′ 10″	0.55706084	0.83047169	0.670776435	1.490809677	1.204134970	1.795136066
33° 51′ 20″	0.55710110	0.83044468	0.670846732	1.490653457	1.204174131	1.795006331
33° 51′ 30″	0.55714136	0.83041767	0.670917034	1.490497259	1.204213298	1.794876619
33° 51′ 40″	0.55718162	0.83039066	0.670987340	1.490341083	1.204252470	1.794746931
33° 51′ 50″	0.55722188	0.83036364	0.671057652	1.490184931	1.204291647	1.794617265

254 33° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
33° 52′ 00″	0.55726213	0.83033663	0.671127967	1.490028800	1.204330830	1.794487622
33° 52′ 10″	0.55730239	0.83030961	0.671198288	1.489872693	1.204370018	1.794358002
33° 52′ 20″	0.55734264	0.83028259	0.671268612	1.489716607	1.204409212	1.794228405
33° 52′ 30″	0.55738289	0.83025557	0.671338942	1.489560545	1.204448411	1.794098831
33° 52′ 40″	0.55742315	0.83022854	0.671409276	1.489404505	1.204487615	1.793969280
33° 52′ 50″	0.55746340	0.83020152	0.671479615	1.489248487	1.204526825	1.793839752
33° 53′ 00″	0.55750364	0.83017449	0.671549958	1.489092492	1.204566040	1.793710247
33° 53′ 10″	0.55754389	0.83014746	0.671620305	1.488936520	1.204605261	1.793580765
33° 53′ 20″	0.55758414	0.83012043	0.671690658	1.488780570	1.204644487	1.793451305
33° 53′ 30″	0.55762438	0.83009340	0.671761015	1.488624642	1.204683718	1.793321869
33° 53′ 40″	0.55766463	0.83006636	0.671831376	1.488468737	1.204722955	1.793192455
33° 53′ 50″	0.55770487	0.83003932	0.671901742	1.488312855	1.204762197	1.793063064
33° 54′ 00″	0.55774511	0.83001229	0.671972113	1.488156995	1.204801444	1.792933697
33° 54′ 10″	0.55778535	0.82998524	0.672042488	1.488001157	1.204840697	1.792804352
33° 54′ 20″	0.55782559	0.82995820	0.672112868	1.487845342	1.204879956	1.792675030
33° 54′ 30″	0.55786582	0.82993116	0.672183252	1.487689549	1.204919219	1.792545730
33° 54′ 40″	0.55790606	0.82990411	0.672253641	1.487533779	1.204958488	1.792416454
33° 54′ 50″	0.55794629	0.82987706	0.672324035	1.487378032	1.204997763	1.792287201
33° 55′ 00″	0.55798653	0.82985001	0.672394433	1.487222307	1.205037043	1.792157970
33° 55′ 10″	0.55802676	0.82982296	0.672464836	1.487066604	1.205076328	1.792028762
33° 55′ 20″	0.55806699	0.82979590	0.672535243	1.486910924	1.205115618	1.791899577
33° 55′ 30″	0.55810722	0.82976884	0.672605655	1.486755266	1.205154914	1.791770415
33° 55′ 40″	0.55814744	0.82974179	0.672676072	1.486599631	1.205194216	1.791641276
33° 55′ 50″	0.55818767	0.82971472	0.672746493	1.486444018	1.205233523	1.791512159
33° 56′ 00″	0.55822790	0.82968766	0.672816919	1.486288427	1.205272835	1.791383066
33° 56′ 10″	0.55826812	0.82966060	0.672887349	1.486132859	1.205312152	1.791253995
33° 56′ 20″	0.55830834	0.82963353	0.672957784	1.485977313	1.205351475	1.791124947
33° 56′ 30″	0.55834856	0.82960646	0.673028224	1.485821790	1.205390804	1.790995922
33° 56′ 40″	0.55838878	0.82957939	0.673098668	1.485666289	1.205430138	1.790866919
33° 56′ 50″	0.55842900	0.82955232	0.673169116	1.485510811	1.205469477	1.790737940
33° 57′ 00″	0.55846922	0.82952524	0.673239570	1.485355355	1.205508821	1.790608983
33° 57′ 10″	0.55850943	0.82949817	0.673310028	1.485199921	1.205548171	1.790480049
33° 57′ 20″	0.55854965	0.82947109	0.673380490	1.485044510	1.205587527	1.790351138
33° 57′ 30″	0.55858986	0.82944401	0.673450957	1.484889121	1.205626888	1.790222249
33° 57′ 40″	0.55863007	0.82941693	0.673521429	1.484733754	1.205666254	1.790093383
33° 57′ 50″	0.55867029	0.82938984	0.673591905	1.484578410	1.205705625	1.789964540
33° 58′ 00″	0.55871049	0.82936276	0.673662386	1.484423088	1.205745002	1.789835720
33° 58′ 10″	0.55875070	0.82933567	0.673732872	1.484267789	1.205784385	1.789706923
33° 58′ 20″	0.55879091	0.82930858	0.673803362	1.484112512	1.205823773	1.789578148
33° 58′ 30″	0.55883111	0.82928149	0.673873857	1.483957257	1.205863166	1.789449396
33° 58′ 40″	0.55887132	0.82925439	0.673944356	1.483802024	1.205902565	1.789320667
33° 58′ 50″	0.55891152	0.82922730	0.674014860	1.483646814	1.205941969	1.789191960
33° 59′ 00″	0.55895172	0.82920020	0.674085369	1.483491627	1.205981378	1.789063276
33° 59′ 10″	0.55899192	0.82917310	0.674155882	1.483336461	1.206020793	1.788934615
33° 59′ 20″	0.55903212	0.82914600	0.674226400	1.483181318	1.206060213	1.788805977
33° 59′ 30″	0.55907232	0.82911890	0.674296922	1.483026197	1.206099639	1.788677361
33° 59′ 40″	0.55911252	0.82909179	0.674367449	1.482871099	1.206139070	1.788548768
33° 59′ 50″	0.55915271	0.82906468	0.674437981	1.482716022	1.206178507	1.788420198

255 33° 59′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
34° 00′ 00″	0.55919290	0.82903757	0.674508517	1.482560969	1.206217949	1.788291650
34° 00′ 10″	0.55923310	0.82901046	0.674579058	1.482405937	1.206257396	1.788163125
34° 00′ 20″	0.55927329	0.82898335	0.674649603	1.482250928	1.206296849	1.788034623
34° 00′ 30″	0.55931348	0.82895623	0.674720153	1.482095940	1.206336307	1.787906143
34° 00′ 40″	0.55935366	0.82892912	0.674790708	1.481940976	1.206375770	1.787777686
34° 00′ 50″	0.55939385	0.82890200	0.674861267	1.481786033	1.206415239	1.787649252
34° 01′ 00″	0.55943404	0.82887487	0.674931831	1.481631113	1.206454714	1.787520840
34° 01′ 10″	0.55947422	0.82884775	0.675002400	1.481476215	1.206494194	1.787392451
34° 01′ 20″	0.55951440	0.82882063	0.675072973	1.481321339	1.206533679	1.787264085
34° 01′ 30″	0.55955459	0.82879350	0.675143551	1.481166485	1.206573170	1.787135741
34° 01′ 40″	0.55959477	0.82876637	0.675214133	1.481011654	1.206612666	1.787007420
34° 01′ 50″	0.55963495	0.82873924	0.675284720	1.480856845	1.206652167	1.786879122
34° 02′ 00″	0.55967512	0.82871211	0.675355312	1.480702058	1.206691674	1.786750846
34° 02′ 10″	0.55971530	0.82868497	0.675425908	1.480547294	1.206731187	1.786622593
34° 02′ 20″	0.55975547	0.82865784	0.675496509	1.480392551	1.206770705	1.786494362
34° 02′ 30″	0.55979565	0.82863070	0.675567114	1.480237831	1.206810228	1.786366154
34° 02′ 40″	0.55983582	0.82860356	0.675637724	1.480083133	1.206849756	1.786237969
34° 02′ 50″	0.55987599	0.82857641	0.675708339	1.479928457	1.206889291	1.786109806
34° 03′ 00″	0.55991616	0.82854927	0.675778959	1.479773804	1.206928830	1.785981666
34° 03′ 10″	0.55995633	0.82852212	0.675849583	1.479619172	1.206968375	1.785853548
34° 03′ 20″	0.55999650	0.82849497	0.675920211	1.479464563	1.207007925	1.785725453
34° 03′ 30″	0.56003666	0.82846782	0.675990845	1.479309976	1.207047481	1.785597380
34° 03′ 40″	0.56007683	0.82844067	0.676061482	1.479155411	1.207087042	1.785469330
34° 03′ 50″	0.56011699	0.82841352	0.676132125	1.479000868	1.207126609	1.785341303
34° 04′ 00″	0.56015715	0.82838636	0.676202772	1.478846348	1.207166181	1.785213298
34° 04′ 10″	0.56019731	0.82835920	0.676273424	1.478691849	1.207205759	1.785085316
34° 04′ 20″	0.56023747	0.82833204	0.676344080	1.478537373	1.207245342	1.784957356
34° 04′ 30″	0.56027763	0.82830488	0.676414741	1.478382919	1.207284930	1.784829419
34° 04′ 40″	0.56031779	0.82827772	0.676485407	1.478228487	1.207324524	1.784701505
34° 04′ 50″	0.56035794	0.82825055	0.676556077	1.478074077	1.207364123	1.784573612
34° 05′ 00″	0.56039810	0.82822338	0.676626752	1.477919690	1.207403728	1.784445743
34° 05′ 10″	0.56043825	0.82819621	0.676697432	1.477765324	1.207443338	1.784317896
34° 05′ 20″	0.56047840	0.82816904	0.676768116	1.477610981	1.207482954	1.784190071
34° 05′ 30″	0.56051855	0.82814187	0.676838805	1.477456659	1.207522575	1.784062269
34° 05′ 40″	0.56055870	0.82811469	0.676909499	1.477302360	1.207562201	1.783934490
34° 05′ 50″	0.56059885	0.82808751	0.676980197	1.477148083	1.207601833	1.783806732
34° 06′ 00″	0.56063899	0.82806033	0.677050900	1.476993828	1.207641470	1.783678998
34° 06′ 10″	0.56067914	0.82803315	0.677121607	1.476839595	1.207681113	1.783551286
34° 06′ 20″	0.56071928	0.82800597	0.677192319	1.476685384	1.207720761	1.783423596
34° 06′ 30″	0.56075943	0.82797878	0.677263036	1.476531195	1.207760415	1.783295929
34° 06′ 40″	0.56079957	0.82795160	0.677333757	1.476377029	1.207800074	1.783168284
34° 06′ 50″	0.56083971	0.82792441	0.677404483	1.476222884	1.207839739	1.783040662
34° 07′ 00″	0.56087984	0.82789722	0.677475214	1.476068761	1.207879409	1.782913062
34° 07′ 10″	0.56091998	0.82787002	0.677545949	1.475914661	1.207919084	1.782785485
34° 07′ 20″	0.56096012	0.82784283	0.677616689	1.475760582	1.207958765	1.782657930
34° 07′ 30″	0.56100025	0.82781563	0.677687434	1.475606526	1.207998451	1.782530398
34° 07′ 40″	0.56104038	0.82778843	0.677758183	1.475452491	1.208038143	1.782402888
34° 07′ 50″	0.56108052	0.82776123	0.677828937	1.475298479	1.208077840	1.782275400
	1.00.0002	0.02//0120	2.0.7020707	.,		522, 5100

256 34° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
34° 08′ 00″	0.56112065	0.82773403	0.677899696	1.475144489	1.208117543	1.782147935
34° 08′ 10″	0.56116077	0.82770682	0.677970459	1.474990521	1.208157251	1.782020492
34° 08′ 20″	0.56120090	0.82767962	0.678041227	1.474836574	1.208196965	1.781893072
34° 08′ 30″	0.56124103	0.82765241	0.678111999	1.474682650	1.208236684	1.781765674
34° 08′ 40″	0.56128115	0.82762520	0.678182776	1.474528748	1.208276408	1.781638299
34° 08′ 50″	0.56132128	0.82759798	0.678253558	1.474374867	1.208316138	1.781510946
34° 09′ 00″	0.56136140	0.82757077	0.678324345	1.474221009	1.208355873	1.781383615
34° 09′ 10″	0.56140152	0.82754355	0.678395136	1.474067173	1.208395614	1.781256307
34° 09′ 20″	0.56144164	0.82751633	0.678465932	1.473913359	1.208435360	1.781129021
34° 09′ 30″	0.56148176	0.82748911	0.678536732	1.473759566	1.208475112	1.781001757
34° 09′ 40″	0.56152188	0.82746189	0.678607537	1.473605796	1.208514869	1.780874516
34° 09′ 50″	0.56156199	0.82743467	0.678678347	1.473452048	1.208554632	1.780747297
34° 10′ 00″	0.56160211	0.82740744	0.678749161	1.473298321	1.208594400	1.780620101
34° 10′ 10″	0.56164222	0.82738021	0.678819980	1.473144617	1.208634174	1.780492927
34° 10′ 20″	0.56168233	0.82735298	0.678890804	1.472990934	1.208673953	1.780365775
34° 10′ 30″	0.56172244	0.82732575	0.678961633	1.472837274	1.208713737	1.780238646
34° 10′ 40″	0.56176255	0.82729852	0.679032466	1.472683635	1.208753527	1.780111538
34° 10′ 50″	0.56180266	0.82727128	0.679103303	1.472530019	1.208793323	1.779984454
34° 11′ 00″	0.56184277	0.82724404	0.679174146	1.472376424	1.208833123	1.779857391
34° 11′ 10″	0.56188287	0.82721680	0.679244993	1.472222851	1.208872930	1.779730351
34° 11′ 20″	0.56192298	0.82718956	0.679315845	1.472069300	1.208912742	1.779603333
34° 11′ 30″	0.56196308	0.82716232	0.679386701	1.471915771	1.208952559	1.779476338
34° 11′ 40″	0.56200318	0.82713507	0.679457562	1.471762264	1.208992382	1.779349365
34° 11′ 50″	0.56204328	0.82710782	0.679528428	1.471608779	1.209032210	1.779222414
34° 12′ 00″	0.56208338	0.82708057	0.679599298	1.471455316	1.209072043	1.779095485
34° 12′ 10″	0.56212348	0.82705332	0.679670173	1.471301874	1.209111883	1.778968579
34° 12′ 20″	0.56216357	0.82702607	0.679741053	1.471148455	1.209151727	1.778841695
34° 12′ 30″	0.56220367	0.82699881	0.679811937	1.470995057	1.209191577	1.778714834
34° 12′ 40″	0.56224376	0.82697156	0.679882827	1.470841682	1.209231433	1.778587994
34° 12′ 50″	0.56228385	0.82694430	0.679953720	1.470688328	1.209271294	1.778461177
34° 13′ 00″	0.56232394	0.82691704	0.680024619	1.470534996	1.209311160	1.778334382
34° 13′ 10″	0.56236403	0.82688977	0.680095522	1.470381686	1.209351032	1.778207609
34° 13′ 20″	0.56240412	0.82686251	0.680166430	1.470228398	1.209390910	1.778080859
34° 13′ 30″	0.56244421	0.82683524	0.680237342	1.470075131	1.209430792	1.777954131
34° 13′ 40″	0.56248429	0.82680797	0.680308259	1.469921887	1.209470681	1.777827425
34° 13′ 50″	0.56252438	0.82678070	0.680379181	1.469768664	1.209510575	1.777700741
34° 14′ 00″	0.56256446	0.82675343	0.680450108	1.469615463	1.209550474	1.777574080
34° 14′ 10″	0.56260454	0.82672615	0.680521039	1.469462284	1.209590379	1.777447441
34° 14′ 20″	0.56264462	0.82669888	0.680591975	1.469309127	1.209630289	1.777320824
34° 14′ 30″	0.56268470	0.82667160	0.680662915	1.469155991	1.209670205	1.777194229
34° 14′ 40″	0.56272478	0.82664432	0.680733860	1.469002878	1.209710126	1.777067656
34° 14′ 50″	0.56276485	0.82661703	0.680804810	1.468849786	1.209750053	1.776941106
34° 15′ 00″	0.56280493	0.82658975	0.680875765	1.468696716	1.209789985	1.776814578
34° 15′ 10″	0.56284500	0.82656246	0.680946724	1.468543668	1.209829922	1.776688072
34° 15′ 20″	0.56288507	0.82653517	0.681017688	1.468390642	1.209869866	1.776561588
34° 15′ 30″	0.56292514	0.82650788	0.681088657	1.468237637	1.209909814	1.776435126
34° 15′ 40″	0.56296521	0.82648059	0.681159630	1.468084654	1.209949768	1.776308687
34° 15′ 50″	0.56300528	0.82645330	0.681230608	1.467931693	1.209989728	1.776182270

257 34° 15′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
34° 16′ 00″	0.56304535	0.82642600	0.681301591	1.467778754	1.210029693	1.776055875
34° 16′ 10″	0.56308541	0.82639870	0.681372578	1.467625836	1.210069663	1.775929502
34° 16′ 20″	0.56312548	0.82637140	0.681443570	1.467472941	1.210109639	1.775803151
34° 16′ 30″	0.56316554	0.82634410	0.681514567	1.467320067	1.210149621	1.775676822
34° 16′ 40″	0.56320560	0.82631680	0.681585569	1.467167214	1.210189608	1.775550516
34° 16′ 50″	0.56324566	0.82628949	0.681656575	1.467014384	1.210229600	1.775424232
34° 17′ 00″	0.56328572	0.82626218	0.681727586	1.466861575	1.210269598	1.775297969
34° 17′ 10″	0.56332578	0.82623487	0.681798601	1.466708788	1.210309602	1.775171729
34° 17′ 20″	0.56336584	0.82620756	0.681869621	1.466556023	1.210349611	1.775045511
34° 17′ 30″	0.56340589	0.82618025	0.681940646	1.466403279	1.210389625	1.774919316
34° 17′ 40″	0.56344595	0.82615293	0.682011676	1.466250557	1.210429645	1.774793142
34° 17′ 50″	0.56348600	0.82612561	0.682082710	1.466097857	1.210469671	1.774666990
34° 18′ 00″	0.56352605	0.82609829	0.682153749	1.465945179	1.210509702	1.774540861
34° 18′ 10″	0.56356610	0.82607097	0.682224793	1.465792522	1.210549738	1.774414753
34° 18′ 20″	0.56360615	0.82604365	0.682295842	1.465639887	1.210589780	1.774288668
34° 18′ 30″	0.56364619	0.82601632	0.682366895	1.465487274	1.210629827	1.774162605
34° 18′ 40″	0.56368624	0.82598900	0.682437953	1.465334682	1.210669880	1.774036564
34° 18′ 50″	0.56372628	0.82596167	0.682509015	1.465182112	1.210709939	1.773910545
34° 19′ 00″	0.56376633	0.82593434	0.682580082	1.465029563	1.210750003	1.773784548
34° 19′ 10″	0.56380637	0.82590700	0.682651154	1.464877037	1.210790072	1.773658573
34° 19′ 20″	0.56384641	0.82587967	0.682722231	1.464724532	1.210830147	1.773532620
34° 19′ 30″	0.56388645	0.82585233	0.682793312	1.464572049	1.210870227	1.773406689
34° 19′ 40″	0.56392649	0.82582499	0.682864398	1.464419587	1.210910313	1.773280780
34° 19′ 50″	0.56396652	0.82579765	0.682935489	1.464267147	1.210950405	1.773154894
34° 20′ 00″	0.56400656	0.82577031	0.683006585	1.464114728	1.210990501	1.773029029
34° 20′ 10″	0.56404659	0.82574296	0.683077685	1.463962332	1.211030604	1.772903186
34° 20′ 20″	0.56408662	0.82571562	0.683148790	1.463809956	1.211070712	1.772777366
34° 20′ 30″	0.56412666	0.82568827	0.683219899	1.463657603	1.211110825	1.772651567
34° 20′ 40″	0.56416669	0.82566092	0.683291014	1.463505271	1.211150944	1.772525791
34° 20′ 50″	0.56420671	0.82563357	0.683362133	1.463352961	1.211191068	1.772400036
34° 21′ 00″	0.56424674	0.82560621	0.683433256	1.463200672	1.211231198	1.772274304
34° 21′ 10″	0.56428677	0.82557885	0.683504385	1.463048405	1.211271334	1.772148593
34° 21′ 20″	0.56432679	0.82555150	0.683575518	1.462896160	1.211311475	1.772022904
34° 21′ 30″ 34° 21′ 40″	0.56436681	0.82552414	0.683646656	1.462743936	1.211351621	1.771897238
	0.56440684	0.82549677	0.683717798	1.462591734	1.211391773	1.771771593
34° 21′ 50″ 34° 22′ 00″	0.56444686	0.82546941	0.683788946	1.462439553	1.211431931	1.771645971
	0.56448688	0.82544204	0.683860098	1.462287394	1.211472093	1.771520370
34° 22′ 10″	0.56452689	0.82541468	0.683931254	1.462135256	1.211512262	1.771394792
34° 22′ 20″	0.56456691	0.82538731	0.684002416	1.461983140	1.211552436	1.771269235
34° 22′ 30″	0.56460693	0.82535993	0.684073582	1.461831046	1.211592615	1.771143700
34° 22′ 40″	0.56464694	0.82533256	0.684144753	1.461678973	1.211632800	1.771018187
34° 22′ 50″	0.56468695	0.82530518	0.684215929	1.461526922	1.211672991	1.770892697
34° 23′ 00″	0.56472696	0.82527781	0.684287109	1.461374892	1.211713187	1.770767228
34° 23′ 10″	0.56476697	0.82525043	0.684358294	1.461222884	1.211753389	1.770641781
34° 23′ 20″	0.56480698	0.82522304	0.684429484	1.461070897	1.211793596	1.770516356
34° 23′ 30″	0.56484699	0.82519566	0.684500678	1.460918932	1.211833808	1.770390953
34° 23′ 40″ 34° 23′ 50″	0.56488700	0.82516828	0.684571878	1.460766988	1.211874026	1.770265572
34 43 30"	0.56492700	0.82514089	0.684643082	1.460615066	1.211914250	1.770140212

258 **34° 23′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\csc(x)$
34° 24′ 00″	0.56496700	0.82511350	0.684714290	1.460463166	1.211954479	1.770014875
34° 24′ 10″	0.56500701	0.82508611	0.684785504	1.460311287	1.211994714	1.769889560
34° 24′ 20″	0.56504701	0.82505871	0.684856722	1.460159429	1.212034954	1.769764266
34° 24′ 30″	0.56508701	0.82503132	0.684927945	1.460007593	1.212075200	1.769638995
34° 24′ 40″	0.56512700	0.82500392	0.684999172	1.459855778	1.212115451	1.769513745
34° 24′ 50″	0.56516700	0.82497652	0.685070405	1.459703985	1.212155708	1.769388517
34° 25′ 00″	0.56520700	0.82494912	0.685141642	1.459552214	1.212195970	1.769263311
34° 25′ 10″	0.56524699	0.82492172	0.685212884	1.459400463	1.212236238	1.769138127
34° 25′ 20″	0.56528698	0.82489431	0.685284130	1.459248735	1.212276511	1.769012965
34° 25′ 30″	0.56532697	0.82486691	0.685355382	1.459097028	1.212316790	1.768887825
34° 25′ 40″	0.56536696	0.82483950	0.685426638	1.458945342	1.212357074	1.768762706
34° 25′ 50″	0.56540695	0.82481209	0.685497898	1.458793678	1.212397364	1.768637610
34° 26′ 00″	0.56544694	0.82478467	0.685569164	1.458642035	1.212437660	1.768512535
34° 26′ 10″	0.56548693	0.82475726	0.685640434	1.458490413	1.212477961	1.768387482
34° 26′ 20″	0.56552691	0.82472984	0.685711709	1.458338813	1.212518267	1.768262451
34° 26′ 30″	0.56556689	0.82470242	0.685782989	1.458187235	1.212558579	1.768137442
34° 26′ 40″	0.56560688	0.82467500	0.685854273	1.458035678	1.212598897	1.768012454
34° 26′ 50″	0.56564686	0.82464758	0.685925562	1.457884142	1.212639220	1.767887489
34° 27′ 00″	0.56568684	0.82462016	0.685996856	1.457732628	1.212679548	1.767762545
34° 27′ 10″	0.56572681	0.82459273	0.686068155	1.457581135	1.212719882	1.767637623
34° 27′ 20″	0.56576679	0.82456530	0.686139458	1.457429664	1.212760222	1.767512723
34° 27′ 30″	0.56580677	0.82453787	0.686210766	1.457278214	1.212800567	1.767387844
34° 27′ 40″	0.56584674	0.82451044	0.686282079	1.457126785	1.212840918	1.767262988
34° 27′ 50″	0.56588671	0.82448301	0.686353397	1.456975378	1.212881274	1.767138153
34° 28′ 00″	0.56592668	0.82445557	0.686424719	1.456823992	1.212921636	1.767013340
34° 28′ 10″	0.56596665	0.82442813	0.686496047	1.456672628	1.212962003	1.766888549
34° 28′ 20″	0.56600662	0.82440069	0.686567378	1.456521285	1.213002376	1.766763780
34° 28′ 30″	0.56604659	0.82437325	0.686638715	1.456369963	1.213042755	1.766639032
34° 28′ 40″	0.56608656	0.82434581	0.686710056	1.456218663	1.213083139	1.766514306
34° 28′ 50″	0.56612652	0.82431836	0.686781403	1.456067384	1.213123528	1.766389602
34° 29′ 00″	0.56616648	0.82429091	0.686852753	1.455916126	1.213163923	1.766264920
34° 29′ 10″	0.56620645	0.82426347	0.686924109	1.455764890	1.213204324	1.766140259
34° 29′ 20″	0.56624641	0.82423601	0.686995469	1.455613675	1.213244730	1.766015620
34° 29′ 30″	0.56628637	0.82420856	0.687066835	1.455462481	1.213285142	1.765891003
34° 29′ 40″	0.56632632	0.82418111	0.687138205	1.455311309	1.213325559	1.765766408
34° 29′ 50″	0.56636628	0.82415365	0.687209579	1.455160158	1.213365982	1.765641834
34° 30′ 00″	0.56640624	0.82412619	0.687280959	1.455009029	1.213406410	1.765517282
34° 30′ 10″	0.56644619	0.82409873	0.687352343	1.454857920	1.213446844	1.765392752
34° 30′ 20″	0.56648614	0.82407126	0.687423732	1.454706833	1.213487283	1.765268243
34° 30′ 30″	0.56652610	0.82404380	0.687495125	1.454555768	1.213527728	1.765143757
34° 30′ 40″	0.56656605	0.82401633	0.687566524	1.454404724	1.213568179	1.765019292
34° 30′ 50″	0.56660599	0.82398886	0.687637927	1.454253701	1.213608635	1.764894848
34° 31′ 00″	0.56664594	0.82396139	0.687709335	1.454102699	1.213649097	1.764770427
34° 31′ 10″	0.56668589	0.82393392	0.687780748	1.453951718	1.213689564	1.764646027
34° 31′ 20″	0.56672583	0.82390645	0.687852165	1.453800759	1.213730036	1.764521648
34° 31′ 30″	0.56676578	0.82387897	0.687923587	1.453649821	1.213770515	1.764397292
34° 31′ 40″ 34° 31′ 50″	0.56680572	0.82385149	0.687995014	1.453498905	1.213810998	1.764272957
34- 31. 30"	0.56684566	0.82382401	0.688066446	1.453348009	1.213851488	1.764148643

259 **34° 31′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\operatorname{csc}(x)$
34° 32′ 00″	0.56688560	0.82379653	0.688137883	1.453197135	1.213891983	1.764024352
34° 32′ 10″	0.56692554	0.82376904	0.688209324	1.453046282	1.213932483	1.763900082
34° 32′ 20″	0.56696547	0.82374156	0.688280770	1.452895451	1.213972989	1.763775834
34° 32′ 30″	0.56700541	0.82371407	0.688352221	1.452744641	1.214013501	1.763651607
34° 32′ 40″	0.56704534	0.82368658	0.688423677	1.452593852	1.214054018	1.763527402
34° 32′ 50″	0.56708528	0.82365909	0.688495137	1.452443084	1.214094541	1.763403219
34° 33′ 00″	0.56712521	0.82363159	0.688566602	1.452292337	1.214135069	1.763279057
34° 33′ 10″	0.56716514	0.82360410	0.688638072	1.452141612	1.214175603	1.763154917
34° 33′ 20″	0.56720507	0.82357660	0.688709547	1.451990908	1.214216142	1.763030798
34° 33′ 30″	0.56724499	0.82354910	0.688781026	1.451840225	1.214256687	1.762906701
34° 33′ 40″	0.56728492	0.82352160	0.688852511	1.451689563	1.214297238	1.762782626
34° 33′ 50″	0.56732484	0.82349409	0.688924000	1.451538922	1.214337794	1.762658572
34° 34′ 00″	0.56736477	0.82346659	0.688995493	1.451388303	1.214378355	1.762534540
34° 34′ 10″	0.56740469	0.82343908	0.689066992	1.451237705	1.214418923	1.762410530
34° 34′ 20″	0.56744461	0.82341157	0.689138495	1.451087128	1.214459495	1.762286541
34° 34′ 30″	0.56748453	0.82338406	0.689210004	1.450936572	1.214500074	1.762162574
34° 34′ 40″	0.56752445	0.82335655	0.689281516	1.450786038	1.214540658	1.762038628
34° 34′ 50″	0.56756436	0.82332903	0.689353034	1.450635524	1.214581247	1.761914704
34° 35′ 00″	0.56760428	0.82330151	0.689424557	1.450485032	1.214621842	1.761790801
34° 35′ 10″	0.56764419	0.82327399	0.689496084	1.450334561	1.214662443	1.761666920
34° 35′ 20″	0.56768411	0.82324647	0.689567616	1.450184111	1.214703049	1.761543061
34° 35′ 30″	0.56772402	0.82321895	0.689639153	1.450033682	1.214743661	1.761419223
34° 35′ 40″	0.56776393	0.82319142	0.689710694	1.449883275	1.214784278	1.761295407
34° 35′ 50″	0.56780384	0.82316390	0.689782241	1.449732888	1.214824901	1.761171612
34° 36′ 00″	0.56784375	0.82313637	0.689853792	1.449582523	1.214865529	1.761047839
34° 36′ 10″	0.56788365	0.82310884	0.689925348	1.449432179	1.214906163	1.760924087
34° 36′ 20″	0.56792356	0.82308130	0.689996909	1.449281856	1.214946803	1.760800357
34° 36′ 30″	0.56796346	0.82305377	0.690068474	1.449131554	1.214987448	1.760676648
34° 36′ 40″	0.56800336	0.82302623	0.690140044	1.448981273	1.215028099	1.760552961
34° 36′ 50″	0.56804326	0.82299870	0.690211620	1.448831013	1.215068755	1.760429296
34° 37′ 00″	0.56808316	0.82297115	0.690283199	1.448680775	1.215109417	1.760305651
34° 37′ 10″ 34° 37′ 20″	0.56812306	0.82294361 0.82291607	0.690354784	1.448530557	1.215150085	1.760182029
34° 37′ 30″	0.56816296	0.82288852	0.690426374	1.448380361 1.448230185	1.215190758 1.215231436	1.760058428 1.759934848
34° 37′ 40″	0.56824275	0.82286097	0.690497968 0.690569567	1.448080031	1.215272120	1.759811290
34° 37′ 50″	0.56828264	0.82283342	0.690641171	1.447929898	1.215272120	1.759687753
34° 38′ 00″	0.56832253	0.82280587	0.690712780	1.447779786	1.215353506	1.759564238
34° 38′ 10″	0.56836242	0.82277832	0.690784393	1.447629695	1.215393300	1.759440745
34° 38′ 20″	0.56840231	0.82277032	0.690856011	1.447479625	1.215434913	1.759317272
34° 38′ 30″	0.56844220	0.82272320	0.690927634	1.447329576	1.215475625	1.759193822
34° 38′ 40″	0.56848208	0.82269564	0.690999262	1.447179548	1.215516343	1.759070392
34° 38′ 50″	0.56852197	0.82266808	0.691070895	1.447029541	1.215557066	1.758946984
34° 39′ 00″	0.56856185	0.82264052	0.691142532	1.446879556	1.215597795	1.758823598
34° 39′ 10″	0.56860173	0.82261295	0.691214174	1.446729591	1.215638530	1.758700233
34° 39′ 20″	0.56864161	0.82258538	0.691285822	1.446579647	1.215679270	1.758576890
34° 39′ 30″	0.56868149	0.82255782	0.691357473	1.446429725	1.215720015	1.758453567
34° 39′ 40″	0.56872137	0.82253024	0.691429130	1.446279823	1.215760767	1.758330267
34° 39′ 50″	0.56876125	0.82250267	0.691500792	1.446129943	1.215801524	1.758206988
	1 3.0 007 0120	3.02200207	2			

260 **34° 39′ 50″**

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<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
34° 40′ 00″	0.56880112	0.82247510	0.691572458	1.445980083	1.215842286	1.758083730
34° 40′ 10″	0.56884100	0.82244752	0.691644129	1.445830245	1.215883054	1.757960493
34° 40′ 20″	0.56888087	0.82241994	0.691715805	1.445680427	1.215923828	1.757837278
34° 40′ 30″	0.56892074	0.82239236	0.691787485	1.445530631	1.215964607	1.757714085
34° 40′ 40″	0.56896061	0.82236477	0.691859171	1.445380855	1.216005392	1.757590913
34° 40′ 50″	0.56900048	0.82233719	0.691930861	1.445231100	1.216046182	1.757467762
34° 41′ 00″	0.56904035	0.82230960	0.692002556	1.445081367	1.216086978	1.757344632
34° 41′ 10″	0.56908021	0.82228201	0.692074256	1.444931654	1.216127780	1.757221524
34° 41′ 20″	0.56912008	0.82225442	0.692145961	1.444781963	1.216168587	1.757098438
34° 41′ 30″	0.56915994	0.82222683	0.692217671	1.444632292	1.216209399	1.756975372
34° 41′ 40″	0.56919980	0.82219924	0.692289385	1.444482642	1.216250218	1.756852328
34° 41′ 50″	0.56923966	0.82217164	0.692361104	1.444333014	1.216291042	1.756729306
34° 42′ 00″	0.56927952	0.82214404	0.692432828	1.444183406	1.216331871	1.756606305
34° 42′ 10″	0.56931938	0.82211644	0.692504557	1.444033819	1.216372707	1.756483325
34° 42′ 20″	0.56935924	0.82208884	0.692576291	1.443884253	1.216413547	1.756360366
34° 42′ 30″	0.56939909	0.82206123	0.692648029	1.443734708	1.216454394	1.756237429
34° 42′ 40″	0.56943895	0.82203363	0.692719772	1.443585184	1.216495246	1.756114513
34° 42′ 50″	0.56947880	0.82200602	0.692791520	1.443435681	1.216536103	1.755991619
34° 43′ 00″	0.56951865	0.82197841	0.692863273	1.443286199	1.216576966	1.755868746
34° 43′ 10″	0.56955850	0.82195080	0.692935031	1.443136738	1.216617835	1.755745894
34° 43′ 20″	0.56959835	0.82192318	0.693006793	1.442987297	1.216658710	1.755623063
34° 43′ 30″	0.56963820	0.82189557	0.693078561	1.442837878	1.216699590	1.755500254
34° 43′ 40″	0.56967804	0.82186795	0.693150333	1.442688479	1.216740475	1.755377466
34° 43′ 50″	0.56971789	0.82184033	0.693222110	1.442539102	1.216781366	1.755254700
34° 44′ 00″	0.56975773	0.82181271	0.693293892	1.442389745	1.216822263	1.755131954
34° 44′ 10″	0.56979757	0.82178508	0.693365679	1.442240409	1.216863166	1.755009230
34° 44′ 20″	0.56983741	0.82175746	0.693437470	1.442091094	1.216904074	1.754886527
34° 44′ 30″ 34° 44′ 40″	0.56987725	0.82172983	0.693509266	1.441941800	1.216944987	1.754763846
34° 44′ 50″	0.56991709	0.82170220	0.693581067	1.441792527	1.216985907	1.754641186
34° 45′ 00″	0.56995693	0.82167457	0.693652873 0.693724684	1.441643275 1.441494043	1.217026832 1.217067762	1.754518547 1.754395929
34° 45′ 10″	0.57003660	0.82164694 0.82161930	0.693796500	1.441344833	1.217067762	1.754373727
34° 45′ 20″	0.57003660	0.82159167	0.673776300	1.441195643	1.217108678	1.754150758
34° 45′ 30″	0.57007643	0.82157107	0.693940146	1.441046474	1.217147640	1.754028204
34° 45′ 40″	0.57011626	0.82153639	0.694011976	1.440897326	1.217170387	1.753905671
34° 45′ 50″	0.57019592	0.82150874	0.694083811	1.440748199	1.217231340	1.753763671
34° 46′ 00″	0.57023575	0.82148110	0.694155651	1.440599092	1.217313463	1.753660670
34° 46′ 10″	0.57027557	0.82145345	0.694227495	1.440450007	1.217354433	1.753538201
34° 46′ 20″	0.57031540	0.82142580	0.694299345	1.440300942	1.217395408	1.753415753
34° 46′ 30″	0.57035522	0.82139815	0.694371199	1.440151898	1.217436389	1.753293327
34° 46′ 40″	0.57039504	0.82137050	0.694443058	1.440002875	1.217477376	1.753170921
34° 46′ 50″	0.57043486	0.82134284	0.694514922	1.439853872	1.217518368	1.753048537
34° 47′ 00″	0.57047468	0.82131519	0.694586791	1.439704891	1.217559366	1.752926174
34° 47′ 10″	0.57051450	0.82128753	0.694658665	1.439555930	1.217600370	1.752803833
34° 47′ 20″	0.57055432	0.82125987	0.694730543	1.439406990	1.217641379	1.752681512
34° 47′ 30″	0.57059413	0.82123221	0.694802426	1.439258071	1.217682394	1.752559213
34° 47′ 40″	0.57063394	0.82120454	0.694874315	1.439109173	1.217723414	1.752436935
34° 47′ 50″	0.57067376	0.82117688	0.694946208	1.438960295	1.217764440	1.752314678
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261 **34° 47′ 50″**

<u> x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
34° 48′ 00″	0.57071357	0.82114921	0.695018106	1.438811438	1.217805472	1.752192442
34° 48′ 10″	0.57075338	0.82112154	0.695090008	1.438662602	1.217846509	1.752070228
34° 48′ 20″	0.57079319	0.82109387	0.695161916	1.438513787	1.217887552	1.751948034
34° 48′ 30″	0.57083299	0.82106619	0.695233828	1.438364992	1.217928601	1.751825862
34° 48′ 40″	0.57087280	0.82103852	0.695305746	1.438216219	1.217969655	1.751703711
34° 48′ 50″	0.57091260	0.82101084	0.695377668	1.438067465	1.218010714	1.751581581
34° 49′ 00″	0.57095241	0.82098316	0.695449595	1.437918733	1.218051780	1.751459472
34° 49′ 10″	0.57099221	0.82095548	0.695521526	1.437770022	1.218092851	1.751337385
34° 49′ 20″	0.57103201	0.82092780	0.695593463	1.437621331	1.218133928	1.751215318
34° 49′ 30″	0.57107181	0.82090011	0.695665405	1.437472661	1.218175010	1.751093273
34° 49′ 40″	0.57111160	0.82087242	0.695737351	1.437324011	1.218216098	1.750971249
34° 49′ 50″	0.57115140	0.82084473	0.695809302	1.437175383	1.218257192	1.750849245
34° 50′ 00″	0.57119120	0.82081704	0.695881258	1.437026775	1.218298291	1.750727263
34° 50′ 10″	0.57123099	0.82078935	0.695953219	1.436878187	1.218339396	1.750605302
34° 50′ 20″	0.57127078	0.82076165	0.696025185	1.436729621	1.218380506	1.750483363
34° 50′ 30″	0.57131057	0.82073396	0.696097156	1.436581075	1.218421622	1.750361444
34° 50′ 40″	0.57135036	0.82070626	0.696169131	1.436432550	1.218462744	1.750239546
34° 50′ 50″	0.57139015	0.82067856	0.696241111	1.436284045	1.218503872	1.750117670
34° 51′ 00″	0.57142994	0.82065085	0.696313097	1.436135561	1.218545005	1.749995814
34° 51′ 10″	0.57146972	0.82062315	0.696385087	1.435987098	1.218586143	1.749873980
34° 51′ 20″	0.57150951	0.82059544	0.696457082	1.435838656	1.218627288	1.749752167
34° 51′ 30″	0.57154929	0.82056774	0.696529082	1.435690234	1.218668438	1.749630375
34° 51′ 40″	0.57158907	0.82054002	0.696601086	1.435541833	1.218709594	1.749508603
34° 51′ 50″	0.57162885	0.82051231	0.696673096	1.435393452	1.218750755	1.749386853
34° 52′ 00″	0.57166863	0.82048460	0.696745110	1.435245092	1.218791922	1.749265124
34° 52′ 10″	0.57170841	0.82045688	0.696817129	1.435096753	1.218833094	1.749143416
34° 52′ 20″	0.57174819	0.82042916	0.696889154	1.434948435	1.218874273	1.749021729
34° 52′ 30″	0.57178796	0.82040144	0.696961183	1.434800137	1.218915456	1.748900064
34° 52′ 40″	0.57182773	0.82037372	0.697033216	1.434651859	1.218956646	1.748778419
34° 52′ 50″	0.57186751	0.82034600	0.697105255	1.434503603	1.218997841	1.748656795
34° 53′ 00″	0.57190728	0.82031827	0.697177299	1.434355367	1.219039042	1.748535192
34° 53′ 10″	0.57194705	0.82029054	0.697249347	1.434207151	1.219080248	1.748413610
34° 53′ 20″	0.57198681	0.82026281	0.697321401	1.434058956	1.219121461	1.748292050
34° 53′ 30″	0.57202658	0.82023508	0.697393459	1.433910782	1.219162678	1.748170510
34° 53′ 40″	0.57206635	0.82020735	0.697465522	1.433762629	1.219203902	1.748048991
34° 53′ 50″	0.57210611	0.82017961	0.697537590	1.433614496	1.219245131	1.747927493
34° 54′ 00″	0.57214587	0.82015188	0.697609663	1.433466383	1.219286366	1.747806017
34° 54′ 10″	0.57218563	0.82012414	0.697681740	1.433318291	1.219327606	1.747684561
34° 54′ 20″ 34° 54′ 30″	0.57222539	0.82009640	0.697753823	1.433170220	1.219368852	1.747563126
	0.57226515	0.82006865	0.697825910	1.433022169	1.219410104	1.747441712
34° 54′ 40″ 34° 54′ 50″	0.57230491	0.82004091	0.697898003 0.697970100	1.432874139	1.219451361 1.219492624	1.747320320
34° 54′ 50″ 34° 55′ 00″	0.57234467	0.82001316		1.432726130 1.432578141		1.747198948
34° 55′ 10″	0.57238442	0.81998541 0.81995766	0.698042202		1.219533893	1.747077597 1.746956267
34° 55′ 10″ 34° 55′ 20″	0.57242418 0.57246393	0.81993766	0.698114309 0.698186421	1.432430172 1.432282224	1.219575167 1.219616447	1.746936267
34° 55′ 30″	0.57250368	0.81992991	0.698258538	1.432282224	1.219657733	1.746834938
34° 55′ 40″	0.57254343	0.81990213	0.698330659	1.432134297	1.219637733	1.746713670
34° 55′ 50″	0.57258317	0.81984664	0.678330637	1.431786370	1.219740321	1.746372403
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262 34° 55′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
34° 56′ 00″	0.57262292	0.81981888	0.698474917	1.431690638	1.219781624	1.746349932
34° 56′ 10″	0.57266267	0.81979111	0.698547053	1.431542793	1.219822932	1.746228727
34° 56′ 20″	0.57270241	0.81976335	0.698619195	1.431394968	1.219864246	1.746107544
34° 56′ 30″	0.57274215	0.81973558	0.698691341	1.431247164	1.219905566	1.745986382
34° 56′ 40″	0.57278189	0.81970781	0.698763492	1.431099380	1.219946891	1.745865240
34° 56′ 50″	0.57282163	0.81968004	0.698835647	1.430951617	1.219988222	1.745744120
34° 57′ 00″	0.57286137	0.81965227	0.698907808	1.430803875	1.220029559	1.745623020
34° 57′ 10″	0.57290111	0.81962450	0.698979974	1.430656153	1.220070901	1.745501941
34° 57′ 20″	0.57294085	0.81959672	0.699052144	1.430508451	1.220112249	1.745380883
34° 57′ 30″	0.57298058	0.81956894	0.699124320	1.430360770	1.220153603	1.745259846
34° 57′ 40″	0.57302031	0.81954116	0.699196500	1.430213109	1.220194962	1.745138830
34° 57′ 50″	0.57306005	0.81951338	0.699268685	1.430065469	1.220236327	1.745017835
34° 58′ 00″	0.57309978	0.81948560	0.699340875	1.429917849	1.220277698	1.744896861
34° 58′ 10″	0.57313951	0.81945781	0.699413070	1.429770250	1.220319074	1.744775907
34° 58′ 20″	0.57317923	0.81943003	0.699485270	1.429622671	1.220360456	1.744654975
34° 58′ 30″	0.57321896	0.81940224	0.699557475	1.429475112	1.220401844	1.744534063
34° 58′ 40″	0.57325868	0.81937444	0.699629684	1.429327575	1.220443237	1.744413172
34° 58′ 50″	0.57329841	0.81934665	0.699701899	1.429180057	1.220484636	1.744292302
34° 59′ 00″	0.57333813	0.81931886	0.699774119	1.429032560	1.220526041	1.744171453
34° 59′ 10″	0.57337785	0.81929106	0.699846343	1.428885083	1.220567451	1.744050625
34° 59′ 20″	0.57341757	0.81926326	0.699918572	1.428737627	1.220608868	1.743929817
34° 59′ 30″	0.57345729	0.81923546	0.699990806	1.428590191	1.220650289	1.743809031
34° 59′ 40″	0.57349701	0.81920766	0.700063045	1.428442776	1.220691717	1.743688265
34° 59′ 50″	0.57353672	0.81917985	0.700135289	1.428295381	1.220733150	1.743567520
35° 00′ 00″	0.57357644	0.81915204	0.700207538	1.428148007	1.220774589	1.743446796
35° 00′ 10″	0.57361615	0.81912424	0.700279792	1.428000653	1.220816033	1.743326092
35° 00′ 20″	0.57365586	0.81909642	0.700352051	1.427853319	1.220857483	1.743205410
35° 00′ 30″	0.57369557	0.81906861	0.700424314	1.427706006	1.220898939	1.743084748
35° 00′ 40″	0.57373528	0.81904080	0.700496583	1.427558713	1.220940401	1.742964107
35° 00′ 50″	0.57377499	0.81901298	0.700568856	1.427411440	1.220981868	1.742843487
35° 01′ 00″	0.57381469	0.81898516	0.700641134	1.427264188	1.221023341	1.742722888
35° 01′ 10″	0.57385440	0.81895734	0.700713418	1.427116956	1.221064820	1.742602309
35° 01′ 20″	0.57389410	0.81892952	0.700785706	1.426969745	1.221106304	1.742481751
35° 01′ 30″	0.57393380	0.81890170	0.700857999	1.426822554	1.221147794	1.742361214
35° 01′ 40″	0.57397351	0.81887387	0.700930297	1.426675383	1.221189290	1.742240698
35° 01′ 50″	0.57401320	0.81884604	0.701002600	1.426528233	1.221230791	1.742120202
35° 02′ 00″	0.57405290	0.81881821	0.701074908	1.426381103	1.221272298	1.741999728
35° 02′ 10″	0.57409260	0.81879038	0.701147220	1.426233993	1.221313811	1.741879274
35° 02′ 20″	0.57413229	0.81876255	0.701219538	1.426086904	1.221355329	1.741758840
35° 02′ 30″	0.57417199	0.81873471	0.701291860	1.425939835	1.221396853	1.741638428
35° 02′ 40″	0.57421168	0.81870687	0.701364188	1.425792787	1.221438383	1.741518036
35° 02′ 50″ 35° 03′ 00″	0.57425137	0.81867903	0.701436520	1.425645758	1.221479919	1.741397665
35° 03′ 00″ 35° 03′ 10″	0.57429106	0.81865119	0.701508858	1.425498751	1.221521460 1.221563007	1.741277315
35° 03′ 20″	0.57433075	0.81862335 0.81859550	0.701581200 0.701653547	1.425351763 1.425204796	1.221563007	1.741156985 1.741036677
35° 03′ 30″	0.57437044	0.81856766	0.701633347	1.425204776	1.221644360	1.741036677
35° 03′ 40″	0.57444981	0.81853981	0.701723899	1.423037849	1.221646118	1.740916389
35° 03′ 50″	0.57448949	0.81851196	0.701778236	1.424710722	1.221729252	1.740/76121
	0.57 770747	0.01031170	0.701070010	1.727/04010	1,441/4/434	1.7 700/30/4

263 35° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
35° 04′ 00″	0.57452917	0.81848410	0.701942985	1.424617129	1.221770827	1.740555649
35° 04′ 10″	0.57456886	0.81845625	0.702015357	1.424470264	1.221812408	1.740435443
35° 04′ 20″	0.57460853	0.81842839	0.702087733	1.424323418	1.221853995	1.740315259
35° 04′ 30″	0.57464821	0.81840053	0.702160115	1.424176593	1.221895588	1.740195095
35° 04′ 40″	0.57468789	0.81837267	0.702232501	1.424029788	1.221937186	1.740074952
35° 04′ 50″	0.57472756	0.81834481	0.702304893	1.423883003	1.221978790	1.739954829
35° 05′ 00″	0.57476724	0.81831695	0.702377289	1.423736239	1.222020399	1.739834727
35° 05′ 10″	0.57480691	0.81828908	0.702449691	1.423589495	1.222062015	1.739714646
35° 05′ 20″	0.57484658	0.81826121	0.702522097	1.423442771	1.222103636	1.739594585
35° 05′ 30″	0.57488625	0.81823334	0.702594508	1.423296067	1.222145263	1.739474545
35° 05′ 40″	0.57492592	0.81820547	0.702666924	1.423149384	1.222186895	1.739354526
35° 05′ 50″	0.57496559	0.81817759	0.702739345	1.423002720	1.222228533	1.739234528
35° 06′ 00″	0.57500525	0.81814972	0.702811771	1.422856077	1.222270177	1.739114550
35° 06′ 10″	0.57504492	0.81812184	0.702884202	1.422709455	1.222311827	1.738994592
35° 06′ 20″	0.57508458	0.81809396	0.702956638	1.422562852	1.222353482	1.738874656
35° 06′ 30″	0.57512424	0.81806608	0.703029079	1.422416270	1.222395143	1.738754740
35° 06′ 40″	0.57516390	0.81803819	0.703101525	1.422269708	1.222436810	1.738634844
35° 06′ 50″	0.57520356	0.81801031	0.703173975	1.422123166	1.222478482	1.738514970
35° 07′ 00″	0.57524322	0.81798242	0.703246431	1.421976644	1.222520160	1.738395115
35° 07′ 10″	0.57528287	0.81795453	0.703318891	1.421830143	1.222561844	1.738275282
35° 07′ 20″	0.57532253	0.81792664	0.703391357	1.421683662	1.222603534	1.738155469
35° 07′ 30″	0.57536218	0.81789875	0.703463827	1.421537201	1.222645229	1.738035676
35° 07′ 40″	0.57540183	0.81787085	0.703536303	1.421390760	1.222686930	1.737915905
35° 07′ 50″	0.57544149	0.81784295	0.703608783	1.421244339	1.222728637	1.737796154
35° 08′ 00″	0.57548113	0.81781505	0.703681268	1.421097939	1.222770349	1.737676423
35° 08′ 10″	0.57552078	0.81778715	0.703753759	1.420951558	1.222812068	1.737556713
35° 08′ 20″	0.57556043	0.81775925	0.703826254	1.420805198	1.222853792	1.737437024
35° 08′ 30″	0.57560008	0.81773135	0.703898754	1.420658858	1.222895521	1.737317355
35° 08′ 40″	0.57563972	0.81770344	0.703971259	1.420512538	1.222937257	1.737197706
35° 08′ 50″	0.57567936	0.81767553	0.704043769	1.420366238	1.222978998	1.737078079
35° 09′ 00″	0.57571900	0.81764762	0.704116284	1.420219959	1.223020745	1.736958471
35° 09′ 10″	0.57575864	0.81761971	0.704188804	1.420073699	1.223062497	1.736838885
35° 09′ 20″	0.57579828	0.81759179	0.704261329	1.419927460	1.223104255	1.736719319
35° 09′ 30″	0.57583792	0.81756388	0.704333859	1.419781241	1.223146019	1.736599773
35° 09′ 40″	0.57587756	0.81753596	0.704406393	1.419635042	1.223187789	1.736480248
35° 09′ 50″ 35° 10′ 00″	0.57591719	0.81750804	0.704478933	1.419488863	1.223229564	1.736360744
35° 10′ 00″	0.57595682	0.81748011 0.81745219	0.704551478	1.419342704 1.419196566	1.223271346	1.736241260
35° 10′ 10″	0.57599645 0.57603609	0.81743219	0.704624028	1.419196366	1.223313133 1.223354925	1.736121796 1.736002354
35° 10′ 30″	0.57603609	0.81742426	0.704696582 0.704769142	1.418904349	1.223396724	1.735882931
35° 10′ 40″	0.57607571	0.81736841	0.704769142	1.418758270	1.223376724	1.735763529
35° 10′ 50″	0.57611534	0.81734047	0.704841708	1.418612212	1.223480337	1.735644148
35° 11′ 00″	0.57619459	0.81734047	0.704914276	1.418466174	1.223522153	1.735524787
35° 11′ 10″	0.57617437	0.81731234	0.705059430	1.418320156	1.223563974	1.735405447
35° 11′ 20″	0.57623422	0.81725667	0.705037430	1.418174158	1.223605801	1.735286127
35° 11′ 30″	0.57627384	0.81722873	0.705204603	1.418028180	1.223647634	1.735166827
35° 11′ 40″	0.57635308	0.81722079	0.705277198	1.417882222	1.223689473	1.735166827
35° 11′ 50″	0.57639270	0.81717284	0.705349797	1.417736284	1.223731317	1.734928290
	0.37037270	0.01/1/204	0.1033 1 7171	1.11//30204	1,223131317	1.731720270

264 35° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
35° 12′ 00″	0.57643232	0.81714490	0.705422401	1.417590366	1.223773167	1.734809052
35° 12′ 10″	0.57647193	0.81711695	0.705495010	1.417444469	1.223815023	1.734689835
35° 12′ 20″	0.57651155	0.81708900	0.705567624	1.417298591	1.223856884	1.734570638
35° 12′ 30″	0.57655116	0.81706105	0.705640243	1.417152734	1.223898751	1.734451461
35° 12′ 40″	0.57659077	0.81703310	0.705712868	1.417006896	1.223940624	1.734332305
35° 12′ 50″	0.57663038	0.81700514	0.705785497	1.416861079	1.223982503	1.734213169
35° 13′ 00″	0.57666999	0.81697719	0.705858131	1.416715281	1.224024387	1.734094054
35° 13′ 10″	0.57670960	0.81694923	0.705930770	1.416569504	1.224066277	1.733974959
35° 13′ 20″	0.57674920	0.81692127	0.706003414	1.416423746	1.224108173	1.733855885
35° 13′ 30″	0.57678881	0.81689330	0.706076063	1.416278009	1.224150075	1.733736831
35° 13′ 40″	0.57682841	0.81686534	0.706148717	1.416132291	1.224191982	1.733617797
35° 13′ 50″	0.57686801	0.81683737	0.706221375	1.415986594	1.224233896	1.733498784
35° 14′ 00″	0.57690761	0.81680941	0.706294039	1.415840917	1.224275814	1.733379791
35° 14′ 10″	0.57694721	0.81678144	0.706366708	1.415695259	1.224317739	1.733260819
35° 14′ 20″	0.57698681	0.81675346	0.706439382	1.415549622	1.224359670	1.733141867
35° 14′ 30″	0.57702641	0.81672549	0.706512061	1.415404004	1.224401606	1.733022936
35° 14′ 40″	0.57706600	0.81669751	0.706584745	1.415258407	1.224443548	1.732904025
35° 14′ 50″	0.57710560	0.81666953	0.706657433	1.415112830	1.224485495	1.732785134
35° 15′ 00″	0.57714519	0.81664156	0.706730127	1.414967272	1.224527449	1.732666264
35° 15′ 10″	0.57718478	0.81661357	0.706802826	1.414821735	1.224569408	1.732547414
35° 15′ 20″	0.57722437	0.81658559	0.706875529	1.414676217	1.224611373	1.732428584
35° 15′ 30″	0.57726396	0.81655760	0.706948238	1.414530719	1.224653343	1.732309775
35° 15′ 40″	0.57730355	0.81652962	0.707020952	1.414385242	1.224695320	1.732190986
35° 15′ 50″	0.57734313	0.81650163	0.707093671	1.414239784	1.224737302	1.732072218
35° 16′ 00″	0.57738272	0.81647364	0.707166394	1.414094346	1.224779290	1.731953470
35° 16′ 10″	0.57742230	0.81644564	0.707239123	1.413948929	1.224821284	1.731834742
35° 16′ 20″	0.57746188	0.81641765	0.707311856	1.413803531	1.224863283	1.731716034
35° 16′ 30″	0.57750146	0.81638965	0.707384595	1.413658153	1.224905288	1.731597347
35° 16′ 40″	0.57754104	0.81636165	0.707457339	1.413512795	1.224947299	1.731478681
35° 16′ 50″	0.57758062	0.81633365	0.707530087	1.413367457	1.224989316	1.731360034
35° 17′ 00″	0.57762020	0.81630565	0.707602841	1.413222139	1.225031338	1.731241408
35° 17′ 10″	0.57765977	0.81627764	0.707675599	1.413076840	1.225073367	1.731122802
35° 17′ 20″	0.57769934	0.81624964	0.707748363	1.412931562	1.225115401	1.731004217
35° 17′ 30″	0.57773892	0.81622163	0.707821131	1.412786304	1.225157441	1.730885652
35° 17′ 40″	0.57777849	0.81619362	0.707893905	1.412641065	1.225199486	1.730767107
35° 17′ 50″	0.57781806	0.81616560	0.707966684	1.412495846	1.225241537	1.730648583
35° 18′ 00″	0.57785762	0.81613759	0.708039467	1.412350648	1.225283595	1.730530078
35° 18′ 10″	0.57789719	0.81610957	0.708112256	1.412205469	1.225325657	1.730411594
35° 18′ 20″	0.57793676	0.81608156	0.708185049	1.412060310	1.225367726	1.730293131
35° 18′ 30″	0.57797632	0.81605354	0.708257848	1.411915171	1.225409800	1.730174687
35° 18′ 40″	0.57801588	0.81602551	0.708330651	1.411770051	1.225451881	1.730056264
35° 18′ 50″	0.57805544	0.81599749	0.708403460	1.411624952	1.225493966	1.729937862
35° 19′ 00″	0.57809500	0.81596946	0.708476273	1.411479873	1.225536058	1.729819479
35° 19′ 10″	0.57813456	0.81594144	0.708549092	1.411334813	1.225578156	1.729701117
35° 19′ 20″	0.57817412	0.81591341	0.708621915	1.411189773	1.225620259	1.729582775
35° 19′ 30″	0.57821368	0.81588537	0.708694744	1.411044753	1.225662368	1.729464453
35° 19′ 40″	0.57825323	0.81585734	0.708767578	1.410899753	1.225704483	1.729346152
35° 19′ 50″	0.57829278	0.81582931	0.708840416	1.410754773	1.225746603	1.729227871

265 35° 19′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
35° 20′ 00″	0.57833234	0.81580127	0.708913260	1.410609812	1.225788730	1.729109610
35° 20′ 10″	0.57837189	0.81577323	0.708986108	1.410464871	1.225830862	1.728991369
35° 20′ 20″	0.57841144	0.81574519	0.709058962	1.410319951	1.225873000	1.728873148
35° 20′ 30″	0.57845098	0.81571714	0.709131820	1.410175050	1.225915143	1.728754948
35° 20′ 40″	0.57849053	0.81568910	0.709204684	1.410030168	1.225957293	1.728636768
35° 20′ 50″	0.57853007	0.81566105	0.709277553	1.409885307	1.225999448	1.728518608
35° 21′ 00″	0.57856962	0.81563300	0.709350426	1.409740465	1.226041609	1.728400469
35° 21′ 10″	0.57860916	0.81560495	0.709423305	1.409595644	1.226083776	1.728282349
35° 21′ 20″	0.57864870	0.81557690	0.709496189	1.409450842	1.226125948	1.728164250
35° 21′ 30″	0.57868824	0.81554885	0.709569077	1.409306059	1.226168127	1.728046171
35° 21′ 40″	0.57872778	0.81552079	0.709641971	1.409161297	1.226210311	1.727928112
35° 21′ 50″	0.57876732	0.81549273	0.709714870	1.409016554	1.226252501	1.727810074
35° 22′ 00″	0.57880685	0.81546467	0.709787773	1.408871831	1.226294697	1.727692055
35° 22′ 10″	0.57884639	0.81543661	0.709860682	1.408727128	1.226336898	1.727574057
35° 22′ 20″	0.57888592	0.81540854	0.709933596	1.408582445	1.226379105	1.727456079
35° 22′ 30″	0.57892545	0.81538048	0.710006514	1.408437781	1.226421319	1.727338121
35° 22′ 40″	0.57896498	0.81535241	0.710079438	1.408293137	1.226463537	1.727220183
35° 22′ 50″	0.57900451	0.81532434	0.710152367	1.408148513	1.226505762	1.727102266
35° 23′ 00″	0.57904404	0.81529627	0.710225301	1.408003909	1.226547993	1.726984368
35° 23′ 10″	0.57908356	0.81526819	0.710298240	1.407859324	1.226590229	1.726866491
35° 23′ 20″	0.57912309	0.81524012	0.710371184	1.407714760	1.226632471	1.726748634
35° 23′ 30″	0.57916261	0.81521204	0.710444133	1.407570214	1.226674719	1.726630797
35° 23′ 40″	0.57920213	0.81518396	0.710517086	1.407425689	1.226716972	1.726512980
35° 23′ 50″	0.57924165	0.81515588	0.710590045	1.407281183	1.226759232	1.726395183
35° 24′ 00″	0.57928117	0.81512780	0.710663009	1.407136697	1.226801497	1.726277407
35° 24′ 10″	0.57932069	0.81509971	0.710735978	1.406992231	1.226843768	1.726159650
35° 24′ 20″	0.57936021	0.81507162	0.710808952	1.406847785	1.226886045	1.726041914
35° 24′ 30″	0.57939972	0.81504353	0.710881931	1.406703358	1.226928327	1.725924198
35° 24′ 40″	0.57943924	0.81501544	0.710954916	1.406558951	1.226970616	1.725806502
35° 24′ 50″	0.57947875	0.81498735	0.711027905	1.406414563	1.227012910	1.725688826
35° 25′ 00″	0.57951826	0.81495926	0.711100899	1.406270195	1.227055210	1.725571170
35° 25′ 10″	0.57955777	0.81493116	0.711173898	1.406125847	1.227097516	1.725453534
35° 25′ 20″	0.57959728	0.81490306	0.711246902	1.405981519	1.227139827	1.725335918
35° 25′ 30″	0.57963678	0.81487496	0.711319912	1.405837210	1.227182145	1.725218323
35° 25′ 40″	0.57967629	0.81484686	0.711392926	1.405692921	1.227224468	1.725100747
35° 25′ 50″	0.57971579	0.81481875	0.711465945	1.405548652	1.227266797	1.724983192
35° 26′ 00″	0.57975530	0.81479065	0.711538970	1.405404402	1.227309132	1.724865657
35° 26′ 10″	0.57979480	0.81476254	0.711611999	1.405260172	1.227351472	1.724748141
35° 26′ 20″	0.57983430	0.81473443	0.711685033	1.405115962	1.227393819	1.724630646
35° 26′ 30″	0.57987380	0.81470632	0.711758073	1.404971771	1.227436171	1.724513171
35° 26′ 40″	0.57991329	0.81467820	0.711831117	1.404827600	1.227478529	1.724395716
35° 26′ 50″	0.57995279	0.81465009	0.711904167	1.404683448	1.227520893	1.724278281
35° 27′ 00″	0.57999228	0.81462197	0.711977222	1.404539316	1.227563263	1.724160866
35° 27′ 10″	0.58003178	0.81459385	0.712050281	1.404395204	1.227605638	1.724043471
35° 27′ 20″	0.58007127	0.81456573	0.712123346	1.404251111	1.227648020	1.723926096
35° 27′ 30″	0.58011076	0.81453760	0.712196416	1.404107038	1.227690407	1.723808741
35° 27′ 40″	0.58015025	0.81450948	0.712269490	1.403962985	1.227732800	1.723691406
35° 27′ 50″	0.58018974	0.81448135	0.712342570	1.403818951	1.227775198	1.723574091

266 35° 27′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
35° 28′ 00″	0.58022922	0.81445322	0.712415655	1.403674937	1.227817603	1.723456796
35° 28′ 10″	0.58026871	0.81442509	0.712488745	1.403530943	1.227860013	1.723339522
35° 28′ 20″	0.58030819	0.81439696	0.712561840	1.403386968	1.227902429	1.723222267
35° 28′ 30″	0.58034768	0.81436882	0.712634940	1.403243012	1.227944851	1.723105032
35° 28′ 40″	0.58038716	0.81434068	0.712708045	1.403099076	1.227987279	1.722987817
35° 28′ 50″	0.58042664	0.81431254	0.712781155	1.402955160	1.228029713	1.722870622
35° 29′ 00″	0.58046611	0.81428440	0.712854271	1.402811263	1.228072152	1.722753448
35° 29′ 10″	0.58050559	0.81425626	0.712927391	1.402667386	1.228114598	1.722636293
35° 29′ 20″	0.58054507	0.81422812	0.713000516	1.402523529	1.228157049	1.722519158
35° 29′ 30″	0.58058454	0.81419997	0.713073646	1.402379691	1.228199506	1.722402043
35° 29′ 40″	0.58062401	0.81417182	0.713146782	1.402235873	1.228241968	1.722284948
35° 29′ 50″	0.58066349	0.81414367	0.713219922	1.402092074	1.228284437	1.722167873
35° 30′ 00″	0.58070296	0.81411552	0.713293068	1.401948294	1.228326911	1.722050818
35° 30′ 10″	0.58074242	0.81408736	0.713366218	1.401804535	1.228369391	1.721933783
35° 30′ 20″	0.58078189	0.81405921	0.713439374	1.401660795	1.228411877	1.721816768
35° 30′ 30″	0.58082136	0.81403105	0.713512535	1.401517074	1.228454369	1.721699773
35° 30′ 40″	0.58086082	0.81400289	0.713585701	1.401373373	1.228496867	1.721582798
35° 30′ 50″	0.58090029	0.81397473	0.713658871	1.401229691	1.228539370	1.721465843
35° 31′ 00″	0.58093975	0.81394656	0.713732047	1.401086029	1.228581880	1.721348907
35° 31′ 10″	0.58097921	0.81391840	0.713805228	1.400942386	1.228624395	1.721231992
35° 31′ 20″	0.58101867	0.81389023	0.713878414	1.400798763	1.228666916	1.721115097
35° 31′ 30″	0.58105813	0.81386206	0.713951605	1.400655160	1.228709443	1.720998221
35° 31′ 40″	0.58109758	0.81383389	0.714024802	1.400511576	1.228751975	1.720881365
35° 31′ 50″	0.58113704	0.81380572	0.714098003	1.400368011	1.228794514	1.720764530
35° 32′ 00″	0.58117649	0.81377754	0.714171209	1.400224466	1.228837058	1.720647714
35° 32′ 10″	0.58121594	0.81374936	0.714244420	1.400080941	1.228879608	1.720530918
35° 32′ 20″	0.58125539	0.81372119	0.714317637	1.399937434	1.228922164	1.720414142
35° 32′ 30″	0.58129484	0.81369300	0.714390858	1.399793948	1.228964726	1.720297386
35° 32′ 40″	0.58133429	0.81366482	0.714464085	1.399650481	1.229007294	1.720180650
35° 32′ 50″	0.58137374	0.81363664	0.714537317	1.399507033	1.229049868	1.720063934
35° 33′ 00″	0.58141318	0.81360845	0.714610553	1.399363605	1.229092447	1.719947237
35° 33′ 10″	0.58145263	0.81358026	0.714683795	1.399220196	1.229135032	1.719830561
35° 33′ 20″	0.58149207	0.81355207	0.714757042	1.399076807	1.229177623	1.719713904
35° 33′ 30″	0.58153151	0.81352388	0.714830294	1.398933437	1.229220220	1.719597267
35° 33′ 40″	0.58157095	0.81349568	0.714903551	1.398790087	1.229262823	1.719480650
35° 33′ 50″	0.58161039	0.81346749	0.714976813	1.398646756	1.229305431	1.719364053
35° 34′ 00″	0.58164983	0.81343929	0.715050080	1.398503444	1.229348046	1.719247476
35° 34′ 10″	0.58168926	0.81341109	0.715123353	1.398360152	1.229390666	1.719130918
35° 34′ 20″	0.58172870	0.81338289	0.715196630	1.398216879	1.229433292	1.719014381
35° 34′ 30″	0.58176813	0.81335468	0.715269912	1.398073626	1.229475924	1.718897863
35° 34′ 40″	0.58180756	0.81332648	0.715343200	1.397930392	1.229518562	1.718781365
35° 34′ 50″	0.58184699	0.81329827	0.715416492	1.397787178	1.229561205	1.718664887
35° 35′ 00″	0.58188642	0.81327006	0.715489790	1.397643983	1.229603855	1.718548429
35° 35′ 10″	0.58192585	0.81324185	0.715563093	1.397500807	1.229646510	1.718431991
35° 35′ 20″	0.58196528	0.81321363	0.715636401	1.397357651	1.229689171	1.718315572
35° 35′ 30″	0.58200470	0.81318542	0.715709714	1.397214514	1.229731838	1.718199173
35° 35′ 40″ 35° 35′ 50″	0.58204413	0.81315720	0.715783032 0.715856355	1.397071397 1.396928299	1.229774511 1.229817190	1.718082794 1.717966435
<u> </u>	0.36206333	0.81312898	0./ 13030533	1.370740479	1,44701/170	1./1/700433

267 35° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
35° 36′ 00″	0.58212297	0.81310076	0.715929683	1.396785220	1.229859875	1.717850096
35° 36′ 10″	0.58216239	0.81307254	0.716003016	1.396642161	1.229902565	1.717733776
35° 36′ 20″	0.58220181	0.81304431	0.716076355	1.396499121	1.229945261	1.717617476
35° 36′ 30″	0.58224122	0.81301609	0.716149698	1.396356101	1.229987963	1.717501196
35° 36′ 40″	0.58228064	0.81298786	0.716223047	1.396213099	1.230030671	1.717384936
35° 36′ 50″	0.58232005	0.81295963	0.716296400	1.396070118	1.230073385	1.717268696
35° 37′ 00″	0.58235947	0.81293139	0.716369759	1.395927155	1.230116105	1.717152475
35° 37′ 10″	0.58239888	0.81290316	0.716443123	1.395784212	1.230158831	1.717036274
35° 37′ 20″	0.58243829	0.81287492	0.716516492	1.395641288	1.230201562	1.716920093
35° 37′ 30″	0.58247770	0.81284668	0.716589866	1.395498384	1.230244299	1.716803932
35° 37′ 40″	0.58251710	0.81281844	0.716663245	1.395355499	1.230287043	1.716687790
35° 37′ 50″	0.58255651	0.81279020	0.716736629	1.395212633	1.230329792	1.716571668
35° 38′ 00″	0.58259591	0.81276196	0.716810019	1.395069787	1.230372546	1.716455566
35° 38′ 10″	0.58263532	0.81273371	0.716883413	1.394926959	1.230415307	1.716339483
35° 38′ 20″	0.58267472	0.81270546	0.716956813	1.394784152	1.230458074	1.716223421
35° 38′ 30″	0.58271412	0.81267721	0.717030218	1.394641363	1.230500846	1.716107378
35° 38′ 40″	0.58275352	0.81264896	0.717103627	1.394498594	1.230543625	1.715991355
35° 38′ 50″	0.58279292	0.81262071	0.717177042	1.394355844	1.230586409	1.715875351
35° 39′ 00″	0.58283231	0.81259245	0.717250462	1.394213114	1.230629199	1.715759367
35° 39′ 10″	0.58287171	0.81256420	0.717323887	1.394070402	1.230671995	1.715643403
35° 39′ 20″	0.58291110	0.81253594	0.717397317	1.393927710	1.230714797	1.715527459
35° 39′ 30″	0.58295049	0.81250768	0.717470753	1.393785038	1.230757604	1.715411534
35° 39′ 40″	0.58298988	0.81247941	0.717544193	1.393642384	1.230800418	1.715295629
35° 39′ 50″	0.58302927	0.81245115	0.717617639	1.393499750	1.230843237	1.715179744
35° 40′ 00″	0.58306866	0.81242288	0.717691089	1.393357135	1.230886063	1.715063878
35° 40′ 10″	0.58310805	0.81239461	0.717764545	1.393214540	1.230928894	1.714948032
35° 40′ 20″	0.58314743	0.81236634	0.717838006	1.393071963	1.230971731	1.714832206
35° 40′ 30″	0.58318682	0.81233807	0.717911472	1.392929406	1.231014574	1.714716400
35° 40′ 40″	0.58322620	0.81230979	0.717984943	1.392786868	1.231057423	1.714600613
35° 40′ 50″	0.58326558	0.81228152	0.718058419	1.392644350	1.231100277	1.714484845
35° 41′ 00″	0.58330496	0.81225324	0.718131900	1.392501850	1.231143138	1.714369098
35° 41′ 10″	0.58334434	0.81222496	0.718205387	1.392359370	1.231186004	1.714253370
35° 41′ 20″	0.58338372	0.81219668	0.718278878	1.392216910	1.231228877	1.714137662
35° 41′ 30″	0.58342309	0.81216839	0.718352375	1.392074468	1.231271755	1.714021973
35° 41′ 40″	0.58346247	0.81214010	0.718425877	1.391932045	1.231314639	1.713906304
35° 41′ 50″	0.58350184	0.81211182	0.718499384	1.391789642	1.231357529	1.713790655
35° 42′ 00″	0.58354121	0.81208353	0.718572896	1.391647258	1.231400425	1.713675025
35° 42′ 10″	0.58358058	0.81205524	0.718646413	1.391504894	1.231443327	1.713559415
35° 42′ 20″	0.58361995	0.81202694	0.718719935	1.391362548	1.231486234	1.713443825
35° 42′ 30″	0.58365932	0.81199865	0.718793462	1.391220222	1.231529148	1.713328254
35° 42′ 40″	0.58369868	0.81197035	0.718866995	1.391077914	1.231572067	1.713212703
35° 42′ 50″	0.58373805	0.81194205	0.718940532	1.390935627	1.231614992	1.713097171
35° 43′ 00″	0.58377741	0.81191375	0.719014075	1.390793358	1.231657923	1.712981659
35° 43′ 10″	0.58381677	0.81188544	0.719087623	1.390651108	1.231700861	1.712866167
35° 43′ 20″	0.58385613	0.81185714	0.719161176	1.390508878	1.231743803	1.712750694
35° 43′ 30″	0.58389549	0.81182883	0.719234734	1.390366667	1.231786752	1.712635241
35° 43′ 40″	0.58393485	0.81180052	0.719308298	1.390224474	1.231829707	1.712519807
35° 43′ 50″	0.58397421	0.81177221	0.719381866	1.390082302	1.231872668	1.712404393
						2.0,070

268 35° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
35° 44′ 00″	0.58401356	0.81174390	0.719455440	1.389940148	1.231915634	1.712288999
35° 44′ 10″	0.58405292	0.81171558	0.719529018	1.389798013	1.231958606	1.712173624
35° 44′ 20″	0.58409227	0.81168727	0.719602602	1.389655898	1.232001585	1.712058268
35° 44′ 30″	0.58413162	0.81165895	0.719676191	1.389513802	1.232044569	1.711942933
35° 44′ 40″	0.58417097	0.81163063	0.719749785	1.389371724	1.232087559	1.711827617
35° 44′ 50″	0.58421032	0.81160231	0.719823384	1.389229666	1.232130555	1.711712320
35° 45′ 00″	0.58424967	0.81157398	0.719896989	1.389087628	1.232173557	1.711597043
35° 45′ 10″	0.58428901	0.81154566	0.719970598	1.388945608	1.232216565	1.711481785
35° 45′ 20″	0.58432836	0.81151733	0.720044213	1.388803607	1.232259578	1.711366547
35° 45′ 30″	0.58436770	0.81148900	0.720117832	1.388661626	1.232302598	1.711251329
35° 45′ 40″	0.58440704	0.81146067	0.720191457	1.388519663	1.232345623	1.711136130
35° 45′ 50″	0.58444638	0.81143233	0.720265087	1.388377720	1.232388655	1.711020951
35° 46′ 00″	0.58448572	0.81140400	0.720338723	1.388235796	1.232431692	1.710905791
35° 46′ 10″	0.58452506	0.81137566	0.720412363	1.388093891	1.232474735	1.710790651
35° 46′ 20″	0.58456439	0.81134732	0.720486008	1.387952005	1.232517784	1.710675530
35° 46′ 30″	0.58460373	0.81131898	0.720559659	1.387810138	1.232560839	1.710560429
35° 46′ 40″	0.58464306	0.81129063	0.720633315	1.387668290	1.232603900	1.710445347
35° 46′ 50″	0.58468239	0.81126229	0.720706976	1.387526462	1.232646967	1.710330284
35° 47′ 00″	0.58472172	0.81123394	0.720780642	1.387384652	1.232690040	1.710215242
35° 47′ 10″	0.58476105	0.81120559	0.720854313	1.387242862	1.232733118	1.710100218
35° 47′ 20″	0.58480038	0.81117724	0.720927989	1.387101090	1.232776203	1.709985215
35° 47′ 30″	0.58483970	0.81114889	0.721001671	1.386959338	1.232819293	1.709870230
35° 47′ 40″	0.58487903	0.81112053	0.721075358	1.386817604	1.232862389	1.709755266
35° 47′ 50″	0.58491835	0.81109218	0.721149049	1.386675890	1.232905492	1.709640320
35° 48′ 00″	0.58495767	0.81106382	0.721222746	1.386534195	1.232948600	1.709525394
35° 48′ 10″	0.58499700	0.81103546	0.721296448	1.386392519	1.232991714	1.709410488
35° 48′ 20″	0.58503632	0.81100710	0.721370156	1.386250862	1.233034834	1.709295601
35° 48′ 30″	0.58507563	0.81097873	0.721443868	1.386109224	1.233077960	1.709180734
35° 48′ 40″	0.58511495	0.81095037	0.721517586	1.385967605	1.233121092	1.709065885
35° 48′ 50″	0.58515427	0.81092200	0.721591309	1.385826005	1.233164229	1.708951057
35° 49′ 00″	0.58519358	0.81089363	0.721665036	1.385684424	1.233207373	1.708836248
35° 49′ 10″	0.58523289	0.81086526	0.721738769	1.385542862	1.233250523	1.708721458
35° 49′ 20″	0.58527220	0.81083688	0.721812508	1.385401319	1.233293678	1.708606688
35° 49′ 30″	0.58531151	0.81080851	0.721886251	1.385259795	1.233336839	1.708491937
35° 49′ 40″	0.58535082	0.81078013	0.721960000	1.385118290	1.233380007	1.708377206
35° 49′ 50″	0.58539013	0.81075175	0.722033753	1.384976804	1.233423180	1.708262494
35° 50′ 00″	0.58542943	0.81072337	0.722107512	1.384835337	1.233466359	1.708147801
35° 50′ 10″	0.58546874	0.81069498	0.722181276	1.384693889	1.233509544	1.708033128
35° 50′ 20″	0.58550804	0.81066660	0.722255045	1.384552460	1.233552735	1.707918474
35° 50′ 30″	0.58554734	0.81063821	0.722328820	1.384411050	1.233595932	1.707803840
35° 50′ 40″	0.58558664	0.81060982	0.722402599	1.384269659	1.233639135	1.707689225
35° 50′ 50″	0.58562594	0.81058143	0.722476384	1.384128287	1.233682344	1.707574629
35° 51′ 00″	0.58566524	0.81055304	0.722550174	1.383986934	1.233725559	1.707460053
35° 51′ 10″	0.58570453	0.81052464	0.722623969	1.383845600	1.233768779	1.707345497
35° 51′ 20″ 35° 51′ 30″	0.58574383 0.58578312	0.81049625	0.722697769 0.722771575	1.383704285	1.233812006 1.233855238	1.707230959
35° 51′ 40″		0.81046785		1.383562989		1.707116441
35° 51′ 40″ 35° 51′ 50″	0.58582241	0.81043945 0.81041105	0.722845385 0.722919201	1.383421712 1.383280453	1.233898477 1.233941721	1.707001943 1.706887463
=======================================	0.303001/1	0.01041103	0./ 447 17401	1.303400433	1,433741/41	1./ 0000/403

269 35° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
35° 52′ 00″	0.58590099	0.81038264	0.722993022	1.383139214	1.233984971	1.706773004
35° 52′ 10″	0.58594028	0.81035423	0.723066848	1.382997994	1.234028228	1.706658563
35° 52′ 20″	0.58597957	0.81032583	0.723140679	1.382856792	1.234071490	1.706544142
35° 52′ 30″	0.58601885	0.81029742	0.723214516	1.382715610	1.234114758	1.706429740
35° 52′ 40″	0.58605814	0.81026900	0.723288357	1.382574446	1.234158032	1.706315358
35° 52′ 50″	0.58609742	0.81024059	0.723362204	1.382433302	1.234201312	1.706200994
35° 53′ 00″	0.58613670	0.81021217	0.723436056	1.382292176	1.234244598	1.706086651
35° 53′ 10″	0.58617598	0.81018376	0.723509913	1.382151069	1.234287890	1.705972326
35° 53′ 20″	0.58621526	0.81015534	0.723583775	1.382009981	1.234331187	1.705858021
35° 53′ 30″	0.58625453	0.81012692	0.723657643	1.381868912	1.234374491	1.705743735
35° 53′ 40″	0.58629381	0.81009849	0.723731516	1.381727862	1.234417801	1.705629469
35° 53′ 50″	0.58633308	0.81007007	0.723805394	1.381586831	1.234461116	1.705515222
35° 54′ 00″	0.58637236	0.81004164	0.723879277	1.381445819	1.234504438	1.705400994
35° 54′ 10″	0.58641163	0.81001321	0.723953165	1.381304825	1.234547765	1.705286785
35° 54′ 20″	0.58645090	0.80998478	0.724027058	1.381163851	1.234591099	1.705172596
35° 54′ 30″	0.58649017	0.80995635	0.724100957	1.381022895	1.234634438	1.705058426
35° 54′ 40″	0.58652943	0.80992791	0.724174861	1.380881958	1.234677783	1.704944276
35° 54′ 50″	0.58656870	0.80989948	0.724248770	1.380741041	1.234721135	1.704830144
35° 55′ 00″	0.58660796	0.80987104	0.724322684	1.380600141	1.234764492	1.704716032
35° 55′ 10″	0.58664723	0.80984260	0.724396603	1.380459261	1.234807855	1.704601939
35° 55′ 20″	0.58668649	0.80981415	0.724470528	1.380318400	1.234851224	1.704487866
35° 55′ 30″	0.58672575	0.80978571	0.724544458	1.380177557	1.234894599	1.704373812
35° 55′ 40″	0.58676501	0.80975726	0.724618393	1.380036734	1.234937980	1.704259777
35° 55′ 50″	0.58680426	0.80972882	0.724692333	1.379895929	1.234981367	1.704145761
35° 56′ 00″	0.58684352	0.80970037	0.724766278	1.379755143	1.235024760	1.704031765
35° 56′ 10″	0.58688278	0.80967191	0.724840229	1.379614376	1.235068159	1.703917788
35° 56′ 20″	0.58692203	0.80964346	0.724914185	1.379473628	1.235111564	1.703803830
35° 56′ 30″	0.58696128	0.80961500	0.724988146	1.379332898	1.235154975	1.703689891
35° 56′ 40″	0.58700053	0.80958655	0.725062112	1.379192188	1.235198391	1.703575971
35° 56′ 50″	0.58703978	0.80955809	0.725136083	1.379051496	1.235241814	1.703462071
35° 57′ 00″ 35° 57′ 10″	0.58707903	0.80952963	0.725210060	1.378910823	1.235285243	1.703348190
35° 57′ 10″ 35° 57′ 20″	0.58711827	0.80950116	0.725284041	1.378770169	1.235328677 1.235372118	1.703234329 1.703120486
35° 57′ 30″	0.58715752 0.58719676	0.80947270 0.80944423	0.725358028 0.725432020	1.378629533 1.378488917	1.235415564	1.703120466
35° 57′ 40″	0.58717676	0.80941576	0.725506018	1.378348319	1.235459017	1.702892859
35° 57′ 50″	0.58727525	0.80938729	0.725580020	1.378207740	1.235502475	1.702872837
35° 58′ 00″	0.58727323	0.80735727	0.725654028	1.378067180	1.235545940	1.702665308
35° 58′ 10″	0.58735372	0.80933034	0.725728041	1.377926638	1.235589410	1.702551562
35° 58′ 20″	0.58739296	0.80733034	0.725802059	1.377786115	1.235632886	1.702437834
35° 58′ 30″	0.58743220	0.80927339	0.725876083	1.377645612	1.235676368	1.702324126
35° 58′ 40″	0.58747143	0.80924491	0.725950111	1.377505126	1.235719857	1.702324120
35° 58′ 50″	0.58751066	0.80921642	0.726024145	1.377364660	1.235763351	1.702096768
35° 59′ 00″	0.58754989	0.80918794	0.726098184	1.377224212	1.235806851	1.701983117
35° 59′ 10″	0.58758912	0.80915945	0.726172229	1.377083784	1.235850357	1.701869486
35° 59′ 20″	0.58762835	0.80913097	0.726246278	1.376943373	1.235893869	1.701755874
35° 59′ 30″	0.58766758	0.80910248	0.726320333	1.376802982	1.235937387	1.701642281
35° 59′ 40″	0.58770681	0.80907398	0.726394393	1.376662610	1.235980911	1.701528707
35° 59′ 50″	0.58774603	0.80904549	0.726468458	1.376522256	1.236024442	1.701415152
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270 35° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
36° 00′ 00″	0.58778525	0.80901699	0.726542528	1.376381920	1.236067977	1.701301617
36° 00′ 10″	0.58782447	0.80898850	0.726616604	1.376241604	1.236111519	1.701188100
36° 00′ 20″	0.58786369	0.80896000	0.726690684	1.376101306	1.236155067	1.701074603
36° 00′ 30″	0.58790291	0.80893150	0.726764770	1.375961027	1.236198621	1.700961125
36° 00′ 40″	0.58794213	0.80890299	0.726838862	1.375820767	1.236242181	1.700847666
36° 00′ 50″	0.58798135	0.80887449	0.726912958	1.375680526	1.236285747	1.700734226
36° 01′ 00″	0.58802056	0.80884598	0.726987060	1.375540303	1.236329319	1.700620806
36° 01′ 10″	0.58805977	0.80881747	0.727061166	1.375400099	1.236372897	1.700507404
36° 01′ 20″	0.58809899	0.80878896	0.727135279	1.375259913	1.236416481	1.700394022
36° 01′ 30″	0.58813820	0.80876045	0.727209396	1.375119746	1.236460070	1.700280658
36° 01′ 40″	0.58817741	0.80873193	0.727283518	1.374979598	1.236503666	1.700167314
36° 01′ 50″	0.58821661	0.80870342	0.727357646	1.374839469	1.236547268	1.700053989
36° 02′ 00″	0.58825582	0.80867490	0.727431779	1.374699358	1.236590876	1.699940683
36° 02′ 10″	0.58829502	0.80864638	0.727505917	1.374559266	1.236634489	1.699827396
36° 02′ 20″	0.58833423	0.80861786	0.727580061	1.374419193	1.236678109	1.699714128
36° 02′ 30″	0.58837343	0.80858933	0.727654210	1.374279138	1.236721735	1.699600879
36° 02′ 40″	0.58841263	0.80856080	0.727728364	1.374139102	1.236765366	1.699487650
36° 02′ 50″	0.58845183	0.80853228	0.727802523	1.373999085	1.236809004	1.699374439
36° 03′ 00″	0.58849103	0.80850375	0.727876687	1.373859086	1.236852648	1.699261248
36° 03′ 10″	0.58853023	0.80847522	0.727950857	1.373719106	1.236896297	1.699148075
36° 03′ 20″	0.58856942	0.80844668	0.728025032	1.373579144	1.236939953	1.699034922
36° 03′ 30″	0.58860861	0.80841815	0.728099212	1.373439202	1.236983614	1.698921788
36° 03′ 40″	0.58864781	0.80838961	0.728173397	1.373299277	1.237027282	1.698808672
36° 03′ 50″	0.58868700	0.80836107	0.728247588	1.373159372	1.237070955	1.698695576
36° 04′ 00″	0.58872619	0.80833253	0.728321783	1.373019485	1.237114635	1.698582499
36° 04′ 10″	0.58876538	0.80830398	0.728395985	1.372879617	1.237158321	1.698469441
36° 04′ 20″	0.58880456	0.80827544	0.728470191	1.372739767	1.237202012	1.698356402
36° 04′ 30″	0.58884375	0.80824689	0.728544402	1.372599936	1.237245710	1.698243382
36° 04′ 40″	0.58888293	0.80821834	0.728618619	1.372460123	1.237289413	1.698130381
36° 04′ 50″	0.58892212	0.80818979	0.728692841	1.372320330	1.237333123	1.698017399
36° 05′ 00″	0.58896130	0.80816124	0.728767068	1.372180554	1.237376838	1.697904436
36° 05′ 10″	0.58900048	0.80813269	0.728841301	1.372040798	1.237420560	1.697791492
36° 05′ 20″	0.58903966	0.80810413	0.728915539	1.371901060	1.237464287	1.697678567
36° 05′ 30″	0.58907883	0.80807557	0.728989782	1.371761340	1.237508021	1.697565661
36° 05′ 40″	0.58911801	0.80804701	0.729064030	1.371621639	1.237551760	1.697452774
36° 05′ 50″	0.58915718	0.80801845	0.729138283	1.371481957	1.237595506	1.697339907
36° 06′ 00″	0.58919636	0.80798988	0.729212542	1.371342293	1.237639258	1.697227058
36° 06′ 10″	0.58923553	0.80796132	0.729286806	1.371202648	1.237683015	1.697114228
36° 06′ 20″	0.58927470	0.80793275	0.729361076	1.371063022	1.237726779	1.697001417
36° 06′ 30″	0.58931387	0.80790418	0.729435350	1.370923414	1.237770548	1.696888625
36° 06′ 40″	0.58935304	0.80787561	0.729509630	1.370783824	1.237814324	1.696775852
36° 06′ 50″	0.58939220	0.80784703	0.729583915	1.370644253	1.237858105	1.696663098
36° 07′ 00″	0.58943137	0.80781846	0.729658205	1.370504701	1.237901893	1.696550363
36° 07′ 10″	0.58947053	0.80778988	0.729732501	1.370365167	1.237945686	1.696437647
36° 07′ 20″	0.58950969	0.80776130	0.729806801	1.370225652	1.237989486	1.696324950
36° 07′ 30″	0.58954885	0.80773272	0.729881107	1.370086155	1.238033292	1.696212272
36° 07′ 40″	0.58958801	0.80770414	0.729955419	1.369946677	1.238077103	1.696099613
36° 07′ 50″	0.58962717	0.80767555	0.730029735	1.369807217	1.238120921	1.695986973

271 36° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
36° 08′ 00″	0.58966633	0.80764697	0.730104057	1.369667776	1.238164744	1.695874351
36° 08′ 10″	0.58970548	0.80761838	0.730178384	1.369528353	1.238208574	1.695761749
36° 08′ 20″	0.58974464	0.80758979	0.730252717	1.369388949	1.238252410	1.695649166
36° 08′ 30″	0.58978379	0.80756119	0.730327054	1.369249563	1.238296251	1.695536601
36° 08′ 40″	0.58982294	0.80753260	0.730401397	1.369110196	1.238340099	1.695424056
36° 08′ 50″	0.58986209	0.80750400	0.730475745	1.368970848	1.238383953	1.695311529
36° 09′ 00″	0.58990124	0.80747541	0.730550099	1.368831517	1.238427812	1.695199022
36° 09′ 10″	0.58994038	0.80744681	0.730624457	1.368692206	1.238471678	1.695086533
36° 09′ 20″	0.58997953	0.80741820	0.730698821	1.368552913	1.238515550	1.694974063
36° 09′ 30″	0.59001867	0.80738960	0.730773190	1.368413638	1.238559428	1.694861612
36° 09′ 40″	0.59005782	0.80736099	0.730847565	1.368274382	1.238603311	1.694749180
36° 09′ 50″	0.59009696	0.80733239	0.730921945	1.368135144	1.238647201	1.694636767
36° 10′ 00″	0.59013610	0.80730378	0.730996330	1.367995925	1.238691097	1.694524373
36° 10′ 10″	0.59017524	0.80727516	0.731070720	1.367856724	1.238734999	1.694411997
36° 10′ 20″	0.59021437	0.80724655	0.731145116	1.367717542	1.238778907	1.694299641
36° 10′ 30″	0.59025351	0.80721794	0.731219516	1.367578378	1.238822821	1.694187303
36° 10′ 40″	0.59029264	0.80718932	0.731293923	1.367439232	1.238866741	1.694074985
36° 10′ 50″	0.59033178	0.80716070	0.731368334	1.367300105	1.238910667	1.693962685
36° 11′ 00″	0.59037091	0.80713208	0.731442751	1.367160997	1.238954599	1.693850404
36° 11′ 10″	0.59041004	0.80710346	0.731517173	1.367021907	1.238998537	1.693738142
36° 11′ 20″	0.59044917	0.80707483	0.731591600	1.366882835	1.239042481	1.693625899
36° 11′ 30″	0.59048829	0.80704620	0.731666032	1.366743782	1.239086431	1.693513674
36° 11′ 40″	0.59052742	0.80701758	0.731740470	1.366604747	1.239130387	1.693401469
36° 11′ 50″	0.59056654	0.80698894	0.731814913	1.366465731	1.239174349	1.693289282
36° 12′ 00″	0.59060567	0.80696031	0.731889362	1.366326733	1.239218317	1.693177114
36° 12′ 10″	0.59064479	0.80693168	0.731963815	1.366187753	1.239262291	1.693064965
36° 12′ 20″	0.59068391	0.80690304	0.732038274	1.366048792	1.239306272	1.692952835
36° 12′ 30″	0.59072303	0.80687440	0.732112738	1.365909849	1.239350258	1.692840724
36° 12′ 40″	0.59076215	0.80684576	0.732187208	1.365770925	1.239394250	1.692728631
36° 12′ 50″	0.59080126	0.80681712	0.732261683	1.365632019	1.239438248	1.692616558
36° 13′ 00″	0.59084038	0.80678848	0.732336163	1.365493131	1.239482253	1.692504503
36° 13′ 10″	0.59087949	0.80675983	0.732410648	1.365354262	1.239526263	1.692392467
36° 13′ 20″	0.59091860	0.80673118	0.732485139	1.365215412	1.239570280	1.692280450
36° 13′ 30″	0.59095771	0.80670253	0.732559635	1.365076579	1.239614302	1.692168451
36° 13′ 40″	0.59099682	0.80667388	0.732634136	1.364937765	1.239658331	1.692056472
36° 13′ 50″	0.59103593	0.80664523	0.732708642	1.364798970	1.239702365	1.691944511
36° 14′ 00″	0.59107504	0.80661658	0.732783154	1.364660192	1.239746406	1.691832569
36° 14′ 10″	0.59111414	0.80658792	0.732857671	1.364521433	1.239790453	1.691720645
36° 14′ 20″	0.59115325	0.80655926	0.732932194	1.364382693	1.239834505	1.691608741
36° 14′ 30″	0.59119235	0.80653060	0.733006721	1.364243971	1.239878564	1.691496855
36° 14′ 40″	0.59123145	0.80650194	0.733081254	1.364105267	1.239922629	1.691384988
36° 14′ 50″	0.59127055	0.80647327	0.733155793	1.363966581	1.239966700	1.691273140
36° 15′ 00″	0.59130965	0.80644460	0.733230336	1.363827914	1.240010777	1.691161311
36° 15′ 10″	0.59134875	0.80641594	0.733304885	1.363689265	1.240054860	1.691049500
36° 15′ 20″	0.59138784	0.80638727	0.733379439	1.363550635	1.240098949	1.690937708
36° 15′ 30″	0.59142693	0.80635859	0.733453999	1.363412023	1.240143044	1.690825935
36° 15′ 40″	0.59146603	0.80632992	0.733528564	1.363273429	1.240187145	1.690714181
36° 15′ 50″	0.59150512	0.80630124	0.733603134	1.363134853	1.240231252	1.690602445
	1					

272 36° 15′ 50″

	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	csc(v)
269 167 00W						csc(x)
36° 16′ 00″	0.59154421	0.80627257	0.733677709	1.362996296	1.240275365	1.690490728
36° 16′ 10″	0.59158330	0.80624389	0.733752290	1.362857757	1.240319484	1.690379030
36° 16′ 20″	0.59162238	0.80621520	0.733826876	1.362719236	1.240363610	1.690267351
36° 16′ 30″	0.59166147	0.80618652	0.733901467	1.362580734	1.240407741	1.690155690
36° 16′ 40″	0.59170055	0.80615783	0.733976064	1.362442250	1.240451878	1.690044048
36° 16′ 50″	0.59173964	0.80612915	0.734050666	1.362303784	1.240496022	1.689932425
36° 17′ 00″	0.59177872	0.80610046	0.734125273	1.362165337	1.240540171	1.689820820
36° 17′ 10″	0.59181780	0.80607177	0.734199886	1.362026908	1.240584327	1.689709235
36° 17′ 20″	0.59185688	0.80604307	0.734274504	1.361888497	1.240628489	1.689597668
36° 17′ 30″	0.59189596	0.80601438	0.734349127	1.361750104	1.240672656	1.689486119
36° 17′ 40″	0.59193503	0.80598568	0.734423755	1.361611730	1.240716830	1.689374589
36° 17′ 50″	0.59197411	0.80595698	0.734498389	1.361473374	1.240761010	1.689263078
36° 18′ 00″	0.59201318	0.80592828	0.734573028	1.361335036	1.240805196	1.689151586
36° 18′ 10″	0.59205225	0.80589958	0.734647673	1.361196717	1.240849388	1.689040113
36° 18′ 20″	0.59209132	0.80587088	0.734722322	1.361058416	1.240893586	1.688928658
36° 18′ 30″	0.59213039	0.80584217	0.734796978	1.360920133	1.240937790	1.688817221
36° 18′ 40″	0.59216946	0.80581346	0.734871638	1.360781868	1.240982000	1.688705804
36° 18′ 50″	0.59220852	0.80578475	0.734946304	1.360643621	1.241026216	1.688594405
36° 19′ 00″	0.59224759	0.80575604	0.735020975	1.360505393	1.241070438	1.688483025
36° 19′ 10″	0.59228665	0.80572732	0.735095651	1.360367183	1.241114667	1.688371663
36° 19′ 20″	0.59232571	0.80569861	0.735170333	1.360228991	1.241158901	1.688260320
36° 19′ 30″	0.59236477	0.80566989	0.735245020	1.360090817	1.241203142	1.688148996
36° 19′ 40″	0.59240383	0.80564117	0.735319712	1.359952662	1.241247388	1.688037690
36° 19′ 50″	0.59244289	0.80561245	0.735394410	1.359814525	1.241291641	1.687926403
36° 20′ 00″	0.59248195	0.80558373	0.735469113	1.359676406	1.241335900	1.687815135
36° 20′ 10″	0.59252100	0.80555500	0.735543821	1.359538305	1.241380164	1.687703885
36° 20′ 20″	0.59256006	0.80552627	0.735618535	1.359400223	1.241424435	1.687592654
36° 20′ 30″	0.59259911	0.80549755	0.735693254	1.359262158	1.241468712	1.687481441
36° 20′ 40″	0.59263816	0.80546881	0.735767978	1.359124112	1.241512995	1.687370248
36° 20′ 50″	0.59267721	0.80544008	0.735842708	1.358986084	1.241557284	1.687259072
36° 21′ 00″	0.59271626	0.80541135	0.735917443	1.358848075	1.241601580	1.687147916
36° 21′ 10″	0.59275531	0.80538261	0.735992183	1.358710083	1.241645881	1.687036778
36° 21′ 20″	0.59279435	0.80535387	0.736066929	1.358572110	1.241690188	1.686925658
36° 21′ 30″	0.59283339	0.80532513	0.736141680	1.358434154	1.241734502	1.686814558
36° 21′ 40″	0.59287244	0.80529639	0.736216436	1.358296217	1.241778821	1.686703475
36° 21′ 50″	0.59291148	0.80526764	0.736291198	1.358158298	1.241823147	1.686592412
36° 22′ 00″	0.59295052	0.80523890	0.736365965	1.358020398	1.241867478	1.686481367
36° 22′ 10″	0.59298956	0.80521015	0.736440737	1.357882515	1.241911816	1.686370340
36° 22′ 20″	0.59302859	0.80518140	0.736515515	1.357744651	1.241956160	1.686259333
36° 22′ 30″	0.59306763	0.80515265	0.736590298	1.357606804	1.242000510	1.686148343
36° 22′ 40″	0.59310666	0.80512389	0.736665086	1.357468976	1.242044866	1.686037373
36° 22′ 50″	0.59314570	0.80509514	0.736739880	1.357331166	1.242089228	1.685926420
36° 23′ 00″	0.59318473	0.80506638	0.736814679	1.357193374	1.242133596	1.685815487
36° 23′ 10″	0.59322376	0.80503762	0.736889483	1.357055601	1.242177970	1.685704572
36° 23′ 20″	0.59326279	0.80500886	0.736964293	1.356917845	1.242222351	1.685593675
36° 23′ 30″	0.59330181	0.80498010	0.737039108	1.356780108	1.242266737	1.685482798
36° 23′ 40″ 36° 23′ 50″	0.59334084	0.80495133	0.737113928	1.356642388	1.242311130	1.685371938
<u> </u>	0.59337986	0.80492257	0.737188754	1.356504687	1.242355528	1.685261097

273 36° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
36° 24′ 00″	0.59341889	0.80489380	0.737263585	1.356367004	1.242399933	1.685150275
36° 24′ 10″	0.59345791	0.80486503	0.737338421	1.356229339	1.242444344	1.685039471
36° 24′ 20″	0.59349693	0.80483625	0.737413263	1.356091692	1.242488761	1.684928686
36° 24′ 30″	0.59353595	0.80480748	0.737488110	1.355954063	1.242533184	1.684817919
36° 24′ 40″	0.59357496	0.80477870	0.737562963	1.355816453	1.242577613	1.684707171
36° 24′ 50″	0.59361398	0.80474992	0.737637821	1.355678860	1.242622048	1.684596442
36° 25′ 00″	0.59365300	0.80472114	0.737712684	1.355541285	1.242666490	1.684485731
36° 25′ 10″	0.59369201	0.80469236	0.737787553	1.355403729	1.242710937	1.684375038
36° 25′ 20″	0.59373102	0.80466358	0.737862427	1.355266191	1.242755390	1.684264364
36° 25′ 30″	0.59377003	0.80463479	0.737937306	1.355128670	1.242799850	1.684153708
36° 25′ 40″	0.59380904	0.80460601	0.738012191	1.354991168	1.242844316	1.684043071
36° 25′ 50″	0.59384805	0.80457722	0.738087081	1.354853684	1.242888788	1.683932452
36° 26′ 00″	0.59388705	0.80454842	0.738161976	1.354716218	1.242933266	1.683821852
36° 26′ 10″	0.59392606	0.80451963	0.738236877	1.354578770	1.242977750	1.683711271
36° 26′ 20″	0.59396506	0.80449084	0.738311783	1.354441340	1.243022240	1.683600708
36° 26′ 30″	0.59400406	0.80446204	0.738386694	1.354303928	1.243066736	1.683490163
36° 26′ 40″	0.59404307	0.80443324	0.738461611	1.354166534	1.243111238	1.683379637
36° 26′ 50″	0.59408206	0.80440444	0.738536533	1.354029158	1.243155747	1.683269129
36° 27′ 00″	0.59412106	0.80437564	0.738611461	1.353891800	1.243200261	1.683158640
36° 27′ 10″	0.59416006	0.80434683	0.738686394	1.353754460	1.243244782	1.683048169
36° 27′ 20″	0.59419905	0.80431802	0.738761332	1.353617138	1.243289309	1.682937716
36° 27′ 30″	0.59423805	0.80428922	0.738836276	1.353479835	1.243333842	1.682827283
36° 27′ 40″	0.59427704	0.80426040	0.738911225	1.353342549	1.243378381	1.682716867
36° 27′ 50″	0.59431603	0.80423159	0.738986179	1.353205281	1.243422926	1.682606470
36° 28′ 00″	0.59435502	0.80420278	0.739061139	1.353068031	1.243467477	1.682496091
36° 28′ 10″	0.59439401	0.80417396	0.739136104	1.352930800	1.243512034	1.682385731
36° 28′ 20″	0.59443300	0.80414514	0.739211074	1.352793586	1.243556598	1.682275390
36° 28′ 30″	0.59447198	0.80411632	0.739286050	1.352656390	1.243601168	1.682165066
36° 28′ 40″	0.59451097	0.80408750	0.739361031	1.352519213	1.243645743	1.682054761
36° 28′ 50″	0.59454995	0.80405868	0.739436018	1.352382053	1.243690325	1.681944475
36° 29′ 00″	0.59458893	0.80402985	0.739511010	1.352244911	1.243734913	1.681834207
36° 29′ 10″	0.59462791	0.80400103	0.739586007	1.352107787	1.243779507	1.681723957
36° 29′ 20″	0.59466689	0.80397220	0.739661010	1.351970681	1.243824107	1.681613726
36° 29′ 30″	0.59470586	0.80394337	0.739736018	1.351833594	1.243868714	1.681503513
36° 29′ 40″	0.59474484	0.80391453	0.739811032	1.351696524	1.243913326	1.681393319
36° 29′ 50″	0.59478381	0.80388570	0.739886051	1.351559472	1.243957945	1.681283143
36° 30′ 00″	0.59482279	0.80385686	0.739961075	1.351422438	1.244002569	1.681172985
36° 30′ 10″ 36° 30′ 20″	0.59486176	0.80382802	0.740036105	1.351285422	1.244047200	1.681062846
	0.59490073	0.80379918	0.740111140	1.351148424	1.244091837	1.680952725
36° 30′ 30″ 36° 30′ 40″	0.59493970	0.80377034	0.740186180	1.351011444	1.244136480	1.680842622
36° 30′ 50″	0.59497866	0.80374149	0.740261226	1.350874482	1.244181129	1.680732538
36° 31′ 00″	0.59501763	0.80371265	0.740336277	1.350737538	1.244225785	1.680622473
36° 31′ 10″	0.59505659	0.80368380 0.80365495	0.740411334	1.350600611	1.244270446	1.680512425
36° 31′ 10″ 36° 31′ 20″	0.59509556 0.59513452		0.740486396 0.740561463	1.350463703	1.244315114 1.244359787	1.680402396
36° 31′ 30″		0.80362610		1.350326813 1.350189940		1.680292385
36° 31′ 40″	0.59517348 0.59521244	0.80359724 0.80356839	0.740636536 0.740711614	1.350189940	1.244404467 1.244449153	1.680182393 1.680072419
36° 31′ 50″	0.59525140	0.80353953	0.740711614	1.349916249	1.24449133	1.679962464
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274 36° 31′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
36° 32′ 00″	0.59529035	0.80351067	0.740861787	1.349779430	1.244538544	1.679852526
36° 32′ 10″	0.59532931	0.80348181	0.740936881	1.349642629	1.244583248	1.679742607
36° 32′ 20″	0.59536826	0.80345295	0.741011981	1.349505846	1.244627959	1.679632707
36° 32′ 30″	0.59540721	0.80342408	0.741087086	1.349369081	1.244672675	1.679522824
36° 32′ 40″	0.59544616	0.80339521	0.741162196	1.349232334	1.244717398	1.679412960
36° 32′ 50″	0.59548511	0.80336634	0.741237312	1.349095605	1.244762127	1.679303115
36° 33′ 00″	0.59552406	0.80333747	0.741312433	1.348958893	1.244806862	1.679193287
36° 33′ 10″	0.59556300	0.80330860	0.741387560	1.348822200	1.244851603	1.679083478
36° 33′ 20″	0.59560195	0.80327973	0.741462692	1.348685524	1.244896351	1.678973688
36° 33′ 30″	0.59564089	0.80325085	0.741537830	1.348548867	1.244941104	1.678863915
36° 33′ 40″	0.59567983	0.80322197	0.741612973	1.348412227	1.244985864	1.678754161
36° 33′ 50″	0.59571877	0.80319309	0.741688121	1.348275605	1.245030630	1.678644425
36° 34′ 00″	0.59575771	0.80316421	0.741763275	1.348139001	1.245075402	1.678534708
36° 34′ 10″	0.59579665	0.80313532	0.741838434	1.348002414	1.245120180	1.678425008
36° 34′ 20″	0.59583559	0.80310644	0.741913599	1.347865846	1.245164964	1.678315327
36° 34′ 30″	0.59587452	0.80307755	0.741988768	1.347729295	1.245209754	1.678205665
36° 34′ 40″	0.59591346	0.80304866	0.742063944	1.347592762	1.245254551	1.678096020
36° 34′ 50″	0.59595239	0.80301977	0.742139125	1.347456248	1.245299354	1.677986394
36° 35′ 00″	0.59599132	0.80299088	0.742214311	1.347319750	1.245344163	1.677876786
36° 35′ 10″	0.59603025	0.80296198	0.742289502	1.347183271	1.245388978	1.677767197
36° 35′ 20″	0.59606918	0.80293308	0.742364699	1.347046810	1.245433799	1.677657625
36° 35′ 30″	0.59610810	0.80290418	0.742439902	1.346910366	1.245478626	1.677548072
36° 35′ 40″	0.59614703	0.80287528	0.742515110	1.346773940	1.245523459	1.677438537
36° 35′ 50″	0.59618595	0.80284638	0.742590323	1.346637532	1.245568299	1.677329021
36° 36′ 00″	0.59622487	0.80281748	0.742665542	1.346501142	1.245613145	1.677219522
36° 36′ 10″	0.59626380	0.80278857	0.742740766	1.346364770	1.245657997	1.677110042
36° 36′ 20″	0.59630272	0.80275966	0.742815995	1.346228415	1.245702855	1.677000580
36° 36′ 30″	0.59634163	0.80273075	0.742891230	1.346092079	1.245747719	1.676891137
36° 36′ 40″	0.59638055	0.80270184	0.742966470	1.345955760	1.245792590	1.676781711
36° 36′ 50″	0.59641947	0.80267292	0.743041716	1.345819458	1.245837466	1.676672304
36° 37′ 00″	0.59645838	0.80264401	0.743116967	1.345683175	1.245882349	1.676562915
36° 37′ 10″	0.59649729	0.80261509	0.743192224	1.345546909	1.245927238	1.676453544
36° 37′ 20″	0.59653620	0.80258617	0.743267486	1.345410662	1.245972133	1.676344192
36° 37′ 30″	0.59657511	0.80255725	0.743342753	1.345274432	1.246017034	1.676234857
36° 37′ 40″	0.59661402	0.80252832	0.743418026	1.345138219	1.246061941	1.676125541
36° 37′ 50″ 36° 38′ 00″	0.59665293	0.80249940	0.743493305	1.345002025	1.246106855	1.676016243
36° 38′ 10″	0.59669183	0.80247047	0.743568588	1.344865848	1.246151775	1.675906963
36° 38′ 10″ 36° 38′ 20″	0.59673074	0.80244154	0.743643877	1.344729689	1.246196701	1.675797702
36° 38′ 30″	0.59676964 0.59680854	0.80241261	0.743719172	1.344593548	1.246241633 1.246286571	1.675688458
		0.80238368	0.743794472	1.344457424		1.675579233
36° 38′ 40″ 36° 38′ 50″	0.59684744	0.80235474	0.743869777	1.344321319	1.246331515	1.675470026
36° 38′ 50″ 36° 39′ 00″	0.59688634	0.80232580	0.743945088	1.344185231	1.246376466	1.675360837
36° 39′ 10″	0.59692524	0.80229687 0.80226792	0.744020405 0.744095726	1.344049160 1.343913108	1.246421422 1.246466385	1.675251666 1.675142514
36° 39′ 10″ 36° 39′ 20″						1.675033379
36° 39′ 30″	0.59700303	0.80223898 0.80221004	0.744171054 0.744246386	1.343777073 1.343641056	1.246511354	
36° 39′ 40″	0.59704192	0.80221004	0.744246386	1.343541056	1.246556330 1.246601311	1.674924263 1.674815165
36° 39′ 50″	0.59711970	0.80215109	0.744321724	1.343369075	1.246646299	1.674706085
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275 36° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
36° 40′ 00″	0.59715859	0.80212319	0.744472417	1.343233111	1.246691293	1.674597023
36° 40′ 10″	0.59719748	0.80209424	0.744547771	1.343097165	1.246736293	1.674487979
36° 40′ 20″	0.59723636	0.80206529	0.744623131	1.342961236	1.246781299	1.674378954
36° 40′ 30″	0.59727525	0.80203633	0.744698496	1.342825325	1.246826311	1.674269947
36° 40′ 40″	0.59731413	0.80200737	0.744773867	1.342689432	1.246871330	1.674160957
36° 40′ 50″	0.59735301	0.80197841	0.744849243	1.342553557	1.246916354	1.674051986
36° 41′ 00″	0.59739189	0.80194945	0.744924624	1.342417699	1.246961385	1.673943033
36° 41′ 10″	0.59743077	0.80192049	0.745000011	1.342281859	1.247006422	1.673834098
36° 41′ 20″	0.59746965	0.80189152	0.745075404	1.342146036	1.247051465	1.673725181
36° 41′ 30″	0.59750853	0.80186256	0.745150802	1.342010232	1.247096515	1.673616283
36° 41′ 40″	0.59754740	0.80183359	0.745226205	1.341874444	1.247141570	1.673507402
36° 41′ 50″	0.59758628	0.80180462	0.745301614	1.341738675	1.247186632	1.673398540
36° 42′ 00″	0.59762515	0.80177564	0.745377028	1.341602923	1.247231700	1.673289695
36° 42′ 10″	0.59766402	0.80174667	0.745452448	1.341467189	1.247276774	1.673180869
36° 42′ 20″	0.59770289	0.80171769	0.745527873	1.341331473	1.247321855	1.673072061
36° 42′ 30″	0.59774175	0.80168871	0.745603304	1.341195774	1.247366941	1.672963270
36° 42′ 40″	0.59778062	0.80165973	0.745678740	1.341060093	1.247412034	1.672854498
36° 42′ 50″	0.59781949	0.80163075	0.745754181	1.340924429	1.247457133	1.672745744
36° 43′ 00″	0.59785835	0.80160177	0.745829628	1.340788784	1.247502238	1.672637009
36° 43′ 10″	0.59789721	0.80157278	0.745905081	1.340653155	1.247547350	1.672528291
36° 43′ 20″	0.59793607	0.80154379	0.745980539	1.340517545	1.247592467	1.672419591
36° 43′ 30″	0.59797493	0.80151480	0.746056002	1.340381952	1.247637591	1.672310909
36° 43′ 40″	0.59801379	0.80148581	0.746131471	1.340246377	1.247682721	1.672202245
36° 43′ 50″	0.59805264	0.80145682	0.746206945	1.340110819	1.247727857	1.672093600
36° 44′ 00″	0.59809150	0.80142782	0.746282425	1.339975279	1.247772999	1.671984972
36° 44′ 10″	0.59813035	0.80139883	0.746357910	1.339839756	1.247818148	1.671876363
36° 44′ 20″	0.59816921	0.80136983	0.746433401	1.339704251	1.247863302	1.671767771
36° 44′ 30″	0.59820806	0.80134083	0.746508897	1.339568764	1.247908463	1.671659198
36° 44′ 40″	0.59824691	0.80131182	0.746584398	1.339433294	1.247953630	1.671550642
36° 44′ 50″	0.59828575	0.80128282	0.746659905	1.339297842	1.247998804	1.671442105
36° 45′ 00″	0.59832460	0.80125381	0.746735418	1.339162408	1.248043983	1.671333586
36° 45′ 10″	0.59836345	0.80122480	0.746810936	1.339026991	1.248089169	1.671225084
36° 45′ 20″	0.59840229	0.80119579	0.746886459	1.338891591	1.248134361	1.671116601
36° 45′ 30″	0.59844113	0.80116678	0.746961988	1.338756210	1.248179559	1.671008136
36° 45′ 40″	0.59847997	0.80113777	0.747037523	1.338620845	1.248224763	1.670899688
36° 45′ 50″	0.59851881	0.80110875	0.747113062	1.338485499	1.248269974	1.670791259
36° 46′ 00″	0.59855765	0.80107973	0.747188608	1.338350170	1.248315191	1.670682848
36° 46′ 10″	0.59859649	0.80105071	0.747264159	1.338214858	1.248360414	1.670574454
36° 46′ 20″	0.59863532	0.80102169	0.747339715	1.338079564	1.248405643	1.670466079
36° 46′ 30″	0.59867416	0.80099267	0.747415277	1.337944288	1.248450878	1.670357721
36° 46′ 40″	0.59871299	0.80096364	0.747490844	1.337809029	1.248496120	1.670249382
36° 46′ 50″	0.59875182	0.80093462	0.747566417	1.337673788	1.248541368	1.670141061
36° 47′ 00″	0.59879065	0.80090559	0.747641995	1.337538564	1.248586622	1.670032757
36° 47′ 10″	0.59882948	0.80087655	0.747717578	1.337403358	1.248631882	1.669924472
36° 47′ 20″	0.59886831	0.80084752	0.747793168	1.337268169	1.248677149	1.669816204
36° 47′ 30″	0.59890713	0.80081849	0.747868762	1.337132998	1.248722421	1.669707955
36° 47′ 40″	0.59894595	0.80078945	0.747944362	1.336997844	1.248767700	1.669599723
36° 47′ 50″	0.59898478	0.80076041	0.748019968	1.336862708	1.248812985	1.669491510

276 36° 47′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
36° 48′ 00″	0.59902360	0.80073137	0.748095579	1.336727590	1.248858277	1.669383314
36° 48′ 10″	0.59906242	0.80070233	0.748171195	1.336592488	1.248903574	1.669275136
36° 48′ 20″	0.59910124	0.80067328	0.748246818	1.336457405	1.248948878	1.669166976
36° 48′ 30″	0.59914005	0.80064424	0.748322445	1.336322339	1.248994188	1.669058835
36° 48′ 40″	0.59917887	0.80061519	0.748398078	1.336187290	1.249039504	1.668950711
36° 48′ 50″	0.59921768	0.80058614	0.748473717	1.336052259	1.249084827	1.668842605
36° 49′ 00″	0.59925650	0.80055709	0.748549361	1.335917246	1.249130155	1.668734517
36° 49′ 10″	0.59929531	0.80052803	0.748625010	1.335782249	1.249175490	1.668626447
36° 49′ 20″	0.59933412	0.80049898	0.748700665	1.335647271	1.249220832	1.668518394
36° 49′ 30″	0.59937293	0.80046992	0.748776326	1.335512310	1.249266179	1.668410360
36° 49′ 40″	0.59941173	0.80044086	0.748851992	1.335377366	1.249311532	1.668302344
36° 49′ 50″	0.59945054	0.80041180	0.748927663	1.335242440	1.249356892	1.668194345
36° 50′ 00″	0.59948934	0.80038274	0.749003340	1.335107531	1.249402258	1.668086365
36° 50′ 10″	0.59952815	0.80035367	0.749079022	1.334972640	1.249447631	1.667978402
36° 50′ 20″	0.59956695	0.80032461	0.749154710	1.334837766	1.249493009	1.667870457
36° 50′ 30″	0.59960575	0.80029554	0.749230404	1.334702910	1.249538394	1.667762530
36° 50′ 40″	0.59964455	0.80026647	0.749306103	1.334568071	1.249583785	1.667654621
36° 50′ 50″	0.59968334	0.80023739	0.749381807	1.334433249	1.249629182	1.667546730
36° 51′ 00″	0.59972214	0.80020832	0.749457517	1.334298445	1.249674586	1.667438857
36° 51′ 10″	0.59976093	0.80017924	0.749533233	1.334163659	1.249719995	1.667331001
36° 51′ 20″	0.59979973	0.80015016	0.749608954	1.334028890	1.249765411	1.667223164
36° 51′ 30″	0.59983852	0.80012108	0.749684680	1.333894138	1.249810833	1.667115344
36° 51′ 40″	0.59987731	0.80009200	0.749760412	1.333759404	1.249856262	1.667007543
36° 51′ 50″	0.59991610	0.80006292	0.749836149	1.333624687	1.249901697	1.666899759
36° 52′ 00″	0.59995489	0.80003383	0.749911892	1.333489987	1.249947137	1.666791993
36° 52′ 10″	0.59999367	0.80000475	0.749987641	1.333355305	1.249992585	1.666684244
36° 52′ 20″	0.60003246	0.79997566	0.750063395	1.333220641	1.250038038	1.666576514
36° 52′ 30″	0.60007124	0.79994657	0.750139154	1.333085994	1.250083498	1.666468801
36° 52′ 40″	0.60011002	0.79991747	0.750214919	1.332951364	1.250128963	1.666361107
36° 52′ 50″	0.60014880	0.79988838	0.750290690	1.332816751	1.250174436	1.666253430
36° 53′ 00″	0.60018758	0.79985928	0.750366466	1.332682156	1.250219914	1.666145771
36° 53′ 10″	0.60022636	0.79983018	0.750442248	1.332547579	1.250265399	1.666038130
36° 53′ 20″	0.60026513	0.79980108	0.750518035	1.332413019	1.250310889	1.665930506
36° 53′ 30″	0.60030391	0.79977198	0.750593827	1.332278476	1.250356387	1.665822901
36° 53′ 40″	0.60034268	0.79974287	0.750669625	1.332143950	1.250401890	1.665715313
36° 53′ 50″	0.60038145	0.79971377	0.750745429	1.332009442	1.250447400	1.665607743
36° 54′ 00″	0.60042023	0.79968466	0.750821238	1.331874952	1.250492915	1.665500191
36° 54′ 10″	0.60045899	0.79965555	0.750897053	1.331740478	1.250538438	1.665392657
36° 54′ 20″	0.60049776	0.79962644	0.750972873	1.331606022	1.250583966	1.665285140
36° 54′ 30″	0.60053653	0.79959732	0.751048699	1.331471584	1.250629501	1.665177642
36° 54′ 40″	0.60057529	0.79956821	0.751124530	1.331337162	1.250675041	1.665070161
36° 54′ 50″	0.60061406	0.79953909	0.751200367	1.331202758	1.250720589	1.664962697
36° 55′ 00″	0.60065282	0.79950997	0.751276209	1.331068372	1.250766142	1.664855252
36° 55′ 10″	0.60069158	0.79948085	0.751352057	1.330934003	1.250811702	1.664747825
36° 55′ 20″	0.60073034	0.79945172	0.751427910	1.330799651	1.250857268	1.664640415
36° 55′ 30″	0.60076910	0.79942260	0.751503769	1.330665316	1.250902840	1.664533023
36° 55′ 40″	0.60080785	0.79939347	0.751579633	1.330530999	1.250948418	1.664425648
36° 55′ 50″	0.60084661	0.79936434	0.751655503	1.330396699	1.250994003	1.664318292

277 36° 55′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
36° 56′ 00″	0.60088536	0.79933521	0.751731378	1.330262416	1.251039594	1.664210953
36° 56′ 10″	0.60092411	0.79930608	0.751807259	1.330128151	1.251085191	1.664103632
36° 56′ 20″	0.60096286	0.79927695	0.751883146	1.329993903	1.251130795	1.663996329
36° 56′ 30″	0.60100161	0.79924781	0.751959038	1.329859673	1.251176404	1.663889043
36° 56′ 40″	0.60104036	0.79921867	0.752034935	1.329725459	1.251222020	1.663781776
36° 56′ 50″	0.60107911	0.79918953	0.752110839	1.329591263	1.251267643	1.663674526
36° 57′ 00″	0.60111785	0.79916039	0.752186747	1.329457085	1.251313271	1.663567293
36° 57′ 10″	0.60115660	0.79913124	0.752262661	1.329322923	1.251358906	1.663460079
36° 57′ 20″	0.60119534	0.79910210	0.752338581	1.329188779	1.251404547	1.663352882
36° 57′ 30″	0.60123408	0.79907295	0.752414506	1.329054652	1.251450194	1.663245703
36° 57′ 40″	0.60127282	0.79904380	0.752490437	1.328920543	1.251495848	1.663138542
36° 57′ 50″	0.60131156	0.79901465	0.752566373	1.328786450	1.251541508	1.663031398
36° 58′ 00″	0.60135029	0.79898550	0.752642315	1.328652375	1.251587174	1.662924272
36° 58′ 10″	0.60138903	0.79895634	0.752718263	1.328518318	1.251632847	1.662817164
36° 58′ 20″	0.60142776	0.79892718	0.752794216	1.328384277	1.251678525	1.662710073
36° 58′ 30″	0.60146650	0.79889803	0.752870174	1.328250254	1.251724210	1.662603001
36° 58′ 40″	0.60150523	0.79886886	0.752946138	1.328116248	1.251769902	1.662495945
36° 58′ 50″	0.60154396	0.79883970	0.753022108	1.327982260	1.251815599	1.662388908
36° 59′ 00″	0.60158268	0.79881054	0.753098083	1.327848288	1.251861303	1.662281888
36° 59′ 10″	0.60162141	0.79878137	0.753174063	1.327714334	1.251907013	1.662174886
36° 59′ 20″	0.60166014	0.79875220	0.753250050	1.327580397	1.251952730	1.662067902
36° 59′ 30″	0.60169886	0.79872303	0.753326041	1.327446477	1.251998452	1.661960935
36° 59′ 40″	0.60173758	0.79869386	0.753402039	1.327312575	1.252044181	1.661853986
36° 59′ 50″	0.60177630	0.79866469	0.753478042	1.327178690	1.252089917	1.661747055
37° 00′ 00″	0.60181502	0.79863551	0.753554050	1.327044822	1.252135658	1.661640141
37° 00′ 10″	0.60185374	0.79860633	0.753630064	1.326910971	1.252181406	1.661533245
37° 00′ 20″	0.60189246	0.79857715	0.753706084	1.326777137	1.252227160	1.661426367
37° 00′ 30″	0.60193117	0.79854797	0.753782109	1.326643321	1.252272921	1.661319506
37° 00′ 40″	0.60196989	0.79851879	0.753858139	1.326509522	1.252318687	1.661212663
37° 00′ 50″	0.60200860	0.79848960	0.753934176	1.326375740	1.252364460	1.661105838
37° 01′ 00″	0.60204731	0.79846042	0.754010217	1.326241975	1.252410239	1.660999030
37° 01′ 10″	0.60208602	0.79843123	0.754086265	1.326108228	1.252456025	1.660892240
37° 01′ 20″	0.60212473	0.79840204	0.754162318	1.325974497	1.252501817	1.660785467
37° 01′ 30″	0.60216344	0.79837284	0.754238376	1.325840784	1.252547615	1.660678712
37° 01′ 40″	0.60220214	0.79834365	0.754314440	1.325707088	1.252593419	1.660571975
37° 01′ 50″	0.60224085	0.79831445	0.754390510	1.325573410	1.252639230	1.660465255
37° 02′ 00″	0.60227955	0.79828525	0.754466585	1.325439748	1.252685047	1.660358553
37° 02′ 10″	0.60231825	0.79825605	0.754542665	1.325306104	1.252730871	1.660251869
37° 02′ 20″	0.60235695	0.79822685	0.754618752	1.325172476	1.252776700	1.660145202
37° 02′ 30″	0.60239565	0.79819765	0.754694844	1.325038866	1.252822536	1.660038553
37° 02′ 40″	0.60243435	0.79816844	0.754770941	1.324905274	1.252868378	1.659931921
37° 02′ 50″	0.60247304	0.79813923	0.754847044	1.324771698	1.252914227	1.659825307
37° 03′ 00″	0.60251173	0.79811002	0.754923153	1.324638139	1.252960082	1.659718711
37° 03′ 10″	0.60255043	0.79808081	0.754999267	1.324504598	1.253005943	1.659612132
37° 03′ 20″	0.60258912	0.79805160	0.755075386	1.324371074	1.253051810	1.659505571
37° 03′ 30″	0.60262781	0.79802238	0.755151512	1.324237566	1.253097684	1.659399027
37° 03′ 40″	0.60266650	0.79799317	0.755227642	1.324104076	1.253143564	1.659292501
37° 03′ 50″	0.60270518	0.79796395	0.755303779	1.323970604	1.253189450	1.659185993

278 37° 03′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
37° 04′ 00″	0.60274387	0.79793473	0.755379921	1.323837148	1.253235343	1.659079502
37° 04′ 10″	0.60278255	0.79790550	0.755456068	1.323703709	1.253281242	1.658973029
37° 04′ 20″	0.60282124	0.79787628	0.755532222	1.323570288	1.253327147	1.658866573
37° 04′ 30″	0.60285992	0.79784705	0.755608380	1.323436884	1.253373059	1.658760135
37° 04′ 40″	0.60289860	0.79781782	0.755684545	1.323303496	1.253418977	1.658653714
37° 04′ 50″	0.60293728	0.79778859	0.755760714	1.323170126	1.253464901	1.658547311
37° 05′ 00″	0.60297595	0.79775936	0.755836890	1.323036773	1.253510831	1.658440926
37° 05′ 10″	0.60301463	0.79773013	0.755913071	1.322903437	1.253556768	1.658334558
37° 05′ 20″	0.60305330	0.79770089	0.755989258	1.322770119	1.253602711	1.658228207
37° 05′ 30″	0.60309198	0.79767165	0.756065450	1.322636817	1.253648661	1.658121874
37° 05′ 40″	0.60313065	0.79764241	0.756141648	1.322503532	1.253694616	1.658015559
37° 05′ 50″	0.60316932	0.79761317	0.756217851	1.322370265	1.253740579	1.657909261
37° 06′ 00″	0.60320799	0.79758393	0.756294060	1.322237014	1.253786547	1.657802981
37° 06′ 10″	0.60324665	0.79755468	0.756370275	1.322103781	1.253832522	1.657696718
37° 06′ 20″	0.60328532	0.79752544	0.756446495	1.321970565	1.253878503	1.657590472
37° 06′ 30″	0.60332399	0.79749619	0.756522721	1.321837366	1.253924490	1.657484245
37° 06′ 40″	0.60336265	0.79746694	0.756598952	1.321704184	1.253970484	1.657378034
37° 06′ 50″	0.60340131	0.79743768	0.756675189	1.321571019	1.254016484	1.657271842
37° 07′ 00″	0.60343997	0.79740843	0.756751431	1.321437871	1.254062490	1.657165666
37° 07′ 10″	0.60347863	0.79737917	0.756827679	1.321304740	1.254108503	1.657059509
37° 07′ 20″	0.60351729	0.79734991	0.756903933	1.321171626	1.254154522	1.656953368
37° 07′ 30″	0.60355594	0.79732065	0.756980192	1.321038529	1.254200547	1.656847246
37° 07′ 40″	0.60359460	0.79729139	0.757056457	1.320905449	1.254246578	1.656741140
37° 07′ 50″	0.60363325	0.79726213	0.757132728	1.320772387	1.254292616	1.656635053
37° 08′ 00″	0.60367190	0.79723286	0.757209004	1.320639341	1.254338661	1.656528982
37° 08′ 10″	0.60371055	0.79720359	0.757285286	1.320506312	1.254384711	1.656422929
37° 08′ 20″	0.60374920	0.79717432	0.757361573	1.320373301	1.254430768	1.656316894
37° 08′ 30″	0.60378785	0.79714505	0.757437866	1.320240306	1.254476831	1.656210876
37° 08′ 40″	0.60382649	0.79711578	0.757514164	1.320107329	1.254522901	1.656104876
37° 08′ 50″	0.60386514	0.79708650	0.757590469	1.319974368	1.254568977	1.655998893
37° 09′ 00″	0.60390378	0.79705723	0.757666778	1.319841425	1.254615059	1.655892927
37° 09′ 10″	0.60394242	0.79702795	0.757743094	1.319708498	1.254661148	1.655786979
37° 09′ 20″	0.60398106	0.79699867	0.757819415	1.319575589	1.254707243	1.655681048
37° 09′ 30″	0.60401970	0.79696938	0.757895741	1.319442696	1.254753344	1.655575135
37° 09′ 40″	0.60405834	0.79694010	0.757972073	1.319309821	1.254799452	1.655469239
37° 09′ 50″	0.60409698	0.79691081	0.758048411	1.319176962	1.254845566	1.655363361
37° 10′ 00″	0.60413561	0.79688152	0.758124754	1.319044121	1.254891686	1.655257500
37° 10′ 10″	0.60417424	0.79685223	0.758201103	1.318911296	1.254937813	1.655151657
37° 10′ 20″	0.60421288	0.79682294	0.758277458	1.318778489	1.254983945	1.655045831
37° 10′ 30″	0.60425151	0.79679365	0.758353818	1.318645698	1.255030085	1.654940022
37° 10′ 40″	0.60429013	0.79676435	0.758430184	1.318512924	1.255076230	1.654834231
37° 10′ 50″	0.60432876	0.79673505	0.758506556	1.318380168	1.255122382	1.654728457
37° 11′ 00″	0.60436739	0.79670576	0.758582933	1.318247428	1.255168541	1.654622701
37° 11′ 10″	0.60440601	0.79667645	0.758659315	1.318114706	1.255214705	1.654516962
37° 11′ 20″	0.60444464	0.79664715	0.758735704	1.317982000	1.255260876	1.654411240
37° 11′ 30″	0.60448326	0.79661784	0.758812098	1.317849311	1.255307054	1.654305536
37° 11′ 40″	0.60452188	0.79658854	0.758888497	1.317716639	1.255353238	1.654199849
37° 11′ 50″	0.60456050	0.79655923	0.758964902	1.317583984	1.255399428	1.654094180

279 37° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
37° 12′ 00″	0.60459911	0.79652992	0.759041313	1.317451347	1.255445624	1.653988528
37° 12′ 10″	0.60463773	0.79650061	0.759117729	1.317318726	1.255491827	1.653882893
37° 12′ 20″	0.60467635	0.79647129	0.759194152	1.317186122	1.255538036	1.653777276
37° 12′ 30″	0.60471496	0.79644197	0.759270579	1.317053535	1.255584251	1.653671676
37° 12′ 40″	0.60475357	0.79641266	0.759347012	1.316920964	1.255630473	1.653566094
37° 12′ 50″	0.60479218	0.79638334	0.759423451	1.316788411	1.255676701	1.653460529
37° 13′ 00″	0.60483079	0.79635401	0.759499896	1.316655875	1.255722936	1.653354981
37° 13′ 10″	0.60486940	0.79632469	0.759576346	1.316523356	1.255769177	1.653249451
37° 13′ 20″	0.60490800	0.79629536	0.759652802	1.316390853	1.255815424	1.653143938
37° 13′ 30″	0.60494661	0.79626604	0.759729263	1.316258368	1.255861678	1.653038442
37° 13′ 40″	0.60498521	0.79623671	0.759805730	1.316125899	1.255907938	1.652932964
37° 13′ 50″	0.60502381	0.79620738	0.759882203	1.315993447	1.255954204	1.652827503
37° 14′ 00″	0.60506241	0.79617804	0.759958682	1.315861012	1.256000477	1.652722059
37° 14′ 10″	0.60510101	0.79614871	0.760035165	1.315728594	1.256046756	1.652616633
37° 14′ 20″	0.60513961	0.79611937	0.760111655	1.315596193	1.256093041	1.652511224
37° 14′ 30″	0.60517821	0.79609003	0.760188150	1.315463809	1.256139333	1.652405832
37° 14′ 40″	0.60521680	0.79606069	0.760264651	1.315331442	1.256185631	1.652300458
37° 14′ 50″	0.60525540	0.79603135	0.760341158	1.315199092	1.256231936	1.652195101
37° 15′ 00″	0.60529399	0.79600200	0.760417670	1.315066758	1.256278247	1.652089761
37° 15′ 10″	0.60533258	0.79597266	0.760494188	1.314934441	1.256324564	1.651984439
37° 15′ 20″	0.60537117	0.79594331	0.760570711	1.314802142	1.256370887	1.651879134
37° 15′ 30″	0.60540976	0.79591396	0.760647240	1.314669859	1.256417217	1.651773846
37° 15′ 40″	0.60544834	0.79588461	0.760723775	1.314537593	1.256463554	1.651668575
37° 15′ 50″	0.60548693	0.79585525	0.760800315	1.314405344	1.256509896	1.651563322
37° 16′ 00″	0.60552551	0.79582590	0.760876861	1.314273111	1.256556246	1.651458086
37° 16′ 10″	0.60556409	0.79579654	0.760953413	1.314140896	1.256602601	1.651352868
37° 16′ 20″	0.60560267	0.79576718	0.761029971	1.314008697	1.256648963	1.651247666
37° 16′ 30″	0.60564125	0.79573782	0.761106533	1.313876515	1.256695331	1.651142482
37° 16′ 40″	0.60567983	0.79570845	0.761183102	1.313744350	1.256741706	1.651037316
37° 16′ 50″	0.60571841	0.79567909	0.761259676	1.313612202	1.256788087	1.650932166
37° 17′ 00″	0.60575698	0.79564972	0.761336256	1.313480071	1.256834474	1.650827034
37° 17′ 10″	0.60579555	0.79562035	0.761412842	1.313347956	1.256880868	1.650721919
37° 17′ 20″	0.60583413	0.79559098	0.761489433	1.313215859	1.256927268	1.650616822
37° 17′ 30″	0.60587270	0.79556161	0.761566030	1.313083778	1.256973674	1.650511741
37° 17′ 40″	0.60591127	0.79553224	0.761642633	1.312951714	1.257020087	1.650406678
37° 17′ 50″	0.60594983	0.79550286	0.761719241	1.312819667	1.257066507	1.650301632
37° 18′ 00″	0.60598840	0.79547348	0.761795855	1.312687636	1.257112932	1.650196604
37° 18′ 10″	0.60602697	0.79544410	0.761872474	1.312555623	1.257159364	1.650091592
37° 18′ 20″	0.60606553	0.79541472	0.761949099	1.312423626	1.257205803	1.649986598
37° 18′ 30″	0.60610409	0.79538534	0.762025730	1.312291646	1.257252247	1.649881621
37° 18′ 40″	0.60614265	0.79535595	0.762102367	1.312159683	1.257298699	1.649776662
37° 18′ 50″	0.60618121	0.79532656	0.762179009	1.312027737	1.257345156	1.649671719
37° 19′ 00″	0.60621977	0.79529717	0.762255657	1.311895807	1.257391620	1.649566794
37° 19′ 10″	0.60625832	0.79526778	0.762332310	1.311763894	1.257438090	1.649461886
37° 19′ 20″	0.60629688	0.79523839	0.762408970	1.311631998	1.257484567	1.649356995
37° 19′ 30″	0.60633543	0.79520899	0.762485634	1.311500119	1.257531050	1.649252122
37° 19′ 40″	0.60637399	0.79517960	0.762562305	1.311368256	1.257577540	1.649147266
37° 19′ 50″	0.60641254	0.79515020	0.762638981	1.311236410	1.257624036	1.649042426

280 37° 19′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
37° 20′ 00″	0.60645109	0.79512080	0.762715663	1.311104581	1.257670538	1.648937604
37° 20′ 10″	0.60648963	0.79509139	0.762792350	1.310972769	1.257717047	1.648832800
37° 20′ 20″	0.60652818	0.79506199	0.762869044	1.310840974	1.257763562	1.648728012
37° 20′ 30″	0.60656672	0.79503258	0.762945743	1.310709195	1.257810083	1.648623242
37° 20′ 40″	0.60660527	0.79500318	0.763022447	1.310577433	1.257856611	1.648518489
37° 20′ 50″	0.60664381	0.79497377	0.763099157	1.310445688	1.257903146	1.648413753
37° 21′ 00″	0.60668235	0.79494435	0.763175873	1.310313959	1.257949686	1.648309034
37° 21′ 10″	0.60672089	0.79491494	0.763252595	1.310182248	1.257996233	1.648204333
37° 21′ 20″	0.60675943	0.79488552	0.763329322	1.310050553	1.258042787	1.648099648
37° 21′ 30″	0.60679796	0.79485611	0.763406055	1.309918874	1.258089347	1.647994981
37° 21′ 40″	0.60683650	0.79482669	0.763482794	1.309787213	1.258135913	1.647890331
37° 21′ 50″	0.60687503	0.79479727	0.763559538	1.309655568	1.258182486	1.647785698
37° 22′ 00″	0.60691357	0.79476784	0.763636288	1.309523940	1.258229065	1.647681082
37° 22′ 10″	0.60695210	0.79473842	0.763713043	1.309392328	1.258275651	1.647576484
37° 22′ 20″	0.60699063	0.79470899	0.763789805	1.309260733	1.258322242	1.647471902
37° 22′ 30″	0.60702915	0.79467956	0.763866572	1.309129155	1.258368841	1.647367338
37° 22′ 40″	0.60706768	0.79465013	0.763943344	1.308997594	1.258415446	1.647262791
37° 22′ 50″	0.60710620	0.79462070	0.764020123	1.308866050	1.258462057	1.647158261
37° 23′ 00″	0.60714473	0.79459127	0.764096907	1.308734522	1.258508674	1.647053748
37° 23′ 10″	0.60718325	0.79456183	0.764173697	1.308603010	1.258555298	1.646949252
37° 23′ 20″	0.60722177	0.79453239	0.764250492	1.308471516	1.258601929	1.646844773
37° 23′ 30″	0.60726029	0.79450295	0.764327293	1.308340038	1.258648565	1.646740312
37° 23′ 40″	0.60729881	0.79447351	0.764404100	1.308208577	1.258695209	1.646635868
37° 23′ 50″	0.60733732	0.79444407	0.764480913	1.308077132	1.258741858	1.646531440
37° 24′ 00″	0.60737584	0.79441462	0.764557731	1.307945704	1.258788514	1.646427030
37° 24′ 10″	0.60741435	0.79438517	0.764634555	1.307814293	1.258835177	1.646322637
37° 24′ 20″	0.60745287	0.79435572	0.764711385	1.307682899	1.258881846	1.646218261
37° 24′ 30″	0.60749138	0.79432627	0.764788220	1.307551521	1.258928521	1.646113902
37° 24′ 40″	0.60752989	0.79429682	0.764865061	1.307420160	1.258975203	1.646009561
37° 24′ 50″	0.60756839	0.79426737	0.764941908	1.307288815	1.259021891	1.645905236
37° 25′ 00″	0.60760690	0.79423791	0.765018760	1.307157487	1.259068586	1.645800929
37° 25′ 10″	0.60764540	0.79420845	0.765095618	1.307026176	1.259115287	1.645696638
37° 25′ 20″	0.60768391	0.79417899	0.765172482	1.306894881	1.259161994	1.645592365
37° 25′ 30″	0.60772241	0.79414953	0.765249351	1.306763603	1.259208708	1.645488108
37° 25′ 40″	0.60776091	0.79412006	0.765326227	1.306632342	1.259255428	1.645383869
37° 25′ 50″	0.60779941	0.79409060	0.765403108	1.306501097	1.259302155	1.645279647
37° 26′ 00″	0.60783791	0.79406113	0.765479994	1.306369869	1.259348888	1.645175442
37° 26′ 10″	0.60787641	0.79403166	0.765556887	1.306238658	1.259395628	1.645071254
37° 26′ 20″	0.60791490	0.79400219	0.765633785	1.306107463	1.259442374	1.644967083
37° 26′ 30″	0.60795339	0.79397271	0.765710688	1.305976285	1.259489126	1.644862929
37° 26′ 40″	0.60799189	0.79394324	0.765787598	1.305845123	1.259535885	1.644758792
37° 26′ 50″	0.60803038	0.79391376	0.765864513	1.305713978	1.259582650	1.644654673
37° 27′ 00″	0.60806887	0.79388428	0.765941434	1.305582850	1.259629422	1.644550570
37° 27′ 10″	0.60810735	0.79385480	0.766018361	1.305451738	1.259676200	1.644446484
37° 27′ 20″	0.60814584	0.79382532	0.766095293	1.305320643	1.259722985	1.644342416
37° 27′ 30″	0.60818433	0.79379583	0.766172231	1.305189564	1.259769776	1.644238364
37° 27′ 40″	0.60822281	0.79376635	0.766249175	1.305058502	1.259816573	1.644134329
37° 27′ 50″	0.60826129	0.79373686	0.766326124	1.304927456	1.259863377	1.644030312

281 37° 27′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
37° 28′ 00″	0.60829977	0.79370737	0.766403079	1.304796428	1.259910187	1.643926311
37° 28′ 10″	0.60833825	0.79367788	0.766480040	1.304665415	1.259957004	1.643822328
37° 28′ 20″	0.60837673	0.79364838	0.766557007	1.304534420	1.260003827	1.643718361
37° 28′ 30″	0.60841521	0.79361889	0.766633979	1.304403440	1.260050657	1.643614412
37° 28′ 40″	0.60845368	0.79358939	0.766710957	1.304272478	1.260097493	1.643510479
37° 28′ 50″	0.60849215	0.79355989	0.766787941	1.304141532	1.260144336	1.643406564
37° 29′ 00″	0.60853063	0.79353039	0.766864931	1.304010602	1.260191185	1.643302666
37° 29′ 10″	0.60856910	0.79350088	0.766941926	1.303879689	1.260238040	1.643198784
37° 29′ 20″	0.60860757	0.79347138	0.767018927	1.303748793	1.260284902	1.643094920
37° 29′ 30″	0.60864603	0.79344187	0.767095934	1.303617913	1.260331770	1.642991072
37° 29′ 40″	0.60868450	0.79341236	0.767172946	1.303487050	1.260378645	1.642887242
37° 29′ 50″	0.60872297	0.79338285	0.767249964	1.303356203	1.260425526	1.642783428
37° 30′ 00″	0.60876143	0.79335334	0.767326988	1.303225373	1.260472414	1.642679632
37° 30′ 10″	0.60879989	0.79332383	0.767404018	1.303094559	1.260519308	1.642575852
37° 30′ 20″	0.60883835	0.79329431	0.767481053	1.302963762	1.260566209	1.642472090
37° 30′ 30″	0.60887681	0.79326479	0.767558094	1.302832981	1.260613116	1.642368344
37° 30′ 40″	0.60891527	0.79323527	0.767635141	1.302702217	1.260660029	1.642264615
37° 30′ 50″	0.60895373	0.79320575	0.767712193	1.302571470	1.260706949	1.642160904
37° 31′ 00″	0.60899218	0.79317623	0.767789252	1.302440739	1.260753876	1.642057209
37° 31′ 10″	0.60903063	0.79314670	0.767866316	1.302310024	1.260800809	1.641953531
37° 31′ 20″	0.60906909	0.79311717	0.767943385	1.302179326	1.260847748	1.641849870
37° 31′ 30″	0.60910754	0.79308764	0.768020461	1.302048644	1.260894694	1.641746227
37° 31′ 40″	0.60914599	0.79305811	0.768097542	1.301917979	1.260941646	1.641642600
37° 31′ 50″	0.60918443	0.79302858	0.768174629	1.301787331	1.260988605	1.641538990
37° 32′ 00″	0.60922288	0.79299904	0.768251722	1.301656699	1.261035570	1.641435397
37° 32′ 10″	0.60926133	0.79296951	0.768328820	1.301526083	1.261082541	1.641331820
37° 32′ 20″	0.60929977	0.79293997	0.768405925	1.301395484	1.261129519	1.641228261
37° 32′ 30″	0.60933821	0.79291043	0.768483034	1.301264901	1.261176504	1.641124719
37° 32′ 40″	0.60937665	0.79288088	0.768560150	1.301134335	1.261223495	1.641021194
37° 32′ 50″	0.60941509	0.79285134	0.768637272	1.301003785	1.261270493	1.640917685
37° 33′ 00″	0.60945353	0.79282179	0.768714399	1.300873252	1.261317496	1.640814194
37° 33′ 10″	0.60949196	0.79279225	0.768791532	1.300742735	1.261364507	1.640710719
37° 33′ 20″	0.60953040	0.79276270	0.768868670	1.300612235	1.261411524	1.640607261
37° 33′ 30″	0.60956883	0.79273314	0.768945815	1.300481751	1.261458547	1.640503821
37° 33′ 40″	0.60960727	0.79270359	0.769022965	1.300351284	1.261505577	1.640400397
37° 33′ 50″	0.60964570	0.79267403	0.769100121	1.300220833	1.261552613	1.640296990
37° 34′ 00″	0.60968413	0.79264448	0.769177283	1.300090398	1.261599656	1.640193600
37° 34′ 10″	0.60972255	0.79261492	0.769254450	1.299959980	1.261646705	1.640090226
37° 34′ 20″	0.60976098	0.79258536	0.769331623	1.299829579	1.261693761	1.639986870
37° 34′ 30″	0.60979940	0.79255579	0.769408802	1.299699194	1.261740823	1.639883531
37° 34′ 40″	0.60983783	0.79252623	0.769485987	1.299568825	1.261787892	1.639780208
37° 34′ 50″	0.60987625	0.79249666	0.769563178	1.299438473	1.261834967	1.639676902
37° 35′ 00″	0.60991467	0.79246709	0.769640374	1.299308137	1.261882049	1.639573613
37° 35′ 10″	0.60995309	0.79243752	0.769717576	1.299177817	1.261929137	1.639470341
37° 35′ 20″	0.60999151	0.79240795	0.769794784	1.299047514	1.261976232	1.639367086
37° 35′ 30″	0.61002992	0.79237838	0.769871997	1.298917227	1.262023333	1.639263848
37° 35′ 40″	0.61006834	0.79234880	0.769949216	1.298786957	1.262070440	1.639160627
37° 35′ 50″	0.61010675	0.79231922	0.770026442	1.298656703	1.262117554	1.639057422

282 37° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
37° 36′ 00″	0.61014516	0.79228964	0.770103672	1.298526466	1.262164675	1.638954234
37° 36′ 10″	0.61018357	0.79226006	0.770180909	1.298396245	1.262211802	1.638851064
37° 36′ 20″	0.61022198	0.79223048	0.770258151	1.298266040	1.262258935	1.638747910
37° 36′ 30″	0.61026039	0.79220089	0.770335399	1.298135852	1.262306075	1.638644772
37° 36′ 40″	0.61029880	0.79217131	0.770412653	1.298005680	1.262353222	1.638541652
37° 36′ 50″	0.61033720	0.79214172	0.770489913	1.297875525	1.262400375	1.638438549
37° 37′ 00″	0.61037561	0.79211213	0.770567178	1.297745385	1.262447534	1.638335462
37° 37′ 10″	0.61041401	0.79208253	0.770644450	1.297615263	1.262494700	1.638232392
37° 37′ 20″	0.61045241	0.79205294	0.770721727	1.297485156	1.262541873	1.638129339
37° 37′ 30″	0.61049081	0.79202334	0.770799009	1.297355066	1.262589051	1.638026303
37° 37′ 40″	0.61052921	0.79199374	0.770876298	1.297224993	1.262636237	1.637923283
37° 37′ 50″	0.61056760	0.79196414	0.770953592	1.297094935	1.262683429	1.637820281
37° 38′ 00″	0.61060600	0.79193454	0.771030892	1.296964894	1.262730627	1.637717295
37° 38′ 10″	0.61064439	0.79190494	0.771108198	1.296834870	1.262777832	1.637614326
37° 38′ 20″	0.61068278	0.79187533	0.771185510	1.296704862	1.262825044	1.637511373
37° 38′ 30″	0.61072117	0.79184572	0.771262827	1.296574870	1.262872262	1.637408438
37° 38′ 40″	0.61075956	0.79181611	0.771340151	1.296444894	1.262919486	1.637305519
37° 38′ 50″	0.61079795	0.79178650	0.771417480	1.296314935	1.262966717	1.637202618
37° 39′ 00″	0.61083633	0.79175689	0.771494814	1.296184992	1.263013954	1.637099732
37° 39′ 10″	0.61087472	0.79172727	0.771572155	1.296055066	1.263061198	1.636996864
37° 39′ 20″	0.61091310	0.79169766	0.771649501	1.295925155	1.263108449	1.636894013
37° 39′ 30″	0.61095148	0.79166804	0.771726854	1.295795262	1.263155706	1.636791178
37° 39′ 40″	0.61098986	0.79163842	0.771804211	1.295665384	1.263202969	1.636688360
37° 39′ 50″	0.61102824	0.79160880	0.771881575	1.295535523	1.263250239	1.636585559
37° 40′ 00″	0.61106662	0.79157917	0.771958945	1.295405678	1.263297515	1.636482774
37° 40′ 10″	0.61110500	0.79154954	0.772036320	1.295275849	1.263344798	1.636380006
37° 40′ 20″	0.61114337	0.79151992	0.772113701	1.295146037	1.263392088	1.636277255
37° 40′ 30″	0.61118175	0.79149029	0.772191088	1.295016241	1.263439384	1.636174521
37° 40′ 40″	0.61122012	0.79146065	0.772268481	1.294886461	1.263486686	1.636071804
37° 40′ 50″	0.61125849	0.79143102	0.772345879	1.294756698	1.263533995	1.635969103
37° 41′ 00″	0.61129686	0.79140139	0.772423283	1.294626951	1.263581311	1.635866419
37° 41′ 10″	0.61133522	0.79137175	0.772500694	1.294497220	1.263628633	1.635763752
37° 41′ 20″	0.61137359	0.79134211	0.772578109	1.294367505	1.263675961	1.635661101
37° 41′ 30″	0.61141195	0.79131247	0.772655531	1.294237807	1.263723296	1.635558467
37° 41′ 40″	0.61145032	0.79128282	0.772732959	1.294108125	1.263770638	1.635455850
37° 41′ 50″	0.61148868	0.79125318	0.772810392	1.293978459	1.263817986	1.635353250
37° 42′ 00″	0.61152704	0.79122353	0.772887831	1.293848810	1.263865341	1.635250666
37° 42′ 10″	0.61156540	0.79119388	0.772965276	1.293719176	1.263912702	1.635148099
37° 42′ 20″	0.61160376	0.79116423	0.773042727	1.293589559	1.263960069	1.635045549
37° 42′ 30″	0.61164211	0.79113458	0.773120183	1.293459959	1.264007444	1.634943016
37° 42′ 40″	0.61168047	0.79110493	0.773197645	1.293330374	1.264054824	1.634840499
37° 42′ 50″	0.61171882	0.79107527	0.773275113	1.293200806	1.264102211	1.634737999
37° 43′ 00″	0.61175717	0.79104561	0.773352587	1.293071254	1.264149605	1.634635515
37° 43′ 10″	0.61179552	0.79101595	0.773430067	1.292941718	1.264197005	1.634533049
37° 43′ 20″	0.61183387	0.79098629	0.773507553	1.292812199	1.264244412	1.634430599
37° 43′ 30″	0.61187222	0.79095663	0.773585044	1.292682696	1.264291826	1.634328165
37° 43′ 40″ 37° 43′ 50″	0.61191056	0.79092696 0.79089730	0.773662541	1.292553209	1.264339245	1.634225749
=======================================	0.61194891	0./7007/30	0.773740044	1.292423738	1.264386672	1.634123349

283 **37° 43′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
37° 44′ 00″	0.61198725	0.79086763	0.773817553	1.292294283	1.264434105	1.634020965
37° 44′ 10″	0.61202559	0.79083796	0.773895068	1.292164845	1.264481544	1.633918599
37° 44′ 20″	0.61206393	0.79080828	0.773972588	1.292035423	1.264528990	1.633816249
37° 44′ 30″	0.61210227	0.79077861	0.774050114	1.291906017	1.264576443	1.633713915
37° 44′ 40″	0.61214061	0.79074893	0.774127646	1.291776627	1.264623902	1.633611599
37° 44′ 50″	0.61217895	0.79071925	0.774205184	1.291647254	1.264671367	1.633509299
37° 45′ 00″	0.61221728	0.79068957	0.774282728	1.291517897	1.264718839	1.633407015
37° 45′ 10″	0.61225561	0.79065989	0.774360277	1.291388555	1.264766318	1.633304748
37° 45′ 20″	0.61229394	0.79063021	0.774437833	1.291259231	1.264813803	1.633202498
37° 45′ 30″	0.61233227	0.79060052	0.774515394	1.291129922	1.264861295	1.633100265
37° 45′ 40″	0.61237060	0.79057083	0.774592961	1.291000629	1.264908793	1.632998048
37° 45′ 50″	0.61240893	0.79054114	0.774670534	1.290871353	1.264956298	1.632895848
37° 46′ 00″	0.61244726	0.79051145	0.774748112	1.290742093	1.265003809	1.632793664
37° 46′ 10″	0.61248558	0.79048176	0.774825697	1.290612849	1.265051327	1.632691497
37° 46′ 20″	0.61252390	0.79045207	0.774903287	1.290483621	1.265098852	1.632589347
37° 46′ 30″	0.61256223	0.79042237	0.774980883	1.290354409	1.265146383	1.632487213
37° 46′ 40″	0.61260055	0.79039267	0.775058485	1.290225214	1.265193920	1.632385096
37° 46′ 50″	0.61263886	0.79036297	0.775136093	1.290096035	1.265241464	1.632282996
37° 47′ 00″	0.61267718	0.79033327	0.775213707	1.289966872	1.265289015	1.632180912
37° 47′ 10″	0.61271550	0.79030356	0.775291326	1.289837725	1.265336572	1.632078845
37° 47′ 20″	0.61275381	0.79027386	0.775368951	1.289708594	1.265384136	1.631976794
37° 47′ 30″	0.61279212	0.79024415	0.775446583	1.289579479	1.265431706	1.631874760
37° 47′ 40″	0.61283044	0.79021444	0.775524220	1.289450380	1.265479283	1.631772743
37° 47′ 50″	0.61286875	0.79018473	0.775601862	1.289321298	1.265526866	1.631670742
37° 48′ 00″	0.61290705	0.79015501	0.775679511	1.289192232	1.265574456	1.631568758
37° 48′ 10″	0.61294536	0.79012530	0.775757166	1.289063182	1.265622053	1.631466790
37° 48′ 20″	0.61298367	0.79009558	0.775834826	1.288934148	1.265669656	1.631364839
37° 48′ 30″	0.61302197	0.79006586	0.775912492	1.288805130	1.265717265	1.631262904
37° 48′ 40″	0.61306027	0.79003614	0.775990164	1.288676128	1.265764881	1.631160986
37° 48′ 50″	0.61309857	0.79000642	0.776067842	1.288547142	1.265812504	1.631059085
37° 49′ 00″	0.61313687	0.78997669	0.776145526	1.288418173	1.265860133	1.630957200
37° 49′ 10″	0.61317517	0.78994696	0.776223215	1.288289219	1.265907769	1.630855332
37° 49′ 20″	0.61321347	0.78991724	0.776300911	1.288160282	1.265955411	1.630753480
37° 49′ 30″	0.61325177	0.78988751	0.776378612	1.288031361	1.266003060	1.630651645
37° 49′ 40″	0.61329006	0.78985777	0.776456319	1.287902456	1.266050716	1.630549826
37° 49′ 50″	0.61332835	0.78982804	0.776534032	1.287773567	1.266098378	1.630448024
37° 50′ 00″	0.61336664	0.78979830	0.776611751	1.287644694	1.266146047	1.630346239
37° 50′ 10″	0.61340493	0.78976857	0.776689475	1.287515837	1.266193722	1.630244470
37° 50′ 20″	0.61344322	0.78973883	0.776767206	1.287386996	1.266241404	1.630142717
37° 50′ 30″	0.61348151	0.78970908	0.776844942	1.287258172	1.266289092	1.630040981
37° 50′ 40″	0.61351979	0.78967934	0.776922685	1.287129363	1.266336787	1.629939262
37° 50′ 50″	0.61355808	0.78964960	0.777000433	1.287000570	1.266384488	1.629837559
37° 51′ 00″	0.61359636	0.78961985	0.777078187	1.286871794	1.266432196	1.629735873
37° 51′ 10″	0.61363464	0.78959010	0.777155946	1.286743034	1.266479911	1.629634203
37° 51′ 20″	0.61367292	0.78956035	0.777233712	1.286614289	1.266527632	1.629532549
37° 51′ 30″	0.61371120	0.78953060	0.777311483	1.286485561	1.266575360	1.629430913
37° 51′ 40″	0.61374948	0.78950084	0.777389261	1.286356849	1.266623094	1.629329292
37° 51′ 50″	0.61378775	0.78947109	0.777467044	1.286228153	1.266670835	1.629227689

284 37° 51′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
37° 52′ 00″	0.61382603	0.78944133	0.777544833	1.286099473	1.266718583	1.629126101
37° 52′ 10″	0.61386430	0.78941157	0.777622628	1.285970809	1.266766337	1.629024530
37° 52′ 20″	0.61390257	0.78938181	0.777700429	1.285842161	1.266814097	1.628922976
37° 52′ 30″	0.61394084	0.78935204	0.777778236	1.285713529	1.266861865	1.628821438
37° 52′ 40″	0.61397911	0.78932228	0.777856048	1.285584913	1.266909638	1.628719917
37° 52′ 50″	0.61401737	0.78929251	0.777933867	1.285456313	1.266957419	1.628618412
37° 53′ 00″	0.61405564	0.78926274	0.778011691	1.285327729	1.267005206	1.628516924
37° 53′ 10″	0.61409390	0.78923297	0.778089521	1.285199161	1.267052999	1.628415452
37° 53′ 20″	0.61413217	0.78920320	0.778167357	1.285070609	1.267100799	1.628313996
37° 53′ 30″	0.61417043	0.78917342	0.778245199	1.284942074	1.267148606	1.628212557
37° 53′ 40″	0.61420869	0.78914364	0.778323047	1.284813554	1.267196419	1.628111135
37° 53′ 50″	0.61424694	0.78911387	0.778400901	1.284685050	1.267244239	1.628009729
37° 54′ 00″	0.61428520	0.78908408	0.778478760	1.284556562	1.267292066	1.627908339
37° 54′ 10″	0.61432346	0.78905430	0.778556626	1.284428090	1.267339899	1.627806966
37° 54′ 20″	0.61436171	0.78902452	0.778634497	1.284299635	1.267387739	1.627705610
37° 54′ 30″	0.61439996	0.78899473	0.778712374	1.284171195	1.267435585	1.627604269
37° 54′ 40″	0.61443821	0.78896494	0.778790257	1.284042771	1.267483438	1.627502946
37° 54′ 50″	0.61447646	0.78893515	0.778868146	1.283914363	1.267531297	1.627401638
37° 55′ 00″	0.61451471	0.78890536	0.778946041	1.283785971	1.267579163	1.627300347
37° 55′ 10″	0.61455296	0.78887557	0.779023942	1.283657596	1.267627036	1.627199073
37° 55′ 20″	0.61459120	0.78884577	0.779101848	1.283529236	1.267674915	1.627097815
37° 55′ 30″	0.61462944	0.78881598	0.779179761	1.283400892	1.267722801	1.626996573
37° 55′ 40″	0.61466769	0.78878618	0.779257679	1.283272564	1.267770693	1.626895348
37° 55′ 50″	0.61470593	0.78875638	0.779335603	1.283144252	1.267818592	1.626794139
37° 56′ 00″	0.61474417	0.78872657	0.779413534	1.283015956	1.267866498	1.626692947
37° 56′ 10″	0.61478240	0.78869677	0.779491470	1.282887676	1.267914410	1.626591771
37° 56′ 20″	0.61482064	0.78866696	0.779569412	1.282759412	1.267962329	1.626490611
37° 56′ 30″	0.61485888	0.78863716	0.779647359	1.282631164	1.268010254	1.626389468
37° 56′ 40″	0.61489711	0.78860735	0.779725313	1.282502932	1.268058186	1.626288342
37° 56′ 50″	0.61493534	0.78857753	0.779803273	1.282374715	1.268106125	1.626187231
37° 57′ 00″	0.61497357	0.78854772	0.779881238	1.282246515	1.268154070	1.626086137
37° 57′ 10″ 37° 57′ 20″	0.61501180	0.78851790	0.779959210	1.282118331	1.268202022	1.625985060
37° 57′ 20″ 37° 57′ 30″	0.61505003	0.78848809	0.780037187	1.281990162 1.281862010	1.268249980	1.625883999 1.625782954
37° 57′ 30″ 37° 57′ 40″	0.61508825	0.78845827 0.78842845	0.780115170 0.780193159	1.281862010	1.268297946 1.268345917	1.625/82954
37° 57′ 40″ 37° 57′ 50″	0.61512648	0.78839862	0.780193139	1.281/338/3	1.268393895	1.625580913
37° 58′ 00″	0.61516470	0.78836880	0.780271154	1.281605755	1.268393893	1.625380913
37° 58′ 00″ 37° 58′ 10″	0.61520293	0.78833897	0.780349133	1.281477648	1.268489872	1.625378938
37° 58′ 10″ 37° 58′ 20″	0.61527936	0.78830914	0.780427162	1.281349339	1.268537870	1.625277975
37° 58′ 20″ 37° 58′ 30″	0.61527936	0.78827931	0.780583193	1.281221486	1.268585875	1.625277975
37° 58′ 40″	0.61535580	0.78824948	0.780565175	1.281093430	1.268633886	1.625177029
37° 58′ 50″	0.61539401	0.78821964	0.780739248	1.280837363	1.268681904	1.623076077
37° 59′ 00″	0.61543223	0.78818981	0.780817284	1.280709354	1.268729929	1.624973183
37° 59′ 10″	0.61547044	0.78815997	0.780895327	1.280581361	1.268777960	1.624773406
37° 59′ 20″	0.61550865	0.78813013	0.780973375	1.280453383	1.268825998	1.624773406
37° 59′ 30″	0.61554686	0.78810029	0.781051429	1.280325422	1.268874042	1.624571693
37° 59′ 40″	0.61558506	0.78807045	0.781031429	1.280323422	1.268922093	1.624371673
37° 59′ 50″	0.61562327	0.78804060	0.781129469	1.280197476	1.268970151	1.624370045
=======================================	0.01302327	0.70004000	0.761207333	1.20000/340	1,200//0131	1.027370043

285 37° 59′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
38° 00′ 00″	0.61566148	0.78801075	0.781285627	1.279941632	1.269018215	1.624269245
38° 00′ 10″	0.61569968	0.78798090	0.781363704	1.279813734	1.269066286	1.624168462
38° 00′ 20″	0.61573788	0.78795105	0.781441788	1.279685852	1.269114364	1.624067696
38° 00′ 30″	0.61577608	0.78792120	0.781519877	1.279557986	1.269162448	1.623966945
38° 00′ 40″	0.61581428	0.78789135	0.781597973	1.279430135	1.269210539	1.623866211
38° 00′ 50″	0.61585248	0.78786149	0.781676074	1.279302301	1.269258636	1.623765493
38° 01′ 00″	0.61589067	0.78783163	0.781754181	1.279174482	1.269306740	1.623664791
38° 01′ 10″	0.61592887	0.78780177	0.781832295	1.279046679	1.269354851	1.623564106
38° 01′ 20″	0.61596706	0.78777191	0.781910414	1.278918892	1.269402968	1.623463437
38° 01′ 30″	0.61600525	0.78774205	0.781988539	1.278791121	1.269451092	1.623362785
38° 01′ 40″	0.61604344	0.78771218	0.782066670	1.278663365	1.269499223	1.623262148
38° 01′ 50″	0.61608163	0.78768231	0.782144807	1.278535626	1.269547360	1.623161528
38° 02′ 00″	0.61611982	0.78765244	0.782222950	1.278407902	1.269595504	1.623060924
38° 02′ 10″	0.61615800	0.78762257	0.782301098	1.278280194	1.269643654	1.622960337
38° 02′ 20″	0.61619619	0.78759270	0.782379253	1.278152502	1.269691811	1.622859766
38° 02′ 30″	0.61623437	0.78756282	0.782457414	1.278024826	1.269739975	1.622759211
38° 02′ 40″	0.61627255	0.78753295	0.782535580	1.277897166	1.269788145	1.622658672
38° 02′ 50″	0.61631073	0.78750307	0.782613753	1.277769521	1.269836322	1.622558150
38° 03′ 00″	0.61634891	0.78747319	0.782691931	1.277641892	1.269884506	1.622457644
38° 03′ 10″	0.61638709	0.78744331	0.782770115	1.277514279	1.269932697	1.622357154
38° 03′ 20″	0.61642526	0.78741342	0.782848306	1.277386682	1.269980893	1.622256680
38° 03′ 30″	0.61646344	0.78738353	0.782926502	1.277259101	1.270029097	1.622156223
38° 03′ 40″	0.61650161	0.78735365	0.783004704	1.277131535	1.270077307	1.622055782
38° 03′ 50″	0.61653978	0.78732376	0.783082912	1.277003986	1.270125524	1.621955357
38° 04′ 00″	0.61657795	0.78729387	0.783161126	1.276876452	1.270173748	1.621854948
38° 04′ 10″	0.61661612	0.78726397	0.783239346	1.276748934	1.270221978	1.621754556
38° 04′ 20″	0.61665429	0.78723408	0.783317572	1.276621431	1.270270215	1.621654180
38° 04′ 30″	0.61669245	0.78720418	0.783395804	1.276493945	1.270318458	1.621553820
38° 04′ 40″	0.61673062	0.78717428	0.783474042	1.276366474	1.270366708	1.621453476
38° 04′ 50″	0.61676878	0.78714438	0.783552285	1.276239019	1.270414965	1.621353149
38° 05′ 00″	0.61680694	0.78711448	0.783630535	1.276111580	1.270463229	1.621252838
38° 05′ 10″	0.61684510	0.78708457	0.783708791	1.275984156	1.270511499	1.621152543
38° 05′ 20″	0.61688326	0.78705467	0.783787052	1.275856748	1.270559776	1.621052264
38° 05′ 30″	0.61692141	0.78702476	0.783865320	1.275729356	1.270608059	1.620952001
38° 05′ 40″	0.61695957	0.78699485	0.783943593	1.275601980	1.270656349	1.620851755
38° 05′ 50″	0.61699772	0.78696494	0.784021873	1.275474620	1.270704646	1.620751525
38° 06′ 00″	0.61703588	0.78693502	0.784100158	1.275347275	1.270752949	1.620651311
38° 06′ 10″	0.61707403	0.78690511	0.784178449	1.275219946	1.270801259	1.620551113
38° 06′ 20″	0.61711218	0.78687519	0.784256747	1.275092633	1.270849576	1.620450932
38° 06′ 30″	0.61715032	0.78684527	0.784335050	1.274965335	1.270897899	1.620350766
38° 06′ 40″	0.61718847	0.78681535	0.784413359	1.274838054	1.270946229	1.620250617
38° 06′ 50″	0.61722662	0.78678543	0.784491674	1.274710788	1.270994566	1.620150484
38° 07′ 00″	0.61726476	0.78675550	0.784569995	1.274583537	1.271042909	1.620050368
38° 07′ 10″	0.61730290	0.78672557	0.784648322	1.274456303	1.271091259	1.619950267
38° 07′ 20″	0.61734104	0.78669564	0.784726655	1.274329084	1.271139616	1.619850183
38° 07′ 30″	0.61737918	0.78666571	0.784804994	1.274201881	1.271187980	1.619750114
38° 07′ 40″	0.61741732	0.78663578	0.784883339	1.274074693	1.271236350	1.619650062
38° 07′ 50″	0.61745546	0.78660585	0.784961690	1.273947522	1.271284726	1.619550026
	0.017 100 10	2.7 0000000	2.701701070	1,2,3,1/322	.,2, 1201/20	017550020

286 **38° 07′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
38° 08′ 00″	0.61749359	0.78657591	0.785040047	1.273820366	1.271333110	1.619450007
38° 08′ 10″	0.61753172	0.78654597	0.785118410	1.273693226	1.271381500	1.619350003
38° 08′ 20″	0.61756986	0.78651603	0.785196779	1.273566101	1.271429896	1.619250016
38° 08′ 30″	0.61760799	0.78648609	0.785275154	1.273438992	1.271478300	1.619150044
38° 08′ 40″	0.61764612	0.78645615	0.785353534	1.273311899	1.271526710	1.619050089
38° 08′ 50″	0.61768424	0.78642620	0.785431921	1.273184821	1.271575127	1.618950150
38° 09′ 00″	0.61772237	0.78639626	0.785510314	1.273057760	1.271623550	1.618850228
38° 09′ 10″	0.61776050	0.78636631	0.785588712	1.272930714	1.271671980	1.618750321
38° 09′ 20″	0.61779862	0.78633636	0.785667117	1.272803683	1.271720417	1.618650430
38° 09′ 30″	0.61783674	0.78630640	0.785745527	1.272676668	1.271768860	1.618550556
38° 09′ 40″	0.61787486	0.78627645	0.785823944	1.272549669	1.271817310	1.618450698
38° 09′ 50″	0.61791298	0.78624649	0.785902367	1.272422686	1.271865767	1.618350855
38° 10′ 00″	0.61795110	0.78621654	0.785980795	1.272295718	1.271914231	1.618251029
38° 10′ 10″	0.61798921	0.78618658	0.786059230	1.272168766	1.271962701	1.618151219
38° 10′ 20″	0.61802733	0.78615661	0.786137670	1.272041830	1.272011178	1.618051426
38° 10′ 30″	0.61806544	0.78612665	0.786216116	1.271914909	1.272059661	1.617951648
38° 10′ 40″	0.61810355	0.78609668	0.786294569	1.271788004	1.272108151	1.617851886
38° 10′ 50″	0.61814166	0.78606672	0.786373027	1.271661114	1.272156648	1.617752141
38° 11′ 00″	0.61817977	0.78603675	0.786451492	1.271534240	1.272205152	1.617652411
38° 11′ 10″	0.61821788	0.78600678	0.786529962	1.271407382	1.272253662	1.617552698
38° 11′ 20″	0.61825599	0.78597680	0.786608438	1.271280540	1.272302179	1.617453001
38° 11′ 30″	0.61829409	0.78594683	0.786686921	1.271153713	1.272350703	1.617353320
38° 11′ 40″	0.61833219	0.78591685	0.786765409	1.271026901	1.272399233	1.617253655
38° 11′ 50″	0.61837030	0.78588687	0.786843903	1.270900106	1.272447770	1.617154006
38° 12′ 00″	0.61840840	0.78585689	0.786922404	1.270773326	1.272496314	1.617054373
38° 12′ 10″	0.61844649	0.78582691	0.787000910	1.270646561	1.272544865	1.616954756
38° 12′ 20″	0.61848459	0.78579693	0.787079422	1.270519812	1.272593422	1.616855155
38° 12′ 30″	0.61852269	0.78576694	0.787157941	1.270393079	1.272641986	1.616755571
38° 12′ 40″	0.61856078	0.78573695	0.787236465	1.270266362	1.272690556	1.616656002
38° 12′ 50″	0.61859887	0.78570696	0.787314995	1.270139660	1.272739133	1.616556450
38° 13′ 00″	0.61863697	0.78567697	0.787393531	1.270012973	1.272787717	1.616456913
38° 13′ 10″	0.61867506	0.78564698	0.787472074	1.269886303	1.272836308	1.616357393
38° 13′ 20″	0.61871314	0.78561698	0.787550622	1.269759647	1.272884905	1.616257889
38° 13′ 30″	0.61875123	0.78558699	0.787629176	1.269633008	1.272933509	1.616158400
38° 13′ 40″	0.61878932	0.78555699	0.787707736	1.269506384	1.272982120	1.616058928
38° 13′ 50″	0.61882740	0.78552699	0.787786303	1.269379775	1.273030738	1.615959472
38° 14′ 00″	0.61886548	0.78549698	0.787864875	1.269253183	1.273079362	1.615860032
38° 14′ 10″	0.61890356	0.78546698	0.787943453	1.269126605	1.273127993	1.615760607
38° 14′ 20″	0.61894164	0.78543697	0.788022037	1.269000044	1.273176630	1.615661199
38° 14′ 30″	0.61897972	0.78540697	0.788100628	1.268873498	1.273225274	1.615561807
38° 14′ 40″	0.61901780	0.78537696	0.788179224	1.268746967	1.273273925	1.615462431
38° 14′ 50″	0.61905588	0.78534694	0.788257826	1.268620452	1.273322583	1.615363071
38° 15′ 00″	0.61909395	0.78531693	0.788336435	1.268493953	1.273371248	1.615263727
38° 15′ 10″ 38° 15′ 20″	0.61913202	0.78528692	0.788415049	1.268367469	1.273419919	1.615164399
38° 15′ 20″ 38° 15′ 30″	0.61917009 0.61920816	0.78525690 0.78522688	0.788493669 0.788572296	1.268241001 1.268114548	1.273468597 1.273517281	1.615065087
38° 15′ 40″	0.61924623	0.78522688	0.788650928	1.268114348	1.273565972	1.614965791 1.614866511
38° 15′ 50″	0.61928430	0.78519686	0.788729566	1.267988111	1.273614670	1.614767247
36 13 30"	0.01720430	0.70310004	0.700727366	1.40/001009	1,2/30140/0	1.014/0/24/

287 38° 15′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
38° 16′ 00″	0.61932236	0.78513681	0.788808211	1.267735283	1.273663375	1.614667999
38° 16′ 10″	0.61936043	0.78510678	0.788886861	1.267608892	1.273712087	1.614568767
38° 16′ 20″	0.61939849	0.78507676	0.788965517	1.267482517	1.273760805	1.614469551
38° 16′ 30″	0.61943655	0.78504673	0.789044180	1.267356158	1.273809530	1.614370351
38° 16′ 40″	0.61947461	0.78501669	0.789122848	1.267229814	1.273858261	1.614271167
38° 16′ 50″	0.61951267	0.78498666	0.789201523	1.267103485	1.273906999	1.614171999
38° 17′ 00″	0.61955072	0.78495662	0.789280203	1.266977173	1.273955745	1.614072847
38° 17′ 10″	0.61958878	0.78492659	0.789358890	1.266850875	1.274004496	1.613973711
38° 17′ 20″	0.61962683	0.78489655	0.789437582	1.266724593	1.274053255	1.613874591
38° 17′ 30″	0.61966488	0.78486651	0.789516281	1.266598327	1.274102020	1.613775487
38° 17′ 40″	0.61970293	0.78483646	0.789594985	1.266472076	1.274150792	1.613676399
38° 17′ 50″	0.61974098	0.78480642	0.789673696	1.266345841	1.274199571	1.613577326
38° 18′ 00″	0.61977903	0.78477637	0.789752412	1.266219621	1.274248356	1.613478270
38° 18′ 10″	0.61981708	0.78474632	0.789831135	1.266093416	1.274297148	1.613379230
38° 18′ 20″	0.61985512	0.78471627	0.789909864	1.265967227	1.274345947	1.613280205
38° 18′ 30″	0.61989317	0.78468622	0.789988598	1.265841054	1.274394753	1.613181197
38° 18′ 40″	0.61993121	0.78465616	0.790067339	1.265714896	1.274443565	1.613082204
38° 18′ 50″	0.61996925	0.78462611	0.790146086	1.265588754	1.274492384	1.612983228
38° 19′ 00″	0.62000729	0.78459605	0.790224839	1.265462627	1.274541210	1.612884267
38° 19′ 10″	0.62004533	0.78456599	0.790303598	1.265336515	1.274590042	1.612785323
38° 19′ 20″	0.62008336	0.78453593	0.790382362	1.265210419	1.274638882	1.612686394
38° 19′ 30″	0.62012140	0.78450587	0.790461133	1.265084339	1.274687728	1.612587481
38° 19′ 40″	0.62015943	0.78447580	0.790539910	1.264958274	1.274736580	1.612488584
38° 19′ 50″	0.62019746	0.78444573	0.790618693	1.264832224	1.274785440	1.612389703
38° 20′ 00″	0.62023549	0.78441566	0.790697482	1.264706190	1.274834306	1.612290838
38° 20′ 10″	0.62027352	0.78438559	0.790776277	1.264580171	1.274883179	1.612191989
38° 20′ 20″	0.62031155	0.78435552	0.790855078	1.264454168	1.274932059	1.612093156
38° 20′ 30″	0.62034957	0.78432545	0.790933886	1.264328180	1.274980945	1.611994338
38° 20′ 40″	0.62038760	0.78429537	0.791012699	1.264202208	1.275029839	1.611895537
38° 20′ 50″	0.62042562	0.78426529	0.791091518	1.264076251	1.275078739	1.611796751
38° 21′ 00″	0.62046364	0.78423521	0.791170343	1.263950309	1.275127645	1.611697982
38° 21′ 10″	0.62050166	0.78420513	0.791249175	1.263824383	1.275176559	1.611599228
38° 21′ 20″	0.62053968	0.78417505	0.791328012	1.263698473	1.275225479	1.611500490
38° 21′ 30″	0.62057770	0.78414496	0.791406855	1.263572577	1.275274406	1.611401768
38° 21′ 40″	0.62061571	0.78411487	0.791485705	1.263446698	1.275323340	1.611303062
38° 21′ 50″	0.62065373	0.78408478	0.791564560	1.263320833	1.275372280	1.611204372
38° 22′ 00″	0.62069174	0.78405469	0.791643422	1.263194984	1.275421227	1.611105697
38° 22′ 10″	0.62072975	0.78402460	0.791722290	1.263069151	1.275470181	1.611007039
38° 22′ 20″	0.62076776	0.78399451	0.791801163	1.262943333	1.275519142	1.610908396
38° 22′ 30″	0.62080577	0.78396441	0.791880043	1.262817530	1.275568110	1.610809770
38° 22′ 40″	0.62084378	0.78393431	0.791958929	1.262691743	1.275617084	1.610711159
38° 22′ 50″	0.62088178	0.78390421	0.792037821	1.262565971	1.275666065	1.610612564
38° 23′ 00″ 38° 23′ 10″	0.62091979	0.78387411	0.792116719	1.262440214	1.275715053	1.610513985
38° 23′ 10″ 38° 23′ 20″	0.62095779	0.78384400	0.792195623	1.262314473	1.275764047	1.610415421
38° 23′ 30″	0.62099579	0.78381390 0.78378379	0.792274533 0.792353449	1.262188747 1.262063037	1.275813049 1.275862057	1.610316874
38° 23′ 40″	0.62103379	0.78375368	0.792333449	1.262063037	1.275911072	1.610218342 1.610119826
38° 23′ 50″	0.62107179	0.78373368	0.792432371	1.261937342	1.275960093	1.610119826
	0.02110777	0.70372337	0.772311277	1.201011003	1.2/3/000/3	1.010021327

288 **38° 23′ 50″**

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
38° 24′ 00″	0.62114778	0.78369346	0.792590233	1.261685998	1.276009121	1.609922842
38° 24′ 10″	0.62118577	0.78366334	0.792669174	1.261560350	1.276058157	1.609824374
38° 24′ 20″	0.62122377	0.78363323	0.792748120	1.261434716	1.276107199	1.609725922
38° 24′ 30″	0.62126176	0.78360311	0.792827073	1.261309098	1.276156247	1.609627485
38° 24′ 40″	0.62129975	0.78357299	0.792906031	1.261183495	1.276205303	1.609529064
38° 24′ 50″	0.62133773	0.78354286	0.792984996	1.261057908	1.276254365	1.609430659
38° 25′ 00″	0.62137572	0.78351274	0.793063967	1.260932336	1.276303434	1.609332270
38° 25′ 10″	0.62141371	0.78348261	0.793142943	1.260806779	1.276352510	1.609233897
38° 25′ 20″	0.62145169	0.78345249	0.793221926	1.260681238	1.276401592	1.609135539
38° 25′ 30″	0.62148967	0.78342236	0.793300915	1.260555712	1.276450681	1.609037198
38° 25′ 40″	0.62152765	0.78339222	0.793379910	1.260430201	1.276499777	1.608938872
38° 25′ 50″	0.62156563	0.78336209	0.793458911	1.260304706	1.276548880	1.608840561
38° 26′ 00″	0.62160361	0.78333196	0.793537918	1.260179226	1.276597990	1.608742267
38° 26′ 10″	0.62164159	0.78330182	0.793616932	1.260053762	1.276647106	1.608643989
38° 26′ 20″	0.62167956	0.78327168	0.793695951	1.259928312	1.276696230	1.608545726
38° 26′ 30″	0.62171753	0.78324154	0.793774976	1.259802878	1.276745360	1.608447479
38° 26′ 40″	0.62175551	0.78321140	0.793854008	1.259677460	1.276794496	1.608349248
38° 26′ 50″	0.62179348	0.78318125	0.793933045	1.259552056	1.276843640	1.608251032
38° 27′ 00″	0.62183145	0.78315111	0.794012089	1.259426668	1.276892790	1.608152833
38° 27′ 10″	0.62186941	0.78312096	0.794091139	1.259301296	1.276941947	1.608054649
38° 27′ 20″	0.62190738	0.78309081	0.794170195	1.259175938	1.276991111	1.607956481
38° 27′ 30″	0.62194534	0.78306066	0.794249257	1.259050596	1.277040282	1.607858328
38° 27′ 40″	0.62198331	0.78303050	0.794328325	1.258925269	1.277089459	1.607760192
38° 27′ 50″	0.62202127	0.78300035	0.794407399	1.258799958	1.277138644	1.607662071
38° 28′ 00″	0.62205923	0.78297019	0.794486479	1.258674662	1.277187835	1.607563966
38° 28′ 10″	0.62209719	0.78294003	0.794565565	1.258549381	1.277237033	1.607465876
38° 28′ 20″	0.62213514	0.78290987	0.794644658	1.258424115	1.277286237	1.607367803
38° 28′ 30″	0.62217310	0.78287971	0.794723756	1.258298865	1.277335449	1.607269745
38° 28′ 40″	0.62221105	0.78284954	0.794802861	1.258173630	1.277384667	1.607171703
38° 28′ 50″	0.62224901	0.78281937	0.794881971	1.258048410	1.277433892	1.607073676
38° 29′ 00″	0.62228696	0.78278921	0.794961088	1.257923205	1.277483124	1.606975666
38° 29′ 10″	0.62232491	0.78275904	0.795040211	1.257798016	1.277532362	1.606877671
38° 29′ 20″	0.62236286	0.78272886	0.795119340	1.257672842	1.277581608	1.606779692
38° 29′ 30″	0.62240080	0.78269869	0.795198475	1.257547683	1.277630860	1.606681728
38° 29′ 40″	0.62243875	0.78266851	0.795277616	1.257422540	1.277680119	1.606583781
38° 29′ 50″	0.62247669	0.78263834	0.795356763	1.257297412	1.277729385	1.606485849
38° 30′ 00″	0.62251464	0.78260816	0.795435917	1.257172299	1.277778657	1.606387932
38° 30′ 10″	0.62255258	0.78257798	0.795515076	1.257047201	1.277827937	1.606290032
38° 30′ 20″	0.62259052	0.78254779	0.795594242	1.256922119	1.277877223	1.606192147
38° 30′ 30″	0.62262846	0.78251761	0.795673413	1.256797052	1.277926516	1.606094278
38° 30′ 40″	0.62266639	0.78248742	0.795752591	1.256672000	1.277975816	1.605996424
38° 30′ 50″	0.62270433	0.78245723	0.795831775	1.256546963	1.278025123	1.605898586
38° 31′ 00″	0.62274226	0.78242704	0.795910965	1.256421941	1.278074436	1.605800764
38° 31′ 10″	0.62278019	0.78239685	0.795990161	1.256296935	1.278123756	1.605702958
38° 31′ 20″	0.62281813	0.78236666	0.796069363	1.256171944	1.278173084	1.605605167
38° 31′ 30″	0.62285605	0.78233646	0.796148572	1.256046968	1.278222417	1.605507392
38° 31′ 40″	0.62289398	0.78230626	0.796227786	1.255922008	1.278271758	1.605409633
38° 31′ 50″	0.62293191	0.78227606	0.796307007	1.255797062	1.278321106	1.605311889

289 **38° 31′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
38° 32′ 00″	0.62296983	0.78224586	0.796386234	1.255672132	1.278370460	1.605214161
38° 32′ 10″	0.62300776	0.78221566	0.796465466	1.255547217	1.278419821	1.605116449
38° 32′ 20″	0.62304568	0.78218545	0.796544705	1.255422318	1.278469189	1.605018752
38° 32′ 30″	0.62308360	0.78215524	0.796623950	1.255297433	1.278518564	1.604921071
38° 32′ 40″	0.62312152	0.78212504	0.796703202	1.255172564	1.278567946	1.604823406
38° 32′ 50″	0.62315944	0.78209482	0.796782459	1.255047710	1.278617334	1.604725756
38° 33′ 00″	0.62319735	0.78206461	0.796861722	1.254922871	1.278666729	1.604628122
38° 33′ 10″	0.62323527	0.78203440	0.796940992	1.254798047	1.278716131	1.604530504
38° 33′ 20″	0.62327318	0.78200418	0.797020267	1.254673238	1.278765540	1.604432901
38° 33′ 30″	0.62331109	0.78197396	0.797099549	1.254548445	1.278814956	1.604335314
38° 33′ 40″	0.62334900	0.78194374	0.797178837	1.254423667	1.278864378	1.604237743
38° 33′ 50″	0.62338691	0.78191352	0.797258131	1.254298904	1.278913808	1.604140187
38° 34′ 00″	0.62342482	0.78188330	0.797337431	1.254174156	1.278963244	1.604042647
38° 34′ 10″	0.62346273	0.78185307	0.797416738	1.254049423	1.279012687	1.603945122
38° 34′ 20″	0.62350063	0.78182285	0.797496050	1.253924706	1.279062137	1.603847614
38° 34′ 30″	0.62353853	0.78179262	0.797575369	1.253800003	1.279111594	1.603750120
38° 34′ 40″	0.62357644	0.78176239	0.797654694	1.253675316	1.279161057	1.603652643
38° 34′ 50″	0.62361434	0.78173215	0.797734024	1.253550644	1.279210527	1.603555181
38° 35′ 00″	0.62365224	0.78170192	0.797813361	1.253425987	1.279260005	1.603457734
38° 35′ 10″	0.62369013	0.78167168	0.797892704	1.253301345	1.279309489	1.603360303
38° 35′ 20″	0.62372803	0.78164144	0.797972054	1.253176719	1.279358980	1.603262888
38° 35′ 30″	0.62376592	0.78161120	0.798051409	1.253052107	1.279408477	1.603165489
38° 35′ 40″	0.62380382	0.78158096	0.798130771	1.252927511	1.279457982	1.603068105
38° 35′ 50″	0.62384171	0.78155072	0.798210138	1.252802930	1.279507493	1.602970736
38° 36′ 00″	0.62387960	0.78152047	0.798289512	1.252678364	1.279557011	1.602873383
38° 36′ 10″	0.62391749	0.78149022	0.798368892	1.252553813	1.279606536	1.602776046
38° 36′ 20″	0.62395537	0.78145998	0.798448278	1.252429277	1.279656068	1.602678725
38° 36′ 30″	0.62399326	0.78142972	0.798527671	1.252304756	1.279705607	1.602581419
38° 36′ 40″	0.62403114	0.78139947	0.798607069	1.252180251	1.279755153	1.602484128
38° 36′ 50″	0.62406902	0.78136922	0.798686474	1.252055760	1.279804705	1.602386853
38° 37′ 00″	0.62410691	0.78133896	0.798765884	1.251931285	1.279854264	1.602289594
38° 37′ 10″	0.62414479	0.78130870	0.798845301	1.251806825	1.279903830	1.602192350
38° 37′ 20″	0.62418266	0.78127844	0.798924724	1.251682380	1.279953403	1.602095122
38° 37′ 30″	0.62422054	0.78124818	0.799004153	1.251557950	1.280002983	1.601997909
38° 37′ 40″	0.62425842	0.78121792	0.799083589	1.251433535	1.280052570	1.601900712
38° 37′ 50″	0.62429629	0.78118765	0.799163030	1.251309135	1.280102163	1.601803531
38° 38′ 00″	0.62433416	0.78115738	0.799242478	1.251184750	1.280151764	1.601706365
38° 38′ 10″	0.62437203	0.78112711	0.799321932	1.251060381	1.280201371	1.601609215
38° 38′ 20″	0.62440990	0.78109684	0.799401391	1.250936026	1.280250985	1.601512080
38° 38′ 30″ 38° 38′ 40″	0.62444777	0.78106657	0.799480858	1.250811687	1.280300606	1.601414961
	0.62448564	0.78103629	0.799560330	1.250687362	1.280350234	1.601317857
38° 38′ 50″	0.62452350	0.78100602	0.799639808	1.250563053	1.280399868	1.601220769
38° 39′ 00″	0.62456136	0.78097574	0.799719293	1.250438759	1.280449510	1.601123696
38° 39′ 10″ 38° 39′ 20″	0.62459923	0.78094546	0.799798784	1.250314480	1.280499158	1.601026639
38° 39′ 20″ 38° 39′ 30″	0.62463709 0.62467495	0.78091517	0.799878281 0.799957784	1.250190216	1.280548813	1.600929597
38° 39′ 40″	0.62467495	0.78088489	0.799957784	1.250065967 1.249941733	1.280598476	1.600832571
38° 39′ 40″ 38° 39′ 50″	0.62471280	0.78085460 0.78082432	0.800037293	1.249941733	1.280648144 1.280697820	1.600735561 1.600638566
<u> </u>	0.024/3000	0.70002432	0.000110000	1,4701/314	1.20007/020	1.000030300

290 **38° 39′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	csc(x)
38° 40′ 00″	0.62478851	0.78079403	0.800196330	1.249693310	1.280747503	1.600541586
38° 40′ 10″	0.62482637	0.78076374	0.800275858	1.249569121	1.280797193	1.600444622
38° 40′ 20″	0.62486422	0.78073344	0.800355392	1.249444947	1.280846889	1.600347674
38° 40′ 30″	0.62490207	0.78070315	0.800434932	1.249320789	1.280896592	1.600250741
38° 40′ 40″	0.62493992	0.78067285	0.800514478	1.249196645	1.280946302	1.600153823
38° 40′ 50″	0.62497777	0.78064255	0.800594030	1.249072516	1.280996019	1.600056921
38° 41′ 00″	0.62501561	0.78061225	0.800673589	1.248948403	1.281045743	1.599960035
38° 41′ 10″	0.62505346	0.78058195	0.800753154	1.248824304	1.281095474	1.599863164
38° 41′ 20″	0.62509130	0.78055164	0.800832725	1.248700220	1.281145212	1.599766308
38° 41′ 30″	0.62512914	0.78052134	0.800912302	1.248576152	1.281194956	1.599669468
38° 41′ 40″	0.62516698	0.78049103	0.800991885	1.248452098	1.281244707	1.599572644
38° 41′ 50″	0.62520482	0.78046072	0.801071475	1.248328060	1.281294466	1.599475834
38° 42′ 00″	0.62524266	0.78043041	0.801151071	1.248204036	1.281344231	1.599379041
38° 42′ 10″	0.62528049	0.78040009	0.801230672	1.248080028	1.281394003	1.599282263
38° 42′ 20″	0.62531833	0.78036978	0.801310281	1.247956034	1.281443782	1.599185500
38° 42′ 30″	0.62535616	0.78033946	0.801389895	1.247832056	1.281493567	1.599088753
38° 42′ 40″	0.62539399	0.78030914	0.801469515	1.247708092	1.281543360	1.598992021
38° 42′ 50″	0.62543182	0.78027882	0.801549142	1.247584144	1.281593160	1.598895305
38° 43′ 00″	0.62546965	0.78024850	0.801628775	1.247460210	1.281642966	1.598798604
38° 43′ 10″	0.62550747	0.78021817	0.801708414	1.247336292	1.281692779	1.598701919
38° 43′ 20″	0.62554530	0.78018785	0.801788059	1.247212388	1.281742600	1.598605249
38° 43′ 30″	0.62558312	0.78015752	0.801867710	1.247088500	1.281792427	1.598508595
38° 43′ 40″	0.62562095	0.78012719	0.801947368	1.246964626	1.281842261	1.598411956
38° 43′ 50″	0.62565877	0.78009686	0.802027032	1.246840768	1.281892101	1.598315332
38° 44′ 00″	0.62569659	0.78006652	0.802106702	1.246716924	1.281941949	1.598218724
38° 44′ 10″	0.62573440	0.78003619	0.802186378	1.246593096	1.281991804	1.598122131
38° 44′ 20″	0.62577222	0.78000585	0.802266060	1.246469282	1.282041665	1.598025554
38° 44′ 30″	0.62581004	0.77997551	0.802345749	1.246345483	1.282091534	1.597928992
38° 44′ 40″	0.62584785	0.77994517	0.802425444	1.246221700	1.282141409	1.597832446
38° 44′ 50″	0.62588566	0.77991483	0.802505144	1.246097931	1.282191291	1.597735915
38° 45′ 00″	0.62592347	0.77988448	0.802584852	1.245974177	1.282241180	1.597639399
38° 45′ 10″	0.62596128	0.77985414	0.802664565	1.245850438	1.282291076	1.597542899
38° 45′ 20″	0.62599909	0.77982379	0.802744285	1.245726714	1.282340979	1.597446414
38° 45′ 30″	0.62603690	0.77979344	0.802824010	1.245603005	1.282390889	1.597349945
38° 45′ 40″	0.62607470	0.77976309	0.802903742	1.245479311	1.282440805	1.597253491
38° 45′ 50″	0.62611250	0.77973273	0.802983481	1.245355632	1.282490729	1.597157052
38° 46′ 00″	0.62615030	0.77970238	0.803063225	1.245231968	1.282540660	1.597060629
38° 46′ 10″	0.62618811	0.77967202	0.803142976	1.245108319	1.282590597	1.596964222
38° 46′ 20″ 38° 46′ 30″	0.62622590	0.77964166	0.803222732	1.244984684	1.282640541 1.282690492	1.596867829
38° 46′ 40″	0.62626370	0.77961130 0.77958094	0.803302496	1.244861065		1.596771452
38° 46′ 40″ 38° 46′ 50″	0.62633729	0.77958094	0.803382265 0.803462040	1.244737460	1.282740450 1.282790415	1.596675091
38° 47′ 00″	0.62633729	0.77952020	0.803462040	1.244613871 1.244490296	1.282790413	1.596578745 1.596482414
38° 47′ 10″	0.62637708	0.77932020	0.803621610	1.244366737	1.282890366	1.596386098
38° 47′ 20″	0.62645267	0.77945946	0.803701404	1.244243192	1.282940352	1.596289798
38° 47′ 30″	0.62649045	0.77943946	0.803701404	1.244243192	1.282990345	1.596193514
38° 47′ 40″	0.62652824	0.77939872	0.803761204	1.243996147	1.283040344	1.596097244
38° 47′ 50″	0.62656603	0.77737872	0.803940824	1.243872647	1.283090351	1.596000990
	0.02030003	0.77730034	0.003/40024	1,4730/404/	1,4030/0331	1.3/0000//0

291 38° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
38° 48′ 00″	0.62660381	0.77933796	0.804020643	1.243749161	1.283140364	1.595904752
38° 48′ 10″	0.62664159	0.77930759	0.804100468	1.243625691	1.283190384	1.595808528
38° 48′ 20″	0.62667938	0.77927720	0.804180299	1.243502236	1.283240412	1.595712321
38° 48′ 30″	0.62671715	0.77924682	0.804260137	1.243378795	1.283290446	1.595616128
38° 48′ 40″	0.62675493	0.77724662	0.804339981	1.243255369	1.283340487	1.595519951
38° 48′ 50″	0.62679271	0.77721644	0.804419831	1.243131959	1.283390535	1.595423789
38° 49′ 00″	0.62683049	0.77715566	0.804499687	1.243008563	1.283440590	1.595327642
38° 49′ 10″	0.62686826	0.77912527	0.804579550	1.242885182	1.283490651	1.595231511
38° 49′ 20″	0.62690603	0.77909488	0.804659419	1.242761815	1.283540720	1.595135395
38° 49′ 30″	0.62694380	0.77906448	0.804739294	1.242638464	1.283590796	1.595039295
38° 49′ 40″	0.62698157	0.77903409	0.804819175	1.242515128	1.283640878	1.594943210
38° 49′ 50″	0.62701934	0.77900369	0.804899063	1.242391806	1.283690968	1.594847140
38° 50′ 00″	0.62705711	0.77897329	0.804978956	1.242268499	1.283741064	1.594751085
38° 50′ 10″	0.62709487	0.77894289	0.805058856	1.242145207	1.283791168	1.594655046
38° 50′ 20″	0.62713263	0.77891248	0.805138762	1.242021930	1.283841278	1.594559022
38° 50′ 30″	0.62717040	0.77888208	0.805218675	1.241898668	1.283891395	1.594463014
38° 50′ 40″	0.62720816	0.77885167	0.805298594	1.241775421	1.283941519	1.594367020
38° 50′ 50″	0.62724592	0.77882126	0.805378519	1.241652188	1.283991650	1.594271042
38° 51′ 00″	0.62728367	0.77879085	0.805458450	1.241528971	1.284041788	1.594175080
38° 51′ 10″	0.62732143	0.77876044	0.805538387	1.241405768	1.284091933	1.594079132
38° 51′ 20″	0.62735918	0.77873003	0.805618331	1.241282580	1.284142085	1.593983200
38° 51′ 30″	0.62739694	0.77869961	0.805698281	1.241159407	1.284192244	1.593887283
38° 51′ 40″	0.62743469	0.77866919	0.805778237	1.241036248	1.284242410	1.593791382
38° 51′ 50″	0.62747244	0.77863877	0.805858199	1.240913105	1.284292582	1.593695496
38° 52′ 00″	0.62751019	0.77860835	0.805938168	1.240789976	1.284342762	1.593599625
38° 52′ 10″	0.62754794	0.77857793	0.806018143	1.240666862	1.284392949	1.593503769
38° 52′ 20″	0.62758568	0.77854750	0.806098124	1.240543763	1.284443142	1.593407929
38° 52′ 30″	0.62762343	0.77851708	0.806178111	1.240420679	1.284493343	1.593312104
38° 52′ 40″	0.62766117	0.77848665	0.806258105	1.240297609	1.284543550	1.593216294
38° 52′ 50″	0.62769891	0.77845622	0.806338105	1.240174554	1.284593764	1.593120499
38° 53′ 00″	0.62773665	0.77842578	0.806418111	1.240051514	1.284643986	1.593024720
38° 53′ 10″	0.62777439	0.77839535	0.806498124	1.239928489	1.284694214	1.592928956
38° 53′ 20″	0.62781212	0.77836491	0.806578142	1.239805479	1.284744449	1.592833207
38° 53′ 30″	0.62784986	0.77833447	0.806658167	1.239682483	1.284794691	1.592737474
38° 53′ 40″	0.62788759	0.77830403	0.806738198	1.239559503	1.284844940	1.592641755
38° 53′ 50″	0.62792533	0.77827359	0.806818236	1.239436537	1.284895196	1.592546052
38° 54′ 00″	0.62796306	0.77824315	0.806898280	1.239313585	1.284945459	1.592450364
38° 54′ 10″	0.62800079	0.77821270	0.806978330	1.239190649	1.284995729	1.592354692
38° 54′ 20″	0.62803852	0.77818226	0.807058386	1.239067727	1.285046006	1.592259035
38° 54′ 30″	0.62807624	0.77815181	0.807138448	1.238944821	1.285096290	1.592163392
38° 54′ 40″	0.62811397	0.77812136	0.807218517	1.238821928	1.285146581	1.592067766
38° 54′ 50″	0.62815169	0.77809090	0.807298592	1.238699051	1.285196879	1.591972154
38° 55′ 00″	0.62818941	0.77806045	0.807378673	1.238576188	1.285247183	1.591876558
38° 55′ 10″	0.62822713	0.77802999	0.807458761	1.238453341	1.285297495	1.591780976
38° 55′ 20″	0.62826485	0.77799953	0.807538855	1.238330507	1.285347814	1.591685410
38° 55′ 30″	0.62830257	0.77796907	0.807618955	1.238207689	1.285398139	1.591589860
38° 55′ 40″	0.62834029	0.77793861	0.807699061	1.238084886	1.285448472	1.591494324
38° 55′ 50″	0.62837800	0.77790815	0.807779174	1.237962097	1.285498811	1.591398804

292 38° 55′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
38° 56′ 00″	0.62841571	0.77787768	0.807859293	1.237839323	1.285549158	1.591303299
38° 56′ 10″	0.62845343	0.77784722	0.807939418	1.237716563	1.285599511	1.591207809
38° 56′ 20″	0.62849114	0.77781675	0.808019550	1.237593818	1.285649872	1.591112334
38° 56′ 30″	0.62852885	0.77778628	0.808099688	1.237471089	1.285700239	1.591016875
38° 56′ 40″	0.62856655	0.77775580	0.808179832	1.237348373	1.285750614	1.590921430
38° 56′ 50″	0.62860426	0.77772533	0.808259982	1.237225673	1.285800995	1.590826001
38° 57′ 00″	0.62864196	0.77769485	0.808340139	1.237102987	1.285851383	1.590730587
38° 57′ 10″	0.62867967	0.77766437	0.808420301	1.236980316	1.285901778	1.590635188
38° 57′ 20″	0.62871737	0.77763389	0.808500471	1.236857660	1.285952181	1.590539805
38° 57′ 30″	0.62875507	0.77760341	0.808580646	1.236735018	1.286002590	1.590444436
38° 57′ 40″	0.62879277	0.77757293	0.808660828	1.236612391	1.286053006	1.590349083
38° 57′ 50″	0.62883046	0.77754244	0.808741016	1.236489779	1.286103429	1.590253745
38° 58′ 00″	0.62886816	0.77751195	0.808821210	1.236367181	1.286153859	1.590158422
38° 58′ 10″	0.62890585	0.77748146	0.808901411	1.236244599	1.286204297	1.590063114
38° 58′ 20″	0.62894355	0.77745097	0.808981618	1.236122030	1.286254741	1.589967822
38° 58′ 30″	0.62898124	0.77742048	0.809061831	1.235999477	1.286305192	1.589872544
38° 58′ 40″	0.62901893	0.77738999	0.809142051	1.235876938	1.286355650	1.589777282
38° 58′ 50″	0.62905662	0.77735949	0.809222276	1.235754414	1.286406115	1.589682035
38° 59′ 00″	0.62909430	0.77732899	0.809302508	1.235631905	1.286456587	1.589586803
38° 59′ 10″	0.62913199	0.77729849	0.809382747	1.235509410	1.286507066	1.589491586
38° 59′ 20″	0.62916967	0.77726799	0.809462991	1.235386930	1.286557552	1.589396384
38° 59′ 30″	0.62920735	0.77723748	0.809543242	1.235264465	1.286608045	1.589301198
38° 59′ 40″	0.62924503	0.77720698	0.809623500	1.235142014	1.286658545	1.589206026
38° 59′ 50″	0.62928271	0.77717647	0.809703763	1.235019578	1.286709052	1.589110870
39° 00′ 00″	0.62932039	0.77714596	0.809784033	1.234897157	1.286759566	1.589015729
39° 00′ 10″	0.62935807	0.77711545	0.809864309	1.234774750	1.286810087	1.588920603
39° 00′ 20″	0.62939574	0.77708494	0.809944592	1.234652358	1.286860615	1.588825492
39° 00′ 30″	0.62943342	0.77705442	0.810024881	1.234529980	1.286911150	1.588730396
39° 00′ 40″	0.62947109	0.77702391	0.810105176	1.234407618	1.286961692	1.588635316
39° 00′ 50″	0.62950876	0.77699339	0.810185477	1.234285269	1.287012241	1.588540250
39° 01′ 00″	0.62954643	0.77696287	0.810265785	1.234162936	1.287062797	1.588445200
39° 01′ 10″	0.62958409	0.77693234	0.810346099	1.234040617	1.287113359	1.588350164
39° 01′ 20″	0.62962176	0.77690182	0.810426419	1.233918313	1.287163929	1.588255144
39° 01′ 30″	0.62965943	0.77687129	0.810506746	1.233796023	1.287214506	1.588160139
39° 01′ 40″	0.62969709	0.77684077	0.810587079	1.233673748	1.287265090	1.588065149
39° 01′ 50″	0.62973475	0.77681024	0.810667418	1.233551488	1.287315681	1.587970174
39° 02′ 00″	0.62977241	0.77677971	0.810747764	1.233429242	1.287366279	1.587875214
39° 02′ 10″	0.62981007	0.77674917	0.810828116	1.233307011	1.287416884	1.587780269
39° 02′ 20″	0.62984773	0.77671864	0.810908474	1.233184795	1.287467496	1.587685340
39° 02′ 30″	0.62988538	0.77668810	0.810988838	1.233062593	1.287518115	1.587590425
39° 02′ 40″	0.62992304	0.77665756	0.811069209	1.232940406	1.287568741	1.587495526
39° 02′ 50″	0.62996069	0.77662702	0.811149586	1.232818233	1.287619374	1.587400641
39° 03′ 00″	0.62999834	0.77659648	0.811229970	1.232696075	1.287670014	1.587305772
39° 03′ 10″	0.63003599	0.77656594	0.811310360	1.232573932	1.287720661	1.587210918
39° 03′ 20″	0.63007364	0.77653539	0.811390756	1.232451803	1.287771315	1.587116078
39° 03′ 30″	0.63011128	0.77650484	0.811471158	1.232329689	1.287821976	1.587021254
39° 03′ 40″	0.63014893	0.77647429	0.811551567	1.232207589	1.287872644	1.586926445
39° 03′ 50″	0.63018657	0.77644374	0.811631982	1.232085504	1.287923319	1.586831651

293 **39° 03′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
39° 04′ 00″	0.63022422	0.77641319	0.811712404	1.231963433	1.287974001	1.586736872
39° 04′ 10″	0.63026186	0.77638263	0.811792832	1.231841378	1.288024690	1.586642108
39° 04′ 20″	0.63029950	0.77635208	0.811873266	1.231719336	1.288075386	1.586547359
39° 04′ 30″	0.63033713	0.77632152	0.811953706	1.231597309	1.288126089	1.586452625
39° 04′ 40″	0.63037477	0.77629096	0.812034153	1.231475297	1.288176799	1.586357907
39° 04′ 50″	0.63041240	0.77626039	0.812114606	1.231353300	1.288227516	1.586263203
39° 05′ 00″	0.63045004	0.77622983	0.812195066	1.231231317	1.288278240	1.586168514
39° 05′ 10″	0.63048767	0.77619926	0.812275531	1.231109348	1.288328972	1.586073840
39° 05′ 20″	0.63052530	0.77616870	0.812356004	1.230987394	1.288379710	1.585979182
39° 05′ 30″	0.63056293	0.77613813	0.812436482	1.230865455	1.288430455	1.585884538
39° 05′ 40″	0.63060056	0.77610756	0.812516967	1.230743530	1.288481207	1.585789909
39° 05′ 50″	0.63063818	0.77607698	0.812597458	1.230621620	1.288531966	1.585695296
39° 06′ 00″	0.63067581	0.77604641	0.812677955	1.230499724	1.288582733	1.585600697
39° 06′ 10″	0.63071343	0.77601583	0.812758459	1.230377843	1.288633506	1.585506114
39° 06′ 20″	0.63075105	0.77598525	0.812838969	1.230255976	1.288684287	1.585411545
39° 06′ 30″	0.63078867	0.77595467	0.812919486	1.230134124	1.288735074	1.585316992
39° 06′ 40″	0.63082629	0.77592409	0.813000009	1.230012287	1.288785868	1.585222453
39° 06′ 50″	0.63086391	0.77589350	0.813080538	1.229890464	1.288836670	1.585127929
39° 07′ 00″	0.63090152	0.77586292	0.813161074	1.229768655	1.288887478	1.585033421
39° 07′ 10″	0.63093914	0.77583233	0.813241616	1.229646861	1.288938294	1.584938927
39° 07′ 20″	0.63097675	0.77580174	0.813322164	1.229525082	1.288989116	1.584844449
39° 07′ 30″	0.63101436	0.77577115	0.813402719	1.229403317	1.289039946	1.584749985
39° 07′ 40″	0.63105197	0.77574056	0.813483279	1.229281566	1.289090783	1.584655536
39° 07′ 50″	0.63108958	0.77570996	0.813563847	1.229159830	1.289141626	1.584561103
39° 08′ 00″	0.63112719	0.77567936	0.813644421	1.229038109	1.289192477	1.584466684
39° 08′ 10″	0.63116479	0.77564876	0.813725001	1.228916402	1.289243335	1.584372281
39° 08′ 20″	0.63120240	0.77561816	0.813805587	1.228794710	1.289294200	1.584277892
39° 08′ 30″	0.63124000	0.77558756	0.813886180	1.228673032	1.289345072	1.584183518
39° 08′ 40″	0.63127760	0.77555696	0.813966779	1.228551368	1.289395950	1.584089159
39° 08′ 50″	0.63131520	0.77552635	0.814047384	1.228429719	1.289446836	1.583994816
39° 09′ 00″	0.63135280	0.77549574	0.814127996	1.228308085	1.289497729	1.583900487
39° 09′ 10″	0.63139039	0.77546513	0.814208614	1.228186465	1.289548629	1.583806173
39° 09′ 20″	0.63142799	0.77543452	0.814289239	1.228064860	1.289599537	1.583711874
39° 09′ 30″	0.63146558	0.77540391	0.814369870	1.227943269	1.289650451	1.583617590
39° 09′ 40″	0.63150317	0.77537329	0.814450507	1.227821692	1.289701372	1.583523321
39° 09′ 50″	0.63154076	0.77534268	0.814531151	1.227700130	1.289752300	1.583429067
39° 10′ 00″	0.63157835	0.77531206	0.814611801	1.227578583	1.289803235	1.583334828
39° 10′ 10″	0.63161594	0.77528144	0.814692457	1.227457049	1.289854178	1.583240603
39° 10′ 20″	0.63165352	0.77525081	0.814773120	1.227335531	1.289905127	1.583146394
39° 10′ 30″	0.63169111	0.77522019	0.814853789	1.227214027	1.289956084	1.583052200
39° 10′ 40″	0.63172869	0.77518956	0.814934465	1.227092537	1.290007047	1.582958020
39° 10′ 50″	0.63176627	0.77515894	0.815015147	1.226971062	1.290058018	1.582863856
39° 11′ 00″	0.63180385	0.77512831	0.815095835	1.226849601	1.290108996	1.582769706
39° 11′ 10″	0.63184143	0.77509767	0.815176530	1.226728155	1.290159980	1.582675572
39° 11′ 20″	0.63187901	0.77506704	0.815257231	1.226606723	1.290210972	1.582581452
39° 11′ 30″	0.63191658	0.77503641	0.815337938	1.226485305	1.290261971	1.582487347
39° 11′ 40″ 39° 11′ 50″	0.63195416	0.77500577	0.815418652	1.226363902	1.290312977	1.582393257
37-11-50"	0.63199173	0.77497513	0.815499372	1.226242514	1.290363990	1.582299182

294 **39° 11′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
39° 12′ 00″	0.63202930	0.77494449	0.815580099	1.226121139	1.290415010	1.582205122
39° 12′ 10″	0.63206687	0.77491385	0.815660832	1.225999780	1.290466037	1.582111077
39° 12′ 20″	0.63210444	0.77488320	0.815741571	1.225878434	1.290517071	1.582017047
39° 12′ 30″	0.63214201	0.77485256	0.815822317	1.225757103	1.290568112	1.581923031
39° 12′ 40″	0.63217957	0.77482191	0.815903069	1.225635787	1.290619161	1.581829031
39° 12′ 50″	0.63221714	0.77479126	0.815983827	1.225514485	1.290670216	1.581735045
39° 13′ 00″	0.63225470	0.77476061	0.816064592	1.225393197	1.290721279	1.581641074
39° 13′ 10″	0.63229226	0.77472995	0.816145364	1.225271924	1.290772348	1.581547118
39° 13′ 20″	0.63232982	0.77469930	0.816226141	1.225150665	1.290823425	1.581453177
39° 13′ 30″	0.63236738	0.77466864	0.816306925	1.225029421	1.290874508	1.581359251
39° 13′ 40″	0.63240493	0.77463798	0.816387716	1.224908191	1.290925599	1.581265340
39° 13′ 50″	0.63244249	0.77460732	0.816468513	1.224786975	1.290976697	1.581171444
39° 14′ 00″	0.63248004	0.77457666	0.816549316	1.224665774	1.291027802	1.581077562
39° 14′ 10″	0.63251759	0.77454599	0.816630126	1.224544587	1.291078914	1.580983696
39° 14′ 20″	0.63255514	0.77451533	0.816710942	1.224423415	1.291130033	1.580889844
39° 14′ 30″	0.63259269	0.77448466	0.816791764	1.224302257	1.291181159	1.580796007
39° 14′ 40″	0.63263024	0.77445399	0.816872593	1.224181113	1.291232292	1.580702185
39° 14′ 50″	0.63266778	0.77442332	0.816953428	1.224059984	1.291283433	1.580608378
39° 15′ 00″	0.63270533	0.77439264	0.817034270	1.223938869	1.291334580	1.580514585
39° 15′ 10″	0.63274287	0.77436197	0.817115118	1.223817768	1.291385735	1.580420808
39° 15′ 20″	0.63278041	0.77433129	0.817195972	1.223696682	1.291436896	1.580327045
39° 15′ 30″	0.63281795	0.77430061	0.817276833	1.223575610	1.291488065	1.580233297
39° 15′ 40″	0.63285549	0.77426993	0.817357701	1.223454553	1.291539241	1.580139564
39° 15′ 50″	0.63289303	0.77423925	0.817438574	1.223333510	1.291590424	1.580045846
39° 16′ 00″	0.63293056	0.77420856	0.817519454	1.223212481	1.291641614	1.579952143
39° 16′ 10″	0.63296810	0.77417788	0.817600341	1.223091467	1.291692811	1.579858454
39° 16′ 20″	0.63300563	0.77414719	0.817681234	1.222970467	1.291744015	1.579764781
39° 16′ 30″	0.63304316	0.77411650	0.817762133	1.222849481	1.291795226	1.579671122
39° 16′ 40″	0.63308069	0.77408581	0.817843039	1.222728509	1.291846445	1.579577478
39° 16′ 50″	0.63311822	0.77405512	0.817923951	1.222607552	1.291897670	1.579483848
39° 17′ 00″	0.63315574	0.77402442	0.818004870	1.222486610	1.291948903	1.579390234
39° 17′ 10″	0.63319327	0.77399372	0.818085795	1.222365682	1.292000142	1.579296634
39° 17′ 20″	0.63323079	0.77396302	0.818166726	1.222244768	1.292051389	1.579203050
39° 17′ 30″	0.63326832	0.77393232	0.818247664	1.222123868	1.292102643	1.579109480
39° 17′ 40″	0.63330584	0.77390162	0.818328608	1.222002983	1.292153904	1.579015924
39° 17′ 50″	0.63334336	0.77387092	0.818409559	1.221882112	1.292205172	1.578922384
39° 18′ 00″	0.63338087	0.77384021	0.818490516	1.221761255	1.292256447	1.578828858
39° 18′ 10″	0.63341839	0.77380950	0.818571480	1.221640412	1.292307729	1.578735347
39° 18′ 20″	0.63345590	0.77377879	0.818652450	1.221519584	1.292359019	1.578641851
39° 18′ 30″	0.63349342	0.77374808	0.818733426	1.221398771	1.292410315	1.578548370
39° 18′ 40″	0.63353093	0.77371737	0.818814409	1.221277971	1.292461619	1.578454904
39° 18′ 50″	0.63356844	0.77368665	0.818895398	1.221157186	1.292512930	1.578361452
39° 19′ 00″	0.63360595	0.77365593	0.818976394	1.221036415	1.292564247	1.578268015
39° 19′ 10″	0.63364345	0.77362521	0.819057396	1.220915659	1.292615572	1.578174593
39° 19′ 20″	0.63368096	0.77359449	0.819138404	1.220794916	1.292666904	1.578081185
39° 19′ 30″	0.63371846	0.77356377	0.819219419	1.220674188	1.292718244	1.577987793
39° 19′ 40″ 39° 19′ 50″	0.63375597	0.77353305	0.819300441	1.220553475	1.292769590	1.577894415
39- 19: 50"	0.63379347	0.77350232	0.819381469	1.220432775	1.292820943	1.577801052

295 39° 19′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
39° 20′ 00″	0.63383097	0.77347159	0.819462503	1.220312090	1.292872304	1.577707704
39° 20′ 10″	0.63386847	0.77344086	0.819543544	1.220191419	1.292923671	1.577614370
39° 20′ 20″	0.63390596	0.77341013	0.819624591	1.220070763	1.292975046	1.577521051
39° 20′ 30″	0.63394346	0.77337940	0.819705645	1.219950121	1.293026428	1.577427747
39° 20′ 40″	0.63398095	0.77334866	0.819786705	1.219829493	1.293077817	1.577334458
39° 20′ 50″	0.63401844	0.77331793	0.819867771	1.219708879	1.293129213	1.577241183
39° 21′ 00″	0.63405593	0.77328719	0.819948844	1.219588279	1.293180617	1.577147923
39° 21′ 10″	0.63409342	0.77325645	0.820029923	1.219467694	1.293232027	1.577054678
39° 21′ 20″	0.63413091	0.77322570	0.820111009	1.219347123	1.293283444	1.576961448
39° 21′ 30″	0.63416840	0.77319496	0.820192102	1.219226567	1.293334869	1.576868232
39° 21′ 40″	0.63420588	0.77316421	0.820273200	1.219106024	1.293386301	1.576775031
39° 21′ 50″	0.63424337	0.77313346	0.820354306	1.218985496	1.293437740	1.576681845
39° 22′ 00″	0.63428085	0.77310271	0.820435417	1.218864982	1.293489186	1.576588673
39° 22′ 10″	0.63431833	0.77307196	0.820516535	1.218744482	1.293540639	1.576495516
39° 22′ 20″	0.63435581	0.77304121	0.820597660	1.218623997	1.293592099	1.576402374
39° 22′ 30″	0.63439328	0.77301045	0.820678791	1.218503526	1.293643567	1.576309247
39° 22′ 40″	0.63443076	0.77297970	0.820759928	1.218383069	1.293695041	1.576216134
39° 22′ 50″	0.63446823	0.77294894	0.820841072	1.218262626	1.293746523	1.576123036
39° 23′ 00″	0.63450571	0.77291818	0.820922223	1.218142197	1.293798012	1.576029953
39° 23′ 10″	0.63454318	0.77288741	0.821003379	1.218021783	1.293849508	1.575936884
39° 23′ 20″	0.63458065	0.77285665	0.821084543	1.217901383	1.293901011	1.575843831
39° 23′ 30″	0.63461812	0.77282588	0.821165712	1.217780997	1.293952521	1.575750791
39° 23′ 40″	0.63465558	0.77279512	0.821246889	1.217660625	1.294004039	1.575657767
39° 23′ 50″	0.63469305	0.77276435	0.821328071	1.217540268	1.294055563	1.575564757
39° 24′ 00″	0.63473051	0.77273357	0.821409261	1.217419925	1.294107095	1.575471762
39° 24′ 10″	0.63476798	0.77270280	0.821490456	1.217299596	1.294158634	1.575378782
39° 24′ 20″	0.63480544	0.77267202	0.821571658	1.217179281	1.294210180	1.575285816
39° 24′ 30″	0.63484290	0.77264125	0.821652867	1.217058980	1.294261733	1.575192865
39° 24′ 40″	0.63488035	0.77261047	0.821734082	1.216938694	1.294313293	1.575099928
39° 24′ 50″	0.63491781	0.77257969	0.821815303	1.216818421	1.294364861	1.575007006
39° 25′ 00″	0.63495527	0.77254891	0.821896531	1.216698163	1.294416435	1.574914099
39° 25′ 10″	0.63499272	0.77251812	0.821977766	1.216577919	1.294468017	1.574821207
39° 25′ 20″	0.63503017	0.77248733	0.822059007	1.216457690	1.294519606	1.574728329
39° 25′ 30″	0.63506762	0.77245655	0.822140254	1.216337474	1.294571202	1.574635466
39° 25′ 40″	0.63510507	0.77242576	0.822221508	1.216217273	1.294622805	1.574542618
39° 25′ 50″	0.63514252	0.77239496	0.822302768	1.216097086	1.294674416	1.574449784
39° 26′ 00″	0.63517996	0.77236417	0.822384035	1.215976913	1.294726033	1.574356965
39° 26′ 10″	0.63521741	0.77233338	0.822465308	1.215856754	1.294777658	1.574264160
39° 26′ 20″	0.63525485	0.77230258	0.822546588	1.215736609	1.294829290	1.574171370
39° 26′ 30″	0.63529229	0.77227178	0.822627874	1.215616479	1.294880929	1.574078595
39° 26′ 40″	0.63532973	0.77224098	0.822709167	1.215496362	1.294932575	1.573985834
39° 26′ 50″	0.63536717	0.77221018	0.822790466	1.215376260	1.294984228	1.573893088
39° 27′ 00″	0.63540461	0.77217937	0.822871772	1.215256172	1.295035889	1.573800357
39° 27′ 10″	0.63544204	0.77214857	0.822953084	1.215136098	1.295087557	1.573707640
39° 27′ 20″	0.63547948	0.77211776	0.823034403	1.215016038	1.295139231	1.573614938
39° 27′ 30″	0.63551691	0.77208695	0.823115728	1.214895993	1.295190913	1.573522251
39° 27′ 40″ 39° 27′ 50″	0.63555434	0.77205614	0.823197060 0.823278398	1.214775961 1.214655944	1.295242603 1.295294299	1.573429578
37 ZI 30"	0.63559177	0.77202532	0.0434/8378	1.414033744	1.473474477	1.573336920

296 **39° 27′ 50″**

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
39° 28′ 00″	0.63562920	0.77199451	0.823359743	1.214535941	1.295346002	1.573244276
39° 28′ 10″	0.63566663	0.77196369	0.823441094	1.214415952	1.295397713	1.573151647
39° 28′ 20″	0.63570405	0.77193287	0.823522452	1.214295977	1.295449431	1.573059032
39° 28′ 30″	0.63574147	0.77190205	0.823603816	1.214176016	1.295501156	1.572966433
39° 28′ 40″	0.63577890	0.77187123	0.823685187	1.214056069	1.295552888	1.572873847
39° 28′ 50″	0.63581632	0.77184040	0.823766564	1.213936137	1.295604628	1.572781277
39° 29′ 00″	0.63585374	0.77180958	0.823847947	1.213816218	1.295656374	1.572688721
39° 29′ 10″	0.63589115	0.77177875	0.823929337	1.213696314	1.295708128	1.572596179
39° 29′ 20″	0.63592857	0.77174792	0.824010734	1.213576424	1.295759889	1.572503652
39° 29′ 30″	0.63596599	0.77171709	0.824092137	1.213456548	1.295811657	1.572411140
39° 29′ 40″	0.63600340	0.77168626	0.824173547	1.213336686	1.295863432	1.572318642
39° 29′ 50″	0.63604081	0.77165542	0.824254963	1.213216838	1.295915215	1.572226159
39° 30′ 00″	0.63607822	0.77162458	0.824336386	1.213097004	1.295967005	1.572133691
39° 30′ 10″	0.63611563	0.77159374	0.824417815	1.212977184	1.296018801	1.572041237
39° 30′ 20″	0.63615304	0.77156290	0.824499251	1.212857379	1.296070605	1.571948797
39° 30′ 30″	0.63619044	0.77153206	0.824580693	1.212737587	1.296122417	1.571856372
39° 30′ 40″	0.63622785	0.77150122	0.824662142	1.212617810	1.296174235	1.571763962
39° 30′ 50″	0.63626525	0.77147037	0.824743597	1.212498046	1.296226061	1.571671566
39° 31′ 00″	0.63630265	0.77143952	0.824825059	1.212378297	1.296277894	1.571579185
39° 31′ 10″	0.63634005	0.77140867	0.824906527	1.212258562	1.296329734	1.571486819
39° 31′ 20″	0.63637745	0.77137782	0.824988002	1.212138841	1.296381581	1.571394466
39° 31′ 30″	0.63641484	0.77134697	0.825069483	1.212019134	1.296433435	1.571302129
39° 31′ 40″	0.63645224	0.77131611	0.825150971	1.211899441	1.296485297	1.571209806
39° 31′ 50″	0.63648963	0.77128526	0.825232465	1,211779762	1.296537165	1.571117498
39° 32′ 00″	0.63652703	0.77125440	0.825313966	1.211660097	1.296589041	1.571025204
39° 32′ 10″	0.63656442	0.77122354	0.825395473	1.211540446	1.296640925	1.570932924
39° 32′ 20″	0.63660181	0.77119267	0.825476987	1.211420809	1.296692815	1.570840659
39° 32′ 30″	0.63663919	0.77116181	0.825558508	1.211301187	1.296744713	1.570748409
39° 32′ 40″	0.63667658	0.77113094	0.825640035	1.211181578	1.296796617	1.570656173
39° 32′ 50″	0.63671396	0.77110008	0.825721568	1.211061983	1.296848529	1.570563952
39° 33′ 00″	0.63675135	0.77106921	0.825803108	1.210942403	1.296900449	1.570471745
39° 33′ 10″	0.63678873	0.77103834	0.825884655	1.210822836	1.296952375	1.570379553
39° 33′ 20″	0.63682611	0.77100746	0.825966208	1.210703284	1.297004309	1.570287375
39° 33′ 30″	0.63686349	0.77097659	0.826047767	1.210583745	1.297056249	1.570195212
39° 33′ 40″	0.63690087	0.77094571	0.826129333	1.210464221	1.297108197	1.570103064
39° 33′ 50″	0.63693824	0.77091483	0.826210906	1.210344710	1.297160153	1.570010929
39° 34′ 00″	0.63697562	0.77088395	0.826292485	1.210225214	1.297212115	1.569918810
39° 34′ 10″	0.63701299	0.77085307	0.826374071	1.210105732	1.297264085	1.569826704
39° 34′ 20″	0.63705036	0.77082218	0.826455663	1.209986263	1.297316062	1.569734614
39° 34′ 30″	0.63708773	0.77079130	0.826537262	1.209866809	1.297368046	1.569642538
39° 34′ 40″	0.63712510	0.77076041	0.826618868	1.209747369	1.297420037	1.569550476
39° 34′ 50″	0.63716246	0.77072952	0.826700479	1.209627942	1.297472035	1.569458429
39° 35′ 00″	0.63719983	0.77069863	0.826782098	1.209508530	1.297524041	1.569366396
39° 35′ 10″	0.63723719	0.77066774	0.826863723	1.209389132	1.297576054	1.569274378
39° 35′ 20″	0.63727456	0.77063684	0.826945354	1.209269748	1.297628074	1.569182374
39° 35′ 30″	0.63731192	0.77060594	0.827026992	1.209150377	1.297680102	1.569090385
39° 35′ 40″	0.63734928	0.77057505	0.827108637	1.209031021	1.297732136	1.568998410
39° 35′ 50″	0.63738663	0.77054415	0.827190288	1.208911679	1.297784178	1.568906449
	1.13.0000		,			

297 **39° 35′ 50″**

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
39° 36′ 00″	0.63742399	0.77051324	0.827271946	1.208792350	1.297836227	1.568814504
39° 36′ 10″	0.63746134	0.77048234	0.827353610	1.208673036	1.297888283	1.568722572
39° 36′ 20″	0.63749870	0.77045143	0.827435281	1.208553736	1.297940347	1.568630655
39° 36′ 30″	0.63753605	0.77042053	0.827516958	1.208434449	1.297992418	1.568538753
39° 36′ 40″	0.63757340	0.77038962	0.827598642	1.208315177	1.298044496	1.568446865
39° 36′ 50″	0.63761075	0.77035870	0.827680333	1.208195919	1.298096581	1.568354991
39° 37′ 00″	0.63764810	0.77032779	0.827762030	1.208076674	1.298148673	1.568263132
39° 37′ 10″	0.63768544	0.77029688	0.827843733	1.207957444	1.298200773	1.568171287
39° 37′ 20″	0.63772279	0.77026596	0.827925444	1.207838227	1.298252880	1.568079457
39° 37′ 30″	0.63776013	0.77023504	0.828007160	1.207719025	1.298304994	1.567987641
39° 37′ 40″	0.63779747	0.77020412	0.828088884	1.207599836	1.298357115	1.567895840
39° 37′ 50″	0.63783481	0.77017320	0.828170613	1.207480661	1.298409244	1.567804053
39° 38′ 00″	0.63787215	0.77014227	0.828252350	1.207361501	1.298461380	1.567712280
39° 38′ 10″	0.63790949	0.77011135	0.828334093	1.207242354	1.298513523	1.567620522
39° 38′ 20″	0.63794682	0.77008042	0.828415842	1.207123221	1.298565673	1.567528778
39° 38′ 30″	0.63798415	0.77004949	0.828497598	1.207004102	1.298617831	1.567437049
39° 38′ 40″	0.63802149	0.77001856	0.828579361	1.206884997	1.298669996	1.567345334
39° 38′ 50″	0.63805882	0.76998763	0.828661130	1.206765906	1.298722168	1.567253634
39° 39′ 00″	0.63809615	0.76995669	0.828742906	1.206646829	1.298774347	1.567161948
39° 39′ 10″	0.63813347	0.76992576	0.828824689	1.206527766	1.298826534	1.567070276
39° 39′ 20″	0.63817080	0.76989482	0.828906477	1.206408717	1.298878727	1.566978619
39° 39′ 30″	0.63820813	0.76986388	0.828988273	1.206289682	1.298930928	1.566886976
39° 39′ 40″	0.63824545	0.76983293	0.829070075	1.206170660	1.298983137	1.566795348
39° 39′ 50″	0.63828277	0.76980199	0.829151884	1.206051653	1.299035352	1.566703734
39° 40′ 00″	0.63832009	0.76977104	0.829233699	1.205932660	1.299087575	1.566612134
39° 40′ 10″	0.63835741	0.76974010	0.829315521	1.205813680	1.299139805	1.566520549
39° 40′ 20″	0.63839473	0.76970915	0.829397349	1.205694714	1.299192042	1.566428978
39° 40′ 30″	0.63843204	0.76967820	0.829479184	1.205575762	1.299244287	1.566337422
39° 40′ 40″	0.63846936	0.76964724	0.829561026	1.205456825	1.299296539	1.566245880
39° 40′ 50″	0.63850667	0.76961629	0.829642874	1.205337901	1.299348798	1.566154352
39° 41′ 00″	0.63854398	0.76958533	0.829724729	1.205218991	1.299401064	1.566062839
39° 41′ 10″	0.63858129	0.76955437	0.829806590	1.205100094	1.299453338	1.565971340
39° 41′ 20″	0.63861860	0.76952341	0.829888458	1.204981212	1.299505619	1.565879855
39° 41′ 30″	0.63865591	0.76949245	0.829970332	1.204862344	1.299557907	1.565788385
39° 41′ 40″	0.63869321	0.76946149	0.830052214	1.204743489	1.299610202	1.565696929
39° 41′ 50″ 39° 42′ 00″	0.63873052	0.76943052	0.830134101	1.204624649	1.299662505	1.565605488
39° 42′ 10″	0.63876782	0.76939956	0.830215995	1.204505822	1.299714815	1.565514061
39° 42′ 10″ 39° 42′ 20″	0.63880512	0.76936859	0.830297896	1.204387009	1.299767132	1.565422648
	0.63884242	0.76933761	0.830379804	1.204268210	1.299819456	1.565331250
39° 42′ 30″	0.63887972	0.76930664	0.830461718	1.204149425	1.299871788	1.565239866
39° 42′ 40″ 39° 42′ 50″	0.63891701 0.63895431	0.76927567	0.830543639	1.204030654	1.299924127	1.565148496
39° 42′ 50″ 39° 43′ 00″		0.76924469	0.830625566	1.203911896 1.203793153	1.299976473	1.565057141
	0.63899160	0.76921371	0.830707500		1.300028827	1.564965800
39° 43′ 10″ 39° 43′ 20″	0.63902889	0.76918273	0.830789440	1.203674423	1.300081187	1.564874473
39° 43′ 20″ 39° 43′ 30″	0.63906618	0.76915175	0.830871387	1.203555707	1.300133555	1.564783161
39° 43′ 30″ 39° 43′ 40″	0.63910347	0.76912077 0.76908978	0.830953341	1.203437005	1.300185931	1.564691863
39° 43′ 40″ 39° 43′ 50″	0.63914076	0.76908978	0.831035301 0.831117268	1.203318317 1.203199643	1.300238313 1.300290703	1.564600579 1.564509310
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298 **39° 43′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	csc(x)
39° 44′ 00″	0.63921533	0.76902780	0.831199241	1.203080983	1.300343100	1.564418055
39° 44′ 10″	0.63925261	0.76899681	0.831281221	1.202962336	1.300395505	1.564326814
39° 44′ 20″	0.63928989	0.76896582	0.831363208	1.202843703	1.300447917	1.564235588
39° 44′ 30″	0.63932717	0.76893483	0.831445201	1.202725084	1.300500336	1.564144376
39° 44′ 40″	0.63936445	0.76890383	0.831527201	1.202606479	1.300552762	1.564053178
39° 44′ 50″	0.63940173	0.76887283	0.831609208	1.202487888	1.300605195	1.563961995
39° 45′ 00″	0.63943900	0.76884183	0.831691221	1.202369311	1.300657636	1.563870826
39° 45′ 10″	0.63947628	0.76881083	0.831773241	1.202250747	1.300710084	1.563779671
39° 45′ 20″	0.63951355	0.76877983	0.831855267	1.202132197	1.300762540	1.563688530
39° 45′ 30″	0.63955082	0.76874882	0.831937300	1.202013661	1.300815003	1.563597404
39° 45′ 40″	0.63958809	0.76871781	0.832019340	1.201895139	1.300867473	1.563506292
39° 45′ 50″	0.63962536	0.76868681	0.832101386	1.201776631	1.300919950	1.563415195
39° 46′ 00″	0.63966262	0.76865579	0.832183439	1.201658137	1.300972435	1.563324111
39° 46′ 10″	0.63969989	0.76862478	0.832265498	1.201539656	1.301024926	1.563233042
39° 46′ 20″	0.63973715	0.76859377	0.832347564	1.201421189	1.301077426	1.563141988
39° 46′ 30″	0.63977441	0.76856275	0.832429637	1.201302736	1.301129932	1.563050947
39° 46′ 40″	0.63981167	0.76853173	0.832511716	1.201184297	1.301182446	1.562959921
39° 46′ 50″	0.63984893	0.76850071	0.832593802	1.201065871	1.301234967	1.562868909
39° 47′ 00″	0.63988619	0.76846969	0.832675895	1.200947459	1.301287495	1.562777911
39° 47′ 10″	0.63992344	0.76843867	0.832757994	1.200829061	1.301340031	1.562686928
39° 47′ 20″	0.63996070	0.76840764	0.832840100	1.200710677	1.301392574	1.562595959
39° 47′ 30″	0.63999795	0.76837662	0.832922212	1.200592307	1.301445124	1.562505004
39° 47′ 40″	0.64003520	0.76834559	0.833004331	1.200473950	1.301497682	1.562414063
39° 47′ 50″	0.64007245	0.76831456	0.833086457	1.200355607	1.301550247	1.562323137
39° 48′ 00″	0.64010970	0.76828352	0.833168589	1.200237278	1.301602819	1.562232225
39° 48′ 10″	0.64014695	0.76825249	0.833250728	1.200118963	1.301655398	1.562141327
39° 48′ 20″	0.64018419	0.76822145	0.833332874	1.200000662	1.301707985	1.562050443
39° 48′ 30″	0.64022144	0.76819042	0.833415026	1.199882374	1.301760579	1.561959574
39° 48′ 40″	0.64025868	0.76815938	0.833497185	1.199764100	1.301813181	1.561868719
39° 48′ 50″	0.64029592	0.76812833	0.833579351	1.199645840	1.301865789	1.561777878
39° 49′ 00″	0.64033316	0.76809729	0.833661523	1.199527593	1.301918405	1.561687052
39° 49′ 10″ 39° 49′ 20″	0.64037039	0.76806625	0.833743702	1.199409361	1.301971029	1.561596239
39° 49′ 20″ 39° 49′ 30″	0.64040763	0.76803520	0.833825887	1.199291142	1.302023660 1.302076298	1.561505441 1.561414657
39° 49′ 40″	0.64044487	0.76800415 0.76797310	0.833908079 0.833990278	1.199172936 1.199054745	1.302076276	1.561323887
39° 49′ 50″	0.64051933	0.76797310	0.834072483	1.198936567	1.302126745	1.561323887
39° 50′ 00″	0.64055656	0.76794203	0.834154695	1.178736367	1.302181373	1.561142391
39° 50′ 10″	0.64059379	0.76771077	0.834236914	1.1788700253	1.302286923	1.561051664
39° 50′ 20″	0.64063102	0.76784888	0.834319139	1.178700233	1.302339597	1.560960951
39° 50′ 30″	0.64066824	0.76781782	0.834401372	1.178362116	1.302337377	1.560870252
39° 50′ 40″	0.64070547	0.76781782	0.834483610	1.178463774	1.302372277	1.560779568
39° 50′ 50″	0.64074269	0.76775570	0.834565855	1.178343883	1.302497665	1.560688898
39° 51′ 00″	0.64077991	0.76772463	0.834648107	1.178227787	1.302577669	1.560598242
39° 51′ 10″	0.64081713	0.76769356	0.834730366	1.197991640	1.302603080	1.560507600
39° 51′ 20″	0.64085435	0.76766249	0.834812631	1.197873586	1.302655799	1.560416972
39° 51′ 30″	0.64089156	0.76763142	0.834894903	1.197755545	1.302708524	1.560326359
39° 51′ 40″	0.64092878	0.76760035	0.834977182	1.197637518	1.302761258	1.560235759
39° 51′ 50″	0.64096599	0.76756928	0.835059467	1.197519505	1.302813998	1.560145174
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299 **39° 51′ 50″**

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
39° 52′ 00″	0.64100320	0.76753820	0.835141759	1.197401506	1.302866746	1.560054604
39° 52′ 10″	0.64104041	0.76750712	0.835224058	1.197283520	1.302919501	1.559964047
39° 52′ 20″	0.64107762	0.76747605	0.835306363	1.197165548	1.302972264	1.559873504
39° 52′ 30″	0.64111483	0.76744496	0.835388675	1.197047590	1.303025034	1.559782976
39° 52′ 40″	0.64115204	0.76741388	0.835470994	1.196929645	1.303077811	1.559692462
39° 52′ 50″	0.64118924	0.76738280	0.835553319	1.196811714	1.303130595	1.559601962
39° 53′ 00″	0.64122645	0.76735171	0.835635651	1.196693797	1.303183387	1.559511476
39° 53′ 10″	0.64126365	0.76732062	0.835717989	1.196575894	1.303236186	1.559421005
39° 53′ 20″	0.64130085	0.76728953	0.835800335	1.196458004	1.303288993	1.559330547
39° 53′ 30″	0.64133805	0.76725844	0.835882687	1.196340128	1.303341807	1.559240104
39° 53′ 40″	0.64137524	0.76722734	0.835965045	1.196222265	1.303394628	1.559149675
39° 53′ 50″	0.64141244	0.76719625	0.836047411	1.196104416	1.303447457	1.559059260
39° 54′ 00″	0.64144963	0.76716515	0.836129783	1.195986581	1.303500293	1.558968859
39° 54′ 10″	0.64148682	0.76713405	0.836212161	1.195868760	1.303553136	1.558878472
39° 54′ 20″	0.64152401	0.76710295	0.836294547	1.195750952	1.303605987	1.558788099
39° 54′ 30″	0.64156120	0.76707185	0.836376939	1.195633158	1.303658845	1.558697741
39° 54′ 40″	0.64159839	0.76704074	0.836459337	1.195515377	1.303711710	1.558607397
39° 54′ 50″	0.64163558	0.76700964	0.836541743	1.195397610	1.303764583	1.558517066
39° 55′ 00″	0.64167276	0.76697853	0.836624155	1.195279857	1.303817463	1.558426750
39° 55′ 10″	0.64170995	0.76694742	0.836706574	1.195162117	1.303870350	1.558336449
39° 55′ 20″	0.64174713	0.76691631	0.836788999	1.195044391	1.303923245	1.558246161
39° 55′ 30″	0.64178431	0.76688519	0.836871431	1.194926679	1.303976147	1.558155887
39° 55′ 40″	0.64182149	0.76685408	0.836953870	1.194808980	1.304029057	1.558065628
39° 55′ 50″	0.64185867	0.76682296	0.837036315	1.194691295	1.304081973	1.557975382
39° 56′ 00″	0.64189584	0.76679184	0.837118768	1.194573624	1.304134898	1.557885151
39° 56′ 10″	0.64193302	0.76676072	0.837201227	1.194455966	1.304187829	1.557794934
39° 56′ 20″	0.64197019	0.76672960	0.837283692	1.194338322	1.304240768	1.557704731
39° 56′ 30″	0.64200736	0.76669847	0.837366164	1.194220692	1.304293714	1.557614542
39° 56′ 40″	0.64204453	0.76666735	0.837448643	1.194103075	1.304346668	1.557524367
39° 56′ 50″	0.64208170	0.76663622	0.837531129	1.193985471	1.304399629	1.557434206
39° 57′ 00″	0.64211887	0.76660509	0.837613621	1.193867882	1.304452597	1.557344059
39° 57′ 10″	0.64215603	0.76657396	0.837696121	1.193750306	1.304505573	1.557253927
39° 57′ 20″	0.64219319	0.76654282	0.837778626	1.193632743	1.304558556	1.557163808
39° 57′ 30″	0.64223036	0.76651169	0.837861139	1.193515194	1.304611547	1.557073704
39° 57′ 40″	0.64226752	0.76648055	0.837943658	1.193397659	1.304664545	1.556983614
39° 57′ 50″	0.64230468	0.76644941	0.838026184	1.193280138	1.304717550	1.556893537
39° 58′ 00″	0.64234183	0.76641827	0.838108716	1.193162630	1.304770562	1.556803475
39° 58′ 10″	0.64237899	0.76638713	0.838191256	1.193045135	1.304823582	1.556713427
39° 58′ 20″	0.64241615	0.76635599	0.838273802	1.192927654	1.304876610	1.556623393
39° 58′ 30″	0.64245330	0.76632484	0.838356355	1.192810187	1.304929645	1.556533373
39° 58′ 40″	0.64249045	0.76629369	0.838438914	1.192692733	1.304982687	1.556443367
39° 58′ 50″	0.64252760	0.76626254	0.838521480	1.192575293	1.305035736	1.556353376
39° 59′ 00″	0.64256475	0.76623139	0.838604053	1.192457867	1.305088793	1.556263398
39° 59′ 10″	0.64260190	0.76620024	0.838686633	1.192340454	1.305141857	1.556173434
39° 59′ 20″	0.64263904	0.76616908	0.838769219	1.192223054	1.305194929	1.556083485
39° 59′ 30″	0.64267619	0.76613792	0.838851812	1.192105669	1.305248008	1.555993549
39° 59′ 40″	0.64271333	0.76610677	0.838934412	1.191988296	1.305301094	1.555903628
39° 59′ 50″	0.64275047	0.76607561	0.839017018	1.191870938	1.305354188	1.555813720

39° 59′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
40° 00′ 00″	0.64278761	0.76604444	0.839099631	1.191753593	1.305407289	1.555723827
40° 00′ 10″	0.64282475	0.76601328	0.839182251	1.191636261	1.305460398	1.555633948
40° 00′ 20″	0.64286188	0.76598211	0.839264878	1.191518943	1.305513514	1.555544082
40° 00′ 30″	0.64289902	0.76595095	0.839347511	1.191401639	1.305566637	1.555454231
40° 00′ 40″	0.64293615	0.76591978	0.839430151	1.191284348	1.305619768	1.555364394
40° 00′ 50″	0.64297329	0.76588860	0.839512798	1.191167070	1.305672906	1.555274570
40° 01′ 00″	0.64301042	0.76585743	0.839595451	1.191049807	1.305726052	1.555184761
40° 01′ 10″	0.64304754	0.76582626	0.839678112	1.190932556	1.305779205	1.555094966
40° 01′ 20″	0.64308467	0.76579508	0.839760779	1.190815320	1.305832365	1.555005185
40° 01′ 30″	0.64312180	0.76576390	0.839843452	1.190698096	1.305885533	1.554915418
40° 01′ 40″	0.64315892	0.76573272	0.839926133	1.190580887	1.305938708	1.554825665
40° 01′ 50″	0.64319605	0.76570154	0.840008820	1.190463691	1.305991890	1.554735926
40° 02′ 00″	0.64323317	0.76567035	0.840091514	1.190346508	1.306045080	1.554646201
40° 02′ 10″	0.64327029	0.76563917	0.840174214	1.190229339	1.306098278	1.554556490
40° 02′ 20″	0.64330741	0.76560798	0.840256922	1.190112184	1.306151482	1.554466793
40° 02′ 30″	0.64334452	0.76557679	0.840339636	1.189995042	1.306204694	1.554377110
40° 02′ 40″	0.64338164	0.76554560	0.840422357	1.189877913	1.306257914	1.554287441
40° 02′ 50″	0.64341875	0.76551441	0.840505084	1.189760798	1.306311141	1.554197786
40° 03′ 00″	0.64345586	0.76548321	0.840587819	1.189643697	1.306364375	1.554108144
40° 03′ 10″	0.64349298	0.76545202	0.840670560	1.189526609	1.306417617	1.554018517
40° 03′ 20″	0.64353009	0.76542082	0.840753308	1.189409534	1.306470866	1.553928904
40° 03′ 30″	0.64356719	0.76538962	0.840836062	1.189292473	1.306524123	1.553839305
40° 03′ 40″	0.64360430	0.76535842	0.840918824	1.189175426	1.306577387	1.553749720
40° 03′ 50″	0.64364140	0.76532721	0.841001592	1.189058392	1.306630658	1.553660149
40° 04′ 00″	0.64367851	0.76529601	0.841084366	1.188941371	1.306683937	1.553570592
40° 04′ 10″	0.64371561	0.76526480	0.841167148	1.188824364	1.306737223	1.553481049
40° 04′ 20″	0.64375271	0.76523359	0.841249936	1.188707371	1.306790517	1.553391520
40° 04′ 30″	0.64378981	0.76520238	0.841332731	1.188590391	1.306843818	1.553302004
40° 04′ 40″	0.64382691	0.76517117	0.841415533	1.188473424	1.306897127	1.553212503
40° 04′ 50″	0.64386400	0.76513995	0.841498342	1.188356471	1.306950443	1.553123016
40° 05′ 00″	0.64390110	0.76510874	0.841581157	1.188239532	1.307003766	1.553033543
40° 05′ 10″	0.64393819	0.76507752	0.841663979	1.188122605	1.307057097	1.552944083
40° 05′ 20″	0.64397528	0.76504630	0.841746808	1.188005693	1.307110435	1.552854638
40° 05′ 30″	0.64401237	0.76501508	0.841829644	1.187888794	1.307163781	1.552765206
40° 05′ 40″	0.64404946	0.76498385	0.841912486	1.187771908	1.307217134	1.552675789
40° 05′ 50″	0.64408654	0.76495263	0.841995335	1.187655036	1.307270494	1.552586385
40° 06′ 00″	0.64412363	0.76492140	0.842078191	1.187538177	1.307323862	1.552496996
40° 06′ 10″	0.64416071	0.76489017	0.842161054	1.187421331	1.307377237	1.552407620
40° 06′ 20″	0.64419780	0.76485894	0.842243923	1.187304500	1.307430620	1.552318258
40° 06′ 30″	0.64423488	0.76482771	0.842326800	1.187187681	1.307484010	1.552228910
40° 06′ 40″	0.64427196	0.76479647	0.842409683	1.187070876	1.307537408	1.552139577
40° 06′ 50″	0.64430903	0.76476524	0.842492572	1.186954085	1.307590813	1.552050257
40° 07′ 00″	0.64434611	0.76473400	0.842575469	1.186837306	1.307644226	1.551960951
40° 07′ 10″	0.64438318	0.76470276	0.842658372	1.186720542	1.307697646	1.551871658
40° 07′ 20″	0.64442026	0.76467152	0.842741282	1.186603791	1.307751073	1.551782380
40° 07′ 30″	0.64445733	0.76464028	0.842824199	1.186487053	1.307804508	1.551693116
40° 07′ 40″	0.64449440	0.76460903	0.842907123	1.186370328	1.307857950	1.551603866
40° 07′ 50″	0.64453147	0.76457778	0.842990053	1.186253617	1.307911400	1.551514629

301 40° 07′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
40° 08′ 00″	0.64456853	0.76454654	0.843072990	1.186136920	1.307964857	1.551425407
40° 08′ 10″	0.64460560	0.76451529	0.843155934	1.186020236	1.308018322	1.551336198
40° 08′ 20″	0.64464266	0.76448403	0.843238885	1.185903565	1.308071794	1.551247003
40° 08′ 30″	0.64467973	0.76445278	0.843321843	1.185786908	1.308125273	1.551157823
40° 08′ 40″	0.64471679	0.76442152	0.843404807	1.185670264	1.308178760	1.551068656
40° 08′ 50″	0.64475385	0.76439027	0.843487778	1.185553634	1.308232254	1.550979503
40° 09′ 00″	0.64479090	0.76435901	0.843570756	1.185437017	1.308285756	1.550890364
40° 09′ 10″	0.64482796	0.76432774	0.843653740	1.185320413	1.308339266	1.550801238
40° 09′ 20″	0.64486502	0.76429648	0.843736732	1.185203823	1.308392782	1.550712127
40° 09′ 30″	0.64490207	0.76426522	0.843819730	1.185087246	1.308446307	1.550623030
40° 09′ 40″	0.64493912	0.76423395	0.843902735	1.184970682	1.308499838	1.550533946
40° 09′ 50″	0.64497617	0.76420268	0.843985747	1.184854132	1.308553377	1.550444876
40° 10′ 00″	0.64501322	0.76417141	0.844068766	1.184737596	1.308606924	1.550355821
40° 10′ 10″	0.64505027	0.76414014	0.844151791	1.184621072	1.308660478	1.550266779
40° 10′ 20″	0.64508731	0.76410887	0.844234823	1.184504562	1.308714039	1.550177751
40° 10′ 30″	0.64512436	0.76407759	0.844317862	1.184388066	1.308767608	1.550088736
40° 10′ 40″	0.64516140	0.76404631	0.844400908	1.184271583	1.308821185	1.549999736
40° 10′ 50″	0.64519844	0.76401503	0.844483961	1.184155113	1.308874769	1.549910750
40° 11′ 00″	0.64523548	0.76398375	0.844567020	1.184038657	1.308928360	1.549821777
40° 11′ 10″	0.64527252	0.76395247	0.844650086	1.183922214	1.308981959	1.549732818
40° 11′ 20″	0.64530956	0.76392118	0.844733159	1.183805784	1.309035565	1.549643873
40° 11′ 30″	0.64534659	0.76388990	0.844816239	1.183689368	1.309089179	1.549554942
40° 11′ 40″	0.64538362	0.76385861	0.844899326	1.183572965	1.309142800	1.549466025
40° 11′ 50″	0.64542066	0.76382732	0.844982419	1.183456575	1.309196429	1.549377122
40° 12′ 00″	0.64545769	0.76379603	0.845065519	1.183340199	1.309250065	1.549288232
40° 12′ 10″	0.64549472	0.76376474	0.845148627	1.183223836	1.309303708	1.549199357
40° 12′ 20″	0.64553174	0.76373344	0.845231740	1.183107487	1.309357360	1.549110495
40° 12′ 30″	0.64556877	0.76370214	0.845314861	1.182991150	1.309411018	1.549021647
40° 12′ 40″	0.64560580	0.76367084	0.845397989	1.182874828	1.309464684	1.548932813
40° 12′ 50″	0.64564282	0.76363954	0.845481123	1.182758518	1.309518358	1.548843992
40° 13′ 00″	0.64567984	0.76360824	0.845564264	1.182642222	1.309572039	1.548755186
40° 13′ 10″	0.64571686	0.76357694	0.845647412	1.182525939	1.309625727	1.548666393
40° 13′ 20″	0.64575388	0.76354563	0.845730567	1.182409670	1.309679423	1.548577614
40° 13′ 30″	0.64579090	0.76351432	0.845813728	1.182293414	1.309733127	1.548488849
40° 13′ 40″	0.64582791	0.76348301	0.845896897	1.182177171	1.309786838	1.548400098
40° 13′ 50″	0.64586492	0.76345170	0.845980072	1.182060941	1.309840556	1.548311360
40° 14′ 00″	0.64590194	0.76342039	0.846063254	1.181944725	1.309894282	1.548222637
40° 14′ 10″	0.64593895	0.76338907	0.846146443	1.181828522	1.309948015	1.548133927
40° 14′ 20″	0.64597596	0.76335776	0.846229638	1.181712333	1.310001756	1.548045231
40° 14′ 30″	0.64601297	0.76332644	0.846312841	1.181596156	1.310055504	1.547956549
40° 14′ 40″	0.64604997	0.76329512	0.846396050	1.181479994	1.310109260	1.547867880
40° 14′ 50″	0.64608698	0.76326379	0.846479266	1.181363844	1.310163024	1.547779226
40° 15′ 00″	0.64612398	0.76323247	0.846562489	1.181247708	1.310216794	1.547690585
40° 15′ 10″	0.64616098	0.76320114	0.846645719	1.181131585	1.310270573	1.547601958
40° 15′ 20″	0.64619798	0.76316982	0.846728956	1.181015475	1.310324359	1.547513345
40° 15′ 30″	0.64623498	0.76313849	0.846812199	1.180899378	1.310378152	1.547424745
40° 15′ 40″	0.64627198	0.76310716	0.846895450	1.180783295	1.310431953	1.547336160
40° 15′ 50″	0.64630897	0.76307582	0.846978707	1.180667226	1.310485761	1.547247588

302 40° 15′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
40° 16′ 00″	0.64634597	0.76304449	0.847061971	1.180551169	1.310539577	1.547159030
40° 16′ 10″	0.64638296	0.76301315	0.847145242	1.180435126	1.310593400	1.547070485
40° 16′ 20″	0.64641995	0.76298181	0.847228519	1.180319096	1.310647231	1.546981955
40° 16′ 30″	0.64645694	0.76295047	0.847311804	1.180203079	1.310701069	1.546893438
40° 16′ 40″	0.64649393	0.76291913	0.847395095	1.180087076	1.310754915	1.546804935
40° 16′ 50″	0.64653092	0.76288779	0.847478394	1.179971085	1.310808769	1.546716445
40° 17′ 00″	0.64656790	0.76285644	0.847561699	1.179855109	1.310862629	1.546627970
40° 17′ 10″	0.64660488	0.76282509	0.847645011	1.179739145	1.310916498	1.546539508
40° 17′ 20″	0.64664187	0.76279374	0.847728329	1.179623195	1.310970374	1.546451060
40° 17′ 30″	0.64667885	0.76276239	0.847811655	1.179507258	1.311024257	1.546362626
40° 17′ 40″	0.64671583	0.76273104	0.847894987	1.179391334	1.311078148	1.546274205
40° 17′ 50″	0.64675280	0.76269969	0.847978327	1.179275423	1.311132046	1.546185799
40° 18′ 00″	0.64678978	0.76266833	0.848061673	1.179159526	1.311185952	1.546097405
40° 18′ 10″	0.64682675	0.76263697	0.848145026	1.179043642	1.311239866	1.546009026
40° 18′ 20″	0.64686373	0.76260561	0.848228386	1.178927771	1.311293786	1.545920661
40° 18′ 30″	0.64690070	0.76257425	0.848311752	1.178811913	1.311347715	1.545832309
40° 18′ 40″	0.64693767	0.76254289	0.848395126	1.178696069	1.311401651	1.545743971
40° 18′ 50″	0.64697464	0.76251152	0.848478506	1.178580238	1.311455594	1.545655646
40° 19′ 00″	0.64701160	0.76248015	0.848561894	1.178464420	1.311509545	1.545567336
40° 19′ 10″	0.64704857	0.76244879	0.848645288	1.178348615	1.311563504	1.545479039
40° 19′ 20″	0.64708553	0.76241741	0.848728689	1.178232824	1.311617470	1.545390756
40° 19′ 30″	0.64712249	0.76238604	0.848812097	1.178117046	1.311671444	1.545302486
40° 19′ 40″	0.64715946	0.76235467	0.848895512	1.178001281	1.311725425	1.545214230
40° 19′ 50″	0.64719641	0.76232329	0.848978933	1.177885529	1.311779413	1.545125988
40° 20′ 00″	0.64723337	0.76229191	0.849062362	1.177769791	1.311833409	1.545037760
40° 20′ 10″	0.64727033	0.76226053	0.849145797	1.177654065	1.311887413	1.544949545
40° 20′ 20″	0.64730728	0.76222915	0.849229239	1.177538353	1.311941424	1.544861344
40° 20′ 30″	0.64734424	0.76219777	0.849312688	1.177422654	1.311995443	1.544773157
40° 20′ 40″	0.64738119	0.76216638	0.849396144	1.177306969	1.312049469	1.544684984
40° 20′ 50″	0.64741814	0.76213500	0.849479607	1.177191296	1.312103503	1.544596824
40° 21′ 00″	0.64745509	0.76210361	0.849563077	1.177075637	1.312157545	1.544508678
40° 21′ 10″	0.64749203	0.76207222	0.849646554	1.176959991	1.312211593	1.544420545
40° 21′ 20″	0.64752898	0.76204083	0.849730037	1.176844358	1.312265650	1.544332426
40° 21′ 30″	0.64756592	0.76200943	0.849813527	1.176728739	1.312319714	1.544244321
40° 21′ 40″	0.64760287	0.76197804	0.849897025	1.176613132	1.312373785	1.544156230
40° 21′ 50″	0.64763981	0.76194664	0.849980529	1.176497539	1.312427864	1.544068152
40° 22′ 00″	0.64767675	0.76191524	0.850064040	1.176381959	1.312481951	1.543980088
40° 22′ 10″	0.64771368	0.76188384	0.850147558	1.176266392	1.312536045	1.543892038
40° 22′ 20″	0.64775062	0.76185244	0.850231082	1.176150838	1.312590147	1.543804001
40° 22′ 30″	0.64778756	0.76182103	0.850314614	1.176035298	1.312644256	1.543715978
40° 22′ 40″	0.64782449	0.76178962	0.850398152	1.175919770	1.312698373	1.543627969
40° 22′ 50″	0.64786142	0.76175822	0.850481698	1.175804256	1.312752497	1.543539973
40° 23′ 00″	0.64789835	0.76172681	0.850565250	1.175688755	1.312806629	1.543451991
40° 23′ 10″	0.64793528	0.76169539	0.850648809	1.175573267	1.312860768	1.543364023
40° 23′ 20″	0.64797221	0.76166398	0.850732376	1.175457792	1.312914915	1.543276068
40° 23′ 30″	0.64800913	0.76163256	0.850815949	1.175342331	1.312969070	1.543188127
40° 23′ 40″	0.64804606	0.76160115	0.850899528	1.175226882	1.313023232	1.543100199
40° 23′ 50″	0.64808298	0.76156973	0.850983115	1.175111447	1.313077401	1.543012286

303 40° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
40° 24′ 00″	0.64811990	0.76153831	0.851066709	1.174996025	1.313131579	1.542924385
40° 24′ 10″	0.64815682	0.76150688	0.851150309	1.174880616	1.313185763	1.542836499
40° 24′ 20″	0.64819374	0.76147546	0.851233917	1.174765220	1.313239956	1.542748626
40° 24′ 30″	0.64823066	0.76144403	0.851317531	1.174649838	1.313294156	1.542660767
40° 24′ 40″	0.64826757	0.76141261	0.851401153	1.174534468	1.313348363	1.542572921
40° 24′ 50″	0.64830448	0.76138118	0.851484781	1.174419112	1.313402578	1.542485089
40° 25′ 00″	0.64834140	0.76134974	0.851568416	1.174303769	1.313456801	1.542397271
40° 25′ 10″	0.64837831	0.76131831	0.851652058	1.174188439	1.313511031	1.542309466
40° 25′ 20″	0.64841522	0.76128688	0.851735707	1.174073122	1.313565268	1.542221675
40° 25′ 30″	0.64845212	0.76125544	0.851819363	1.173957818	1.313619514	1.542133898
40° 25′ 40″	0.64848903	0.76122400	0.851903025	1.173842527	1.313673766	1.542046134
40° 25′ 50″	0.64852593	0.76119256	0.851986695	1.173727249	1.313728027	1.541958383
40° 26′ 00″	0.64856284	0.76116112	0.852070371	1.173611985	1.313782295	1.541870647
40° 26′ 10″	0.64859974	0.76112967	0.852154055	1.173496734	1.313836570	1.541782924
40° 26′ 20″	0.64863664	0.76109823	0.852237745	1.173381495	1.313890853	1.541695214
40° 26′ 30″	0.64867354	0.76106678	0.852321443	1.173266270	1.313945144	1.541607518
40° 26′ 40″	0.64871043	0.76103533	0.852405147	1.173151058	1.313999442	1.541519836
40° 26′ 50″	0.64874733	0.76100388	0.852488858	1.173035859	1.314053748	1.541432168
40° 27′ 00″	0.64878422	0.76097243	0.852572576	1.172920674	1.314108061	1.541344513
40° 27′ 10″	0.64882111	0.76094097	0.852656301	1.172805501	1.314162382	1.541256871
40° 27′ 20″	0.64885800	0.76090951	0.852740033	1.172690341	1.314216711	1.541169243
40° 27′ 30″	0.64889489	0.76087806	0.852823772	1.172575195	1.314271047	1.541081629
40° 27′ 40″	0.64893178	0.76084660	0.852907517	1.172460061	1.314325391	1.540994028
40° 27′ 50″	0.64896867	0.76081513	0.852991270	1.172344941	1.314379742	1.540906441
40° 28′ 00″	0.64900555	0.76078367	0.853075030	1.172229834	1.314434101	1.540818868
40° 28′ 10″	0.64904244	0.76075220	0.853158796	1.172114739	1.314488468	1.540731308
40° 28′ 20″	0.64907932	0.76072074	0.853242570	1.171999658	1.314542842	1.540643761
40° 28′ 30″	0.64911620	0.76068927	0.853326350	1.171884590	1.314597223	1.540556228
40° 28′ 40″	0.64915308	0.76065780	0.853410137	1.171769535	1.314651613	1.540468709
40° 28′ 50″	0.64918995	0.76062632	0.853493932	1.171654493	1.314706009	1.540381203
40° 29′ 00″	0.64922683	0.76059485	0.853577733	1.171539465	1.314760414	1.540293711
40° 29′ 10″	0.64926370	0.76056337	0.853661541	1.171424449	1.314814826	1.540206233
40° 29′ 20″	0.64930057	0.76053190	0.853745356	1.171309446	1.314869245	1.540118768
40° 29′ 30″	0.64933744	0.76050042	0.853829178	1.171194457	1.314923673	1.540031316
40° 29′ 40″	0.64937431	0.76046893	0.853913007	1.171079480	1.314978107	1.539943878
40° 29′ 50″	0.64941118	0.76043745	0.853996843	1.170964517	1.315032550	1.539856454
40° 30′ 00″	0.64944805	0.76040597	0.854080685	1.170849566	1.315087000	1.539769043
40° 30′ 10″	0.64948491	0.76037448	0.854164535	1.170734629	1.315141457	1.539681646
40° 30′ 20″	0.64952178	0.76034299	0.854248392	1.170619704	1.315195923	1.539594262
40° 30′ 30″	0.64955864	0.76031150	0.854332256	1.170504793	1.315250396	1.539506892
40° 30′ 40″	0.64959550	0.76028001	0.854416126	1.170389895	1.315304876	1.539419535
40° 30′ 50″	0.64963236	0.76024851	0.854500004	1.170275010	1.315359364	1.539332192
40° 31′ 00″	0.64966921	0.76021702	0.854583888	1.170160137	1.315413860	1.539244863
40° 31′ 10″	0.64970607	0.76018552	0.854667780	1.170045278	1.315468363	1.539157547
40° 31′ 20″	0.64974292	0.76015402	0.854751678	1.169930432	1.315522874	1.539070244
40° 31′ 30″	0.64977978	0.76012252	0.854835583	1.169815599	1.315577392	1.538982955
40° 31′ 40″	0.64981663	0.76009101	0.854919496	1.169700779	1.315631918	1.538895679
40° 31′ 50″	0.64985348	0.76005951	0.855003415	1.169585972	1.315686452	1.538808417

304 40° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
40° 32′ 00″	0.64989032	0.76002800	0.855087341	1.169471178	1.315740993	1.538721169
40° 32′ 10″	0.64992717	0.75999649	0.855171274	1.169356397	1.315795542	1.538633934
40° 32′ 20″	0.64996402	0.75996498	0.855255215	1.169241629	1.315850099	1.538546712
40° 32′ 30″	0.65000086	0.75993347	0.855339162	1.169126874	1.315904663	1.538459504
40° 32′ 40″	0.65003770	0.75990196	0.855423116	1.169012132	1.315959235	1.538372310
40° 32′ 50″	0.65007454	0.75987044	0.855507077	1.168897403	1.316013814	1.538285129
40° 33′ 00″	0.65011138	0.75983893	0.855591045	1.168782687	1.316068401	1.538197962
40° 33′ 10″	0.65014822	0.75980741	0.855675020	1.168667984	1.316122996	1.538110808
40° 33′ 20″	0.65018505	0.75977589	0.855759002	1.168553294	1.316177598	1.538023667
40° 33′ 30″	0.65022189	0.75974436	0.855842991	1.168438617	1.316232208	1.537936540
40° 33′ 40″	0.65025872	0.75971284	0.855926986	1.168323953	1.316286825	1.537849427
40° 33′ 50″	0.65029555	0.75968131	0.856010989	1.168209302	1.316341450	1.537762326
40° 34′ 00″	0.65033238	0.75964978	0.856094999	1.168094664	1.316396083	1.537675240
40° 34′ 10″	0.65036921	0.75961825	0.856179016	1.167980039	1.316450723	1.537588167
40° 34′ 20″	0.65040604	0.75958672	0.856263040	1.167865427	1.316505371	1.537501107
40° 34′ 30″	0.65044286	0.75955519	0.856347070	1.167750828	1.316560027	1.537414061
40° 34′ 40″	0.65047968	0.75952365	0.856431108	1.167636241	1.316614690	1.537327028
40° 34′ 50″	0.65051651	0.75949212	0.856515153	1.167521668	1.316669361	1.537240009
40° 35′ 00″	0.65055333	0.75946058	0.856599204	1.167407108	1.316724040	1.537153003
40° 35′ 10″	0.65059015	0.75942904	0.856683263	1.167292561	1.316778726	1.537066011
40° 35′ 20″	0.65062696	0.75939749	0.856767329	1.167178027	1.316833420	1.536979032
40° 35′ 30″	0.65066378	0.75936595	0.856851401	1.167063505	1.316888121	1.536892067
40° 35′ 40″	0.65070059	0.75933440	0.856935481	1.166948997	1.316942830	1.536805115
40° 35′ 50″	0.65073741	0.75930286	0.857019567	1.166834502	1.316997547	1.536718177
40° 36′ 00″	0.65077422	0.75927131	0.857103661	1.166720019	1.317052271	1.536631252
40° 36′ 10″	0.65081103	0.75923976	0.857187762	1.166605550	1.317107004	1.536544340
40° 36′ 20″	0.65084784	0.75920820	0.857271869	1.166491093	1.317161743	1.536457442
40° 36′ 30″	0.65088464	0.75917665	0.857355984	1.166376650	1.317216491	1.536370557
40° 36′ 40″	0.65092145	0.75914509	0.857440105	1.166262219	1.317271245	1.536283686
40° 36′ 50″	0.65095825	0.75911353	0.857524234	1.166147801	1.317326008	1.536196828
40° 37′ 00″	0.65099505	0.75908197	0.857608369	1.166033397	1.317380778	1.536109984
40° 37′ 10″	0.65103185	0.75905041	0.857692512	1.165919005	1.317435556	1.536023153
40° 37′ 20″	0.65106865	0.75901885	0.857776661	1.165804626	1.317490342	1.535936335
40° 37′ 30″	0.65110545	0.75898728	0.857860818	1.165690260	1.317545135	1.535849531
40° 37′ 40″	0.65114225	0.75895571	0.857944981	1.165575907	1.317599936	1.535762740
40° 37′ 50″ 40° 38′ 00″	0.65117904	0.75892414	0.858029152	1.165461567	1.317654745	1.535675963
	0.65121583	0.75889257	0.858113330	1.165347240	1.317709561	1.535589199
40° 38′ 10″	0.65125262	0.75886100	0.858197514	1.165232926	1.317764385	1.535502449
40° 38′ 20″	0.65128941	0.75882943	0.858281706	1.165118624	1.317819216	1.535415712
40° 38′ 30″	0.65132620	0.75879785	0.858365904	1.165004336	1.317874055	1.535328988
40° 38′ 40″ 40° 38′ 50″	0.65136299	0.75876627	0.858450110	1.164890060	1.317928902	1.535242278
40° 38′ 50″ 40° 39′ 00″	0.65139977	0.75873469	0.858534322	1.164775798	1.317983757	1.535155581 1.535068898
40° 39′ 10″	0.65143656	0.75870311	0.858618542	1.164661548	1.318038619 1.318093489	
40° 39′ 10″ 40° 39′ 20″	0.65147334	0.75867153	0.858702768 0.858787002	1.164547311		1.534982228
40° 39′ 30″	0.65151012	0.75863994		1.164433087	1.318148366	1.534895571 1.534808928
40° 39′ 40″	0.65154690	0.75860836 0.75857677	0.858871243 0.858955490	1.164318876 1.164204678	1.318203251 1.318258144	1.534808928
40° 39′ 50″	0.65162045	0.75854518	0.859039745	1.164204678	1.318313045	1.534722278
=======================================	0.03102043	0.73034310	0.03/037/43	1.1040/0473	1,510513043	1,334033602

305 40° 39′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
40° 40′ 00″	0.65165723	0.75851358	0.859124007	1.163976320	1.318367953	1.534549079
40° 40′ 10″	0.65169400	0.75848199	0.859208275	1.163862161	1.318422869	1.534462489
40° 40′ 20″	0.65173077	0.75845039	0.859292551	1.163748014	1.318477792	1.534375912
40° 40′ 30″	0.65176754	0.75841880	0.859376834	1.163633881	1.318532723	1.534289350
40° 40′ 40″	0.65180431	0.75838720	0.859461124	1.163519760	1.318587662	1.534202800
40° 40′ 50″	0.65184108	0.75835559	0.859545420	1.163405652	1.318642609	1.534116264
40° 41′ 00″	0.65187784	0.75832399	0.859629724	1.163291557	1.318697563	1.534029741
40° 41′ 10″	0.65191461	0.75829239	0.859714035	1.163177475	1.318752525	1.533943231
40° 41′ 20″	0.65195137	0.75826078	0.859798353	1.163063405	1.318807494	1.533856735
40° 41′ 30″	0.65198813	0.75822917	0.859882678	1.162949349	1.318862472	1.533770253
40° 41′ 40″	0.65202489	0.75819756	0.859967010	1.162835305	1.318917457	1.533683783
40° 41′ 50″	0.65206165	0.75816595	0.860051349	1.162721274	1.318972449	1.533597327
40° 42′ 00″	0.65209840	0.75813434	0.860135695	1.162607256	1.319027450	1.533510884
40° 42′ 10″	0.65213516	0.75810272	0.860220048	1.162493251	1.319082458	1.533424455
40° 42′ 20″	0.65217191	0.75807110	0.860304408	1.162379259	1.319137473	1.533338039
40° 42′ 30″	0.65220866	0.75803948	0.860388775	1.162265280	1.319192497	1.533251636
40° 42′ 40″	0.65224541	0.75800786	0.860473149	1.162151313	1.319247528	1.533165247
40° 42′ 50″	0.65228216	0.75797624	0.860557530	1.162037360	1.319302567	1.533078871
40° 43′ 00″	0.65231891	0.75794462	0.860641918	1.161923419	1.319357613	1.532992508
40° 43′ 10″	0.65235565	0.75791299	0.860726314	1.161809491	1.319412667	1.532906159
40° 43′ 20″	0.65239240	0.75788136	0.860810716	1.161695576	1.319467729	1.532819823
40° 43′ 30″	0.65242914	0.75784973	0.860895125	1.161581673	1.319522799	1.532733501
40° 43′ 40″	0.65246588	0.75781810	0.860979542	1.161467784	1.319577876	1.532647191
40° 43′ 50″	0.65250262	0.75778647	0.861063965	1.161353907	1.319632961	1.532560895
40° 44′ 00″	0.65253936	0.75775483	0.861148395	1.161240043	1.319688054	1.532474613
40° 44′ 10″	0.65257609	0.75772320	0.861232833	1.161126192	1.319743154	1.532388343
40° 44′ 20″	0.65261283	0.75769156	0.861317278	1.161012354	1.319798262	1.532302087
40° 44′ 30″	0.65264956	0.75765992	0.861401729	1.160898529	1.319853378	1.532215844
40° 44′ 40″	0.65268629	0.75762827	0.861486188	1.160784716	1.319908501	1.532129615
40° 44′ 50″	0.65272302	0.75759663	0.861570654	1.160670916	1.319963633	1.532043399
40° 45′ 00″	0.65275975	0.75756498	0.861655127	1.160557129	1.320018771	1.531957196
40° 45′ 10″	0.65279648	0.75753334	0.861739606	1.160443355	1.320073918	1.531871006
40° 45′ 20″	0.65283320	0.75750169	0.861824093	1.160329594	1.320129072	1.531784830
40° 45′ 30″	0.65286993	0.75747004	0.861908587	1.160215845	1.320184234	1.531698667
40° 45′ 40″	0.65290665	0.75743838	0.861993088	1.160102109	1.320239404	1.531612518
40° 45′ 50″	0.65294337	0.75740673	0.862077596	1.159988386	1.320294582	1.531526381
40° 46′ 00″	0.65298009	0.75737507	0.862162112	1.159874676	1.320349767	1.531440258
40° 46′ 10″	0.65301681	0.75734341	0.862246634	1.159760979	1.320404960	1.531354148
40° 46′ 20″	0.65305353	0.75731175	0.862331163	1.159647294	1.320460160	1.531268052
40° 46′ 30″	0.65309024	0.75728009	0.862415700	1.159533622	1.320515369	1.531181969
40° 46′ 40″	0.65312695	0.75724843	0.862500243	1.159419963	1.320570585	1.531095899
40° 46′ 50″	0.65316367	0.75721676	0.862584794	1.159306317	1.320625808	1.531009842
40° 47′ 00″	0.65320038	0.75718510	0.862669351	1.159192683	1.320681040	1.530923799
40° 47′ 10″	0.65323708	0.75715343	0.862753916	1.159079063	1.320736279	1.530837769
40° 47′ 20″	0.65327379	0.75712176	0.862838488	1.158965455	1.320791526	1.530751752
40° 47′ 30″	0.65331050	0.75709008	0.862923066	1.158851859	1.320846781	1.530665748
40° 47′ 40″	0.65334720	0.75705841	0.863007652	1.158738277	1.320902043	1.530579758
40° 47′ 50″	0.65338390	0.75702673	0.863092245	1.158624707	1.320957313	1.530493781
40° 47′ 50″	0.65338390	0.75702673	0.863092245	1.158624707	1.320957313	1.530493781

306 40° 47′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
40° 48′ 00″	0.65342060	0.75699506	0.863176845	1.158511150	1.321012591	1.530407817
40° 48′ 10″	0.65345730	0.75696338	0.863261452	1.158397606	1.321067877	1.530321866
40° 48′ 20″	0.65349400	0.75693169	0.863346067	1.158284075	1.321123170	1.530235929
40° 48′ 30″	0.65353070	0.75690001	0.863430688	1.158170556	1.321178471	1.530150005
40° 48′ 40″	0.65356739	0.75686833	0.863515316	1.158057050	1.321233780	1.530064094
40° 48′ 50″	0.65360409	0.75683664	0.863599952	1.157943557	1.321289097	1.529978196
40° 49′ 00″	0.65364078	0.75680495	0.863684594	1.157830077	1.321344421	1.529892312
40° 49′ 10″	0.65367747	0.75677326	0.863769244	1.157716609	1.321399753	1.529806441
40° 49′ 20″	0.65371416	0.75674157	0.863853901	1.157603154	1.321455093	1.529720583
40° 49′ 30″	0.65375084	0.75670988	0.863938564	1.157489712	1.321510440	1.529634738
40° 49′ 40″	0.65378753	0.75667818	0.864023235	1.157376282	1.321565795	1.529548907
40° 49′ 50″	0.65382421	0.75664648	0.864107913	1.157262866	1.321621158	1.529463089
40° 50′ 00″	0.65386090	0.75661478	0.864192598	1.157149462	1.321676529	1.529377284
40° 50′ 10″	0.65389758	0.75658308	0.864277291	1.157036070	1.321731907	1.529291492
40° 50′ 20″	0.65393426	0.75655138	0.864361990	1.156922692	1.321787294	1.529205714
40° 50′ 30″	0.65397093	0.75651967	0.864446696	1.156809326	1.321842688	1.529119948
40° 50′ 40″	0.65400761	0.75648797	0.864531410	1.156695973	1.321898089	1.529034196
40° 50′ 50″	0.65404428	0.75645626	0.864616130	1.156582632	1.321953499	1.528948457
40° 51′ 00″	0.65408096	0.75642455	0.864700858	1.156469304	1.322008916	1.528862732
40° 51′ 10″	0.65411763	0.75639284	0.864785593	1.156355989	1.322064341	1.528777019
40° 51′ 20″	0.65415430	0.75636113	0.864870335	1.156242687	1.322119774	1.528691320
40° 51′ 30″	0.65419097	0.75632941	0.864955084	1.156129397	1.322175214	1.528605634
40° 51′ 40″	0.65422764	0.75629769	0.865039840	1.156016121	1.322230663	1.528519961
40° 51′ 50″	0.65426430	0.75626597	0.865124603	1.155902856	1.322286119	1.528434301
40° 52′ 00″	0.65430097	0.75623425	0.865209374	1.155789605	1.322341582	1.528348655
40° 52′ 10″	0.65433763	0.75620253	0.865294151	1.155676366	1.322397054	1.528263021
40° 52′ 20″	0.65437429	0.75617081	0.865378936	1.155563140	1.322452533	1.528177401
40° 52′ 30″	0.65441095	0.75613908	0.865463727	1.155449926	1.322508020	1.528091794
40° 52′ 40″	0.65444761	0.75610735	0.865548526	1.155336726	1.322563515	1.528006201
40° 52′ 50″	0.65448426	0.75607562	0.865633332	1.155223537	1.322619018	1.527920620
40° 53′ 00″	0.65452092	0.75604389	0.865718145	1.155110362	1.322674528	1.527835053
40° 53′ 10″	0.65455757	0.75601216	0.865802965	1.154997199	1.322730046	1.527749499
40° 53′ 20″	0.65459422	0.75598043	0.865887793	1.154884049	1.322785572	1.527663958
40° 53′ 30″	0.65463087	0.75594869	0.865972627	1.154770912	1.322841106	1.527578430
40° 53′ 40″	0.65466752	0.75591695	0.866057468	1.154657787	1.322896647	1.527492915
40° 53′ 50″	0.65470417	0.75588521	0.866142317	1.154544675	1.322952196	1.527407413
40° 54′ 00″	0.65474081	0.75585347	0.866227173	1.154431576	1.323007753	1.527321925
40° 54′ 10″	0.65477746	0.75582173	0.866312036	1.154318489	1.323063318	1.527236450
40° 54′ 20″	0.65481410	0.75578998	0.866396906	1.154205415	1.323118891	1.527150988
40° 54′ 30″	0.65485074	0.75575823	0.866481783	1.154092353	1.323174471	1.527065539
40° 54′ 40″	0.65488738	0.75572648	0.866566667	1.153979304	1.323230059	1.526980103
40° 54′ 50″	0.65492402	0.75569473	0.866651559	1.153866268	1.323285655	1.526894680
40° 55′ 00″	0.65496065	0.75566298	0.866736457	1.153753245	1.323341258	1.526809271
40° 55′ 10″	0.65499729	0.75563123	0.866821363	1.153640234	1.323396870	1.526723875
40° 55′ 20″	0.65503392	0.75559947	0.866906276	1.153527236	1.323452489	1.526638491
40° 55′ 30″	0.65507055	0.75556771	0.866991196	1.153414250	1.323508116	1.526553121
40° 55′ 40″	0.65510718	0.75553595	0.867076123	1.153301277	1.323563751	1.526467765
40° 55′ 50″	0.65514381	0.75550419	0.867161057	1.153188317	1.323619394	1.526382421

307 40° 55′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
40° 56′ 00″	0.65518044	0.75547243	0.867245999	1.153075369	1.323675044	1.526297090
40° 56′ 10″	0.65521707	0.75544066	0.867330947	1.152962434	1.323730702	1.526211773
40° 56′ 20″	0.65525369	0.75540890	0.867415903	1.152849512	1.323786368	1.526126468
40° 56′ 30″	0.65529031	0.75537713	0.867500866	1.152736602	1.323842042	1.526041177
40° 56′ 40″	0.65532693	0.75534536	0.867585836	1.152623705	1.323897723	1.525955899
40° 56′ 50″	0.65536355	0.75531359	0.867670813	1.152510820	1.323953413	1.525870634
40° 57′ 00″	0.65540017	0.75528181	0.867755797	1.152397948	1.324009110	1.525785382
40° 57′ 10″	0.65543679	0.75525004	0.867840788	1.152285089	1.324064815	1.525700143
40° 57′ 20″	0.65547340	0.75521826	0.867925787	1.152172242	1.324120528	1.525614917
40° 57′ 30″	0.65551002	0.75518648	0.868010793	1.152059408	1.324176248	1.525529705
40° 57′ 40″	0.65554663	0.75515470	0.868095806	1.151946587	1.324231976	1.525444505
40° 57′ 50″	0.65558324	0.75512292	0.868180826	1.151833778	1.324287713	1.525359319
40° 58′ 00″	0.65561985	0.75509113	0.868265853	1.151720981	1.324343457	1.525274145
40° 58′ 10″	0.65565645	0.75505935	0.868350887	1.151608198	1.324399208	1.525188985
40° 58′ 20″	0.65569306	0.75502756	0.868435929	1.151495427	1.324454968	1.525103838
40° 58′ 30″	0.65572966	0.75499577	0.868520977	1.151382668	1.324510735	1.525018704
40° 58′ 40″	0.65576626	0.75496398	0.868606033	1.151269922	1.324566511	1.524933583
40° 58′ 50″	0.65580287	0.75493218	0.868691096	1.151157189	1.324622294	1.524848475
40° 59′ 00″	0.65583947	0.75490039	0.868776166	1.151044468	1.324678084	1.524763381
40° 59′ 10″	0.65587606	0.75486859	0.868861244	1.150931760	1.324733883	1.524678299
40° 59′ 20″	0.65591266	0.75483679	0.868946328	1.150819064	1.324789689	1.524593230
40° 59′ 30″	0.65594925	0.75480499	0.869031420	1.150706381	1.324845504	1.524508175
40° 59′ 40″	0.65598585	0.75477319	0.869116519	1.150593710	1.324901326	1.524423132
40° 59′ 50″	0.65602244	0.75474139	0.869201625	1.150481053	1.324957156	1.524338103
41° 00′ 00″	0.65605903	0.75470958	0.869286738	1.150368407	1.325012993	1.524253087
41° 00′ 10″	0.65609562	0.75467777	0.869371858	1.150255774	1.325068839	1.524168083
41° 00′ 20″	0.65613220	0.75464596	0.869456986	1.150143154	1.325124692	1.524083093
41° 00′ 30″	0.65616879	0.75461415	0.869542120	1.150030547	1.325180553	1.523998116
41° 00′ 40″	0.65620537	0.75458234	0.869627262	1.149917951	1.325236422	1.523913152
41° 00′ 50″	0.65624196	0.75455052	0.869712411	1.149805369	1.325292299	1.523828201
41° 01′ 00″	0.65627854	0.75451871	0.869797568	1.149692799	1.325348184	1.523743263
41° 01′ 10″	0.65631512	0.75448689	0.869882731	1.149580241	1.325404076	1.523658338
41° 01′ 20″	0.65635169	0.75445507	0.869967902	1.149467697	1.325459977	1.523573426
41° 01′ 30″	0.65638827	0.75442325	0.870053079	1.149355164	1.325515885	1.523488527
41° 01′ 40″	0.65642485	0.75439143	0.870138264	1.149242644	1.325571801	1.523403642
41° 01′ 50″	0.65646142	0.75435960	0.870223457	1.149130137	1.325627725	1.523318769
41° 02′ 00″	0.65649799	0.75432777	0.870308656	1.149017642	1.325683656	1.523233909
41° 02′ 10″	0.65653456	0.75429594	0.870393863	1.148905160	1.325739596	1.523149063
41° 02′ 20″	0.65657113	0.75426411	0.870479076	1.148792690	1.325795543	1.523064229
41° 02′ 30″	0.65660770	0.75423228	0.870564297	1.148680233	1.325851498	1.522979408
41° 02′ 40″	0.65664426	0.75420045	0.870649525	1.148567789	1.325907461	1.522894601
41° 02′ 50″	0.65668083	0.75416861	0.870734761	1.148455356	1.325963432	1.522809806
41° 03′ 00″	0.65671739	0.75413677	0.870820003	1.148342937	1.326019411	1.522725025
41° 03′ 10″	0.65675395	0.75410493	0.870905253	1.148230530	1.326075397	1.522640256
41° 03′ 20″	0.65679051	0.75407309	0.870990510	1.148118135	1.326131392	1.522555501
41° 03′ 30″	0.65682707	0.75404125	0.871075774	1.148005753	1.326187394	1.522470758
41° 03′ 40″	0.65686362	0.75400941	0.871161045	1.147893384	1.326243404	1.522386029
41° 03′ 50″	0.65690018	0.75397756	0.871246324	1.147781027	1.326299422	1.522301312
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308 41° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
41° 04′ 00″	0.65693673	0.75394571	0.871331610	1.147668682	1.326355448	1.522216609
41° 04′ 10″	0.65697328	0.75391386	0.871416902	1.147556350	1.326411481	1.522131918
41° 04′ 20″	0.65700983	0.75388201	0.871502203	1.147444031	1.326467523	1.522047241
41° 04′ 30″	0.65704638	0.75385015	0.871587510	1.147331723	1.326523572	1.521962576
41° 04′ 40″	0.65708293	0.75381830	0.871672825	1.147219429	1.326579629	1.521877925
41° 04′ 50″	0.65711947	0.75378644	0.871758146	1.147107147	1.326635694	1.521793286
41° 05′ 00″	0.65715602	0.75375458	0.871843475	1.146994877	1.326691767	1.521708661
41° 05′ 10″	0.65719256	0.75372272	0.871928812	1.146882620	1.326747848	1.521624048
41° 05′ 20″	0.65722910	0.75369086	0.872014155	1.146770376	1.326803937	1.521539449
41° 05′ 30″	0.65726564	0.75365900	0.872099506	1.146658144	1.326860033	1.521454862
41° 05′ 40″	0.65730218	0.75362713	0.872184863	1.146545924	1.326916137	1.521370289
41° 05′ 50″	0.65733871	0.75359526	0.872270228	1.146433717	1.326972250	1.521285728
41° 06′ 00″	0.65737525	0.75356339	0.872355601	1.146321522	1.327028370	1.521201181
41° 06′ 10″	0.65741178	0.75353152	0.872440980	1.146209340	1.327084498	1.521116646
41° 06′ 20″	0.65744831	0.75349965	0.872526367	1.146097170	1.327140634	1.521032124
41° 06′ 30″	0.65748484	0.75346777	0.872611761	1.145985013	1.327196777	1.520947616
41° 06′ 40″	0.65752137	0.75343590	0.872697162	1.145872868	1.327252929	1.520863120
41° 06′ 50″	0.65755790	0.75340402	0.872782571	1.145760736	1.327309088	1.520778637
41° 07′ 00″	0.65759442	0.75337214	0.872867986	1.145648616	1.327365255	1.520694167
41° 07′ 10″	0.65763094	0.75334026	0.872953409	1.145536508	1.327421431	1.520609710
41° 07′ 20″	0.65766747	0.75330837	0.873038839	1.145424413	1.327477614	1.520525267
41° 07′ 30″	0.65770399	0.75327649	0.873124276	1.145312331	1.327533805	1.520440836
41° 07′ 40″	0.65774051	0.75324460	0.873209721	1.145200261	1.327590003	1.520356418
41° 07′ 50″	0.65777702	0.75321271	0.873295173	1.145088203	1.327646210	1.520272013
41° 08′ 00″	0.65781354	0.75318082	0.873380632	1.144976158	1.327702425	1.520187620
41° 08′ 10″	0.65785005	0.75314893	0.873466098	1.144864125	1.327758647	1.520103241
41° 08′ 20″	0.65788657	0.75311703	0.873551572	1.144752104	1.327814877	1.520018875
41° 08′ 30″	0.65792308	0.75308514	0.873637052	1.144640097	1.327871115	1.519934522
41° 08′ 40″	0.65795959	0.75305324	0.873722540	1.144528101	1.327927362	1.519850181
41° 08′ 50″	0.65799610	0.75302134	0.873808036	1.144416118	1.327983616	1.519765854
41° 09′ 00″	0.65803260	0.75298944	0.873893538	1.144304147	1.328039877	1.519681540
41° 09′ 10″	0.65806911	0.75295753	0.873979048	1.144192189	1.328096147	1.519597238
41° 09′ 20″	0.65810561	0.75292563	0.874064565	1.144080243	1.328152425	1.519512949
41° 09′ 30″	0.65814211	0.75289372	0.874150089	1.143968310	1.328208710	1.519428674
41° 09′ 40″	0.65817861	0.75286181	0.874235620	1.143856389	1.328265004	1.519344411
41° 09′ 50″	0.65821511	0.75282990	0.874321159	1.143744481	1.328321305	1.519260161
41° 10′ 00″	0.65825161	0.75279799	0.874406705	1.143632584	1.328377614	1.519175924
41° 10′ 10″	0.65828811	0.75276608	0.874492258	1.143520701	1.328433931	1.519091700
41° 10′ 20″	0.65832460	0.75273416	0.874577819	1.143408829	1.328490256	1.519007489
41° 10′ 30″	0.65836109	0.75270224	0.874663387	1.143296970	1.328546589	1.518923291
41° 10′ 40″	0.65839759	0.75267033	0.874748962	1.143185124	1.328602930	1.518839105
41° 10′ 50″	0.65843408	0.75263840	0.874834544	1.143073290	1.328659279	1.518754933
41° 11′ 00″	0.65847056	0.75260648	0.874920133	1.142961468	1.328715635	1.518670773
41° 11′ 10″	0.65850705	0.75257456	0.875005730	1.142849659	1.328772000	1.518586627
41° 11′ 20″	0.65854354	0.75254263	0.875091334	1.142737862	1.328828372	1.518502493
41° 11′ 30″	0.65858002	0.75251070	0.875176945	1.142626077	1.328884753	1.518418372
41° 11′ 40″	0.65861650	0.75247877	0.875262564	1.142514305	1.328941141	1.518334264
41° 11′ 50″	0.65865298	0.75244684	0.875348190	1.142402545	1.328997537	1.518250169

309 41° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
41° 12′ 00″	0.65868946	0.75241491	0.875433823	1.142290798	1.329053941	1.518166087
41° 12′ 10″	0.65872594	0.75238297	0.875519463	1.142179063	1.329110353	1.518082017
41° 12′ 20″	0.65876241	0.75235104	0.875605111	1.142067340	1.329166773	1.517997961
41° 12′ 30″	0.65879889	0.75231910	0.875690766	1.141955630	1.329223201	1.517913917
41° 12′ 40″	0.65883536	0.75228716	0.875776428	1.141843932	1.329279636	1.517829887
41° 12′ 50″	0.65887183	0.75225522	0.875862097	1.141732246	1.329336080	1.517745869
41° 13′ 00″	0.65890830	0.75222327	0.875947774	1.141620573	1.329392532	1.517661864
41° 13′ 10″	0.65894477	0.75219133	0.876033458	1.141508912	1.329448991	1.517577872
41° 13′ 20″	0.65898124	0.75215938	0.876119150	1.141397264	1.329505458	1.517493893
41° 13′ 30″	0.65901770	0.75212743	0.876204848	1.141285628	1.329561934	1.517409926
41° 13′ 40″	0.65905416	0.75209548	0.876290554	1.141174004	1.329618417	1.517325973
41° 13′ 50″	0.65909063	0.75206353	0.876376267	1.141062392	1.329674908	1.517242032
41° 14′ 00″	0.65912709	0.75203157	0.876461987	1.140950793	1.329731407	1.517158104
41° 14′ 10″	0.65916354	0.75199962	0.876547715	1.140839207	1.329787914	1.517074189
41° 14′ 20″	0.65920000	0.75196766	0.876633450	1.140727632	1.329844429	1.516990287
41° 14′ 30″	0.65923646	0.75193570	0.876719192	1.140616070	1.329900952	1.516906398
41° 14′ 40″	0.65927291	0.75190374	0.876804942	1.140504521	1.329957483	1.516822521
41° 14′ 50″	0.65930936	0.75187177	0.876890699	1.140392983	1.330014022	1.516738658
41° 15′ 00″	0.65934582	0.75183981	0.876976463	1.140281458	1.330070568	1.516654807
41° 15′ 10″	0.65938226	0.75180784	0.877062234	1.140169945	1.330127123	1.516570969
41° 15′ 20″	0.65941871	0.75177587	0.877148013	1.140058445	1.330183685	1.516487144
41° 15′ 30″	0.65945516	0.75174390	0.877233799	1.139946957	1.330240256	1.516403332
41° 15′ 40″	0.65949160	0.75171193	0.877319593	1.139835481	1.330296834	1.516319532
41° 15′ 50″	0.65952805	0.75167996	0.877405393	1.139724018	1.330353421	1.516235746
41° 16′ 00″	0.65956449	0.75164798	0.877491201	1.139612567	1.330410015	1.516151972
41° 16′ 10″	0.65960093	0.75161600	0.877577016	1.139501128	1.330466617	1.516068211
41° 16′ 20″	0.65963737	0.75158402	0.877662839	1.139389702	1.330523227	1.515984463
41° 16′ 30″	0.65967380	0.75155204	0.877748669	1.139278287	1.330579846	1.515900728
41° 16′ 40″	0.65971024	0.75152006	0.877834506	1.139166886	1.330636472	1.515817005
41° 16′ 50″	0.65974667	0.75148807	0.877920350	1.139055496	1.330693106	1.515733295
41° 17′ 00″	0.65978311	0.75145609	0.878006202	1.138944119	1.330749748	1.515649599
41° 17′ 10″	0.65981954	0.75142410	0.878092061	1.138832754	1.330806398	1.515565914
41° 17′ 20″	0.65985597	0.75139211	0.878177927	1.138721401	1.330863055	1.515482243
41° 17′ 30″	0.65989239	0.75136012	0.878263801	1.138610061	1.330919721	1.515398585
41° 17′ 40″	0.65992882	0.75132813	0.878349682	1.138498733	1.330976395	1.515314939
41° 17′ 50″	0.65996524	0.75129613	0.878435570	1.138387417	1.331033077	1.515231306
41° 18′ 00″	0.66000167	0.75126413	0.878521466	1.138276113	1.331089766	1.515147686
41° 18′ 10″	0.66003809	0.75123213	0.878607369	1.138164822	1.331146464	1.515064079
41° 18′ 20″	0.66007451	0.75120013	0.878693279	1.138053543	1.331203170	1.514980484
41° 18′ 30″	0.66011093	0.75116813	0.878779197	1.137942277	1.331259883	1.514896902
41° 18′ 40″	0.66014734	0.75113613	0.878865122	1.137831022	1.331316605	1.514813334
41° 18′ 50″	0.66018376	0.75110412	0.878951054	1.137719780	1.331373334	1.514729777
41° 19′ 00″	0.66022017	0.75107212	0.879036994	1.137608550	1.331430072	1.514646234
41° 19′ 10″	0.66025659	0.75104011	0.879122940	1.137497333	1.331486817	1.514562703
41° 19′ 20″	0.66029300	0.75100809	0.879208895	1.137386128	1.331543571	1.514479185
41° 19′ 30″	0.66032941	0.75097608	0.879294856	1.137274935	1.331600332	1.514395680
41° 19′ 40″ 41° 19′ 50″	0.66036581	0.75094407	0.879380825	1.137163754	1.331657101	1.514312188
41 17 30"	0.66040222	0.75091205	0.879466801	1.137052585	1.331713879	1.514228709

310 41° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
41° 20′ 00″	0.66043862	0.75088003	0.879552785	1.136941429	1.331770664	1.514145242
41° 20′ 10″	0.66047503	0.75084801	0.879638776	1.136830285	1.331827457	1.514061788
41° 20′ 20″	0.66051143	0.75081599	0.879724774	1.136719153	1.331884258	1.513978346
41° 20′ 30″	0.66054783	0.75078397	0.879810779	1.136608034	1.331941068	1.513894918
41° 20′ 40″	0.66058423	0.75075194	0.879896792	1.136496927	1.331997885	1.513811502
41° 20′ 50″	0.66062062	0.75071992	0.879982812	1.136385832	1.332054710	1.513728099
41° 21′ 00″	0.66065702	0.75068789	0.880068840	1.136274749	1.332111543	1.513644709
41° 21′ 10″	0.66069341	0.75065586	0.880154875	1.136163678	1.332168384	1.513561331
41° 21′ 20″	0.66072980	0.75062382	0.880240917	1.136052620	1.332225233	1.513477967
41° 21′ 30″	0.66076619	0.75059179	0.880326967	1.135941574	1.332282090	1.513394615
41° 21′ 40″	0.66080258	0.75055976	0.880413024	1.135830540	1.332338955	1.513311275
41° 21′ 50″	0.66083897	0.75052772	0.880499088	1.135719518	1.332395828	1.513227949
41° 22′ 00″	0.66087536	0.75049568	0.880585159	1.135608509	1.332452709	1.513144635
41° 22′ 10″	0.66091174	0.75046364	0.880671238	1.135497512	1.332509598	1.513061334
41° 22′ 20″	0.66094812	0.75043159	0.880757325	1.135386527	1.332566496	1.512978045
41° 22′ 30″	0.66098450	0.75039955	0.880843418	1.135275554	1.332623401	1.512894770
41° 22′ 40″	0.66102088	0.75036750	0.880929519	1.135164594	1.332680314	1.512811507
41° 22′ 50″	0.66105726	0.75033546	0.881015628	1.135053646	1.332737235	1.512728257
41° 23′ 00″	0.66109364	0.75030341	0.881101743	1.134942709	1.332794164	1.512645019
41° 23′ 10″	0.66113001	0.75027135	0.881187867	1.134831786	1.332851101	1.512561794
41° 23′ 20″	0.66116639	0.75023930	0.881273997	1.134720874	1.332908045	1.512478582
41° 23′ 30″	0.66120276	0.75020725	0.881360135	1.134609974	1.332964998	1.512395383
41° 23′ 40″	0.66123913	0.75017519	0.881446280	1.134499087	1.333021959	1.512312196
41° 23′ 50″	0.66127550	0.75014313	0.881532432	1.134388212	1.333078928	1.512229022
41° 24′ 00″	0.66131187	0.75011107	0.881618592	1.134277349	1.333135905	1.512145861
41° 24′ 10″	0.66134823	0.75007901	0.881704760	1.134166499	1.333192890	1.512062712
41° 24′ 20″	0.66138460	0.75004694	0.881790934	1.134055660	1.333249883	1.511979577
41° 24′ 30″	0.66142096	0.75001488	0.881877116	1.133944834	1.333306884	1.511896453
41° 24′ 40″	0.66145732	0.74998281	0.881963306	1.133834020	1.333363893	1.511813343
41° 24′ 50″	0.66149368	0.74995074	0.882049502	1.133723218	1.333420911	1.511730245
41° 25′ 00″	0.66153004	0.74991867	0.882135706	1.133612428	1.333477936	1.511647160
41° 25′ 10″	0.66156639	0.74988660	0.882221918	1.133501650	1.333534969	1.511564088
41° 25′ 20″	0.66160275	0.74985452	0.882308137	1.133390885	1.333592010	1.511481028
41° 25′ 30″	0.66163910	0.74982245	0.882394363	1.133280132	1.333649059	1.511397981
41° 25′ 40″	0.66167545	0.74979037	0.882480597	1.133169391	1.333706116	1.511314947
41° 25′ 50″ 41° 26′ 00″	0.66171180	0.74975829	0.882566838	1.133058662	1.333763181	1.511231925
	0.66174815	0.74972621	0.882653086	1.132947945	1.333820254	1.511148916
41° 26′ 10″	0.66178450	0.74969412	0.882739342	1.132837241	1.333877335	1.511065920
41° 26′ 20″ 41° 26′ 30″	0.66182084	0.74966204	0.882825605	1.132726548 1.132615868	1.333934424	1.510982936
41° 26′ 30″ 41° 26′ 40″	0.66185719	0.74962995	0.882911875		1.333991522	1.510899965 1.510817007
41° 26′ 40″ 41° 26′ 50″	0.66189353	0.74959786	0.882998153 0.883084439	1.132505200 1.132394544	1.334048627 1.334105740	1.510817007
41° 26′ 30″ 41° 27′ 00″	0.66192987	0.74956577 0.74953368	0.883170731	1.132394344	1.334162861	
41° 27′ 10″ 41° 27′ 10″	0.66200255	0.74953368	0.883170731	1.132283900	1.334162861	1.510651128 1.510568208
41° 27′ 10″ 41° 27′ 20″	0.66203888	0.74930139	0.883343339	1.1321/3268	1.334277128	1.510568208
41° 27′ 30″	0.66207522	0.74946949	0.883429654	1.132062649	1.334277126	1.510403300
41° 27′ 40″	0.66211155	0.74943739	0.883515976	1.131732042	1.334334273	1.510402405
41° 27′ 50″	0.66211733	0.74940329	0.883602306	1.131730863	1.334448588	1.510317322
=======================================	0.00214700	0.17/3/31/	0.003002300	1.131/30003	1,337770300	1.51025055

311 41° 27′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
41° 28′ 00″	0.66218421	0.74934109	0.883688643	1.131620292	1.334505758	1.510153795
41° 28′ 10″	0.66222054	0.74930899	0.883774987	1.131509733	1.334562935	1.510070951
41° 28′ 20″	0.66225687	0.74927688	0.883861339	1.131399187	1.334620121	1.509988119
41° 28′ 30″	0.66229319	0.74924477	0.883947698	1.131288652	1.334677314	1.509905300
41° 28′ 40″	0.66232952	0.74921266	0.884034065	1.131178130	1.334734516	1.509822493
41° 28′ 50″	0.66236584	0.74918055	0.884120439	1.131067619	1.334791725	1.509739699
41° 29′ 00″	0.66240216	0.74914844	0.884206820	1.130957121	1.334848943	1.509656918
41° 29′ 10″	0.66243848	0.74911632	0.884293209	1.130846635	1.334906169	1.509574149
41° 29′ 20″	0.66247479	0.74908421	0.884379605	1.130736161	1.334963403	1.509491393
41° 29′ 30″	0.66251111	0.74905209	0.884466009	1.130625699	1.335020644	1.509408650
41° 29′ 40″	0.66254742	0.74901997	0.884552420	1.130515250	1.335077894	1.509325919
41° 29′ 50″	0.66258374	0.74898784	0.884638839	1.130404812	1.335135152	1.509243201
41° 30′ 00″	0.66262005	0.74895572	0.884725265	1.130294386	1.335192418	1.509160495
41° 30′ 10″	0.66265636	0.74892360	0.884811698	1.130183973	1.335249692	1.509077802
41° 30′ 20″	0.66269267	0.74889147	0.884898139	1.130073572	1.335306974	1.508995122
41° 30′ 30″	0.66272897	0.74885934	0.884984587	1.129963182	1.335364264	1.508912454
41° 30′ 40″	0.66276528	0.74882721	0.885071042	1.129852805	1.335421563	1.508829799
41° 30′ 50″	0.66280158	0.74879508	0.885157505	1.129742440	1.335478869	1.508747156
41° 31′ 00″	0.66283788	0.74876294	0.885243976	1.129632087	1.335536183	1.508664526
41° 31′ 10″	0.66287418	0.74873080	0.885330454	1.129521746	1.335593506	1.508581909
41° 31′ 20″	0.66291048	0.74869867	0.885416939	1.129411418	1.335650836	1.508499304
41° 31′ 30″	0.66294678	0.74866653	0.885503432	1.129301101	1.335708174	1.508416712
41° 31′ 40″	0.66298307	0.74863439	0.885589932	1.129190796	1.335765521	1.508334132
41° 31′ 50″	0.66301937	0.74860224	0.885676439	1.129080504	1.335822876	1.508251565
41° 32′ 00″	0.66305566	0.74857010	0.885762954	1.128970223	1.335880238	1.508169011
41° 32′ 10″	0.66309195	0.74853795	0.885849477	1.128859955	1.335937609	1.508086469
41° 32′ 20″	0.66312824	0.74850580	0.885936006	1.128749698	1.335994988	1.508003939
41° 32′ 30″	0.66316453	0.74847365	0.886022544	1.128639454	1.336052375	1.507921423
41° 32′ 40″	0.66320082	0.74844150	0.886109088	1.128529222	1.336109770	1.507838919
41° 32′ 50″	0.66323710	0.74840935	0.886195641	1.128419002	1.336167173	1.507756427
41° 33′ 00″	0.66327338	0.74837719	0.886282200	1.128308794	1.336224584	1.507673948
41° 33′ 10″	0.66330966	0.74834503	0.886368767	1.128198598	1.336282003	1.507591482
41° 33′ 20″	0.66334594	0.74831287	0.886455342	1.128088414	1.336339430	1.507509028
41° 33′ 30″	0.66338222	0.74828071	0.886541923	1.127978242	1.336396865	1.507426587
41° 33′ 40″	0.66341850	0.74824855	0.886628513	1.127868082	1.336454309	1.507344158
41° 33′ 50″	0.66345478	0.74821639	0.886715110	1.127757934	1.336511760	1.507261742
41° 34′ 00″	0.66349105	0.74818422	0.886801714	1.127647798	1.336569220	1.507179338
41° 34′ 10″	0.66352732	0.74815205	0.886888325	1.127537674	1.336626688	1.507096947
41° 34′ 20″	0.66356359	0.74811988	0.886974945	1.127427563	1.336684163	1.507014568
41° 34′ 30″	0.66359986	0.74808771	0.887061571	1.127317463	1.336741647	1.506932202
41° 34′ 40″	0.66363613	0.74805554	0.887148205	1.127207375	1.336799139	1.506849849
41° 34′ 50″	0.66367239	0.74802336	0.887234847	1.127097300	1.336856639	1.506767508
41° 35′ 00″	0.66370866	0.74799119	0.887321496	1.126987236	1.336914147	1.506685180
41° 35′ 10″	0.66374492	0.74795901	0.887408152	1.126877185	1.336971663	1.506602864
41° 35′ 20″ 41° 35′ 30″	0.66378118	0.74792683	0.887494816	1.126767145	1.337029187	1.506520561
41° 35′ 30″ 41° 35′ 40″	0.66381744	0.74789465	0.887581487	1.126657118 1.126547102	1.337086720	1.506438270
41° 35′ 40″ 41° 35′ 50″	0.66385370	0.74786246 0.74783028	0.887668166 0.887754852	1.126547102	1.337144260 1.337201809	1.506355992 1.506273726
41 33 30	0.00300776	0.74703040	0.00//34032	1.14043/077	1.33/201007	1.3002/3/20

312 41° 35′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
41° 36′ 00″	0.66392621	0.74779809	0.887841546	1.126327107	1.337259365	1.506191473
41° 36′ 10″	0.66396247	0.74776590	0.887928247	1.126217128	1.337316930	1.506109232
41° 36′ 20″	0.66399872	0.74773371	0.888014956	1.126107160	1.337374503	1.506027004
41° 36′ 30″	0.66403497	0.74770152	0.888101672	1.125997205	1.337432084	1.505944788
41° 36′ 40″	0.66407122	0.74766932	0.888188395	1.125887261	1.337489673	1.505862585
41° 36′ 50″	0.66410746	0.74763713	0.888275126	1.125777330	1.337547270	1.505780395
41° 37′ 00″	0.66414371	0.74760493	0.888361865	1.125667411	1.337604875	1.505698217
41° 37′ 10″	0.66417995	0.74757273	0.888448611	1.125557503	1.337662489	1.505616051
41° 37′ 20″	0.66421620	0.74754053	0.888535364	1.125447608	1.337720110	1.505533898
41° 37′ 30″	0.66425244	0.74750833	0.888622125	1.125337724	1.337777740	1.505451757
41° 37′ 40″	0.66428868	0.74747612	0.888708893	1.125227853	1.337835377	1.505369629
41° 37′ 50″	0.66432492	0.74744392	0.888795669	1.125117993	1.337893023	1.505287514
41° 38′ 00″	0.66436115	0.74741171	0.888882453	1.125008146	1.337950677	1.505205411
41° 38′ 10″	0.66439739	0.74737950	0.888969243	1.124898310	1.338008339	1.505123320
41° 38′ 20″	0.66443362	0.74734729	0.889056042	1.124788487	1.338066009	1.505041242
41° 38′ 30″	0.66446985	0.74731507	0.889142848	1.124678675	1.338123688	1.504959176
41° 38′ 40″	0.66450608	0.74728286	0.889229661	1.124568876	1.338181374	1.504877123
41° 38′ 50″	0.66454231	0.74725064	0.889316482	1.124459088	1.338239068	1.504795083
41° 39′ 00″	0.66457854	0.74721842	0.889403310	1.124349313	1.338296771	1.504713055
41° 39′ 10″	0.66461476	0.74718620	0.889490146	1.124239549	1.338354482	1.504631039
41° 39′ 20″	0.66465099	0.74715398	0.889576989	1.124129797	1.338412201	1.504549036
41° 39′ 30″	0.66468721	0.74712175	0.889663839	1.124020058	1.338469928	1.504467045
41° 39′ 40″	0.66472343	0.74708953	0.889750698	1.123910330	1.338527663	1.504385067
41° 39′ 50″	0.66475965	0.74705730	0.889837563	1.123800614	1.338585406	1.504303101
41° 40′ 00″	0.66479587	0.74702507	0.889924437	1.123690910	1.338643157	1.504221148
41° 40′ 10″	0.66483208	0.74699284	0.890011317	1.123581218	1.338700917	1.504139207
41° 40′ 20″	0.66486830	0.74696061	0.890098205	1.123471538	1.338758684	1.504057279
41° 40′ 30″	0.66490451	0.74692837	0.890185101	1.123361870	1.338816460	1.503975363
41° 40′ 40″	0.66494072	0.74689614	0.890272004	1.123252214	1.338874244	1.503893459
41° 40′ 50″	0.66497693	0.74686390	0.890358915	1.123142570	1.338932036	1.503811568
41° 41′ 00″	0.66501314	0.74683166	0.890445833	1.123032938	1.338989836	1.503729690
41° 41′ 10″	0.66504934	0.74679942	0.890532759	1.122923318	1.339047645	1.503647824
41° 41′ 20″	0.66508555	0.74676717	0.890619692	1.122813709	1.339105461	1.503565970
41° 41′ 30″	0.66512175	0.74673493	0.890706633	1.122704113	1.339163286	1.503484129
41° 41′ 40″	0.66515796	0.74670268	0.890793581	1.122594528	1.339221118	1.503402300
41° 41′ 50″	0.66519416	0.74667043	0.890880537	1.122484956	1.339278959	1.503320484
41° 42′ 00″	0.66523035	0.74663818	0.890967500	1.122375395	1.339336808	1.503238680
41° 42′ 10″	0.66526655	0.74660593	0.891054471	1.122265847	1.339394665	1.503156888
41° 42′ 20″	0.66530275	0.74657368	0.891141449	1.122156310	1.339452531	1.503075109
41° 42′ 30″	0.66533894	0.74654142	0.891228435	1.122046785	1.339510404	1.502993343
41° 42′ 40″	0.66537513	0.74650916	0.891315428	1.121937272	1.339568286	1.502911588
41° 42′ 50″	0.66541133	0.74647690	0.891402429	1.121827771	1.339626176	1.502829847
41° 43′ 00″	0.66544751	0.74644464	0.891489437	1.121718282	1.339684073	1.502748117
41° 43′ 10″	0.66548370	0.74641238	0.891576453	1.121608805	1.339741980	1.502666400
41° 43′ 20″	0.66551989	0.74638012	0.891663476	1.121499340	1.339799894	1.502584696
41° 43′ 30″	0.66555607	0.74634785	0.891750507	1.121389886	1.339857816	1.502503004
41° 43′ 40″	0.66559226	0.74631558	0.891837546	1.121280445	1.339915747	1.502421324
41° 43′ 50″	0.66562844	0.74628331	0.891924592	1.121171015	1.339973685	1.502339657
	1 3.000000011	3220001		2		

313 41° 43′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
41° 44′ 00″	0.66566462	0.74625104	0.892011645	1.121061597	1.340031632	1.502258002
41° 44′ 10″	0.66570080	0.74621877	0.892098706	1.120952192	1.340089587	1.502176360
41° 44′ 20″	0.66573697	0.74618649	0.892185775	1.120842798	1.340147550	1.502094730
41° 44′ 30″	0.66577315	0.74615422	0.892272851	1.120733416	1.340205522	1.502013112
41° 44′ 40″	0.66580932	0.74612194	0.892359935	1.120624046	1.340263501	1.501931507
41° 44′ 50″	0.66584550	0.74608966	0.892447026	1.120514687	1.340321489	1.501849914
41° 45′ 00″	0.66588167	0.74605738	0.892534124	1.120405341	1.340379485	1.501768334
41° 45′ 10″	0.66591784	0.74602509	0.892621231	1.120296007	1.340437489	1.501686766
41° 45′ 20″	0.66595400	0.74599281	0.892708344	1.120186684	1.340495501	1.501605210
41° 45′ 30″	0.66599017	0.74596052	0.892795466	1.120077373	1.340553521	1.501523667
41° 45′ 40″	0.66602633	0.74592823	0.892882595	1.119968074	1.340611550	1.501442136
41° 45′ 50″	0.66606250	0.74589594	0.892969731	1.119858787	1.340669587	1.501360617
41° 46′ 00″	0.66609866	0.74586365	0.893056875	1.119749512	1.340727631	1.501279111
41° 46′ 10″	0.66613482	0.74583135	0.893144026	1.119640249	1.340785685	1.501197618
41° 46′ 20″	0.66617097	0.74579906	0.893231185	1.119530998	1.340843746	1.501116136
41° 46′ 30″	0.66620713	0.74576676	0.893318352	1.119421758	1.340901815	1.501034667
41° 46′ 40″	0.66624329	0.74573446	0.893405526	1.119312530	1.340959893	1.500953211
41° 46′ 50″	0.66627944	0.74570216	0.893492708	1.119203314	1.341017979	1.500871766
41° 47′ 00″	0.66631559	0.74566985	0.893579897	1.119094110	1.341076073	1.500790334
41° 47′ 10″	0.66635174	0.74563755	0.893667094	1.118984918	1.341134175	1.500708915
41° 47′ 20″	0.66638789	0.74560524	0.893754298	1.118875738	1.341192285	1.500627508
41° 47′ 30″	0.66642404	0.74557294	0.893841510	1.118766570	1.341250404	1.500546113
41° 47′ 40″	0.66646018	0.74554062	0.893928730	1.118657413	1.341308530	1.500464731
41° 47′ 50″	0.66649633	0.74550831	0.894015957	1.118548268	1.341366665	1.500383360
41° 48′ 00″	0.66653247	0.74547600	0.894103191	1.118439135	1.341424808	1.500302003
41° 48′ 10″	0.66656861	0.74544368	0.894190433	1.118330014	1.341482960	1.500220657
41° 48′ 20″	0.66660475	0.74541137	0.894277683	1.118220905	1.341541119	1.500139324
41° 48′ 30″	0.66664089	0.74537905	0.894364940	1.118111808	1.341599287	1.500058004
41° 48′ 40″	0.66667702	0.74534673	0.894452205	1.118002722	1.341657463	1.499976695
41° 48′ 50″	0.66671316	0.74531441	0.894539478	1.117893648	1.341715647	1.499895399
41° 49′ 00″	0.66674929	0.74528208	0.894626758	1.117784586	1.341773839	1.499814116
41° 49′ 10″	0.66678542	0.74524976	0.894714045	1.117675536	1.341832040	1.499732844
41° 49′ 20″	0.66682155	0.74521743	0.894801340	1.117566498	1.341890248	1.499651585
41° 49′ 30″	0.66685768	0.74518510	0.894888643	1.117457471	1.341948465	1.499570338
41° 49′ 40″	0.66689381	0.74515277	0.894975953	1.117348457	1.342006690	1.499489104
41° 49′ 50″	0.66692993	0.74512044	0.895063271	1.117239454	1.342064924	1.499407882
41° 50′ 00″	0.66696606	0.74508810	0.895150597	1.117130463	1.342123165	1.499326672
41° 50′ 10″	0.66700218	0.74505576	0.895237930	1.117021483	1.342181415	1.499245475
41° 50′ 20″	0.66703830	0.74502343	0.895325270	1.116912516	1.342239673	1.499164290
41° 50′ 30″	0.66707442	0.74499109	0.895412618	1.116803560	1.342297939	1.499083117
41° 50′ 40″	0.66711054	0.74495874	0.895499974	1.116694616	1.342356213	1.499001957
41° 50′ 50″ 41° 51′ 00″	0.66714665	0.74492640	0.895587337	1.116585684	1.342414496	1.498920809
41° 51′ 00″ 41° 51′ 10″	0.66718277	0.74489406	0.895674708 0.895762087	1.116476764	1.342472787	1.498839673 1.498758549
41° 51′ 10″ 41° 51′ 20″	0.66721888	0.74486171	0.895762087	1.116367856	1.342531086	
41° 51′ 30″	0.66725499	0.74482936	0.895849473	1.116258959	1.342589393	1.498677438
41° 51′ 40″	0.66729110	0.74479701		1.116150074 1.116041201	1.342647708	1.498596339
41° 51′ 40″ 41° 51′ 50″	0.66736331	0.74476466 0.74473231	0.896024268 0.896111677	1.115932339	1.342706032 1.342764364	1.498515252 1.498434178
	0.00/30331	0.7 77/ 3231	0.0701110//	1.113/34337	1,374/04304	1,7/07/41/0

314 41° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
41° 52′ 00″	0.66739942	0.74469995	0.896199093	1.115823490	1.342822704	1.498353116
41° 52′ 10″	0.66743552	0.74466759	0.896286517	1.115714652	1.342881053	1.498272066
41° 52′ 20″	0.66747162	0.74463523	0.896373949	1.115605826	1.342939409	1.498191029
41° 52′ 30″	0.66750772	0.74460287	0.896461388	1.115497012	1.342997774	1.498110004
41° 52′ 40″	0.66754382	0.74457051	0.896548835	1.115388209	1.343056147	1.498028991
41° 52′ 50″	0.66757992	0.74453815	0.896636290	1.115279419	1.343114528	1.497947990
41° 53′ 00″	0.66761602	0.74450578	0.896723752	1.115170640	1.343172918	1.497867002
41° 53′ 10″	0.66765211	0.74447341	0.896811222	1.115061872	1.343231316	1.497786026
41° 53′ 20″	0.66768820	0.74444104	0.896898699	1.114953117	1.343289722	1.497705062
41° 53′ 30″	0.66772429	0.74440867	0.896986184	1.114844373	1.343348136	1.497624111
41° 53′ 40″	0.66776038	0.74437630	0.897073676	1.114735641	1.343406558	1.497543171
41° 53′ 50″	0.66779647	0.74434392	0.897161176	1.114626921	1.343464989	1.497462244
41° 54′ 00″	0.66783256	0.74431155	0.897248684	1.114518213	1.343523428	1.497381330
41° 54′ 10″	0.66786864	0.74427917	0.897336200	1.114409516	1.343581875	1.497300427
41° 54′ 20″	0.66790472	0.74424679	0.897423722	1.114300831	1.343640330	1.497219537
41° 54′ 30″	0.66794080	0.74421441	0.897511253	1.114192158	1.343698794	1.497138659
41° 54′ 40″	0.66797688	0.74418202	0.897598791	1.114083497	1.343757266	1.497057794
41° 54′ 50″	0.66801296	0.74414964	0.897686337	1.113974847	1.343815746	1.496976940
41° 55′ 00″	0.66804904	0.74411725	0.897773891	1.113866209	1.343874235	1.496896099
41° 55′ 10″	0.66808511	0.74408486	0.897861452	1.113757583	1.343932731	1.496815270
41° 55′ 20″	0.66812119	0.74405247	0.897949020	1.113648968	1.343991236	1.496734454
41° 55′ 30″	0.66815726	0.74402008	0.898036597	1.113540365	1.344049749	1.496653649
41° 55′ 40″	0.66819333	0.74398768	0.898124181	1.113431774	1.344108271	1.496572857
41° 55′ 50″	0.66822940	0.74395529	0.898211772	1.113323195	1.344166800	1.496492077
41° 56′ 00″	0.66826547	0.74392289	0.898299371	1.113214627	1.344225338	1.496411309
41° 56′ 10″	0.66830153	0.74389049	0.898386978	1.113106072	1.344283885	1.496330554
41° 56′ 20″	0.66833759	0.74385809	0.898474593	1.112997527	1.344342439	1.496249811
41° 56′ 30″	0.66837366	0.74382569	0.898562215	1.112888995	1.344401002	1.496169080
41° 56′ 40″	0.66840972	0.74379328	0.898649844	1.112780474	1.344459573	1.496088361
41° 56′ 50″	0.66844578	0.74376088	0.898737482	1.112671965	1.344518152	1.496007654
41° 57′ 00″	0.66848184	0.74372847	0.898825127	1.112563468	1.344576740	1.495926960
41° 57′ 10″	0.66851789	0.74369606	0.898912779	1.112454982	1.344635335	1.495846278
41° 57′ 20″ 41° 57′ 30″	0.66855395	0.74366365	0.899000440	1.112346508	1.344693939	1.495765608
41° 57′ 40″	0.66859000	0.74363123 0.74359882	0.899088108 0.899175783	1.112238046 1.112129596	1.344752552 1.344811172	1.495684950 1.495604305
41° 57′ 40″ 41° 57′ 50″	0.66866210	0.74359882	0.8991/3/83	1.112129396	1.344869801	1.495523672
41° 58′ 00″	0.66869815	0.74353398	0.899351157	1.112021137	1.344928438	1.495443051
41° 58′ 10″	0.66873420	0.74353576	0.899438856	1.111804314	1.344987084	1.495362442
41° 58′ 20″	0.66877024	0.74336136	0.899526562	1.111695910	1.345045737	1.495281845
41° 58′ 30″	0.66880628	0.74343672	0.899614276	1.111587518	1.345104399	1.495201261
41° 58′ 40″	0.66884233	0.74340429	0.899701997	1.111479138	1.345163070	1.495120689
41° 58′ 50″	0.66887837	0.74337187	0.899789726	1.111370769	1.345221748	1.495040129
41° 59′ 00″	0.66891441	0.74333944	0.899877463	1.111262412	1.345280435	1.494959581
41° 59′ 10″	0.66895044	0.74330701	0.899965207	1.111154067	1.345339130	1.494879045
41° 59′ 20″	0.66898648	0.74327457	0.900052959	1.1111045733	1.345397833	1.494798522
41° 59′ 30″	0.66902251	0.74324214	0.900140719	1.110937411	1.345456545	1.494718011
41° 59′ 40″	0.66905855	0.74320970	0.900228487	1.110829101	1.345515265	1.494637511
41° 59′ 50″	0.66909458	0.74317726	0.900316262	1.110720802	1.345573993	1.494557025
	1 2.22.07 100	3				

315 41° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
42° 00′ 00″	0.66913061	0.74314483	0.900404044	1.110612515	1.345632730	1.494476550
42° 00′ 10″	0.66916663	0.74311238	0.900491835	1.110504239	1.345691474	1.494396087
42° 00′ 20″	0.66920266	0.74307994	0.900579633	1.110395976	1.345750228	1.494315637
42° 00′ 30″	0.66923869	0.74304750	0.900667438	1.110287724	1.345808989	1.494235199
42° 00′ 40″	0.66927471	0.74301505	0.900755252	1.110179483	1.345867759	1.494154773
42° 00′ 50″	0.66931073	0.74298260	0.900843073	1.110071255	1.345926537	1.494074359
42° 01′ 00″	0.66934675	0.74295015	0.900930902	1.109963037	1.345985323	1.493993957
42° 01′ 10″	0.66938277	0.74291770	0.901018738	1.109854832	1.346044117	1.493913568
42° 01′ 20″	0.66941879	0.74288525	0.901106582	1.109746638	1.346102920	1.493833190
42° 01′ 30″	0.66945480	0.74285279	0.901194434	1.109638456	1.346161732	1.493752825
42° 01′ 40″	0.66949081	0.74282033	0.901282293	1.109530285	1.346220551	1.493672472
42° 01′ 50″	0.66952683	0.74278788	0.901370160	1.109422127	1.346279379	1.493592131
42° 02′ 00″	0.66956284	0.74275542	0.901458035	1.109313979	1.346338215	1.493511803
42° 02′ 10″	0.66959885	0.74272295	0.901545918	1.109205844	1.346397059	1.493431486
42° 02′ 20″	0.66963485	0.74269049	0.901633808	1.109097720	1.346455912	1.493351182
42° 02′ 30″	0.66967086	0.74265802	0.901721705	1.108989607	1.346514773	1.493270889
42° 02′ 40″	0.66970686	0.74262556	0.901809611	1.108881506	1.346573642	1.493190609
42° 02′ 50″	0.66974287	0.74259309	0.901897524	1.108773417	1.346632520	1.493110341
42° 03′ 00″	0.66977887	0.74256062	0.901985445	1.108665340	1.346691406	1.493030085
42° 03′ 10″	0.66981487	0.74252814	0.902073374	1.108557274	1.346750300	1.492949842
42° 03′ 20″	0.66985087	0.74249567	0.902161310	1.108449220	1.346809203	1.492869610
42° 03′ 30″	0.66988686	0.74246319	0.902249254	1.108341177	1.346868114	1.492789391
42° 03′ 40″	0.66992286	0.74243071	0.902337206	1.108233146	1.346927033	1.492709183
42° 03′ 50″	0.66995885	0.74239824	0.902425165	1.108125127	1.346985961	1.492628988
42° 04′ 00″	0.66999484	0.74236575	0.902513132	1.108017119	1.347044897	1.492548805
42° 04′ 10″	0.67003083	0.74233327	0.902601107	1.107909122	1.347103841	1.492468634
42° 04′ 20″	0.67006682	0.74230079	0.902689089	1.107801138	1.347162793	1.492388475
42° 04′ 30″	0.67010281	0.74226830	0.902777079	1.107693165	1.347221754	1.492308328
42° 04′ 40″	0.67013879	0.74223581	0.902865077	1.107585203	1.347280723	1.492228194
42° 04′ 50″	0.67017478	0.74220332	0.902953083	1.107477253	1.347339701	1.492148071
42° 05′ 00″	0.67021076	0.74217083	0.903041096	1.107369315	1.347398687	1.492067961
42° 05′ 10″	0.67024674	0.74213834	0.903129117	1.107261389	1.347457681	1.491987863
42° 05′ 20″	0.67028272	0.74210584	0.903217146	1.107153473	1.347516683	1.491907777
42° 05′ 30″	0.67031870	0.74207334	0.903305182	1.107045570	1.347575694	1.491827703
42° 05′ 40″	0.67035467	0.74204084	0.903393226	1.106937678	1.347634713	1.491747641
42° 05′ 50″	0.67039065	0.74200834	0.903481278	1.106829798	1.347693741	1.491667591
42° 06′ 00″	0.67042662	0.74197584	0.903569337	1.106721929	1.347752777	1.491587553
42° 06′ 10″	0.67046259	0.74194334	0.903657405	1.106614072	1.347811821	1.491507527
42° 06′ 20″	0.67049856	0.74191083	0.903745480	1.106506226	1.347870874	1.491427514
42° 06′ 30″	0.67053453	0.74187832	0.903833562	1.106398392	1.347929934	1.491347512
42° 06′ 40″	0.67057049	0.74184581	0.903921653	1.106290570	1.347989004	1.491267523
42° 06′ 50″	0.67060646	0.74181330	0.904009751	1.106182759	1.348048081	1.491187545
42° 07′ 00″	0.67064242	0.74178079	0.904097857	1.106074959	1.348107167	1.491107580
42° 07′ 10″	0.67067838	0.74174828	0.904185970	1.105967172	1.348166261	1.491027627
42° 07′ 20″	0.67071434	0.74171576	0.904274091	1.105859395	1.348225364	1.490947686
42° 07′ 30″	0.67075030	0.74168324	0.904362220	1.105751631	1.348284475	1.490867757
42° 07′ 40″	0.67078626	0.74165072	0.904450357	1.105643878	1.348343594	1.490787840
42° 07′ 50″	0.67082222	0.74161820	0.904538502	1.105536136	1.348402722	1.490707935

316 42° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
42° 08′ 00″	0.67085817	0.74158568	0.904626654	1.105428406	1.348461858	1.490628042
42° 08′ 10″	0.67089412	0.74155315	0.904714814	1.105320688	1.348521003	1.490548162
42° 08′ 20″	0.67093007	0.74152063	0.904802981	1.105212981	1.348580155	1.490468293
42° 08′ 30″	0.67096602	0.74148810	0.904891157	1.105105285	1.348639316	1.490388436
42° 08′ 40″	0.67100197	0.74145557	0.904979340	1.104997601	1.348698486	1.490308592
42° 08′ 50″	0.67103792	0.74142303	0.905067531	1.104889929	1.348757664	1.490228759
42° 09′ 00″	0.67107386	0.74139050	0.905155729	1.104782268	1.348816850	1.490148939
42° 09′ 10″	0.67110980	0.74135797	0.905243936	1.104674619	1.348876044	1.490069131
42° 09′ 20″	0.67114574	0.74132543	0.905332150	1.104566981	1.348935247	1.489989334
42° 09′ 30″	0.67118168	0.74129289	0.905420372	1.104459355	1.348994459	1.489909550
42° 09′ 40″	0.67121762	0.74126035	0.905508601	1.104351741	1.349053678	1.489829778
42° 09′ 50″	0.67125356	0.74122781	0.905596839	1.104244137	1.349112906	1.489750018
42° 10′ 00″	0.67128949	0.74119526	0.905685084	1.104136546	1.349172143	1.489670270
42° 10′ 10″	0.67132543	0.74116272	0.905773337	1.104028966	1.349231388	1.489590533
42° 10′ 20″	0.67136136	0.74113017	0.905861597	1.103921397	1.349290641	1.489510809
42° 10′ 30″	0.67139729	0.74109762	0.905949866	1.103813840	1.349349902	1.489431097
42° 10′ 40″	0.67143322	0.74106507	0.906038142	1.103706295	1.349409172	1.489351397
42° 10′ 50″	0.67146914	0.74103252	0.906126425	1.103598761	1.349468451	1.489271709
42° 11′ 00″	0.67150507	0.74099996	0.906214717	1.103491238	1.349527737	1.489192033
42° 11′ 10″	0.67154099	0.74096740	0.906303016	1.103383727	1.349587032	1.489112369
42° 11′ 20″	0.67157692	0.74093485	0.906391324	1.103276227	1.349646336	1.489032718
42° 11′ 30″	0.67161284	0.74090229	0.906479638	1.103168739	1.349705648	1.488953078
42° 11′ 40″	0.67164876	0.74086972	0.906567961	1.103061263	1.349764968	1.488873450
42° 11′ 50″	0.67168467	0.74083716	0.906656291	1.102953798	1.349824296	1.488793834
42° 12′ 00″	0.67172059	0.74080460	0.906744630	1.102846344	1.349883633	1.488714230
42° 12′ 10″	0.67175650	0.74077203	0.906832976	1.102738902	1.349942979	1.488634638
42° 12′ 20″	0.67179242	0.74073946	0.906921329	1.102631472	1.350002332	1.488555058
42° 12′ 30″	0.67182833	0.74070689	0.907009691	1.102524053	1.350061695	1.488475491
42° 12′ 40″	0.67186424	0.74067432	0.907098060	1.102416645	1.350121065	1.488395935
42° 12′ 50″	0.67190015	0.74064174	0.907186437	1.102309249	1.350180444	1.488316391
42° 13′ 00″	0.67193605	0.74060917	0.907274822	1.102201864	1.350239831	1.488236859
42° 13′ 10″	0.67197196	0.74057659	0.907363214	1.102094491	1.350299227	1.488157339
42° 13′ 20″	0.67200786	0.74054401	0.907451615	1.101987129	1.350358631	1.488077832
42° 13′ 30″	0.67204376	0.74051143	0.907540023	1.101879779	1.350418044	1.487998336
42° 13′ 40″	0.67207966	0.74047885	0.907628439	1.101772440	1.350477465	1.487918852
42° 13′ 50″	0.67211556	0.74044627	0.907716863	1.101665113	1.350536894	1.487839380
42° 14′ 00″	0.67215146	0.74041368	0.907805294	1.101557797	1.350596332	1.487759920
42° 14′ 10″	0.67218735	0.74038109	0.907893733	1.101450493	1.350655778	1.487680472
42° 14′ 20″	0.67222325	0.74034850	0.907982180	1.101343200	1.350715233	1.487601037
42° 14′ 30″ 42° 14′ 40″	0.67225914	0.74031591	0.908070635	1.101235918	1.350774696	1.487521613
42° 14′ 40″ 42° 14′ 50″	0.67229503	0.74028332	0.908159098	1.101128648	1.350834167	1.487442201
42° 14′ 50″ 42° 15′ 00″	0.67233092	0.74025072	0.908247568	1.101021390	1.350893647	1.487362801
42° 15′ 00″ 42° 15′ 10″	0.67236681	0.74021813	0.908336046	1.100914143	1.350953135	1.487283413
42° 15′ 10″ 42° 15′ 20″	0.67240269	0.74018553 0.74015293	0.908424532	1.100806907	1.351012632	1.487204037
42° 15′ 20″ 42° 15′ 30″	0.67243858		0.908513026	1.100699683	1.351072137	1.487124673 1.487045321
42° 15′ 30″ 42° 15′ 40″	0.67247446 0.67251034	0.74012033 0.74008772	0.908601528 0.908690037	1.100592470 1.100485269	1.351131650 1.351191172	1.487045321
42° 15′ 40″ 42° 15′ 50″	0.67254622	0.74008772	0.908670037	1.100483269	1.351191172	1.486886652
1 4 13 30	0.07234622	0.74003312	0.700770334	1.1003/00/7	1.331230/02	1.400000032

317 42° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
42° 16′ 00″	0.67258210	0.74002251	0.908867079	1.100270901	1.351310241	1.486807336
42° 16′ 10″	0.67261798	0.73998990	0.908955612	1.100163734	1.351369788	1.486728032
42° 16′ 20″	0.67265385	0.73995729	0.909044153	1.100056578	1.351429344	1.486648740
42° 16′ 30″	0.67268972	0.73992468	0.909132701	1.099949434	1.351488908	1.486569459
42° 16′ 40″	0.67272560	0.73989207	0.909221257	1.099842301	1.351548480	1.486490191
42° 16′ 50″	0.67276147	0.73985945	0.909309821	1.099735180	1.351608061	1.486410934
42° 17′ 00″	0.67279734	0.73982684	0.909398393	1.099628070	1.351667651	1.486331690
42° 17′ 10″	0.67283320	0.73979422	0.909486973	1.099520972	1.351727248	1.486252457
42° 17′ 20″	0.67286907	0.73976160	0.909575560	1.099413885	1.351786854	1.486173237
42° 17′ 30″	0.67290493	0.73972897	0.909664156	1.099306809	1.351846469	1.486094028
42° 17′ 40″	0.67294079	0.73969635	0.909752759	1.099199745	1.351906092	1.486014831
42° 17′ 50″	0.67297665	0.73966372	0.909841369	1.099092692	1.351965724	1.485935646
42° 18′ 00″	0.67301251	0.73963109	0.909929988	1.098985651	1.352025363	1.485856474
42° 18′ 10″	0.67304837	0.73959847	0.910018615	1.098878621	1.352085012	1.485777313
42° 18′ 20″	0.67308423	0.73956583	0.910107249	1.098771602	1.352144669	1.485698164
42° 18′ 30″	0.67312008	0.73953320	0.910195891	1.098664595	1.352204334	1.485619026
42° 18′ 40″	0.67315593	0.73950057	0.910284541	1.098557599	1.352264007	1.485539901
42° 18′ 50″	0.67319179	0.73946793	0.910373199	1.098450615	1.352323690	1.485460788
42° 19′ 00″	0.67322763	0.73943529	0.910461865	1.098343642	1.352383380	1.485381687
42° 19′ 10″	0.67326348	0.73940265	0.910550538	1.098236680	1.352443079	1.485302597
42° 19′ 20″	0.67329933	0.73937001	0.910639219	1.098129730	1.352502787	1.485223520
42° 19′ 30″	0.67333517	0.73933737	0.910727909	1.098022791	1.352562503	1.485144454
42° 19′ 40″	0.67337102	0.73930472	0.910816605	1.097915864	1.352622227	1.485065400
42° 19′ 50″	0.67340686	0.73927208	0.910905310	1.097808948	1.352681960	1.484986359
42° 20′ 00″	0.67344270	0.73923943	0.910994023	1.097702043	1.352741701	1.484907329
42° 20′ 10″	0.67347854	0.73920678	0.911082743	1.097595150	1.352801451	1.484828311
42° 20′ 20″	0.67351438	0.73917412	0.911171472	1.097488268	1.352861209	1.484749305
42° 20′ 30″	0.67355021	0.73914147	0.911260208	1.097381397	1.352920976	1.484670310
42° 20′ 40″	0.67358604	0.73910882	0.911348952	1.097274538	1.352980751	1.484591328
42° 20′ 50″	0.67362188	0.73907616	0.911437704	1.097167690	1.353040534	1.484512358
42° 21′ 00″	0.67365771	0.73904350	0.911526463	1.097060854	1.353100326	1.484433399
42° 21′ 10″	0.67369354	0.73901084	0.911615231	1.096954029	1.353160127	1.484354453
42° 21′ 20″	0.67372936	0.73897818	0.911704006	1.096847215	1.353219936	1.484275518
42° 21′ 30″	0.67376519	0.73894551	0.911792789	1.096740413	1.353279753	1.484196595
42° 21′ 40″	0.67380101	0.73891285	0.911881580	1.096633622	1.353339579	1.484117684
42° 21′ 50″	0.67383684	0.73888018	0.911970379	1.096526842	1.353399414	1.484038785
42° 22′ 00″	0.67387266	0.73884751	0.912059186	1.096420074	1.353459256	1.483959898
42° 22′ 10″	0.67390848	0.73881484	0.912148001	1.096313317	1.353519108	1.483881022
42° 22′ 20″	0.67394430	0.73878216	0.912236823	1.096206571	1.353578968	1.483802159
42° 22′ 30″	0.67398011	0.73874949	0.912325654	1.096099837	1.353638836	1.483723307
42° 22′ 40″	0.67401593	0.73871681	0.912414492	1.095993114	1.353698713	1.483644467
42° 22′ 50″	0.67405174	0.73868414	0.912503338	1.095886402	1.353758598	1.483565640
42° 23′ 00″	0.67408755	0.73865146	0.912592192	1.095779702	1.353818492	1.483486824
42° 23′ 10″ 42° 23′ 20″	0.67412336	0.73861877	0.912681053	1.095673013	1.353878394	1.483408019
42° 23′ 20″ 42° 23′ 30″	0.67415917	0.73858609	0.912769923	1.095566336	1.353938305 1.353998224	1.483329227
42° 23′ 30″ 42° 23′ 40″	0.67419498	0.73855341	0.912858801 0.912947686	1.095459670		1.483250447
42° 23′ 40″ 42° 23′ 50″	0.67423078	0.73852072 0.73848803	0.912947686	1.095353015 1.095246371	1.354058151 1.354118088	1.483171678 1.483092921
=======================================	0.07420037	0.73040003	0./130303/7	1.073246371	1,334110000	1,403074741

318 42° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
42° 24′ 00″	0.67430239	0.73845534	0.913125480	1.095139739	1.354178032	1.483014176
42° 24′ 10″	0.67433819	0.73842265	0.913214389	1.095033118	1.354237985	1.482935443
42° 24′ 20″	0.67437399	0.73838995	0.913303306	1.094926508	1.354297947	1.482856722
42° 24′ 30″	0.67440978	0.73835726	0.913392231	1.094819910	1.354357917	1.482778013
42° 24′ 40″	0.67444558	0.73832456	0.913481163	1.094713323	1.354417896	1.482699315
42° 24′ 50″	0.67448137	0.73829186	0.913570104	1.094606747	1.354477883	1.482620630
42° 25′ 00″	0.67451717	0.73825916	0.913659052	1.094500183	1.354537878	1.482541956
42° 25′ 10″	0.67455296	0.73822646	0.913748009	1.094393630	1.354597882	1.482463294
42° 25′ 20″	0.67458875	0.73819376	0.913836973	1.094287088	1.354657895	1.482384644
42° 25′ 30″	0.67462454	0.73816105	0.913925945	1.094180558	1.354717916	1.482306005
42° 25′ 40″	0.67466032	0.73812834	0.914014925	1.094074039	1.354777946	1.482227379
42° 25′ 50″	0.67469611	0.73809563	0.914103912	1.093967531	1.354837984	1.482148764
42° 26′ 00″	0.67473189	0.73806292	0.914192908	1.093861034	1.354898030	1.482070161
42° 26′ 10″	0.67476767	0.73803021	0.914281912	1.093754549	1.354958086	1.481991570
42° 26′ 20″	0.67480345	0.73799750	0.914370923	1.093648075	1.355018149	1.481912991
42° 26′ 30″	0.67483923	0.73796478	0.914459942	1.093541613	1.355078221	1.481834423
42° 26′ 40″	0.67487501	0.73793206	0.914548970	1.093435161	1.355138302	1.481755868
42° 26′ 50″	0.67491078	0.73789934	0.914638005	1.093328721	1.355198391	1.481677324
42° 27′ 00″	0.67494655	0.73786662	0.914727048	1.093222292	1.355258489	1.481598792
42° 27′ 10″	0.67498233	0.73783390	0.914816099	1.093115875	1.355318595	1.481520272
42° 27′ 20″	0.67501810	0.73780117	0.914905157	1.093009469	1.355378710	1.481441763
42° 27′ 30″	0.67505387	0.73776844	0.914994224	1.092903074	1.355438833	1.481363267
42° 27′ 40″	0.67508963	0.73773572	0.915083299	1.092796690	1.355498965	1.481284782
42° 27′ 50″	0.67512540	0.73770299	0.915172381	1.092690318	1.355559105	1.481206309
42° 28′ 00″	0.67516116	0.73767025	0.915261472	1.092583957	1.355619254	1.481127848
42° 28′ 10″	0.67519693	0.73763752	0.915350570	1.092477607	1.355679411	1.481049399
42° 28′ 20″	0.67523269	0.73760479	0.915439676	1.092371268	1.355739577	1.480970961
42° 28′ 30″	0.67526845	0.73757205	0.915528790	1.092264941	1.355799751	1.480892535
42° 28′ 40″	0.67530420	0.73753931	0.915617913	1.092158625	1.355859934	1.480814121
42° 28′ 50″	0.67533996	0.73750657	0.915707042	1.092052320	1.355920126	1.480735719
42° 29′ 00″	0.67537571	0.73747383	0.915796180	1.091946026	1.355980326	1.480657328
42° 29′ 10″	0.67541147	0.73744108	0.915885326	1.091839744	1.356040534	1.480578950
42° 29′ 20″	0.67544722	0.73740834	0.915974480	1.091733473	1.356100751	1.480500583
42° 29′ 30″	0.67548297	0.73737559	0.916063642	1.091627213	1.356160977	1.480422228
42° 29′ 40″	0.67551872	0.73734284	0.916152811	1.091520964	1.356221211	1.480343884
42° 29′ 50″	0.67555446	0.73731009	0.916241989	1.091414727	1.356281454	1.480265553
42° 30′ 00″	0.67559021	0.73727734	0.916331174	1.091308501	1.356341705	1.480187233
42° 30′ 10″	0.67562595	0.73724458	0.916420367	1.091202286	1.356401965	1.480108925
42° 30′ 20″	0.67566169	0.73721183	0.916509569	1.091096083	1.356462233	1.480030629
42° 30′ 30″	0.67569743	0.73717907	0.916598778	1.090989890	1.356522510	1.479952344
42° 30′ 40″	0.67573317	0.73714631	0.916687995	1.090883709	1.356582795	1.479874071
42° 30′ 50″	0.67576891	0.73711355	0.916777220	1.090777539	1.356643089	1.479795810
42° 31′ 00″	0.67580464	0.73708078	0.916866453	1.090671381	1.356703392	1.479717561
42° 31′ 10″	0.67584038	0.73704802	0.916955694	1.090565233	1.356763703	1.479639323
42° 31′ 20″	0.67587611	0.73701525	0.917044943	1.090459097	1.356824022	1.479561098
42° 31′ 30″	0.67591184	0.73698248	0.917134199	1.090352972	1.356884350	1.479482884
42° 31′ 40″ 42° 31′ 50″	0.67594757	0.73694971	0.917223464	1.090246858	1.356944687	1.479404681
42 31 30	0.67598330	0.73691694	0.917312737	1.090140756	1.357005032	1.479326491

319 42° 31′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
42° 32′ 00″	0.67601902	0.73688417	0.917402017	1.090034664	1.357065386	1.479248312
42° 32′ 10″	0.67605475	0.73685139	0.917491306	1.089928584	1.357125748	1.479170145
42° 32′ 20″	0.67609047	0.73681862	0.917580602	1.089822515	1.357186119	1.479091990
42° 32′ 30″	0.67612619	0.73678584	0.917669907	1.089716457	1.357246499	1.479013846
42° 32′ 40″	0.67616191	0.73675306	0.917759219	1.089610411	1.357306887	1.478935714
42° 32′ 50″	0.67619763	0.73672028	0.917848540	1.089504376	1.357367283	1.478857594
42° 33′ 00″	0.67623335	0.73668749	0.917937868	1.089398351	1.357427688	1.478779486
42° 33′ 10″	0.67626906	0.73665471	0.918027204	1.089292339	1.357488102	1.478701389
42° 33′ 20″	0.67630477	0.73662192	0.918116548	1.089186337	1.357548524	1.478623304
42° 33′ 30″	0.67634049	0.73658913	0.918205900	1.089080346	1.357608955	1.478545231
42° 33′ 40″	0.67637620	0.73655634	0.918295261	1.088974367	1.357669395	1.478467170
42° 33′ 50″	0.67641190	0.73652355	0.918384629	1.088868399	1.357729843	1.478389120
42° 34′ 00″	0.67644761	0.73649075	0.918474005	1.088762442	1.357790299	1.478311082
42° 34′ 10″	0.67648332	0.73645796	0.918563389	1.088656496	1.357850765	1.478233056
42° 34′ 20″	0.67651902	0.73642516	0.918652780	1.088550562	1.357911238	1.478155041
42° 34′ 30″	0.67655472	0.73639236	0.918742180	1.088444638	1.357971721	1.478077038
42° 34′ 40″	0.67659042	0.73635956	0.918831588	1.088338726	1.358032211	1.477999047
42° 34′ 50″	0.67662612	0.73632676	0.918921004	1.088232825	1.358092711	1.477921067
42° 35′ 00″	0.67666182	0.73629395	0.919010428	1.088126935	1.358153219	1.477843099
42° 35′ 10″	0.67669751	0.73626114	0.919099860	1.088021056	1.358213736	1.477765143
42° 35′ 20″	0.67673321	0.73622834	0.919189299	1.087915189	1.358274261	1.477687199
42° 35′ 30″	0.67676890	0.73619553	0.919278747	1.087809332	1.358334795	1.477609266
42° 35′ 40″	0.67680459	0.73616272	0.919368203	1.087703487	1.358395337	1.477531345
42° 35′ 50″	0.67684028	0.73612990	0.919457666	1.087597653	1.358455888	1.477453436
42° 36′ 00″	0.67687597	0.73609709	0.919547138	1.087491830	1.358516448	1.477375538
42° 36′ 10″	0.67691166	0.73606427	0.919636618	1.087386019	1.358577016	1.477297652
42° 36′ 20″	0.67694734	0.73603145	0.919726105	1.087280218	1.358637593	1.477219778
42° 36′ 30″	0.67698302	0.73599863	0.919815601	1.087174429	1.358698178	1.477141915
42° 36′ 40″	0.67701870	0.73596581	0.919905104	1.087068650	1.358758772	1.477064064
42° 36′ 50″	0.67705438	0.73593299	0.919994616	1.086962883	1.358819375	1.476986225
42° 37′ 00″	0.67709006	0.73590016	0.920084135	1.086857127	1.358879986	1.476908398
42° 37′ 10″	0.67712574	0.73586733	0.920173663	1.086751382	1.358940606	1.476830582
42° 37′ 20″	0.67716141	0.73583450	0.920263198	1.086645649	1.359001234	1.476752778
42° 37′ 30″	0.67719709	0.73580167	0.920352742	1.086539926	1.359061871	1.476674985
42° 37′ 40″	0.67723276	0.73576884	0.920442293	1.086434215	1.359122517	1.476597204
42° 37′ 50″	0.67726843	0.73573601	0.920531853	1.086328515	1.359183171	1.476519435
42° 38′ 00″	0.67730410	0.73570317	0.920621420	1.086222825	1.359243834	1.476441677
42° 38′ 10″	0.67733977	0.73567033	0.920710996	1.086117147	1.359304505	1.476363931
42° 38′ 20″	0.67737543	0.73563750	0.920800579	1.086011481	1.359365185	1.476286197
42° 38′ 30″	0.67741110	0.73560465	0.920890170	1.085905825	1.359425874	1.476208475
42° 38′ 40″	0.67744676	0.73557181	0.920979770	1.085800180	1.359486571	1.476130764
42° 38′ 50″	0.67748242	0.73553897	0.921069377	1.085694547	1.359547277	1.476053064
42° 39′ 00″	0.67751808	0.73550612	0.921158993	1.085588924	1.359607991	1.475975377
42° 39′ 10″	0.67755374	0.73547327	0.921248616	1.085483313	1.359668714	1.475897701
42° 39′ 20″	0.67758939	0.73544042	0.921338248	1.085377713	1.359729446	1.475820036
42° 39′ 30″	0.67762505	0.73540757	0.921427887	1.085272124	1.359790186	1.475742384
42° 39′ 40″	0.67766070	0.73537472	0.921517535	1.085166546	1.359850935	1.475664743
42° 39′ 50″	0.67769635	0.73534186	0.921607190	1.085060979	1.359911693	1.475587113

320 42° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
42° 40′ 00″	0.67773200	0.73530901	0.921696854	1.084955423	1.359972459	1.475509495
42° 40′ 10″	0.67776765	0.73527615	0.921786525	1.084849879	1.360033234	1.475431889
42° 40′ 20″	0.67780329	0.73524329	0.921876205	1.084744345	1.360094018	1.475354295
42° 40′ 30″	0.67783894	0.73521043	0.921965892	1.084638823	1.360154810	1.475276712
42° 40′ 40″	0.67787458	0.73517756	0.922055588	1.084533312	1.360215610	1.475199140
42° 40′ 50″	0.67791022	0.73514470	0.922145291	1.084427811	1.360276420	1.475121581
42° 41′ 00″	0.67794586	0.73511183	0.922235003	1.084322322	1.360337238	1.475044033
42° 41′ 10″	0.67798150	0.73507896	0.922324723	1.084216844	1.360398064	1.474966496
42° 41′ 20″	0.67801714	0.73504609	0.922414450	1.084111377	1.360458900	1.474888972
42° 41′ 30″	0.67805277	0.73501322	0.922504186	1.084005921	1.360519744	1.474811458
42° 41′ 40″	0.67808841	0.73498035	0.922593930	1.083900477	1.360580596	1.474733957
42° 41′ 50″	0.67812404	0.73494747	0.922683681	1.083795043	1.360641457	1.474656467
42° 42′ 00″	0.67815967	0.73491460	0.922773441	1.083689620	1.360702327	1.474578988
42° 42′ 10″	0.67819530	0.73488172	0.922863209	1.083584209	1.360763206	1.474501522
42° 42′ 20″	0.67823093	0.73484884	0.922952985	1.083478808	1.360824093	1.474424067
42° 42′ 30″	0.67826655	0.73481595	0.923042769	1.083373419	1.360884989	1.474346623
42° 42′ 40″	0.67830218	0.73478307	0.923132560	1.083268041	1.360945893	1.474269191
42° 42′ 50″	0.67833780	0.73475018	0.923222360	1.083162673	1.361006806	1.474191771
42° 43′ 00″	0.67837342	0.73471730	0.923312168	1.083057317	1.361067728	1.474114362
42° 43′ 10″	0.67840904	0.73468441	0.923401984	1.082951972	1.361128658	1.474036965
42° 43′ 20″	0.67844466	0.73465152	0.923491808	1.082846638	1.361189597	1.473959579
42° 43′ 30″	0.67848027	0.73461862	0.923581641	1.082741315	1.361250545	1.473882205
42° 43′ 40″	0.67851589	0.73458573	0.923671481	1.082636003	1.361311502	1.473804843
42° 43′ 50″	0.67855150	0.73455283	0.923761329	1.082530702	1.361372467	1.473727492
42° 44′ 00″	0.67858711	0.73451993	0.923851185	1.082425412	1.361433440	1.473650153
42° 44′ 10″	0.67862272	0.73448703	0.923941049	1.082320134	1.361494423	1.473572825
42° 44′ 20″	0.67865833	0.73445413	0.924030922	1.082214866	1.361555414	1.473495509
42° 44′ 30″	0.67869394	0.73442123	0.924120802	1.082109609	1.361616413	1.473418205
42° 44′ 40″	0.67872954	0.73438832	0.924210691	1.082004363	1.361677422	1.473340912
42° 44′ 50″	0.67876514	0.73435542	0.924300587	1.081899129	1.361738439	1.473263631
42° 45′ 00″	0.67880075	0.73432251	0.924390492	1.081793905	1.361799464	1.473186361
42° 45′ 10″	0.67883635	0.73428960	0.924480404	1.081688693	1.361860499	1.473109103
42° 45′ 20″	0.67887194	0.73425669	0.924570325	1.081583491	1.361921542	1.473031856
42° 45′ 30″	0.67890754	0.73422377	0.924660254	1.081478301	1.361982593	1.472954621
42° 45′ 40″	0.67894314	0.73419086	0.924750191	1.081373121	1.362043654	1.472877397
42° 45′ 50″	0.67897873	0.73415794	0.924840135	1.081267953	1.362104723	1.472800185
42° 46′ 00″	0.67901432	0.73412502	0.924930088	1.081162796	1.362165801	1.472722985
42° 46′ 10″	0.67904991	0.73409210	0.925020049	1.081057649	1.362226887	1.472645796
42° 46′ 20″	0.67908550	0.73405918	0.925110018	1.080952514	1.362287982	1.472568619
42° 46′ 30″	0.67912109	0.73402626	0.925199996	1.080847390	1.362349086	1.472491453
42° 46′ 40″ 42° 46′ 50″	0.67915668	0.73399333	0.925289981	1.080742276 1.080637174	1.362410198 1.362471319	1.472414299 1.472337156
42° 46′ 50″ 42° 47′ 00″	0.67919226	0.73396040 0.73392747	0.925379974 0.925469975	1.080637174	1.362471319	1.472337136
42° 47′ 10″	0.67926342	0.73389454	0.925559985	1.080532083	1.362532449	1.472280025
42° 47′ 10″ 42° 47′ 20″	0.67929900	0.73386161	0.925650002	1.080427002	1.362573366	1.472105798
42° 47′ 30″	0.67933458	0.73382868	0.925740028	1.080321733	1.362634733	1.472103778
42° 47′ 40″	0.67937016	0.73379574	0.725740028	1.080216873	1.362773671	1.472028701
42° 47′ 50″	0.67940573	0.73376280	0.925920103	1.080006791	1.362838229	1.471731616
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321 42° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
42° 48′ 00″	0.67944130	0.73372986	0.926010153	1.079901766	1.362899411	1.471797481
42° 48′ 10″	0.67947688	0.73369692	0.926100211	1.079796752	1.362960601	1.471720430
42° 48′ 20″	0.67951245	0.73366398	0.926190277	1.079691749	1.363021801	1.471643392
42° 48′ 30″	0.67954801	0.73363104	0.926280351	1.079586756	1.363083009	1.471566364
42° 48′ 40″	0.67958358	0.73359809	0.926370433	1.079481775	1.363144226	1.471489349
42° 48′ 50″	0.67961915	0.73356514	0.926460524	1.079376805	1.363205451	1.471412344
42° 49′ 00″	0.67965471	0.73353219	0.926550622	1.079271846	1.363266685	1.471335352
42° 49′ 10″	0.67969027	0.73349924	0.926640729	1.079166897	1.363327928	1.471258370
42° 49′ 20″	0.67972583	0.73346629	0.926730843	1.079061960	1.363389180	1.471181401
42° 49′ 30″	0.67976139	0.73343333	0.926820966	1.078957034	1.363450440	1.471104442
42° 49′ 40″	0.67979695	0.73340038	0.926911097	1.078852118	1.363511709	1.471027496
42° 49′ 50″	0.67983250	0.73336742	0.927001236	1.078747214	1.363572987	1.470950560
42° 50′ 00″	0.67986806	0.73333446	0.927091383	1.078642320	1.363634273	1.470873637
42° 50′ 10″	0.67990361	0.73330150	0.927181538	1.078537438	1.363695569	1.470796725
42° 50′ 20″	0.67993916	0.73326853	0.927271701	1.078432566	1.363756872	1.470719824
42° 50′ 30″	0.67997471	0.73323557	0.927361872	1.078327706	1.363818185	1.470642935
42° 50′ 40″	0.68001026	0.73320260	0.927452051	1.078222856	1.363879506	1.470566057
42° 50′ 50″	0.68004580	0.73316963	0.927542239	1.078118018	1.363940836	1.470489191
42° 51′ 00″	0.68008135	0.73313666	0.927632435	1.078013190	1.364002175	1.470412336
42° 51′ 10″	0.68011689	0.73310369	0.927722638	1.077908373	1.364063523	1.470335493
42° 51′ 20″	0.68015243	0.73307071	0.927812850	1.077803568	1.364124879	1.470258661
42° 51′ 30″	0.68018797	0.73303774	0.927903070	1.077698773	1.364186244	1.470181841
42° 51′ 40″	0.68022351	0.73300476	0.927993298	1.077593989	1.364247617	1.470105032
42° 51′ 50″	0.68025904	0.73297178	0.928083534	1.077489216	1.364309000	1.470028235
42° 52′ 00″	0.68029458	0.73293880	0.928173779	1.077384454	1.364370391	1.469951449
42° 52′ 10″	0.68033011	0.73290582	0.928264031	1.077279703	1.364431791	1.469874675
42° 52′ 20″	0.68036564	0.73287284	0.928354292	1.077174963	1.364493199	1.469797912
42° 52′ 30″	0.68040117	0.73283985	0.928444560	1.077070234	1.364554617	1.469721160
42° 52′ 40″	0.68043670	0.73280686	0.928534837	1.076965516	1.364616043	1.469644420
42° 52′ 50″	0.68047223	0.73277387	0.928625122	1.076860809	1.364677478	1.469567692
42° 53′ 00″	0.68050775	0.73274088	0.928715415	1.076756112	1.364738921	1.469490975
42° 53′ 10″	0.68054328	0.73270789	0.928805717	1.076651427	1.364800373	1.469414269
42° 53′ 20″	0.68057880	0.73267489	0.928896026	1.076546752	1.364861834	1.469337575
42° 53′ 30″	0.68061432	0.73264190	0.928986343	1.076442089	1.364923304	1.469260893
42° 53′ 40″	0.68064984	0.73260890	0.929076669	1.076337436	1.364984783	1.469184222
42° 53′ 50″	0.68068535	0.73257590	0.929167003	1.076232795	1.365046270	1.469107562
42° 54′ 00″	0.68072087	0.73254290	0.929257345	1.076128164	1.365107766	1.469030914
42° 54′ 10″	0.68075638	0.73250990	0.929347695	1.076023544	1.365169271	1.468954277
42° 54′ 20″	0.68079190	0.73247689	0.929438053	1.075918935	1.365230784	1.468877651
42° 54′ 30″	0.68082741	0.73244388	0.929528419	1.075814337	1.365292306	1.468801037
42° 54′ 40″	0.68086291	0.73241088	0.929618794	1.075709750	1.365353837	1.468724435
42° 54′ 50″	0.68089842	0.73237787	0.929709176	1.075605174	1.365415377	1.468647844
42° 55′ 00″	0.68093393	0.73234485	0.929799567	1.075500608	1.365476926	1.468571264
42° 55′ 10″	0.68096943	0.73231184	0.929889966	1.075396054	1.365538483	1.468494696
42° 55′ 20″	0.68100494	0.73227883	0.929980373	1.075291511	1.365600049	1.468418140
42° 55′ 30″	0.68104044	0.73224581	0.930070788	1.075186978	1.365661624	1.468341594
42° 55′ 40″	0.68107594	0.73221279	0.930161212	1.075082456	1.365723207	1.468265060
42° 55′ 50″	0.68111143	0.73217977	0.930251643	1.074977945	1.365784800	1.468188538

322 42° 55′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
42° 56′ 00″	0.68114693	0.73214675	0.930342083	1.074873446	1.365846401	1.468112027
42° 56′ 10″	0.68118242	0.73211372	0.930432531	1.074768957	1.365908011	1.468035527
42° 56′ 20″	0.68121792	0.73208070	0.930522987	1.074664478	1.365969629	1.467959039
42° 56′ 30″	0.68125341	0.73204767	0.930613451	1.074560011	1.366031257	1.467882563
42° 56′ 40″	0.68128890	0.73201464	0.930703923	1.074455555	1.366092893	1.467806097
42° 56′ 50″	0.68132439	0.73198161	0.930794404	1.074351109	1.366154538	1.467729643
42° 57′ 00″	0.68135987	0.73194858	0.930884892	1.074246675	1.366216192	1.467653201
42° 57′ 10″	0.68139536	0.73191554	0.930975389	1.074142251	1.366277854	1.467576770
42° 57′ 20″	0.68143084	0.73188251	0.931065894	1.074037838	1.366339525	1.467500350
42° 57′ 30″	0.68146632	0.73184947	0.931156407	1.073933436	1.366401206	1.467423942
42° 57′ 40″	0.68150180	0.73181643	0.931246928	1.073829045	1.366462894	1.467347545
42° 57′ 50″	0.68153728	0.73178339	0.931337458	1.073724665	1.366524592	1.467271160
42° 58′ 00″	0.68157276	0.73175035	0.931427996	1.073620296	1.366586298	1.467194786
42° 58′ 10″	0.68160824	0.73171730	0.931518542	1.073515937	1.366648014	1.467118423
42° 58′ 20″	0.68164371	0.73168426	0.931609096	1.073411589	1.366709738	1.467042072
42° 58′ 30″	0.68167918	0.73165121	0.931699658	1.073307253	1.366771470	1.466965732
42° 58′ 40″	0.68171465	0.73161816	0.931790228	1.073202927	1.366833212	1.466889403
42° 58′ 50″	0.68175012	0.73158511	0.931880807	1.073098612	1.366894962	1.466813086
42° 59′ 00″	0.68178559	0.73155206	0.931971394	1.072994307	1.366956721	1.466736781
42° 59′ 10″	0.68182105	0.73151900	0.932061989	1.072890014	1.367018489	1.466660486
42° 59′ 20″	0.68185652	0.73148594	0.932152592	1.072785732	1.367080266	1.466584203
42° 59′ 30″	0.68189198	0.73145289	0.932243203	1.072681460	1.367142052	1.466507932
42° 59′ 40″	0.68192744	0.73141983	0.932333823	1.072577199	1.367203846	1.466431672
42° 59′ 50″	0.68196290	0.73138676	0.932424450	1.072472949	1.367265649	1.466355423
43° 00′ 00″	0.68199836	0.73135370	0.932515086	1.072368710	1.367327461	1.466279186
43° 00′ 10″	0.68203382	0.73132064	0.932605730	1.072264482	1.367389282	1.466202960
43° 00′ 20″	0.68206927	0.73128757	0.932696383	1.072160264	1.367451111	1.466126745
43° 00′ 30″	0.68210472	0.73125450	0.932787043	1.072056058	1.367512950	1.466050542
43° 00′ 40″	0.68214018	0.73122143	0.932877712	1.071951862	1.367574797	1.465974350
43° 00′ 50″	0.68217563	0.73118836	0.932968389	1.071847677	1.367636653	1.465898169
43° 01′ 00″	0.68221107	0.73115529	0.933059074	1.071743503	1.367698518	1.465822000
43° 01′ 10″	0.68224652	0.73112221	0.933149767	1.071639339	1.367760391	1.465745842
43° 01′ 20″	0.68228196	0.73108913	0.933240469	1.071535187	1.367822274	1.465669696
43° 01′ 30″	0.68231741	0.73105605	0.933331178	1.071431045	1.367884165	1.465593561
43° 01′ 40″	0.68235285	0.73102297	0.933421896	1.071326914	1.367946065	1.465517437
43° 01′ 50″	0.68238829	0.73098989	0.933512622	1.071222794	1.368007974	1.465441324
43° 02′ 00″	0.68242373	0.73095681	0.933603357	1.071118685	1.368069891	1.465365223
43° 02′ 10″	0.68245917	0.73092372	0.933694099	1.071014587	1.368131818	1.465289134
43° 02′ 20″	0.68249460	0.73089063	0.933784850	1.070910499	1.368193753	1.465213055
43° 02′ 30″	0.68253004	0.73085755	0.933875609	1.070806422	1.368255697	1.465136988
43° 02′ 40″	0.68256547	0.73082445	0.933966376	1.070702356	1.368317650	1.465060933
43° 02′ 50″	0.68260090	0.73079136	0.934057152	1.070598301	1.368379612	1.464984888
43° 03′ 00″	0.68263633	0.73075827	0.934147935	1.070494257	1.368441583	1.464908855
43° 03′ 10″	0.68267175	0.73072517	0.934238727	1.070390223	1.368503562	1.464832834
43° 03′ 20″	0.68270718	0.73069207	0.934329527	1.070286201	1.368565550	1.464756823
43° 03′ 30″	0.68274260	0.73065897	0.934420336	1.070182189	1.368627548	1.464680824
43° 03′ 40″	0.68277803	0.73062587	0.934511152	1.070078187	1.368689554	1.464604836
43° 03′ 50″	0.68281345	0.73059277	0.934601977	1.069974197	1.368751568	1.464528860
	1 2222270 10	Jes				

323 43° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
43° 04′ 00″	0.68284887	0.73055967	0.934692810	1.069870217	1.368813592	1.464452895
43° 04′ 10″	0.68288428	0.73052656	0.934783651	1.069766248	1.368875624	1.464376941
43° 04′ 20″	0.68291970	0.73049345	0.934874501	1.069662290	1.368937666	1.464300999
43° 04′ 30″	0.68295512	0.73046034	0.934965359	1.069558343	1.368999716	1.464225068
43° 04′ 40″	0.68299053	0.73042723	0.935056225	1.069454407	1.369061775	1.464149148
43° 04′ 50″	0.68302594	0.73039412	0.935147099	1.069350481	1.369123843	1.464073240
43° 05′ 00″	0.68306135	0.73036100	0.935237981	1.069246566	1.369185919	1.463997343
43° 05′ 10″	0.68309676	0.73032789	0.935328872	1.069142662	1.369248005	1.463921457
43° 05′ 20″	0.68313216	0.73029477	0.935419771	1.069038769	1.369310099	1.463845582
43° 05′ 30″	0.68316757	0.73026165	0.935510678	1.068934886	1.369372202	1.463769719
43° 05′ 40″	0.68320297	0.73022853	0.935601594	1.068831014	1.369434315	1.463693867
43° 05′ 50″	0.68323837	0.73019540	0.935692517	1.068727153	1.369496436	1.463618026
43° 06′ 00″	0.68327377	0.73016228	0.935783449	1.068623303	1.369558565	1.463542197
43° 06′ 10″	0.68330917	0.73012915	0.935874389	1.068519463	1.369620704	1.463466379
43° 06′ 20″	0.68334457	0.73009602	0.935965338	1.068415634	1.369682851	1.463390572
43° 06′ 30″	0.68337996	0.73006289	0.936056294	1.068311816	1.369745008	1.463314777
43° 06′ 40″	0.68341536	0.73002976	0.936147259	1.068208009	1.369807173	1.463238993
43° 06′ 50″	0.68345075	0.72999662	0.936238233	1.068104212	1.369869347	1.463163220
43° 07′ 00″	0.68348614	0.72996349	0.936329214	1.068000427	1.369931530	1.463087458
43° 07′ 10″	0.68352153	0.72993035	0.936420204	1.067896651	1.369993722	1.463011708
43° 07′ 20″	0.68355692	0.72989721	0.936511202	1.067792887	1.370055923	1.462935969
43° 07′ 30″	0.68359230	0.72986407	0.936602208	1.067689134	1.370118132	1.462860241
43° 07′ 40″	0.68362769	0.72983093	0.936693222	1.067585391	1.370180351	1.462784525
43° 07′ 50″	0.68366307	0.72979779	0.936784245	1.067481659	1.370242578	1.462708820
43° 08′ 00″	0.68369845	0.72976464	0.936875276	1.067377937	1.370304814	1.462633126
43° 08′ 10″	0.68373383	0.72973149	0.936966316	1.067274227	1.370367059	1.462557443
43° 08′ 20″	0.68376921	0.72969834	0.937057363	1.067170527	1.370429313	1.462481772
43° 08′ 30″	0.68380458	0.72966519	0.937148419	1.067066838	1.370491576	1.462406112
43° 08′ 40″	0.68383996	0.72963204	0.937239483	1.066963159	1.370553847	1.462330463
43° 08′ 50″	0.68387533	0.72959889	0.937330556	1.066859492	1.370616128	1.462254826
43° 09′ 00″	0.68391070	0.72956573	0.937421636	1.066755835	1.370678417	1.462179199
43° 09′ 10″	0.68394607	0.72953257	0.937512725	1.066652188	1.370740716	1.462103584
43° 09′ 20″	0.68398144	0.72949941	0.937603822	1.066548553	1.370803023	1.462027980
43° 09′ 30″	0.68401680	0.72946625	0.937694928	1.066444928	1.370865339	1.461952388
43° 09′ 40″	0.68405217	0.72943309	0.937786042	1.066341314	1.370927664	1.461876807
43° 09′ 50″	0.68408753	0.72939992	0.937877164	1.066237711	1.370989998	1.461801237
43° 10′ 00″	0.68412289	0.72936676	0.937968294	1.066134118	1.371052341	1.461725678
43° 10′ 10″	0.68415825	0.72933359	0.938059433	1.066030536	1.371114692	1.461650130
43° 10′ 20″	0.68419361	0.72930042	0.938150580	1.065926965	1.371177053	1.461574594
43° 10′ 30″	0.68422897	0.72926725	0.938241735	1.065823404	1.371239422	1.461499069
43° 10′ 40″ 43° 10′ 50″	0.68426432	0.72923407	0.938332899	1.065719854	1.371301801	1.461423555
43° 11′ 00″	0.68429968	0.72920090	0.938424071 0.938515251	1.065616315	1.371364188	1.461348053
43° 11′ 10″ 43° 11′ 10″	0.68433503	0.72916772 0.72913454	0.938515251	1.065512787 1.065409269	1.371426584 1.371488989	1.461272561 1.461197081
43° 11′ 10″ 43° 11′ 20″	0.68437038	0.72913454	0.938697636		1.371488989	1.461197081
43° 11′ 30″	0.68444107	0.72910136	0.938788841	1.065305762 1.065202265	1.371531403	1.461121612
43° 11′ 40″	0.68447642	0.72906818	0.938880054	1.065202265	1.371676258	1.461046133
43° 11′ 50″	0.68451176	0.72900181	0.938971276	1.063078780	1.371676236	1.460970708
	0.00431170	0.7 4700101	0.730771270	1.004//3303	1,3/1/30070	1.7000/34/3

324 43° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	csc(x)
43° 12′ 00″	0.68454711	0.72896863	0.939062506	1.064891840	1.371801148	1.460819849
43° 12′ 10″	0.68458245	0.72873544	0.939153744	1.064788387	1.371863607	1.460744436
43° 12′ 20″	0.68461779	0.72890225	0.939244991	1.064684944	1.371926074	1.460669035
43° 12′ 30″	0.68465312	0.72886906	0.939336246	1.064581511	1.371728074	1.460593645
43° 12′ 40″	0.68468846	0.72883586	0.939427509	1.064478090	1.372051036	1.460518265
43° 12′ 50″	0.68472379	0.72880267	0.939518780	1.064374679	1.372113530	1.460442898
43° 13′ 00″	0.68475913	0.72876947	0.939610060	1.064271279	1.372176033	1.460367541
43° 13′ 10″	0.68479446	0.72873627	0.939701348	1.064167889	1.372176033	1.460292195
43° 13′ 20″	0.68482979	0.72870307	0.939792645	1.064064510	1.372301066	1.460272173
43° 13′ 30″	0.68486511	0.72866987	0.939883949	1.063961142	1.372363595	1.460141538
43° 13′ 40″	0.68490044	0.72863666	0.939975262	1.063857784	1.372426134	1.460066226
43° 13′ 50″	0.68493576	0.72860346	0.940066584	1.063754437	1.372488682	1.459990926
43° 14′ 00″	0.68497109	0.72857025	0.940157914	1.063651101	1.372551239	1.459915636
43° 14′ 10″	0.68500641	0.72853704	0.940249252	1.063547775	1.372613804	1.459840358
43° 14′ 20″	0.68504173	0.72850383	0.940340598	1.063444461	1.372676379	1.459765091
43° 14′ 30″	0.68507705	0.72847062	0.940431953	1.063341156	1.372738962	1.459689835
43° 14′ 40″	0.68511236	0.72843740	0.940523316	1.063237863	1.372801554	1.459614590
43° 14′ 50″	0.68514768	0.72840419	0.940614687	1.063237863	1.372864156	1.459539357
43° 15′ 00″	0.68518299	0.72837097	0.940706067	1.063031307	1.372926766	1.459464135
43° 15′ 10″	0.68521830	0.72833775	0.940797455	1.062928045	1.372789385	1.459388923
43° 15′ 20″	0.68525361	0.72830453	0.940888851	1.062728043	1.373052013	1.459313724
43° 15′ 30″	0.68528892	0.72827131	0.940980256	1.062721554	1.373032013	1.459238535
43° 15′ 40″	0.68532423	0.72823808	0.941071669	1.062721334	1.373174636	1.459163357
43° 15′ 50″	0.68535953	0.72820486	0.941163091	1.062515105	1.373177276	1.459088191
43° 16′ 00″	0.68539484	0.72817163	0.941254520	1.062313103	1.373302615	1.459013036
43° 16′ 10″	0.68543014	0.72817103	0.941345958	1.062308699	1.373365288	1.458937891
43° 16′ 20″	0.68546544	0.72810517	0.941437405	1.062205511	1.373427969	1.458862759
43° 16′ 30″	0.68550074	0.72807193	0.941528860	1.062102335	1.373490660	1.458787637
43° 16′ 40″	0.68553603	0.72803870	0.941620323	1.061999169	1.373553360	1.458712526
43° 16′ 50″	0.68557133	0.72800546	0.941711794	1.061896013	1.373616068	1.458637427
43° 17′ 00″	0.68560662	0.72797222	0.941803274	1.061792869	1.373678786	1.458562339
43° 17′ 10″	0.68564192	0.72793898	0.941894762	1.061689734	1.373741513	1.458487262
43° 17′ 20″	0.68567721	0.72790574	0.941986259	1.061586611	1.373804248	1.458412196
43° 17′ 30″	0.68571250	0.72787250	0.942077764	1.061483498	1.373866992	1.458337141
43° 17′ 40″	0.68574778	0.72783925	0.942169277	1.061380396	1.373929746	1.458262097
43° 17′ 50″	0.68578307	0.72780601	0.942260799	1.061277304	1.373992508	1.458187065
43° 18′ 00″	0.68581835	0.72777276	0.942352329	1.061174223	1.374055280	1.458112043
43° 18′ 10″	0.68585364	0.72773951	0.942443867	1.061071152	1.374118060	1.458037033
43° 18′ 20″	0.68588892	0.72770626	0.942535414	1.060968092	1.374180849	1.457962034
43° 18′ 30″	0.68592420	0.72767300	0.942626969	1.060865043	1.374243647	1.457887046
43° 18′ 40″	0.68595947	0.72763975	0.942718532	1.060762004	1.374306455	1.457812070
43° 18′ 50″	0.68599475	0.72760649	0.942810104	1.060658976	1.374369271	1.457737104
43° 19′ 00″	0.68603002	0.72757323	0.942901684	1.060555959	1.374432096	1.457662149
43° 19′ 10″	0.68606530	0.72753997	0.942993273	1.060452952	1.374494930	1.457587206
43° 19′ 20″	0.68610057	0.72750671	0.943084870	1.060349956	1.374557773	1.457512274
43° 19′ 30″	0.68613584	0.72747344	0.943176475	1.060246970	1.374620625	1.457437353
43° 19′ 40″	0.68617111	0.72744018	0.943268089	1.060143995	1.374683486	1.457362443
43° 19′ 50″	0.68620637	0.72740691	0.943359711	1.060041030	1.374746356	1.457287544
	1 3.00020037	3., 2, 100/1	21, 1000//11			

325 43° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
43° 20′ 00″	0.68624164	0.72737364	0.943451341	1.059938076	1.374809235	1.457212656
43° 20′ 10″	0.68627690	0.72734037	0.943542980	1.059835133	1.374872123	1.457137780
43° 20′ 20″	0.68631216	0.72734037	0.943634628	1.059732200	1.374935020	1.457062914
43° 20′ 30″	0.68634742	0.72730710	0.943726283	1.059629278	1.374793026	1.456988060
43° 20′ 40″	0.68638268	0.72724055	0.943817947	1.059526366	1.375060841	1.456913217
43° 20′ 50″	0.68641794	0.72720727	0.943909620	1.059423465	1.375123765	1.456838385
43° 21′ 00″	0.68645319	0.72720727	0.944001300	1.059320575	1.375186698	1.456763564
43° 21′ 10″	0.68648845	0.72714071	0.944092989	1.059217695	1.375249640	1.456688754
43° 21′ 20″	0.68652370	0.72710743	0.944184687	1.059114825	1.375312591	1.456613955
43° 21′ 30″	0.68655895	0.72707414	0.944276393	1.059011967	1.375375551	1.456539167
43° 21′ 40″	0.68659420	0.72704086	0.944368107	1.058909118	1.375438520	1.456464391
43° 21′ 50″	0.68662945	0.72700757	0.944459830	1.058806281	1.375501498	1.456389625
43° 22′ 00″	0.68666469	0.72697428	0.944551561	1.058703454	1.375564485	1.456314871
43° 22′ 10″	0.68669993	0.72694099	0.944643301	1.058600637	1.375627481	1.456240127
43° 22′ 20″	0.68673518	0.72690769	0.944735049	1.058497831	1.375690486	1.456165395
43° 22′ 30″	0.68677042	0.72687440	0.944826805	1.058395035	1.375753500	1.456090674
43° 22′ 40″	0.68680566	0.72684110	0.944918570	1.058292251	1.375816523	1.456015964
43° 22′ 50″	0.68684089	0.72680781	0.945010343	1.058189476	1.375879555	1.455941265
43° 23′ 00″	0.68687613	0.72677451	0.945102125	1.058086712	1.375942596	1.455866577
43° 23′ 10″	0.68691136	0.72674120	0.945193915	1.057983959	1.376005646	1.455791901
43° 23′ 20″	0.68694660	0.72670790	0.945285713	1.057881216	1.376068705	1.455717235
43° 23′ 30″	0.68698183	0.72667460	0.945377520	1.057778484	1.376131773	1.455642580
43° 23′ 40″	0.68701706	0.72664129	0.945469335	1.057675762	1.376194850	1.455567937
43° 23′ 50″	0.68705228	0.72660798	0.945561159	1.057573051	1.376257936	1.455493304
43° 24′ 00″	0.68708751	0.72657467	0.945652991	1.057470351	1.376321031	1.455418683
43° 24′ 10″	0.68712274	0.72654136	0.945744832	1.057367661	1.376384135	1.455344073
43° 24′ 20″	0.68715796	0.72650805	0.945836680	1.057264981	1.376447248	1.455269473
43° 24′ 30″	0.68719318	0.72647473	0.945928538	1.057162312	1.376510370	1.455194885
43° 24′ 40″	0.68722840	0.72644141	0.946020404	1.057059653	1.376573501	1.455120308
43° 24′ 50″	0.68726362	0.72640809	0.946112278	1.056957005	1.376636641	1.455045742
43° 25′ 00″	0.68729883	0.72637477	0.946204160	1.056854368	1.376699791	1.454971187
43° 25′ 10″	0.68733405	0.72634145	0.946296051	1.056751741	1.376762949	1.454896643
43° 25′ 20″	0.68736926	0.72630813	0.946387951	1.056649125	1.376826116	1.454822110
43° 25′ 30″	0.68740447	0.72627480	0.946479859	1.056546519	1.376889292	1.454747589
43° 25′ 40″	0.68743968	0.72624148	0.946571775	1.056443923	1.376952478	1.454673078
43° 25′ 50″	0.68747489	0.72620815	0.946663700	1.056341338	1.377015672	1.454598578
43° 26′ 00″	0.68751010	0.72617482	0.946755633	1.056238764	1.377078875	1.454524089
43° 26′ 10″	0.68754530	0.72614148	0.946847575	1.056136200	1.377142088	1.454449612
43° 26′ 20″	0.68758051	0.72610815	0.946939525	1.056033647	1.377205309	1.454375145
43° 26′ 30″	0.68761571	0.72607481	0.947031484	1.055931104	1.377268540	1.454300690
43° 26′ 40″ 43° 26′ 50″	0.68765091	0.72604148	0.947123451	1.055828572 1.055726050	1.377331780	1.454226245
43° 26′ 50″ 43° 27′ 00″	0.68768611	0.72600814	0.947215426		1.377395028	1.454151812
43° 27′ 10″ 43° 27′ 10″	0.68775650	0.72597480 0.72594145	0.947307410 0.947399402	1.055623538 1.055521037	1.377458286 1.377521553	1.454077389 1.454002978
43° 27′ 20″	0.68779169	0.72590811	0.947399402	1.055418547	1.377584828	1.454002978
43° 27′ 30″	0.68779169	0.72587476	0.947491403	1.055316067	1.377648113	1.453928578
43° 27′ 40″	0.68786208	0.72584142	0.947675430	1.055213598	1.377711407	1.453779810
43° 27′ 50″	0.68789727	0.72580807	0.947767456	1.055111139	1.377774710	1.453777810
TJ 21 JU	0.00/0//2/	0.7 2300007	0.777707430	1,033111137	1.3/1//4/10	1,733103743

326 43° 27′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
43° 28′ 00″	0.68793245	0.72577472	0.947859491	1.055008690	1.377838022	1.453631087
43° 28′ 10″	0.68796764	0.72574136	0.947951534	1.054906252	1.377901343	1.453556742
43° 28′ 20″	0.68800282	0.72570801	0.948043586	1.054803825	1.377764673	1.453482407
43° 28′ 30″	0.68803801	0.72567465	0.948135646	1.054701408	1.378028012	1.453408084
43° 28′ 40″	0.68807319	0.72564130	0.948227714	1.054599001	1.378023612	1.4533333772
43° 28′ 50″	0.68810837	0.72560794	0.948319791	1.054496605	1.378154718	1.453259471
43° 29′ 00″	0.68814354	0.72557457	0.948411876	1.054394219	1.378218084	1.453185181
43° 29′ 10″	0.68817872	0.72554121	0.948503970	1.054291844	1.378281460	1.453110902
43° 29′ 20″	0.68821389	0.72550785	0.948596073	1.054189479	1.378344844	1.453036634
43° 29′ 30″	0.68824907	0.72547448	0.948688183	1.054087125	1.378408238	1.452962377
43° 29′ 40″	0.68828424	0.72544111	0.948780303	1.053984781	1.378471640	1.452888130
43° 29′ 50″	0.68831941	0.72540774	0.948872430	1.053882448	1.378535052	1.452813895
43° 30′ 00″	0.68835458	0.72537437	0.948964567	1.053780125	1.378598473	1.452739671
43° 30′ 10″	0.68838974	0.72534100	0.949056711	1.053677813	1.378661903	1.452665458
43° 30′ 20″	0.68842491	0.72530762	0.949148865	1.053575511	1.378725341	1.452591256
43° 30′ 30″	0.68846007	0.72527425	0.949241026	1.053473219	1.378788789	1.452517065
43° 30′ 40″	0.68849523	0.72524087	0.949333196	1.053370938	1.378852247	1.452442885
43° 30′ 50″	0.68853039	0.72520749	0.949425375	1.053268668	1.378915713	1.452368716
43° 31′ 00″	0.68856555	0.72517411	0.949517562	1.053166408	1.378979188	1.452294558
43° 31′ 10″	0.68860071	0.72514072	0.949609758	1.053064158	1.379042672	1.452220410
43° 31′ 20″	0.68863586	0.72510734	0.949701962	1.052961919	1.379106166	1.452146274
43° 31′ 30″	0.68867101	0.72507395	0.949794175	1.052859690	1.379169668	1.452072149
43° 31′ 40″	0.68870617	0.72504056	0.949886396	1.052757471	1.379233180	1.451998035
43° 31′ 50″	0.68874132	0.72500717	0.949978625	1.052655263	1.379296701	1.451923932
43° 32′ 00″	0.68877646	0.72497378	0.950070863	1.052553066	1.379360230	1.451849840
43° 32′ 10″	0.68881161	0.72494039	0.950163110	1.052450879	1.379423769	1.451775758
43° 32′ 20″	0.68884676	0.72490699	0.950255365	1.052348702	1.379487317	1.451701688
43° 32′ 30″	0.68888190	0.72487359	0.950347629	1.052246536	1.379550874	1.451627629
43° 32′ 40″	0.68891704	0.72484019	0.950439901	1.052144380	1.379614441	1.451553580
43° 32′ 50″	0.68895218	0.72480679	0.950532181	1.052042235	1.379678016	1.451479543
43° 33′ 00″	0.68898732	0.72477339	0.950624470	1.051940100	1.379741600	1.451405516
43° 33′ 10″	0.68902246	0.72473999	0.950716768	1.051837975	1.379805194	1.451331501
43° 33′ 20″	0.68905759	0.72470658	0.950809074	1.051735861	1.379868796	1.451257496
43° 33′ 30″	0.68909273	0.72467318	0.950901389	1.051633757	1.379932408	1.451183503
43° 33′ 40″	0.68912786	0.72463977	0.950993712	1.051531664	1.379996029	1.451109520
43° 33′ 50″	0.68916299	0.72460636	0.951086043	1.051429581	1.380059659	1.451035549
43° 34′ 00″	0.68919812	0.72457294	0.951178384	1.051327508	1.380123298	1.450961588
43° 34′ 10″	0.68923325	0.72453953	0.951270732	1.051225446	1.380186946	1.450887638
43° 34′ 20″	0.68926837	0.72450611	0.951363089	1.051123395	1.380250603	1.450813699
43° 34′ 30″	0.68930350	0.72447270	0.951455455	1.051021353	1.380314270	1.450739772
43° 34′ 40″	0.68933862	0.72443928	0.951547829	1.050919322	1.380377945	1.450665855
43° 34′ 50″ 43° 35′ 00″	0.68937374	0.72440586	0.951640212	1.050817302	1.380441630	1.450591949
43° 35′ 00″ 43° 35′ 10″	0.68940886	0.72437243	0.951732603	1.050715292	1.380505324	1.450518054
43° 35′ 10″ 43° 35′ 20″	0.68944398	0.72433901	0.951825003	1.050613292	1.380569026	1.450444170
43° 35′ 20″ 43° 35′ 30″	0.68947910	0.72430558 0.72427215	0.951917412 0.952009828	1.050511303 1.050409324	1.380632738 1.380696460	1.450370296 1.450296434
43° 35′ 40″	0.68954932	0.72427213	0.952102254	1.050409324	1.380676460	1.450296434
43° 35′ 50″	0.68958443	0.72423873	0.952102254	1.050307333	1.380760190	1.450222585
=======================================	0.00/30443	0.7 4440347	0.734174000	1.03020337/	1.300043747	1,430140/43

327 43° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	csc(x)
43° 36′ 00″	0.68961954	0.72417186	0.952287130	1.050103449	1.380887678	1.450074913
43° 36′ 10″	0.68965465	0.72413843	0.952379581	1.050001512	1.380951435	1.450001095
43° 36′ 20″	0.68968976	0.72410499	0.952472041	1.049899585	1.381015202	1.449927287
43° 36′ 30″	0.68972486	0.72407155	0.952564509	1.049797668	1.381078978	1.449853490
43° 36′ 40″	0.68975997	0.72403811	0.952656985	1.049695762	1.381142763	1.449779705
43° 36′ 50″	0.68979507	0.72400467	0.952749471	1.049593866	1.381206557	1.449705930
43° 37′ 00″	0.68983017	0.72397123	0.952841964	1.049491980	1.381270361	1.449632166
43° 37′ 10″	0.68986527	0.72393778	0.952934467	1.049390105	1.381334173	1.449558413
43° 37′ 20″	0.68990036	0.72390434	0.953026977	1.049288240	1.381397995	1.449484671
43° 37′ 30″	0.68993546	0.72387089	0.953119497	1.049186386	1.381461825	1.449410940
43° 37′ 40″	0.68997055	0.72383744	0.953212025	1.049084542	1.381525665	1.449337219
43° 37′ 50″	0.69000564	0.72380399	0.953304561	1.048982708	1.381589514	1.449263510
43° 38′ 00″	0.69004073	0.72377053	0.953397106	1.048880885	1.381653373	1.449189812
43° 38′ 10″	0.69007582	0.72373708	0.953489660	1.048779072	1.381717240	1.449116124
43° 38′ 20″	0.69011091	0.72370362	0.953582222	1.048677269	1.381781116	1,449042447
43° 38′ 30″	0.69014599	0.72367016	0.953674792	1.048575477	1.381845002	1.448968782
43° 38′ 40″	0.69018108	0.72363670	0.953767372	1.048473695	1.381908897	1.448895127
43° 38′ 50″	0.69021616	0.72360324	0.953859960	1.048371923	1.381972801	1.448821483
43° 39′ 00″	0.69025124	0.72356978	0.953952556	1.048270162	1.382036714	1.448747850
43° 39′ 10″	0.69028632	0.72353631	0.954045161	1.048168411	1.382100636	1.448674227
43° 39′ 20″	0.69032140	0.72350285	0.954137774	1.048066670	1.382164568	1.448600616
43° 39′ 30″	0.69035647	0.72346938	0.954230396	1.047964940	1.382228508	1.448527016
43° 39′ 40″	0.69039155	0.72343591	0.954323027	1.047863220	1.382292458	1.448453426
43° 39′ 50″	0.69042662	0.72340244	0.954415666	1.047761510	1.382356417	1.448379847
43° 40′ 00″	0.69046169	0.72336896	0.954508314	1.047659811	1.382420385	1.448306280
43° 40′ 10″	0.69049676	0.72333549	0.954600970	1.047558122	1.382484363	1.448232723
43° 40′ 20″	0.69053183	0.72330201	0.954693635	1.047456444	1.382548349	1.448159177
43° 40′ 30″	0.69056689	0.72326853	0.954786309	1.047354775	1.382612345	1.448085642
43° 40′ 40″	0.69060196	0.72323505	0.954878991	1.047253117	1.382676349	1.448012117
43° 40′ 50″	0.69063702	0.72320157	0.954971682	1.047151470	1.382740363	1.447938604
43° 41′ 00″	0.69067208	0.72316808	0.955064381	1.047049832	1.382804387	1.447865101
43° 41′ 10″	0.69070714	0.72313460	0.955157089	1.046948206	1.382868419	1.447791610
43° 41′ 20″	0.69074220	0.72310111	0.955249805	1.046846589	1.382932460	1.447718129
43° 41′ 30″	0.69077725	0.72306762	0.955342530	1.046744982	1.382996511	1.447644659
43° 41′ 40″	0.69081231	0.72303413	0.955435264	1.046643386	1.383060571	1.447571200
43° 41′ 50″	0.69084736	0.72300064	0.955528006	1.046541801	1.383124640	1.447497752
43° 42′ 00″	0.69088241	0.72296715	0.955620757	1.046440225	1.383188718	1.447424314
43° 42′ 10″	0.69091746	0.72293365	0.955713516	1.046338660	1.383252806	1.447350888
43° 42′ 20″	0.69095251	0.72290015	0.955806284	1.046237105	1.383316903	1.447277472
43° 42′ 30″	0.69098756	0.72286665	0.955899061	1.046135561	1.383381008	1.447204067
43° 42′ 40″	0.69102260	0.72283315	0.955991846	1.046034027	1.383445123	1.447130673
43° 42′ 50″ 43° 43′ 00″	0.69105764	0.72279965	0.956084640	1.045932503	1.383509248	1.447057290
	0.69109268	0.72276615	0.956177442	1.045830989 1.045729486	1.383573381	1.446983918
43° 43′ 10″ 43° 43′ 20″	0.69112772	0.72273264	0.956270253		1.383637524	1.446910556
43° 43′ 20″ 43° 43′ 30″	0.69116276	0.72269913 0.72266562	0.956363073 0.956455901	1.045627993 1.045526510	1.383701675 1.383765836	1.446837206 1.446763866
43° 43′ 40″	0.69119780	0.72263211	0.956548738	1.045326510	1.383830007	1.446/63866
43° 43′ 50″	0.69125285	0.72259860	0.956641583	1.045423036	1.383894186	1.446670337
45 45 50	0.0/120/0/	0.7 4437000	0.730041303	1.043343373	1.303074100	1,44001/417

328 43° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
43° 44′ 00″	0.69130290	0.72256508	0.956734437	1.045222124	1.383958375	1.446543911
43° 44′ 10″	0.69133793	0.72253157	0.956827300	1.045120682	1.384022573	1.446470615
43° 44′ 20″	0.69137296	0.72249805	0.956920171	1.045019251	1.384086780	1.446397329
43° 44′ 30″	0.69140798	0.72246453	0.957013051	1.044917830	1.384150996	1.446324054
43° 44′ 40″	0.69144301	0.72243101	0.957105939	1.044816419	1.384215221	1.446250790
43° 44′ 50″	0.69147803	0.72239749	0.957198837	1.044715018	1.384279456	1.446177537
43° 45′ 00″	0.69151306	0.72236396	0.957291742	1.044613628	1.384343700	1.446104295
43° 45′ 10″	0.69154808	0.72233044	0.957384657	1.044512248	1.384407953	1.446031063
43° 45′ 20″	0.69158309	0.72229691	0.957477580	1.044410878	1.384472215	1.445957843
43° 45′ 30″	0.69161811	0.72226338	0.957570511	1.044309519	1.384536487	1.445884633
43° 45′ 40″	0.69165313	0.72222985	0.957663451	1.044208170	1.384600768	1.445811434
43° 45′ 50″	0.69168814	0.72219631	0.957756400	1.044106831	1.384665058	1.445738245
43° 46′ 00″	0.69172315	0.72216278	0.957849358	1.044005502	1.384729357	1.445665068
43° 46′ 10″	0.69175816	0.72212924	0.957942324	1.043904184	1.384793666	1.445591901
43° 46′ 20″	0.69179317	0.72209570	0.958035299	1.043802876	1.384857983	1.445518745
43° 46′ 30″	0.69182818	0.72206216	0.958128282	1.043701578	1.384922310	1.445445600
43° 46′ 40″	0.69186319	0.72202862	0.958221274	1.043600290	1.384986646	1.445372466
43° 46′ 50″	0.69189819	0.72199508	0.958314275	1.043499013	1.385050992	1.445299343
43° 47′ 00″	0.69193319	0.72196153	0.958407284	1.043397746	1.385115346	1.445226230
43° 47′ 10″	0.69196819	0.72192799	0.958500302	1.043296489	1.385179710	1.445153128
43° 47′ 20″	0.69200319	0.72189444	0.958593329	1.043195242	1.385244083	1.445080037
43° 47′ 30″	0.69203819	0.72186089	0.958686364	1.043094006	1.385308466	1.445006957
43° 47′ 40″	0.69207319	0.72182734	0.958779408	1.042992780	1.385372857	1.444933887
43° 47′ 50″	0.69210818	0.72179378	0.958872461	1.042891564	1.385437258	1.444860828
43° 48′ 00″	0.69214317	0.72176023	0.958965522	1.042790358	1.385501668	1.444787781
43° 48′ 10″	0.69217816	0.72172667	0.959058592	1.042689163	1.385566087	1.444714743
43° 48′ 20″	0.69221315	0.72169311	0.959151670	1.042587977	1.385630516	1.444641717
43° 48′ 30″	0.69224814	0.72165955	0.959244758	1.042486802	1.385694954	1.444568701
43° 48′ 40″	0.69228313	0.72162599	0.959337853	1.042385638	1.385759401	1.444495697
43° 48′ 50″	0.69231811	0.72159243	0.959430958	1.042284483	1.385823857	1.444422703
43° 49′ 00″	0.69235310	0.72155886	0.959524071	1.042183339	1.385888323	1.444349719
43° 49′ 10″	0.69238808	0.72152529	0.959617193	1.042082205	1.385952798	1.444276747
43° 49′ 20″ 43° 49′ 30″	0.69242306	0.72149173	0.959710323	1.041981081	1.386017282	1.444203785
	0.69245804	0.72145815	0.959803463	1.041879967	1.386081775	1.444130834
43° 49′ 40″	0.69249301	0.72142458	0.959896610	1.041778864	1.386146278	1.444057894
43° 49′ 50″ 43° 50′ 00″	0.69252799	0.72139101	0.959989767	1.041677770	1.386210789	1.443984964
43° 50′ 10″	0.69256296	0.72135743	0.960082932	1.041576687	1.386275311	1.443912046 1.443839138
43° 50′ 10″ 43° 50′ 20″	0.69259793	0.72132386	0.960176106	1.041475614	1.386339841 1.386404381	
43° 50′ 30″	0.69263290	0.72129028 0.72125670	0.960269289	1.041374552 1.041273499		1.443766241 1.443693354
43° 50′ 40″	0.69270284	0.72123670	0.960362480 0.960455680		1.386468930 1.386533488	1.443673334
43° 50′ 50″	0.69270284	0.72122311	0.960548888	1.041172457 1.041071425	1.386598055	1.443547613
43° 51′ 00″	0.69273780	0.72118933	0.960548888	1.041071423	1.386662632	1.4433474759
43° 51′ 10″	0.69280773	0.72113374	0.960642103	1.040970403	1.386727218	1.443474739
43° 51′ 20″	0.69284269	0.72112236	0.960828566	1.040869392	1.386791813	1.443329083
43° 51′ 30″	0.69287765	0.72108877	0.960921809	1.040766390	1.386856418	1.443256261
43° 51′ 40″	0.69291260	0.72103318	0.961015061	1.040566418	1.386921032	1.443183450
43° 51′ 50″	0.69294756	0.72102138	0.961108322	1.040366418	1.386985655	1.443110650
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329 43° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\csc(x)$
43° 52′ 00″	0.69298251	0.72095439	0.961201591	1.040364487	1.387050287	1.443037860
43° 52′ 10″	0.69301746	0.72092080	0.961201391	1.040364467	1.387114929	1.443037860
43° 52′ 20″	0.69305241	0.72072080	0.961388156	1.040263336	1.387179580	1.442892313
43° 52′ 30″						
43° 52′ 40″	0.69308736	0.72085360	0.961481452	1.040061666	1.387244240	1.442819555
43° 52′ 40″ 43° 52′ 50″	0.69312231	0.72081999	0.961574756	1.039960746	1.387308910	1.442746808
43° 53′ 00″	0.69315726	0.72078639	0.961668069	1.039859836	1.387373589	1.442674072
43° 53′ 10″	0.69319220	0.72075278	0.961761390	1.039758936	1.387438277	1.442601347
43° 53′ 10″ 43° 53′ 20″	0.69322714	0.72071918 0.72068557	0.961854720	1.039658047	1.387502974	1.442528632
43° 53′ 20″ 43° 53′ 30″	0.69326208		0.961948059	1.039557168	1.387567681 1.387632397	1.442455928
43° 53′ 40″	0.69329702	0.72065196	0.962041407	1.039456299		1.442383235
43° 53′ 50″	0.69333196	0.72061834	0.962134763	1.039355440	1.387697122	1.442310553
43° 54′ 00″	0.69336689	0.72058473	0.962228129	1.039254591	1.387761857	1.442237881
43° 54′ 10″	0.69340183	0.72055111	0.962321502	1.039153752	1.387826601	1.442165220
43° 54′ 10″ 43° 54′ 20″	0.69343676	0.72051749	0.962414885	1.039052924	1.387891354	1.442092569
43° 54′ 30″	0.69347169 0.69350662	0.72048387 0.72045025	0.962508276	1.038952106 1.038851297	1.387956117 1.388020888	1.442019930 1.441947301
43° 54′ 40″		0.72043023	0.962601676			
43° 54′ 40″ 43° 54′ 50″	0.69354155		0.962695085	1.038750499	1.388085670	1.441874683
43° 55′ 00″	0.69357647	0.72038301	0.962788502	1.038649712	1.388150460	1.441802075
43° 55′ 10″		0.72034938	0.962881928	1.038548934	1.388215260	1.441729478
43° 55′ 20″	0.69364632	0.72031575	0.962975363	1.038448166	1.388280069	1.441656892 1.441584317
43° 55′ 30″	0.69368124	0.72028212	0.963068806	1.038347409	1.388344887 1.388409715	1.441511752
43° 55′ 40″	0.69371616	0.72024849	0.963162259	1.038246662		
43° 55′ 50″	0.69375108	0.72021486 0.72018122	0.963255720 0.963349189	1.038145925 1.038045198	1.388474552 1.388539398	1.441439198 1.441366655
43° 56′ 00″	0.69382091	0.72018122	0.963442668	1.037944481	1.388604254	1.441294122
43° 56′ 10″	0.67382071	0.72014738	0.963536155	1.037843774	1.388669119	1.441221600
43° 56′ 20″	0.67383382	0.72011373	0.963629651	1.037743078	1.388733993	1.441149089
43° 56′ 30″	0.67367073	0.72004667	0.963723156	1.037642391	1.388798877	1.441076588
43° 56′ 40″	0.67372304	0.72001302	0.963816669	1.037541715	1.388863770	1.441004098
43° 56′ 50″	0.69399546	0.71997938	0.963910191	1.037441049	1.388928672	1.440931619
43° 57′ 00″	0.69403036	0.71777738	0.964003722	1.037340393	1.388993584	1.440859150
43° 57′ 10″	0.69406527	0.71774373	0.964097262	1.037340373	1.389058505	1.440786692
43° 57′ 20″	0.69410017	0.71771200	0.964190810	1.037139111	1.389123435	1.440714245
43° 57′ 30″	0.69413507	0.71984478	0.964284367	1.037038486	1.389188375	1.440641809
43° 57′ 40″	0.69416997	0.71981113	0.964377933	1.036937870	1.389253324	1.440569383
43° 57′ 50″	0.69420486	0.71977747	0.964471508	1.036837265	1.389318282	1.440496968
43° 58′ 00″	0.69423976	0.71974381	0.964565091	1.036736669	1.389383250	1.440424563
43° 58′ 10″	0.69427465	0.71971016	0.964658683	1.036636084	1.389448227	1.440352169
43° 58′ 20″	0.69430954	0.71967650	0.964752284	1.036535509	1.389513213	1.440279786
43° 58′ 30″	0.69434443	0.71964283	0.964845894	1.036434944	1.389578209	1.440207413
43° 58′ 40″	0.69437932	0.71960917	0.964939512	1.036334389	1.389643214	1.440135051
43° 58′ 50″	0.69441421	0.71957550	0.965033139	1.036233844	1.389708228	1.440062700
43° 59′ 00″	0.69444909	0.71757330	0.965126775	1.036133310	1.389773252	1.439990360
43° 59′ 10″	0.69448398	0.71950817	0.965220420	1.036032785	1.389838285	1.439918030
43° 59′ 20″	0.69451886	0.71730017	0.965314073	1.035932271	1.389903328	1.439845710
43° 59′ 30″	0.69455374	0.71747430	0.965407736	1.035831766	1.389968379	1.439773402
43° 59′ 40″	0.69458862	0.71744003	0.965501407	1.035731272	1.390033441	1.439701104
43° 59′ 50″	0.69462350	0.71740713	0.965595086	1.035630788	1.390098511	1.439628816
=======================================	0.07 102330	0.7 17373 T 0	0.703373000	1.033030700	1.370070311	1.13/020010

330 43° 59′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
44° 00′ 00″	0.69465837	0.71933980	0.965688775	1.035530314	1.390163591	1.439556540
44° 00′ 10″	0.69469324	0.71930612	0.965782472	1.035429850	1.390228680	1.439484274
44° 00′ 20″	0.69472812	0.71927244	0.965876178	1.035329396	1.390293779	1.439412018
44° 00′ 30″	0.69476299	0.71923876	0.965969893	1.035228952	1.390358887	1.439339773
44° 00′ 40″	0.69479786	0.71920507	0.966063617	1.035128518	1.390424004	1.439267539
44° 00′ 50″	0.69483272	0.71917139	0.966157349	1.035028095	1.390489131	1.439195316
44° 01′ 00″	0.69486759	0.71913770	0.966251090	1.034927681	1.390554267	1.439123103
44° 01′ 10″	0.69490245	0.71910401	0.966344840	1.034827277	1.390619412	1.439050900
44° 01′ 20″	0.69493731	0.71907032	0.966438599	1.034726884	1.390684567	1.438978709
44° 01′ 30″	0.69497218	0.71903663	0.966532366	1.034626501	1.390749731	1.438906528
44° 01′ 40″	0.69500703	0.71900294	0.966626143	1.034526127	1.390814905	1.438834357
44° 01′ 50″	0.69504189	0.71896924	0.966719928	1.034425764	1.390880088	1.438762198
44° 02′ 00″	0.69507675	0.71893554	0.966813722	1.034325411	1.390945280	1.438690048
44° 02′ 10″	0.69511160	0.71890184	0.966907524	1.034225068	1.391010482	1.438617910
44° 02′ 20″	0.69514645	0.71886814	0.967001336	1.034124735	1.391075693	1.438545782
44° 02′ 30″	0.69518131	0.71883444	0.967095156	1.034024412	1.391140913	1.438473665
44° 02′ 40″	0.69521615	0.71880074	0.967188985	1.033924099	1.391206143	1.438401558
44° 02′ 50″	0.69525100	0.71876703	0.967282823	1.033823796	1.391271383	1.438329462
44° 03′ 00″	0.69528585	0.71873332	0.967376670	1.033723503	1.391336631	1.438257376
44° 03′ 10″	0.69532069	0.71869961	0.967470525	1.033623220	1.391401889	1.438185302
44° 03′ 20″	0.69535554	0.71866590	0.967564390	1.033522948	1.391467157	1.438113237
44° 03′ 30″	0.69539038	0.71863219	0.967658263	1.033422685	1.391532434	1.438041184
44° 03′ 40″	0.69542522	0.71859848	0.967752145	1.033322432	1.391597720	1.437969141
44° 03′ 50″	0.69546005	0.71856476	0.967846035	1.033222190	1.391663015	1.437897108
44° 04′ 00″	0.69549489	0.71853104	0.967939935	1.033121957	1.391728320	1.437825086
44° 04′ 10″	0.69552972	0.71849732	0.968033843	1.033021735	1.391793635	1.437753075
44° 04′ 20″	0.69556456	0.71846360	0.968127760	1.032921522	1.391858959	1.437681074
44° 04′ 30″	0.69559939	0.71842988	0.968221686	1.032821320	1.391924292	1.437609084
44° 04′ 40″	0.69563422	0.71839615	0.968315621	1.032721127	1.391989634	1.437537105
44° 04′ 50″	0.69566905	0.71836243	0.968409565	1.032620945	1.392054986	1.437465136
44° 05′ 00″	0.69570387	0.71832870	0.968503517	1.032520773	1.392120348	1.437393177
44° 05′ 10″	0.69573870	0.71829497	0.968597478	1.032420610	1.392185719	1.437321230
44° 05′ 20″	0.69577352	0.71826124	0.968691449	1.032320458	1.392251099	1.437249292
44° 05′ 30″	0.69580834	0.71822751	0.968785427	1.032220316	1.392316489	1.437177366
44° 05′ 40″	0.69584316	0.71819377	0.968879415	1.032120184	1.392381888	1.437105450
44° 05′ 50″	0.69587798	0.71816004	0.968973412	1.032020061	1.392447296	1.437033544
44° 06′ 00″	0.69591280	0.71812630	0.969067417	1.031919949	1.392512714	1.436961649
44° 06′ 10″	0.69594761	0.71809256	0.969161431	1.031819847	1.392578141	1.436889765
44° 06′ 20″	0.69598242	0.71805882	0.969255454	1.031719755	1.392643578	1.436817891
44° 06′ 30″	0.69601724	0.71802507	0.969349486	1.031619673	1.392709024	1.436746028
44° 06′ 40″	0.69605205	0.71799133	0.969443527	1.031519601	1.392774480	1.436674176
44° 06′ 50″	0.69608685	0.71795758	0.969537577	1.031419539	1.392839945	1.436602333
44° 07′ 00″	0.69612166	0.71792383	0.969631635	1.031319486	1.392905420	1.436530502
44° 07′ 10″	0.69615647	0.71789008	0.969725702	1.031219444	1.392970903	1.436458681
44° 07′ 20″	0.69619127	0.71785633	0.969819779	1.031119412	1.393036397	1.436386871
44° 07′ 30″	0.69622607	0.71782258	0.969913864	1.031019390	1.393101900	1.436315071
44° 07′ 40″	0.69626087	0.71778883	0.970007957	1.030919378	1.393167412	1.436243282
44° 07′ 50″	0.69629567	0.71775507	0.970102060	1.030819376	1.393232933	1.436171503
44 07 50"	0.0702736/	0./1//330/	0.770102060	1.0300173/6	1.373434733	1.4301/1303

331 44° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
44° 08′ 00″	0.69633047	0.71772131	0.970196171	1.030719384	1.393298464	1.436099735
44° 08′ 10″	0.69636526	0.71768755	0.970290292	1.030619402	1.393364005	1.436027977
44° 08′ 20″	0.69640006	0.71765379	0.970384421	1.030519429	1.393429555	1.435956230
44° 08′ 30″	0.69643485	0.71762003	0.970478559	1.030419467	1.393495114	1.435884494
44° 08′ 40″	0.69646964	0.71758626	0.970572706	1.030319515	1.393560683	1.435812768
44° 08′ 50″	0.69650443	0.71755249	0.970666862	1.030219573	1.393626262	1.435741052
44° 09′ 00″	0.69653921	0.71751873	0.970761027	1.030119641	1.393691849	1.435669347
44° 09′ 10″	0.69657400	0.71748496	0.970855200	1.030019719	1.393757446	1.435597653
44° 09′ 20″	0.69660878	0.71745118	0.970949382	1.029919806	1.393823053	1.435525969
44° 09′ 30″	0.69664357	0.71741741	0.971043574	1.029819904	1.393888669	1.435454296
44° 09′ 40″	0.69667835	0.71738364	0.971137774	1.029720012	1.393954295	1.435382633
44° 09′ 50″	0.69671313	0.71734986	0.971231983	1.029620130	1.394019930	1.435310981
44° 10′ 00″	0.69674790	0.71731608	0.971326201	1.029520257	1.394085574	1.435239339
44° 10′ 10″	0.69678268	0.71728230	0.971420427	1.029420395	1.394151228	1.435167708
44° 10′ 20″	0.69681745	0.71724852	0.971514663	1.029320542	1.394216892	1.435096087
44° 10′ 30″	0.69685223	0.71721474	0.971608908	1.029220700	1.394282564	1.435024477
44° 10′ 40″	0.69688700	0.71718095	0.971703161	1.029120868	1.394348247	1.434952877
44° 10′ 50″	0.69692177	0.71714716	0.971797423	1.029021045	1.394413938	1.434881288
44° 11′ 00″	0.69695653	0.71711337	0.971891694	1.028921232	1.394479640	1.434809710
44° 11′ 10″	0.69699130	0.71707958	0.971985974	1.028821430	1.394545350	1.434738141
44° 11′ 20″	0.69702606	0.71704579	0.972080263	1.028721637	1.394611071	1.434666584
44° 11′ 30″	0.69706083	0.71701200	0.972174561	1.028621855	1.394676800	1.434595037
44° 11′ 40″	0.69709559	0.71697820	0.972268868	1.028522082	1.394742539	1.434523500
44° 11′ 50″	0.69713035	0.71694441	0.972363183	1.028422319	1.394808288	1.434451974
44° 12′ 00″	0.69716510	0.71691061	0.972457508	1.028322566	1.394874046	1.434380459
44° 12′ 10″	0.69719986	0.71687681	0.972551841	1.028222823	1.394939814	1.434308954
44° 12′ 20″	0.69723461	0.71684301	0.972646183	1.028123090	1.395005591	1.434237459
44° 12′ 30″	0.69726937	0.71680920	0.972740535	1.028023367	1.395071377	1.434165975
44° 12′ 40″	0.69730412	0.71677540	0.972834895	1.027923654	1.395137173	1.434094501
44° 12′ 50″	0.69733887	0.71674159	0.972929264	1.027823951	1.395202979	1.434023038
44° 13′ 00″	0.69737361	0.71670778	0.973023642	1.027724258	1.395268794	1.433951586
44° 13′ 10″	0.69740836	0.71667397	0.973118028	1.027624575	1.395334618	1.433880144
44° 13′ 20″	0.69744310	0.71664016	0.973212424	1.027524901	1.395400452	1.433808712
44° 13′ 30″	0.69747785	0.71660634	0.973306829	1.027425238	1.395466296	1.433737291
44° 13′ 40″	0.69751259	0.71657253	0.973401242	1.027325585	1.395532149	1.433665880
44° 13′ 50″	0.69754733	0.71653871	0.973495664	1.027225941	1.395598011	1.433594480
44° 14′ 00″	0.69758207	0.71650489	0.973590096	1.027126307	1.395663883	1.433523091
44° 14′ 10″	0.69761680	0.71647107	0.973684536	1.027026684	1.395729765	1.433451711
44° 14′ 20″	0.69765154	0.71643725	0.973778985	1.026927070	1.395795655	1.433380343
44° 14′ 30″	0.69768627	0.71640343	0.973873443	1.026827466	1.395861556	1.433308985
44° 14′ 40″	0.69772100	0.71636960	0.973967910	1.026727872	1.395927466	1.433237637
44° 14′ 50″	0.69775573	0.71633577	0.974062386	1.026628288	1.395993385	1.433166300
44° 15′ 00″	0.69779046	0.71630194	0.974156871	1.026528714	1.396059314	1.433094973
44° 15′ 10″	0.69782519	0.71626811	0.974251365	1.026429150	1.396125253	1.433023656
44° 15′ 20″	0.69785991	0.71623428	0.974345867	1.026329596	1.396191201	1.432952350
44° 15′ 30″	0.69789463	0.71620045	0.974440379	1.026230051	1.396257158	1.432881055
44° 15′ 40″	0.69792936	0.71616661	0.974534900	1.026130517	1.396323125	1.432809770
44° 15′ 50″	0.69796408	0.71613277	0.974629429	1.026030992	1.396389102	1.432738496

332 44° 15′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
44° 16′ 00″	0.69799879	0.71609893	0.974723967	1.025931477	1.396455088	1.432667232
44° 16′ 10″	0.69803351	0.71606509	0.974818515	1.025831973	1.396521084	1.432595978
44° 16′ 20″	0.69806823	0.71603125	0.974913071	1.025732478	1.396587089	1.432524735
44° 16′ 30″	0.69810294	0.71599741	0.975007636	1.025632993	1.396653103	1.432453502
44° 16′ 40″	0.69813765	0.71596356	0.975102210	1.025533518	1.396719127	1.432382280
44° 16′ 50″	0.69817236	0.71592971	0.975196794	1.025434053	1.396785161	1.432311068
44° 17′ 00″	0.69820707	0.71589586	0.975291386	1.025334597	1.396851204	1.432239867
44° 17′ 10″	0.69824178	0.71586201	0.975385987	1.025235152	1.396917257	1.432168676
44° 17′ 20″	0.69827648	0.71582816	0.975480596	1.025135716	1.396983319	1.432097496
44° 17′ 30″	0.69831118	0.71579431	0.975575215	1.025036291	1.397049391	1.432026326
44° 17′ 40″	0.69834589	0.71576045	0.975669843	1.024936875	1.397115472	1.431955166
44° 17′ 50″	0.69838059	0.71572659	0.975764480	1.024837469	1.397181563	1.431884017
44° 18′ 00″	0.69841529	0.71569273	0.975859126	1.024738073	1.397247664	1.431812878
44° 18′ 10″	0.69844998	0.71565887	0.975953780	1.024638687	1.397313774	1.431741750
44° 18′ 20″	0.69848468	0.71562501	0.976048444	1.024539311	1.397379893	1.431670632
44° 18′ 30″	0.69851937	0.71559115	0.976143117	1.024439944	1.397446022	1.431599525
44° 18′ 40″	0.69855406	0.71555728	0.976237798	1.024340588	1.397512161	1.431528428
44° 18′ 50″	0.69858875	0.71552341	0.976332489	1.024241241	1.397578309	1.431457341
44° 19′ 00″	0.69862344	0.71548954	0.976427188	1.024141904	1.397644466	1.431386265
44° 19′ 10″	0.69865813	0.71545567	0.976521897	1.024042577	1.397710634	1.431315199
44° 19′ 20″	0.69869281	0.71542180	0.976616614	1.023943260	1.397776810	1.431244144
44° 19′ 30″	0.69872750	0.71538792	0.976711341	1.023843953	1.397842997	1.431173099
44° 19′ 40″	0.69876218	0.71535405	0.976806076	1.023744656	1.397909192	1.431102065
44° 19′ 50″	0.69879686	0.71532017	0.976900820	1.023645368	1.397975398	1.431031041
44° 20′ 00″	0.69883154	0.71528629	0.976995574	1.023546091	1.398041613	1.430960027
44° 20′ 10″	0.69886622	0.71525241	0.977090336	1.023446823	1.398107837	1.430889024
44° 20′ 20″	0.69890089	0.71521853	0.977185107	1.023347565	1.398174071	1.430818031
44° 20′ 30″	0.69893557	0.71518464	0.977279888	1.023248317	1.398240315	1.430747049
44° 20′ 40″	0.69897024	0.71515076	0.977374677	1.023149078	1.398306568	1.430676077
44° 20′ 50″	0.69900491	0.71511687	0.977469475	1.023049850	1.398372831	1.430605115
44° 21′ 00″	0.69903958	0.71508298	0.977564282	1.022950632	1.398439103	1.430534164
44° 21′ 10″	0.69907425	0.71504909	0.977659099	1.022851423	1.398505385	1.430463223
44° 21′ 20″	0.69910891	0.71501519	0.977753924	1.022752224	1.398571677	1.430392293
44° 21′ 30″	0.69914358	0.71498130	0.977848758	1.022653035	1.398637978	1.430321373
44° 21′ 40″	0.69917824	0.71494740	0.977943601	1.022553856	1.398704289	1.430250463
44° 21′ 50″	0.69921290	0.71491351	0.978038453	1.022454686	1.398770609	1.430179564
44° 22′ 00″	0.69924756	0.71487961	0.978133314	1.022355527	1.398836939	1.430108675
44° 22′ 10″	0.69928222	0.71484571	0.978228185	1.022256377	1.398903278	1.430037797
44° 22′ 20″	0.69931687	0.71481180	0.978323064	1.022157237	1.398969627	1.429966929
44° 22′ 30″	0.69935153	0.71477790	0.978417952	1.022058107	1.399035985	1.429896071
44° 22′ 40″	0.69938618	0.71474399	0.978512849	1.021958987	1.399102354	1.429825224
44° 22′ 50″	0.69942083	0.71471008	0.978607755	1.021859877	1.399168731	1.429754387
44° 23′ 00″	0.69945548	0.71467617	0.978702670	1.021760776	1.399235119	1.429683561
44° 23′ 10″	0.69949013	0.71464226	0.978797595	1.021661685	1.399301515	1.429612744
44° 23′ 20″	0.69952477	0.71460835	0.978892528	1.021562604	1.399367922	1.429541939
44° 23′ 30″	0.69955942	0.71457443	0.978987470	1.021463533	1.399434338	1.429471143
44° 23′ 40″ 44° 23′ 50″	0.69959406	0.71454052	0.979082421	1.021364472	1.399500764	1.429400358
44 45 50"	0.69962870	0.71450660	0.979177381	1.021265420	1.399567199	1.429329584

333 44° 23′ 50″

	$\sin(\mathbf{x})$	$\cos(\mathbf{x})$	$\mathbf{tan}(\mathbf{x})$	$\mathbf{cot}(\mathbf{x})$	$\mathbf{sec}(\mathbf{x})$	$\mathbf{csc}(\mathbf{x})$
44° 24′ 00″	0.69966334	0.71447268	0.979272351	1.021166379	1.399633644	1.429258819
44° 24′ 10″	0.69969798	0.71443876	0.979367329	1.021067347	1.399700098	1.429188065
44° 24′ 20″	0.69973261	0.71440484	0.979462316	1.020968325	1.399766562	1.429117322
44° 24′ 30″	0.69976725	0.71437091	0.979557313	1.020869312	1.399833036	1.429046589
44° 24′ 40″	0.69980188	0.71433698	0.979652318	1.020770310	1.399899519	1.428975866
44° 24′ 50″	0.69983651	0.71430306	0.979747332	1.020671317	1.399966012	1.428905153
44° 25′ 00″	0.69987114	0.71426913	0.979842356	1.020572334	1.400032515	1.428834451
44° 25′ 10″	0.69990577	0.71423519	0.979937388	1.020473361	1.400099027	1.428763760
44° 25′ 20″	0.69994040	0.71420126	0.980032429	1.020374398	1.400165548	1.428693078
44° 25′ 30″	0.69997502	0.71416733	0.980127480	1.020275444	1.400232080	1.428622407
44° 25′ 40″	0.70000964	0.71413339	0.980222539	1.020176500	1.400298621	1.428551746
44° 25′ 50″	0.70004427	0.71409945	0.980317608	1.020077567	1.400365171	1.428481096
44° 26′ 00″	0.70007889	0.71406551	0.980412686	1.019978642	1.400431731	1.428410456
44° 26′ 10″	0.70011350	0.71403157	0.980507772	1.019879728	1.400498301	1.428339826
44° 26′ 20″	0.70014812	0.71399763	0.980602868	1.019780823	1.400564880	1.428269207
44° 26′ 30″	0.70018273	0.71396368	0.980697973	1.019681929	1.400631470	1.428198598
44° 26′ 40″	0.70021735	0.71392973	0.980793086	1.019583044	1.400698068	1.428127999
44° 26′ 50″	0.70025196	0.71389579	0.980888209	1.019484168	1.400764676	1.428057411
44° 27′ 00″	0.70028657	0.71386184	0.980983341	1.019385303	1.400831294	1.427986833
44° 27′ 10″	0.70032118	0.71382788	0.981078482	1.019286447	1.400897922	1.427916265
44° 27′ 20″	0.70035578	0.71379393	0.981173632	1.019187601	1.400964559	1.427845708
44° 27′ 30″	0.70039039	0.71375998	0.981268791	1.019088765	1.401031206	1.427775161
44° 27′ 40″	0.70042499	0.71372602	0.981363959	1.018989938	1.401097862	1.427704624
44° 27′ 50″	0.70045959	0.71369206	0.981459136	1.018891122	1.401164528	1.427634098
44° 28′ 00″	0.70049419	0.71365810	0.981554322	1.018792315	1.401231204	1.427563582
44° 28′ 10″	0.70052879	0.71362414	0.981649517	1.018693518	1.401297889	1.427493076
44° 28′ 20″	0.70056339	0.71359018	0.981744722	1.018594730	1.401364584	1.427422581
44° 28′ 30″	0.70059798	0.71355621	0.981839935	1.018495953	1.401431289	1.427352096
44° 28′ 40″	0.70063258	0.71352224	0.981935157	1.018397185	1.401498003	1.427281621
	0.70066717	0.71348828	0.982030389	1.018298427	1.401564727	1.427211157
44° 29′ 00″	0.70070176	0.71345431	0.982125629	1.018199678	1.401631461	1.427140703
	0.70073635	0.71342033	0.982220879	1.018100940	1.401698204	1.427070259
	0.70077093	0.71338636	0.982316138	1.018002211	1.401764957	1.426999825
I	0.70080552	0.71335238	0.982411405	1.017903492	1.401831719	1.426929402
	0.70084010	0.71331841	0.982506682	1.017804783	1.401898492	1.426858989
	0.70087468	0.71328443	0.982601968	1.017706083	1.401965273	1.426788587
	0.70090926	0.71325045	0.982697263	1.017607393	1.402032065	1.426718194
	0.70094384	0.71321647	0.982792567	1.017508713	1.402098866	1.426647812
I	0.70097842	0.71318248	0.982887880	1.017410042	1.402165677	1.426577441
	0.70101299	0.71314850	0.982983203	1.017311382	1.402232497	1.426507079
	0.70104757	0.71311451	0.983078534	1.017212731	1.402299327	1.426436728
	0.70108214	0.71308052	0.983173874	1.017114090	1.402366167	1.426366387
	0.70111671	0.71304653	0.983269224	1.017015458	1.402433017	1.426296057
	0.70115128	0.71301254	0.983364582	1.016916836	1.402499876	1.426225737
	0.70118585	0.71297855	0.983459950	1.016818224	1.402566745	1.426155427
	0.70122041	0.71294455	0.983555327	1.016719622	1.402633623	1.426085127
I	0.70125498	0.71291055	0.983650713	1.016621029	1.402700511	1.426014838
44° 31′ 50″	0.70128954	0.71287656	0.983746108	1.016522446	1.402767409	1.425944559

334 44° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
44° 32′ 00″	0.70132410	0.71284256	0.983841512	1.016423873	1.402834317	1.425874290
44° 32′ 10″	0.70135866	0.71280855	0.983936925	1.016325310	1.402901234	1.425804031
44° 32′ 20″	0.70139321	0.71277455	0.984032347	1.016226756	1.402968161	1.425733783
44° 32′ 30″	0.70142777	0.71274054	0.984127779	1.016128212	1.403035097	1.425663545
44° 32′ 40″	0.70146232	0.71270654	0.984223219	1.016029678	1.403102044	1.425593317
44° 32′ 50″	0.70149688	0.71267253	0.984318669	1.015931153	1.403169000	1.425523100
44° 33′ 00″	0.70153143	0.71263852	0.984414127	1.015832638	1.403235965	1.425452892
44° 33′ 10″	0.70156597	0.71260451	0.984509595	1.015734133	1.403302941	1.425382696
44° 33′ 20″	0.70160052	0.71257049	0.984605072	1.015635637	1.403369926	1.425312509
44° 33′ 30″	0.70163507	0.71253648	0.984700558	1.015537152	1.403436920	1.425242332
44° 33′ 40″	0.70166961	0.71250246	0.984796053	1.015438675	1.403503925	1.425172166
44° 33′ 50″	0.70170415	0.71246844	0.984891558	1.015340209	1.403570939	1.425102010
44° 34′ 00″	0.70173869	0.71243442	0.984987071	1.015241752	1.403637963	1.425031865
44° 34′ 10″	0.70177323	0.71240040	0.985082594	1.015143305	1.403704996	1.424961729
44° 34′ 20″	0.70180777	0.71236638	0.985178125	1.015044868	1.403772039	1.424891604
44° 34′ 30″	0.70184231	0.71233235	0.985273666	1.014946440	1.403839092	1.424821489
44° 34′ 40″	0.70187684	0.71229832	0.985369216	1.014848022	1.403906155	1.424751385
44° 34′ 50″	0.70191137	0.71226429	0.985464775	1.014749614	1.403973227	1.424681290
44° 35′ 00″	0.70194590	0.71223026	0.985560343	1.014651215	1.404040309	1.424611206
44° 35′ 10″	0.70198043	0.71219623	0.985655920	1.014552826	1.404107401	1.424541132
44° 35′ 20″	0.70201496	0.71216220	0.985751507	1.014454447	1.404174502	1.424471069
44° 35′ 30″	0.70204949	0.71212816	0.985847102	1.014356078	1.404241614	1.424401015
44° 35′ 40″	0.70208401	0.71209413	0.985942707	1.014257718	1.404308735	1.424330972
44° 35′ 50″	0.70211853	0.71206009	0.986038321	1.014159367	1.404375865	1.424260939
44° 36′ 00″	0.70215305	0.71202605	0.986133944	1.014061027	1.404443005	1.424190916
44° 36′ 10″	0.70218757	0.71199200	0.986229576	1.013962696	1.404510156	1.424120904
44° 36′ 20″	0.70222209	0.71195796	0.986325217	1.013864375	1.404577315	1.424050902
44° 36′ 30″	0.70225661	0.71192391	0.986420868	1.013766063	1.404644485	1.423980910
44° 36′ 40″	0.70229112	0.71188987	0.986516527	1.013667761	1.404711664	1.423910928
44° 36′ 50″	0.70232563	0.71185582	0.986612196	1.013569469	1.404778853	1.423840956
44° 37′ 00″	0.70236014	0.71182177	0.986707874	1.013471187	1.404846052	1.423770995
44° 37′ 10″	0.70239465	0.71178772	0.986803561	1.013372914	1.404913260	1.423701044
44° 37′ 20″ 44° 37′ 30″	0.70242916	0.71175366	0.986899257	1.013274650	1.404980478	1.423631103
44° 37′ 40″	0.70246367	0.71171961	0.986994963	1.013176397	1.405047706	1.423561172 1.423491252
44° 37′ 40″ 44° 37′ 50″	0.70249817	0.71168555 0.71165149	0.987090677	1.013078153	1.405114944	1.423491232
44° 38′ 00″	0.70253267		0.987186401 0.987282134	1.012979919 1.012881694	1.405182191	
44° 38′ 10″	0.70256717	0.71161743 0.71158337	0.987377876	1.012783479	1.405249448 1.405316715	1.423351441 1.423281552
44° 38′ 20″	0.70260167	0.71156557	0.987473627	1.012/854/9	1.405383992	1.423211672
44° 38′ 30″	0.70263617	0.71154730	0.987569387	1.012587078	1.405355772	1.423141803
44° 38′ 40″	0.70267067	0.71131324	0.987665157	1.012488892	1.405451278	1.423141803
44° 38′ 50″	0.70270316	0.71148117	0.987760935	1.012466672	1.405585880	1.423071743
44° 39′ 00″	0.70273763	0.71144710	0.987856723	1.012292549	1.405653195	1.422932256
44° 39′ 10″	0.70277413	0.71141303	0.987952520	1.012194391	1.405720521	1.422862427
44° 39′ 20″	0.70284312	0.71137676	0.988048326	1.012174371	1.405787856	1.422792609
44° 39′ 30″	0.70284312	0.71131081	0.988144142	1.011998106	1.405855201	1.422722800
44° 39′ 40″	0.70291209	0.71127673	0.988239966	1.011899978	1.405922555	1.422653002
44° 39′ 50″	0.70294658	0.71124265	0.988335800	1.011801859	1.405989920	1.422583214
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335 44° 39′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
44° 40′ 00″	0.70298106	0.71120857	0.988431643	1.011703750	1.406057294	1.422513437
44° 40′ 10″	0.70301554	0.71117449	0.988527495	1.011605651	1.406124678	1.422443669
44° 40′ 20″	0.70305001	0.71114041	0.988623357	1.011507561	1.406192071	1.422373912
44° 40′ 30″	0.70308449	0.71110632	0.988719227	1.011409481	1.406259475	1.422304165
44° 40′ 40″	0.70311897	0.71107223	0.988815107	1.011311410	1.406326888	1.422234428
44° 40′ 50″	0.70315344	0.71103814	0.988910996	1.011213349	1.406394311	1.422164701
44° 41′ 00″	0.70318791	0.71100405	0.989006894	1.011115298	1.406461743	1.422094985
44° 41′ 10″	0.70322238	0.71096996	0.989102801	1.011017256	1.406529186	1.422025278
44° 41′ 20″	0.70325685	0.71093587	0.989198717	1.010919224	1.406596638	1.421955582
44° 41′ 30″	0.70329131	0.71090177	0.989294643	1.010821202	1.406664100	1.421885896
44° 41′ 40″	0.70332578	0.71086767	0.989390578	1.010723189	1.406731572	1.421816220
44° 41′ 50″	0.70336024	0.71083357	0.989486522	1.010625186	1.406799054	1.421746555
44° 42′ 00″	0.70339470	0.71079947	0.989582475	1.010527192	1.406866545	1.421676899
44° 42′ 10″	0.70342916	0.71076537	0.989678438	1.010429208	1.406934046	1.421607254
44° 42′ 20″	0.70346362	0.71073127	0.989774410	1.010331233	1.407001557	1.421537619
44° 42′ 30″	0.70349808	0.71069716	0.989870390	1.010233269	1.407069078	1.421467994
44° 42′ 40″	0.70353253	0.71066305	0.989966381	1.010135313	1.407136608	1.421398379
44° 42′ 50″	0.70356698	0.71062895	0.990062380	1.010037368	1.407204149	1.421328774
44° 43′ 00″	0.70360144	0.71059483	0.990158388	1.009939432	1.407271699	1.421259180
44° 43′ 10″	0.70363589	0.71056072	0.990254406	1.009841505	1.407339259	1.421189595
44° 43′ 20″	0.70367033	0.71052661	0.990350433	1.009743588	1.407406828	1.421120021
44° 43′ 30″	0.70370478	0.71049249	0.990446469	1.009645681	1.407474408	1.421050457
44° 43′ 40″	0.70373923	0.71045837	0.990542515	1.009547783	1.407541997	1.420980903
44° 43′ 50″	0.70377367	0.71042426	0.990638570	1.009449895	1.407609596	1.420911359
44° 44′ 00″	0.70380811	0.71039014	0.990734633	1.009352016	1.407677205	1.420841826
44° 44′ 10″	0.70384255	0.71035601	0.990830707	1.009254147	1.407744824	1.420772302
44° 44′ 20″	0.70387699	0.71032189	0.990926789	1.009156288	1.407812452	1.420702789
44° 44′ 30″	0.70391142	0.71028776	0.991022880	1.009058438	1.407880091	1.420633285
44° 44′ 40″	0.70394586	0.71025364	0.991118981	1.008960598	1.407947739	1.420563792
44° 44′ 50″	0.70398029	0.71021951	0.991215091	1.008862767	1.408015397	1.420494309
44° 45′ 00″	0.70401472	0.71018538	0.991311211	1.008764946	1.408083064	1.420424837
44° 45′ 10″	0.70404915	0.71015124	0.991407339	1.008667135	1.408150742	1.420355374
44° 45′ 20″	0.70408358	0.71011711	0.991503477	1.008569333	1.408218429	1.420285921
44° 45′ 30″	0.70411801	0.71008297	0.991599624	1.008471540	1.408286127	1.420216479
44° 45′ 40″	0.70415243	0.71004884	0.991695780	1.008373757	1.408353834	1.420147047 1.420077625
44° 45′ 50″ 44° 46′ 00″	0.70418686	0.71001470	0.991791946	1.008275984	1.408421550	
	0.70422128	0.70998056	0.991888120	1.008178220	1.408489277	1.420008213
44° 46′ 10″ 44° 46′ 20″	0.70425570	0.70994641	0.991984304 0.992080498	1.008080466	1.408557013	1.419938811
44° 46′ 30″	0.70429012	0.70991227		1.007982722	1.408624760	1.419869419
44° 46′ 30″ 44° 46′ 40″	0.70432453 0.70435895	0.70987812 0.70984398	0.992176700 0.992272912	1.007884986	1.408692516 1.408760282	1.419800037 1.419730666
44° 46′ 40″ 44° 46′ 50″	0.70433893	0.70984398		1.007787261 1.007689545		
44° 46′ 50″ 44° 47′ 00″		0.70980983	0.992369133 0.992465363	1.007689545	1.408828058	1.419661304 1.419591953
44° 47′ 10″ 44° 47′ 10″	0.70442777		0.992561603		1.408895843 1.408963639	1.419591953
44° 47′ 10″ 44° 47′ 20″	0.70446218	0.70974152	0.992657852	1.007494142	1.408963639	
44° 47′ 30″	0.70449659	0.70970737 0.70967321		1.007396454 1.007298776		1.419453281 1.419383960
44° 47′ 40″	0.70453100	0.70967321	0.992754110 0.992850377		1.409099259 1.409167084	1.419383960
44° 47′ 50″	0.70456540	0.70963906	0.992946654	1.007201108 1.007103450	1.409167084	1.419314649
	0.7043/701	0.70700470	0.772740034	1.00/103430	1.70/434717	1.71/243340

336 44° 47′ 50″

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<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(\mathbf{x})$
44° 48′ 00″	0.70463421	0.70957074	0.993042939	1.007005800	1.409302764	1.419176057
44° 48′ 10″	0.70466861	0.70953657	0.993139235	1.006908161	1.409370618	1.419106777
44° 48′ 20″	0.70470301	0.70950241	0.993235539	1.006810531	1.409438483	1.419037506
44° 48′ 30″	0.70473741	0.70946824	0.993331853	1.006712910	1.409506357	1.418968246
44° 48′ 40″	0.70477180	0.70943408	0.993428176	1.006615299	1.409574241	1.418898996
44° 48′ 50″	0.70480619	0.70939991	0.993524508	1.006517697	1.409642135	1.418829756
44° 49′ 00″	0.70484059	0.70936574	0.993620849	1.006420105	1.409710038	1.418760525
44° 49′ 10″	0.70487498	0.70933156	0.993717200	1.006322523	1.409777952	1.418691305
44° 49′ 20″	0.70490936	0.70929739	0.993813560	1.006224950	1.409845876	1.418622095
44° 49′ 30″	0.70494375	0.70926321	0.993909930	1.006127386	1.409913809	1.418552896
44° 49′ 40″	0.70497814	0.70922904	0.994006308	1.006029833	1.409981752	1.418483706
44° 49′ 50″	0.70501252	0.70919486	0.994102696	1.005932288	1.410049705	1.418414526
44° 50′ 00″	0.70504690	0.70916068	0.994199094	1.005834753	1.410117668	1.418345357
44° 50′ 10″	0.70508128	0.70912649	0.994295500	1.005737228	1.410185641	1.418276197
44° 50′ 20″	0.70511566	0.70909231	0.994391916	1.005639712	1.410253624	1.418207048
44° 50′ 30″	0.70515004	0.70905812	0.994488341	1.005542206	1.410321616	1.418137908
44° 50′ 40″	0.70518441	0.70902394	0.994584776	1.005444709	1.410389618	1.418068779
44° 50′ 50″	0.70521879	0.70898975	0.994681219	1.005347221	1.410457631	1.417999660
44° 51′ 00″	0.70525316	0.70895556	0.994777672	1.005249744	1.410525653	1.417930551
44° 51′ 10″	0.70528753	0.70892136	0.994874135	1.005152275	1.410593685	1.417861452
44° 51′ 20″	0.70532190	0.70888717	0.994970606	1.005054816	1.410661727	1.417792363
44° 51′ 30″	0.70535626	0.70885297	0.995067087	1.004957367	1.410729779	1.417723284
44° 51′ 40″	0.70539063	0.70881878	0.995163578	1.004859927	1.410797840	1.417654215
44° 51′ 50″	0.70542499	0.70878458	0.995260077	1.004762497	1.410865912	1.417585156
44° 52′ 00″	0.70545936	0.70875038	0.995356586	1.004665076	1.410933993	1.417516107
44° 52′ 10″	0.70549372	0.70871617	0.995453104	1.004567664	1.411002085	1.417447069
44° 52′ 20″	0.70552807	0.70868197	0.995549632	1.004470263	1.411070186	1.417378040
44° 52′ 30″	0.70556243	0.70864776	0.995646169	1.004372870	1.411138297	1.417309021
44° 52′ 40″	0.70559679	0.70861356	0.995742715	1.004275487	1.411206418	1.417240013
44° 52′ 50″	0.70563114	0.70857935	0.995839270	1.004178114	1.411274549	1.417171014
44° 53′ 00″	0.70566549	0.70854514	0.995935835	1.004080750	1.411342690	1.417102026
44° 53′ 10″	0.70569984	0.70851093	0.996032409	1.003983395	1.411410840	1.417033048
44° 53′ 20″	0.70573419	0.70847671	0.996128993	1.003886050	1.411479001	1.416964079
44° 53′ 30″	0.70576854	0.70844250	0.996225585	1.003788715	1.411547171	1.416895121
44° 53′ 40″	0.70580288	0.70840828	0.996322187	1.003691389	1.411615352	1.416826173
44° 53′ 50″	0.70583723	0.70837406	0.996418799	1.003594072	1.411683542	1.416757235
44° 54′ 00″	0.70587157	0.70833984	0.996515420	1.003496765	1.411751742	1.416688306
44° 54′ 10″	0.70590591	0.70830562	0.996612050	1.003399467	1.411819952	1.416619388
44° 54′ 20″	0.70594025	0.70827139	0.996708689	1.003302179	1.411888172	1.416550480
44° 54′ 30″	0.70597459	0.70823717	0.996805338	1.003204901	1.411956402	1.416481582
44° 54′ 40″	0.70600892	0.70820294	0.996901996	1.003107631	1.412024642	1.416412694
44° 54′ 50″	0.70604326	0.70816871	0.996998664	1.003010371	1.412092892	1.416343816
44° 55′ 00″ 44° 55′ 10″	0.70607759	0.70813448	0.997095341	1.002913121	1.412161152	1.416274948
44° 55′ 10″ 44° 55′ 20″	0.70611192	0.70810025	0.997192027	1.002815880	1.412229421	1.416206090
	0.70614625	0.70806601	0.997288722	1.002718649	1.412297701	1.416137242
44° 55′ 30″	0.70618058	0.70803178	0.997385427	1.002621427	1.412365990	1.416068404
44° 55′ 40″ 44° 55′ 50″	0.70621490	0.70799754	0.997482141	1.002524214	1.412434290	1.415999576
44 55 50"	0.70624922	0.70796330	0.997578865	1.002427011	1.412502599	1.415930758

337 44° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
44° 56′ 00″	0.70628355	0.70792906	0.997675598	1.002329818	1.412570918	1.415861951
44° 56′ 10″	0.70631787	0.70789482	0.997772340	1.002232633	1.412639247	1.415793153
44° 56′ 20″	0.70635219	0.70786057	0.997869092	1.002135459	1.412707586	1.415724365
44° 56′ 30″	0.70638650	0.70782633	0.997965853	1.002038293	1.412775935	1.415655587
44° 56′ 40″	0.70642082	0.70779208	0.998062623	1.001941138	1.412844294	1.415586819
44° 56′ 50″	0.70645513	0.70775783	0.998159403	1.001843991	1.412912663	1.415518062
44° 57′ 00″	0.70648944	0.70772358	0.998256192	1.001746854	1.412981042	1.415449314
44° 57′ 10″	0.70652376	0.70768933	0.998352991	1.001649727	1.413049431	1.415380576
44° 57′ 20″	0.70655806	0.70765507	0.998449798	1.001552608	1.413117829	1.415311848
44° 57′ 30″	0.70659237	0.70762082	0.998546616	1.001455500	1.413186238	1.415243130
44° 57′ 40″	0.70662668	0.70758656	0.998643442	1.001358401	1.413254657	1.415174423
44° 57′ 50″	0.70666098	0.70755230	0.998740278	1.001261311	1.413323085	1.415105725
44° 58′ 00″	0.70669528	0.70751804	0.998837124	1.001164230	1.413391524	1.415037037
44° 58′ 10″	0.70672958	0.70748378	0.998933978	1.001067159	1.413459972	1.414968359
44° 58′ 20″	0.70676388	0.70744951	0.999030842	1.000970098	1.413528431	1.414899691
44° 58′ 30″	0.70679818	0.70741525	0.999127716	1.000873046	1.413596899	1.414831034
44° 58′ 40″	0.70683248	0.70738098	0.999224599	1.000776003	1.413665377	1.414762386
44° 58′ 50″	0.70686677	0.70734671	0.999321491	1.000678970	1.413733866	1.414693748
44° 59′ 00″	0.70690106	0.70731244	0.999418393	1.000581946	1.413802364	1.414625120
44° 59′ 10″	0.70693535	0.70727817	0.999515304	1.000484931	1.413870872	1.414556502
44° 59′ 20″	0.70696964	0.70724389	0.999612224	1.000387926	1.413939390	1.414487894
44° 59′ 30″	0.70700393	0.70720962	0.999709154	1.000290931	1.414007918	1.414419296
44° 59′ 40″	0.70703821	0.70717534	0.999806093	1.000193944	1.414076456	1.414350708
44° 59′ 50″	0.70707250	0.70714106	0.999903042	1.000096967	1.414145004	1.414282130
45° 00′ 00″	0.70710678	0.70710678	1.000000000	1.00000000	1.414213562	1.414213562
45° 00′ 10″	0.70714106	0.70707250	1.000096967	0.999903042	1.414282130	1.414145004
45° 00′ 20″	0.70717534	0.70703821	1.000193944	0.999806093	1.414350708	1.414076456
45° 00′ 30″	0.70720962	0.70700393	1.000290931	0.999709154	1.414419296	1.414007918
45° 00′ 40″	0.70724389	0.70696964	1.000387926	0.999612224	1.414487894	1.413939390
45° 00′ 50″	0.70727817	0.70693535	1.000484931	0.999515304	1.414556502	1.413870872
45° 01′ 00″	0.70731244	0.70690106	1.000581946	0.999418393	1.414625120	1.413802364
45° 01′ 10″	0.70734671	0.70686677	1.000678970	0.999321491	1.414693748	1.413733866
45° 01′ 20″	0.70738098	0.70683248	1.000776003	0.999224599	1.414762386	1.413665377
45° 01′ 30″	0.70741525	0.70679818	1.000873046	0.999127716	1.414831034	1.413596899
45° 01′ 40″	0.70744951	0.70676388	1.000970098 1.001067159	0.999030842	1.414899691	1.413528431
45° 01′ 50″	0.70748378	0.70672958		0.998933978	1.414968359	1.413459972
45° 02′ 00″	0.70751804	0.70669528	1.001164230	0.998837124	1.415037037	1.413391524
45° 02′ 10″	0.70755230	0.70666098	1.001261311	0.998740278	1.415105725	1.413323085
45° 02′ 20″ 45° 02′ 30″	0.70758656	0.70662668	1.001358401 1.001455500	0.998643442	1.415174423	1.413254657
45° 02′ 40″	0.70762082	0.70659237 0.70655806	1.001455500	0.998546616 0.998449798	1.415243130 1.415311848	1.413186238 1.413117829
45° 02′ 50″	0.70768933	0.70652376	1.001552608	0.998352991	1.415311646	1.41311/829
45° 03′ 00″	0.70768733	0.70632376	1.001649727	0.998256192	1.415449314	1.412981042
45° 03′ 10″	0.70772338	0.70645513	1.001746834	0.998159403	1.415518062	1.412912663
45° 03′ 20″	0.70779208	0.70643313	1.001043771	0.998062623	1.415586819	1.412844294
45° 03′ 30″	0.70777208	0.70638650	1.002038293	0.997965853	1.415655587	1.412775935
45° 03′ 40″	0.70782633	0.70635830	1.002038273	0.997869092	1.415724365	1.412775755
45° 03′ 50″	0.70789482	0.70633217	1.002133437	0.997772340	1.415793153	1.412639247
= 5 05 50	0.707702	0.70031707	1.002232033	5.771112540	1,1137/3133	1,11203/27/

338 45° 03′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
45° 04′ 00″	0.70792906	0.70628355	1.002329818	0.997675598	1.415861951	1.412570918
45° 04′ 10″	0.70796330	0.70624922	1.002427011	0.997578865	1.415930758	1.412502599
45° 04′ 20″	0.70799754	0.70621490	1.002524214	0.997482141	1.415999576	1.412434290
45° 04′ 30″	0.70803178	0.70618058	1.002621427	0.997385427	1.416068404	1.412365990
45° 04′ 40″	0.70806601	0.70614625	1.002718649	0.997288722	1.416137242	1.412297701
45° 04′ 50″	0.70810025	0.70611192	1.002815880	0.997192027	1.416206090	1.412229421
45° 05′ 00″	0.70813448	0.70607759	1.002913121	0.997095341	1.416274948	1.412161152
45° 05′ 10″	0.70816871	0.70604326	1.003010371	0.996998664	1.416343816	1.412092892
45° 05′ 20″	0.70820294	0.70600892	1.003107631	0.996901996	1.416412694	1.412024642
45° 05′ 30″	0.70823717	0.70597459	1.003204901	0.996805338	1.416481582	1.411956402
45° 05′ 40″	0.70827139	0.70594025	1.003302179	0.996708689	1.416550480	1.411888172
45° 05′ 50″	0.70830562	0.70590591	1.003399467	0.996612050	1.416619388	1.411819952
45° 06′ 00″	0.70833984	0.70587157	1.003496765	0.996515420	1.416688306	1.411751742
45° 06′ 10″	0.70837406	0.70583723	1.003594072	0.996418799	1.416757235	1.411683542
45° 06′ 20″	0.70840828	0.70580288	1.003691389	0.996322187	1.416826173	1.411615352
45° 06′ 30″	0.70844250	0.70576854	1.003788715	0.996225585	1.416895121	1.411547171
45° 06′ 40″	0.70847671	0.70573419	1.003886050	0.996128993	1.416964079	1.411479001
45° 06′ 50″	0.70851093	0.70569984	1.003983395	0.996032409	1.417033048	1.411410840
45° 07′ 00″	0.70854514	0.70566549	1.004080750	0.995935835	1.417102026	1.411342690
45° 07′ 10″	0.70857935	0.70563114	1.004178114	0.995839270	1.417171014	1.411274549
45° 07′ 20″	0.70861356	0.70559679	1.004275487	0.995742715	1.417240013	1.411206418
45° 07′ 30″	0.70864776	0.70556243	1.004372870	0.995646169	1.417309021	1.411138297
45° 07′ 40″	0.70868197	0.70552807	1.004470263	0.995549632	1.417378040	1.411070186
45° 07′ 50″	0.70871617	0.70549372	1.004567664	0.995453104	1.417447069	1.411002085
45° 08′ 00″	0.70875038	0.70545936	1.004665076	0.995356586	1.417516107	1.410933993
45° 08′ 10″	0.70878458	0.70542499	1.004762497	0.995260077	1.417585156	1.410865912
45° 08′ 20″	0.70881878	0.70539063	1.004859927	0.995163578	1.417654215	1.410797840
45° 08′ 30″	0.70885297	0.70535626	1.004957367	0.995067087	1.417723284	1.410729779
45° 08′ 40″	0.70888717	0.70532190	1.005054816	0.994970606	1.417792363	1.410661727
45° 08′ 50″	0.70892136	0.70528753	1.005152275	0.994874135	1.417861452	1.410593685
45° 09′ 00″	0.70895556	0.70525316	1.005249744	0.994777672	1.417930551	1.410525653
45° 09′ 10″	0.70898975	0.70521879	1.005347221	0.994681219	1.417999660	1.410457631
45° 09′ 20″	0.70902394	0.70518441	1.005444709	0.994584776	1.418068779	1.410389618
45° 09′ 30″	0.70905812	0.70515004	1.005542206	0.994488341	1.418137908	1.410321616
45° 09′ 40″	0.70909231	0.70511566	1.005639712	0.994391916	1.418207048	1.410253624
45° 09′ 50″	0.70912649	0.70508128	1.005737228	0.994295500	1.418276197	1.410185641
45° 10′ 00″	0.70916068	0.70504690	1.005834753	0.994199094	1.418345357	1.410117668
45° 10′ 10″	0.70919486	0.70501252	1.005932288	0.994102696	1.418414526	1.410049705
45° 10′ 20″	0.70922904	0.70497814	1.006029833	0.994006308	1.418483706	1.409981752
45° 10′ 30″	0.70926321	0.70494375	1.006127386	0.993909930	1.418552896	1.409913809
45° 10′ 40″ 45° 10′ 50″	0.70929739	0.70490936	1.006224950	0.993813560	1.418622095	1.409845876
	0.70933156	0.70487498	1.006322523	0.993717200	1.418691305	1.409777952
45° 11′ 00″	0.70936574	0.70484059	1.006420105	0.993620849	1.418760525	1.409710038
45° 11′ 10″	0.70939991	0.70480619	1.006517697	0.993524508	1.418829756	1.409642135
45° 11′ 20″	0.70943408	0.70477180	1.006615299	0.993428176	1.418898996	1.409574241
45° 11′ 30″	0.70946824	0.70473741	1.006712910	0.993331853	1.418968246	1.409506357
45° 11′ 40″ 45° 11′ 50″	0.70950241	0.70470301	1.006810531	0.993235539	1.419037506	1.409438483
4 5 11 50°	0.70953657	0.70466861	1.006908161	0.993139235	1.419106777	1.409370618

339 45° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
45° 12′ 00″	0.70957074	0.70463421	1.007005800	0.993042939	1.419176057	1.409302764
45° 12′ 10″	0.70960490	0.70459981	1.007103450	0.992946654	1.419245348	1.409234919
45° 12′ 20″	0.70963906	0.70456540	1.007201108	0.992850377	1.419314649	1.409167084
45° 12′ 30″	0.70967321	0.70453100	1.007298776	0.992754110	1.419383960	1.409099259
45° 12′ 40″	0.70970737	0.70449659	1.007396454	0.992657852	1.419453281	1.409031444
45° 12′ 50″	0.70974152	0.70446218	1.007494142	0.992561603	1.419522612	1.408963639
45° 13′ 00″	0.70977568	0.70442777	1.007591839	0.992465363	1.419591953	1.408895843
45° 13′ 10″	0.70980983	0.70439336	1.007689545	0.992369133	1.419661304	1.408828058
45° 13′ 20″	0.70984398	0.70435895	1.007787261	0.992272912	1.419730666	1.408760282
45° 13′ 30″	0.70987812	0.70432453	1.007884986	0.992176700	1.419800037	1.408692516
45° 13′ 40″	0.70991227	0.70429012	1.007982722	0.992080498	1.419869419	1.408624760
45° 13′ 50″	0.70994641	0.70425570	1.008080466	0.991984304	1.419938811	1.408557013
45° 14′ 00″	0.70998056	0.70422128	1.008178220	0.991888120	1.420008213	1.408489277
45° 14′ 10″	0.71001470	0.70418686	1.008275984	0.991791946	1.420077625	1.408421550
45° 14′ 20″	0.71004884	0.70415243	1.008373757	0.991695780	1.420147047	1.408353834
45° 14′ 30″	0.71008297	0.70411801	1.008471540	0.991599624	1.420216479	1.408286127
45° 14′ 40″	0.71011711	0.70408358	1.008569333	0.991503477	1.420285921	1.408218429
45° 14′ 50″	0.71015124	0.70404915	1.008667135	0.991407339	1.420355374	1.408150742
45° 15′ 00″	0.71018538	0.70401472	1.008764946	0.991311211	1.420424837	1.408083064
45° 15′ 10″	0.71021951	0.70398029	1.008862767	0.991215091	1.420494309	1.408015397
45° 15′ 20″	0.71025364	0.70394586	1.008960598	0.991118981	1.420563792	1.407947739
45° 15′ 30″	0.71028776	0.70391142	1.009058438	0.991022880	1.420633285	1.407880091
45° 15′ 40″	0.71032189	0.70387699	1.009156288	0.990926789	1.420702789	1.407812452
45° 15′ 50″	0.71035601	0.70384255	1.009254147	0.990830707	1.420772302	1.407744824
45° 16′ 00″	0.71039014	0.70380811	1.009352016	0.990734633	1.420841826	1.407677205
45° 16′ 10″	0.71042426	0.70377367	1.009449895	0.990638570	1.420911359	1.407609596
45° 16′ 20″	0.71045837	0.70373923	1.009547783	0.990542515	1.420980903	1.407541997
45° 16′ 30″	0.71049249	0.70370478	1.009645681	0.990446469	1.421050457	1.407474408
45° 16′ 40″	0.71052661	0.70367033	1.009743588	0.990350433	1.421120021	1.407406828
45° 16′ 50″	0.71056072	0.70363589	1.009841505	0.990254406	1.421189595	1.407339259
45° 17′ 00″	0.71059483	0.70360144	1.009939432	0.990158388	1.421259180	1.407271699
45° 17′ 10″	0.71062895	0.70356698	1.010037368	0.990062380	1.421328774	1.407204149
45° 17′ 20″	0.71066305	0.70353253	1.010135313	0.989966381	1.421398379	1.407136608
45° 17′ 30″	0.71069716	0.70349808	1.010233269	0.989870390	1.421467994	1.407069078
45° 17′ 40″	0.71073127	0.70346362	1.010331233	0.989774410	1.421537619	1.407001557
45° 17′ 50″	0.71076537	0.70342916	1.010429208	0.989678438	1.421607254	1.406934046
45° 18′ 00″	0.71079947	0.70339470	1.010527192	0.989582475	1.421676899	1.406866545
45° 18′ 10″	0.71083357	0.70336024	1.010625186	0.989486522	1.421746555	1.406799054
45° 18′ 20″	0.71086767	0.70332578	1.010723189	0.989390578	1.421816220	1.406731572
45° 18′ 30″	0.71090177	0.70329131	1.010821202	0.989294643	1.421885896	1.406664100
45° 18′ 40″	0.71093587	0.70325685	1.010919224	0.989198717	1.421955582	1.406596638
45° 18′ 50″	0.71096996	0.70322238	1.011017256	0.989102801	1.422025278	1.406529186
45° 19′ 00″	0.71100405	0.70318791	1.011115298	0.989006894	1.422094985	1.406461743
45° 19′ 10″	0.71103814	0.70315344	1.011213349	0.988910996	1.422164701	1.406394311
45° 19′ 20″	0.71107223	0.70311897	1.011311410	0.988815107	1.422234428	1.406326888
45° 19′ 30″	0.71110632	0.70308449	1.011409481	0.988719227	1.422304165	1.406259475
45° 19′ 40″ 45° 19′ 50″	0.71114041	0.70305001	1.011507561	0.988623357	1.422373912	1.406192071
45 17 50"	0.71117449	0.70301554	1.011605651	0.988527495	1.422443669	1.406124678

340 45° 19′ 50″

x sin(x) cos(x) tan(x) cot(x) sec(x) sec(x) 45° 20′ 00″ 0.71120857 0.7098106 1.011703750 0.98431443 1.422513437 1.406057294 45° 20′ 20″ 0.71121673 0.70291209 1.011899786 0.988335800 1.422533002 1.405988920 45° 20′ 30″ 0.71131488 0.7028131 1.011998106 0.988144141 1.422722800 1.405855201 45° 20′ 50″ 0.71134488 0.70284312 1.010296244 0.988048326 1.422792609 1.405736356 45° 21′ 10″ 0.71144103 0.70277455 1.012390715 0.98776035 1.422862427 1.40573653195 45° 21′ 10″ 0.71141710 0.70267067 1.012587078 0.987569387 1.423002094 1.405585880 45° 21′ 40″ 0.71153337 0.70266167 1.012587078 0.987569387 1.423141803 1.405451178 45° 21′ 40″ 0.71163333 0.70266167 1.012881694 0.987282134 1.423381552 1.4053316715 45° 21′ 40″ 0.7116743 0.7025671 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
45° 20′ 10" 0.71124265 0.70294658 1.011801859 0.988335800 1.422583214 1.405989920 45° 20′ 30" 0.71131081 0.7028761 1.011989106 0.98834810 1.422722800 1.405855201 45° 20′ 40" 0.71134488 0.70281312 1.011998106 0.988144142 1.422722800 1.405855201 45° 20′ 50" 0.711347896 0.70280831 1.01299491 0.98876523 1.422792609 1.405787856 45° 21′ 10" 0.71144710 0.70273965 1.012292549 0.987856723 1.422932256 1.405583874 45° 21′ 20" 0.71148171 0.70273965 1.0122887078 0.987766935 1.4233071941 1.4055185874 45° 21′ 30" 0.711518337 0.70263617 1.01288749 0.987378766 1.4232811502 1.40531873 45° 21′ 60" 0.711618337 0.70266167 1.012783479 0.987378766 1.423241141 1.405316715 45° 21′ 40" 0.71168555 0.7024367 1.01288169 0.987378766 1.423241142 1.405316715 45° 22′ 20" 0.71168555		$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
45° 20′ 30" 0.71127673 0.70291209 1.011899978 0.988239966 1.422653002 1.405825551 45° 20′ 40" 0.71131488 0.7028761 1.01199810 0.98814326 1.422722800 1.405878785 45° 20′ 50" 0.71134488 0.70280863 1.012194391 0.987952520 1.422722802 1.405787856 45° 21′ 10" 0.71144710 0.70273965 1.012295249 0.987865723 1.422802427 1.405585880 45° 21′ 20" 0.71144710 0.70279516 1.012288702 0.987669357 1.42301943 1.4055858880 45° 21′ 20" 0.71148171 0.70270516 1.012888702 0.987766935 1.42301943 1.4055858880 45° 21′ 20" 0.71165193 0.70260167 1.012685274 0.98737627 1.423211672 1.40541832 45° 22′ 00" 0.71165149 0.7025367 1.012783479 0.98737861 1.423311612 1.40541824144 45° 22′ 00" 0.71165149 0.7023465 1.013078135 0.986899257 1.423411803 1.40541824144 45° 22′ 30" 0.71175366		0.71120857	0.70298106	1.011703750	0.988431643	1.422513437	1.406057294
45° 20′ 30" 0.71131081 0.70287761 1.011998106 0.988144142 1.422722800 1.40585201 45° 20′ 50" 0.71134788 0.70280863 1.012194391 0.988795250 1.422862427 1.405720521 45° 21′ 00" 0.71141303 0.70277415 1.012292549 0.987856723 1.422862427 1.405720521 45° 21′ 20" 0.71144110 0.7027965 1.01229549 0.987866733 1.423002094 1.40558387 45° 21′ 30" 0.71151531 0.70267067 1.0128882 0.987569387 1.4230114803 1.405518587 45° 21′ 40" 0.71154930 0.70267067 1.01288749 0.98737876 1.423211672 1.40531875 45° 21′ 50" 0.71165149 0.7025367 1.012881694 0.987387876 1.423311410 1.405316715 45° 22′ 10" 0.71165149 0.7025367 1.012878479 0.98786401 1.423421342 1.40514944 45° 22′ 20" 0.71165149 0.7025367 1.01374650 0.9878969493 1.42351141 1.40514944 45° 22′ 30" 0.71175366 0		0.71124265	0.70294658	1.011801859		1.422583214	1.405989920
45° 20′ 40″ 0.71134488 0.70284312 1.012096244 0.988048326 1.422792609 1.405787856 45° 21′ 00″ 0.71137896 0.70280863 1.012194391 0.987856723 1.422862427 1.405750521 45° 21′ 00″ 0.71144710 0.70273455 1.012292549 0.987860735 1.423002094 1.4056531957 45° 21′ 20″ 0.71144710 0.7027016 1.012488892 0.987665157 1.423017193 1.405518574 45° 21′ 30″ 0.71154930 0.70267067 1.012685274 0.98778667 1.423211672 1.4053383992 45° 21′ 50″ 0.7116473 0.70260167 1.012787347 0.98737876 1.423211672 1.405316715 45° 21′ 10″ 0.71161743 0.70250171 1.012881694 0.987186401 1.423421342 1.405316715 45° 22′ 10″ 0.71161743 0.70253267 1.01279919 0.987186401 1.42351414 1.405316715 45° 22′ 30″ 0.7117961 0.70246367 1.013176397 0.98694963 1.423501441 1.40514766 45° 22′ 30″ 0.71177766		0.71127673	0.70291209	1.011899978	0.988239966	1.422653002	1.405922555
45° 20′ 50″	45° 20′ 30″	0.71131081	0.70287761	1.011998106	0.988144142	1.422722800	1.405855201
45° 21′ 00″ 0.71141303 0.70277415 1.012292549 0.987856723 1.422932256 1.405563195 45° 21′ 20″ 0.71148117 0.70279516 1.012390715 0.9877669357 1.423002094 1.405585880 45° 21′ 30″ 0.71154192 0.70267067 1.012587078 0.987569387 1.423114803 1.405518574 45° 21′ 40″ 0.71154930 0.70263617 1.012685274 0.987367567 1.423211562 1.405316715 45° 21′ 50″ 0.7116833 0.70260167 1.012783479 0.98737876 1.423211522 1.405316715 45° 22′ 20″ 0.71165149 0.70253267 1.012789919 0.987186401 1.423421342 1.40518494 45° 22′ 20″ 0.7117961 0.70246367 1.013176397 0.986994963 1.423611024 1.40514944 45° 22′ 20″ 0.71178366 0.70242916 1.0133774550 0.98694963 1.42361103 1.404846052 45° 23′ 00″ 0.71178772 0.70239614 1.013471187 0.986603561 1.42370444 1.42370494 1.40478853 45° 23′ 00″	45° 20′ 40″	0.71134488	0.70284312	1.012096244	0.988048326	1.422792609	1.405787856
45° 21′ 10″ 0.71144710 0.70273965 1.012390715 0.987769385 1.423002094 1.405585880 45° 21′ 20″ 0.71148117 0.7027016 1.012488892 0.987569387 1.423071943 1.405518574 45° 21′ 30″ 0.71151524 0.70267067 1.012587078 0.987569387 1.42311103 1.405451278 45° 21′ 50″ 0.71158337 0.70260167 1.012783479 0.987473627 1.423211672 1.405383992 45° 21′ 50″ 0.7116833 0.70260167 1.012783479 0.98778766 1.42321142 1.405316715 45° 22′ 10″ 0.7116743 0.70253267 1.012979919 0.987186401 1.423412142 1.405182191 45° 22′ 20″ 0.71117910 0.70249716 1.013078153 0.987090677 1.423491252 1.405118444 45° 22′ 30″ 0.71178772 0.70339465 1.013274650 0.986899257 1.42361103 1.404980478 45° 23′ 00″ 0.71188772 0.7032563 1.013569761 0.986012196 1.42370992 1.404486052 45° 23′ 00″ 0.71183797	45° 20′ 50″	0.71137896	0.70280863	1.012194391	0.987952520	1.422862427	1.405720521
45° 21′ 20″ 0.71148117 0.70270516 1.012488892 0.987665157 1.423071943 1.405518574 45° 21′ 30″ 0.71151930 0.70267067 1.012685274 0.987569387 1.423141803 1.405451278 45° 21′ 40″ 0.71158337 0.70260167 1.012783479 0.987377876 1.423281552 1.405383992 45° 22′ 00″ 0.71161743 0.70256717 1.012881694 0.987282134 1.423351441 1.405249448 45° 22′ 20″ 0.71168555 0.70249367 1.01376397 0.988994963 1.42321342 1.40514944 45° 22′ 40″ 0.7117961 0.70249367 1.013078153 0.986994963 1.423561172 1.40514944 45° 22′ 50″ 0.7117876 0.7024916 1.013374650 0.986994963 1.423571044 1.405047766 45° 23′ 00″ 0.71182177 0.70236014 1.013471187 0.986707874 1.423770995 1.40486652 45° 23′ 10″ 0.71182871 0.70222563 1.013667761 0.986212052 1.423890910 1.404477853 45° 23′ 30″ 0.71199200	45° 21′ 00″	0.71141303	0.70277415	1.012292549	0.987856723	1.422932256	1.405653195
45° 21′ 30″ 0.71151524 0.70267067 1.012587078 0.987569387 1.423141803 1.405451278 45° 21′ 40″ 0.71154930 0.70263617 1.01268274 0.987473627 1.423211672 1.405383992 45° 21′ 50″ 0.71161743 0.70256717 1.012881694 0.98737876 1.423251552 1.405136715 45° 22′ 10″ 0.71165149 0.70253267 1.012881694 0.987186401 1.423351441 1.405249448 45° 22′ 20″ 0.71168515 0.70246367 1.013078153 0.987090677 1.423421322 1.405182191 45° 22′ 30″ 0.71175961 0.70246367 1.013176397 0.986994963 1.423561172 1.4050147406 45° 22′ 40″ 0.71178772 0.70236616 1.013274650 0.986803561 1.423361103 1.404980478 45° 23′ 10″ 0.71185782 0.70232563 1.01356761 0.986612196 1.423840956 1.404711664 45° 23′ 20″ 0.71189579 0.702225112 1.01366761 0.986516527 1.423980910 1.40471664 45° 23′ 30″ 0.71199200	45° 21′ 10″	0.71144710	0.70273965	1.012390715	0.987760935	1.423002094	1.405585880
45° 21′ 40″ 0.71154930 0.70263617 1.012685274 0.987473627 1.423211672 1.405383992 45° 21′ 50″ 0.7116873 0.70260167 1.012783479 0.987377876 1.423281552 1.405316715 45° 22′ 10″ 0.71165149 0.70253267 1.012783479 0.987186401 1.423421342 1.405182191 45° 22′ 20″ 0.71165149 0.70243817 1.013078153 0.987090677 1.423491252 1.405114944 45° 22′ 30″ 0.71177966 0.70242916 1.013274650 0.986899257 1.423561172 1.40514944 45° 22′ 40″ 0.71178772 0.70239465 1.013274650 0.986803561 1.423701041 1.404980478 45° 23′ 0″ 0.71185782 0.70232563 1.013569469 0.986612196 1.423840956 1.404778853 45° 23′ 0″ 0.71188987 0.70229112 1.013667761 0.986516527 1.423910928 1.40471664 45° 23′ 0″ 0.71189290 0.70218757 1.013667761 0.9863133944 1.42379095 1.404471064 45° 24′ 0″ 0.711209413	45° 21′ 20″	0.71148117	0.70270516	1.012488892	0.987665157	1.423071943	1.405518574
45° 21′ 50″ 0.71158337 0.70260167 1.012783479 0.987377876 1.423281552 1.405316715 45° 22′ 00″ 0.71161743 0.70256717 1.012881694 0.987282134 1.423351441 1.405249448 45° 22′ 00″ 0.71168559 0.70249817 1.013078153 0.987090677 1.423491252 1.405114944 45° 22′ 30″ 0.71177366 0.70249817 1.013176397 0.986994963 1.423561172 1.405047706 45° 22′ 50″ 0.71178772 0.70239465 1.013274650 0.986899257 1.423671044 1.404913260 45° 23′ 00″ 0.71188772 0.70239465 1.013372914 0.986803561 1.423701044 1.404913260 45° 23′ 00″ 0.71188787 0.70232661 1.01367761 0.986612196 1.423840956 1.40471865 45° 23′ 30″ 0.71192391 0.70225661 1.013676761 0.98661257 1.423980970 1.404644485 45° 23′ 50″ 0.71199796 0.70222209 1.013864375 0.986325217 1.424505092 1.404577315 45° 24′ 00″ 0.7120609	45° 21′ 30″	0.71151524	0.70267067	1.012587078	0.987569387	1.423141803	1.405451278
45° 22′ 00″ 0.71161743 0.70256717 1.012881694 0.987282134 1.423351441 1.405249448 45° 22′ 10″ 0.71165149 0.70253267 1.012797919 0.98786401 1.423421342 1.405182191 45° 22′ 30″ 0.71177961 0.70246367 1.013176397 0.986994963 1.423491252 1.40514740 45° 22′ 40″ 0.71175366 0.7024916 1.013274650 0.986899257 1.423631103 1.404980478 45° 23′ 50″ 0.7118772 0.70239465 1.013372914 0.986803561 1.42371044 1.404913260 45° 23′ 10″ 0.71185782 0.70232563 1.0133769469 0.98612196 1.42370095 1.40484652 45° 23′ 20″ 0.71188787 0.70222561 1.013667761 0.986516527 1.423910928 1.404778853 45° 23′ 30″ 0.71192391 0.70225661 1.013766033 0.98622576 1.424390928 1.404778653 45° 23′ 30″ 0.71199200 0.7021853 1.014661027 0.98613944 1.42410904 1.404711664 45° 24′ 10″ 0.71202605 <	45° 21′ 40″	0.71154930	0.70263617	1.012685274	0.987473627	1.423211672	1.405383992
45° 22′ 10″ 0.71165149 0.70253267 1.012979919 0.987186401 1.423421342 1.405182191 45° 22′ 20″ 0.71168555 0.70249817 1.013078153 0.987090677 1.423491252 1.405114944 45° 22′ 40″ 0.71175366 0.70242916 1.013174650 0.986899257 1.423631103 1.404980478 45° 22′ 50″ 0.71178772 0.70239465 1.013372914 0.986803561 1.423701044 1.404913260 45° 23′ 00″ 0.71185782 0.70232613 1.013471187 0.986612196 1.423840956 1.404846052 45° 23′ 10″ 0.71185882 0.70222601 1.013667761 0.98651295 1.423840956 1.404778853 45° 23′ 30″ 0.71195796 0.70222209 1.013667761 0.986516527 1.423809010 1.404471864 45° 23′ 30″ 0.71195796 0.70222209 0.013864375 0.986325217 1.42400090 1.404477853 45° 24′ 00″ 0.71206009 0.70211853 1.014061027 0.986133944 1.424120094 1.404510156 45° 24′ 30″ 0.7121620	45° 21′ 50″	0.71158337	0.70260167	1.012783479	0.987377876	1.423281552	1.405316715
45° 22′ 20″ 0.71168555 0.70249817 1.013078153 0.987090677 1.423491252 1.405114944 45° 22′ 30″ 0.71171961 0.70246367 1.013176397 0.986994963 1.423631172 1.405047706 45° 22′ 50″ 0.71178772 0.70239465 1.013274650 0.986803561 1.423701044 1.404913260 45° 23′ 00″ 0.71182177 0.70236014 1.013471187 0.986707874 1.423770995 1.404846052 45° 23′ 20″ 0.71188987 0.70223163 1.0135669469 0.986612196 1.423840956 1.404711664 45° 23′ 30″ 0.71188987 0.70222101 1.013667761 0.986120868 1.423980910 1.404711664 45° 23′ 30″ 0.71199200 0.70218757 1.01366063 0.986420868 1.423980910 1.404510156 45° 24′ 00″ 0.71199200 0.70218757 1.01366063 0.986238217 1.424050902 1.404510156 45° 24′ 00″ 0.7120605 0.7021853 1.01461027 0.986133944 1.424120904 1.404510156 45° 24′ 10″ 0.7120609	45° 22′ 00″	0.71161743	0.70256717	1.012881694	0.987282134	1.423351441	1.405249448
45° 22′ 30″ 0.71171961 0.70246367 1.013176397 0.986994963 1.423561172 1.405047706 45° 22′ 40″ 0.711783766 0.7024916 1.013274650 0.986893257 1.423631103 1.404980478 45° 22′ 50″ 0.7118772 0.70239465 1.013372914 0.986803561 1.423770995 1.404813260 45° 23′ 10″ 0.71182177 0.70232614 1.013471187 0.986707874 1.423770995 1.404846052 45° 23′ 20″ 0.71182391 0.70225661 1.013667761 0.986516527 1.423910928 1.404711664 45° 23′ 30″ 0.71192391 0.70225661 1.013766063 0.986420868 1.423980910 1.404577315 45° 23′ 40″ 0.71197200 0.70218575 1.013962696 0.986229576 1.424120904 1.404510156 45° 24′ 00″ 0.71206609 0.70211853 1.014159367 0.986332911 1.4244050902 1.404571156 45° 24′ 20″ 0.7120609 0.70211853 1.01455718 0.985342707 1.424330972 1.404308735 45° 24′ 30″ 0.71216220	45° 22′ 10″	0.71165149	0.70253267	1.012979919	0.987186401	1.423421342	1.405182191
45° 22′ 40″ 0.71175366 0.70242916 1.013274650 0.986899257 1.423631103 1.404980478 45° 22′ 50″ 0.71178772 0.70239465 1.013372914 0.986803561 1.423701044 1.404913260 45° 23′ 00″ 0.71188577 0.70236014 1.013471187 0.986707874 1.42370995 1.404846052 45° 23′ 20″ 0.71188582 0.70232563 1.013569469 0.986612196 1.423840956 1.404778853 45° 23′ 30″ 0.71192391 0.702225661 1.013766063 0.986420868 1.423890910 1.404711664 45° 23′ 40″ 0.711975796 0.70222209 1.013864375 0.986325217 1.424050902 1.404577315 45° 23′ 50″ 0.71199200 0.70215505 1.014061027 0.986133944 1.424120904 1.404510156 45° 24′ 00″ 0.71206099 0.70211853 1.014159367 0.986038321 1.424260939 1.404308735 45° 24′ 30″ 0.7122816 0.70204949 1.014257718 0.985742707 1.42430072 1.404441015 45° 24′ 40″ 0.71226429	45° 22′ 20″	0.71168555	0.70249817	1.013078153	0.987090677	1.423491252	1.405114944
45° 22′ 50″ 0.71178772 0.70239465 1.013372914 0.986803561 1.423701044 1.404913260 45° 23′ 00″ 0.71182177 0.70236014 1.013471187 0.986707874 1.423770995 1.404846052 45° 23′ 20″ 0.71188987 0.70232563 1.013569469 0.986612196 1.423840956 1.40471863 45° 23′ 30″ 0.71198987 0.70222561 1.013766063 0.986420868 1.423990910 1.404644485 45° 23′ 40″ 0.71195796 0.70222209 1.013864375 0.986325217 1.424050902 1.404577315 45° 23′ 50″ 0.71199200 0.7021875 1.013962696 0.986229576 1.424120904 1.40443005 45° 24′ 10″ 0.7120605 0.70211853 1.014159367 0.986038321 1.424260939 1.404378865 45° 24′ 10″ 0.71216200 0.7021853 1.01455078 0.985942707 1.424330972 1.404308735 45° 24′ 50″ 0.71216220 0.7020494 1.014356078 0.985942707 1.424471069 1.404174502 45° 24′ 50″ 0.71219623	45° 22′ 30″	0.71171961	0.70246367	1.013176397	0.986994963	1.423561172	1.405047706
45° 23′ 00″ 0.71182177 0.70236014 1.013471187 0.986707874 1.423770995 1.404846052 45° 23′ 10″ 0.71185582 0.70232563 1.013569469 0.986612196 1.423840956 1.404778853 45° 23′ 30″ 0.71192391 0.70225661 1.013667761 0.986420868 1.423910928 1.404711664 45° 23′ 40″ 0.71195796 0.7022209 1.013864375 0.986325217 1.424050902 1.404577315 45° 23′ 50″ 0.71199200 0.70218757 1.013962696 0.986229576 1.424120904 1.404510156 45° 24′ 10″ 0.71206009 0.70211853 1.014061027 0.986133944 1.424190916 1.404443005 45° 24′ 20″ 0.71209413 0.70208401 1.014257718 0.985942707 1.424300972 1.404308735 45° 24′ 20″ 0.71212816 0.70204949 1.014356078 0.985847102 1.424401015 1.404241614 45° 24′ 30″ 0.71216220 0.70201496 1.014454447 0.985751507 1.424471069 1.404174502 45° 24′ 50″ 0.7122622		0.71175366	0.70242916	1.013274650	0.986899257	1.423631103	1.404980478
45° 23′ 10″ 0.71185582 0.70232563 1.013569469 0.986612196 1.423840956 1.404778853 45° 23′ 20″ 0.71188987 0.70229112 1.013667761 0.986516527 1.423910928 1.404711664 45° 23′ 30″ 0.71192391 0.70222661 1.013766063 0.986420868 1.423980910 1.404644485 45° 23′ 40″ 0.71195796 0.70222299 1.013864375 0.986325217 1.424050902 1.40457315 45° 24′ 00″ 0.71199200 0.70218757 1.013962696 0.986229576 1.424120904 1.404510156 45° 24′ 10″ 0.71206005 0.70218530 1.014061027 0.986133944 1.424190916 1.40443005 45° 24′ 20″ 0.7122605 0.70211853 1.014159367 0.986038321 1.424260939 1.404375865 45° 24′ 30″ 0.71212816 0.70204949 1.014356078 0.985847102 1.424410105 1.404375865 45° 24′ 40″ 0.71219623 0.7019496 1.014454447 0.985751507 1.424471069 1.404174502 45° 25′ 00″ 0.71223026	45° 22′ 50″	0.71178772	0.70239465	1.013372914	0.986803561	1.423701044	1.404913260
45° 23′ 20″ 0.71188987 0.70229112 1.013667761 0.986516527 1.423910928 1.404711664 45° 23′ 30″ 0.71192391 0.70225661 1.013766063 0.986420868 1.423980910 1.404644485 45° 23′ 40″ 0.71195796 0.70222209 1.013864375 0.986325217 1.424050902 1.404577315 45° 24′ 50″ 0.71202605 0.7021857 1.013962696 0.986229576 1.424120904 1.40410156 45° 24′ 10″ 0.71206009 0.70211853 1.014061027 0.986133944 1.4241209916 1.404375865 45° 24′ 10″ 0.71209413 0.70208401 1.014257718 0.985942707 1.42430972 1.404308735 45° 24′ 30″ 0.7121861 0.70204949 1.014356078 0.985847102 1.424410015 1.404421614 45° 24′ 50″ 0.71216220 0.70201496 1.014454447 0.985751507 1.424471069 1.404174502 45° 25′ 0″ 0.71226429 0.70198043 1.014552826 0.9855655920 1.42451132 1.4040107401 45° 25′ 0″ 0.71226429		0.71182177	0.70236014	1.013471187	0.986707874	1.423770995	1.404846052
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45° 27′ 40″ 0.71277455 0.70139321 1.016226756 0.984032347 1.425733783 1.402968161							
45° 27′ 50″ 0.71280855							
·	45° 27′ 50″	0./1280855	0./0135866	1.016325310	0.983936925	1.425804031	1.402901234

341 45° 27′ 50″

<u> </u>	sin(x)	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\csc(x)$
45° 28′ 00″	0.71284256	0.70132410	1.016423873	0.983841512	1.425874290	1.402834317
45° 28′ 10″	0.71287656	0.70128954	1.016522446	0.983746108	1.425944559	1.402767409
45° 28′ 20″	0.71291055	0.70125498	1.016621029	0.983650713	1.426014838	1.402700511
45° 28′ 30″	0.71294455	0.70122041	1.016719622	0.983555327	1.426085127	1.402633623
45° 28′ 40″	0.71297855	0.70118585	1.016818224	0.983459950	1.426155427	1.402566745
45° 28′ 50″	0.71301254	0.70115128	1.016916836	0.983364582	1.426225737	1.402499876
45° 29′ 00″	0.71304653	0.70111671	1.017015458	0.983269224	1.426296057	1.402433017
45° 29′ 10″	0.71308052	0.70108214	1.017114090	0.983173874	1.426366387	1.402366167
45° 29′ 20″	0.71311451	0.70104757	1.017212731	0.983078534	1.426436728	1.402299327
45° 29′ 30″	0.71314850	0.70101299	1.017311382	0.982983203	1.426507079	1.402232497
45° 29′ 40″	0.71318248	0.70097842	1.017410042	0.982887880	1.426577441	1.402165677
45° 29′ 50″	0.71321647	0.70094384	1.017508713	0.982792567	1.426647812	1.402098866
45° 30′ 00″	0.71325045	0.70090926	1.017607393	0.982697263	1.426718194	1.402032065
45° 30′ 10″	0.71328443	0.70087468	1.017706083	0.982601968	1.426788587	1.401965273
45° 30′ 20″	0.71331841	0.70084010	1.017804783	0.982506682	1.426858989	1.401898492
45° 30′ 30″	0.71335238	0.70080552	1.017903492	0.982411405	1.426929402	1.401831719
45° 30′ 40″	0.71338636	0.70077093	1.018002211	0.982316138	1.426999825	1.401764957
45° 30′ 50″	0.71342033	0.70073635	1.018100940	0.982220879	1.427070259	1.401698204
45° 31′ 00″	0.71345431	0.70070176	1.018199678	0.982125629	1.427140703	1.401631461
45° 31′ 10″	0.71348828	0.70066717	1.018298427	0.982030389	1.427211157	1.401564727
45° 31′ 20″	0.71352224	0.70063258	1.018397185	0.981935157	1.427281621	1.401498003
45° 31′ 30″	0.71355621	0.70059798	1.018495953	0.981839935	1.427352096	1.401431289
45° 31′ 40″	0.71359018	0.70056339	1.018594730	0.981744722	1.427422581	1.401364584
45° 31′ 50″	0.71362414	0.70052879	1.018693518	0.981649517	1.427493076	1.401297889
45° 32′ 00″	0.71365810	0.70049419	1.018792315	0.981554322	1.427563582	1.401231204
45° 32′ 10″	0.71369206	0.70045959	1.018891122	0.981459136	1.427634098	1.401164528
45° 32′ 20″	0.71372602	0.70042499	1.018989938	0.981363959	1.427704624	1.401097862
45° 32′ 30″	0.71375998	0.70039039	1.019088765	0.981268791	1.427775161	1.401031206
45° 32′ 40″	0.71379393	0.70035578	1.019187601	0.981173632	1.427845708	1.400964559
45° 32′ 50″	0.71382788	0.70032118	1.019286447	0.981078482	1.427916265	1.400897922
45° 33′ 00″	0.71386184	0.70028657	1.019385303	0.980983341	1.427986833	1.400831294
45° 33′ 10″	0.71389579	0.70025196	1.019484168	0.980888209	1.428057411	1.400764676
45° 33′ 20″	0.71392973	0.70021735	1.019583044	0.980793086	1.428127999	1.400698068
45° 33′ 30″	0.71396368	0.70018273	1.019681929	0.980697973	1.428198598	1.400631470
45° 33′ 40″	0.71399763	0.70014812	1.019780823	0.980602868	1.428269207	1.400564880
45° 33′ 50″	0.71403157	0.70011350	1.019879728	0.980507772	1.428339826	1.400498301
45° 34′ 00″	0.71406551	0.70007889	1.019978642	0.980412686	1.428410456	1.400431731
45° 34′ 10″	0.71409945	0.70004427	1.020077567	0.980317608	1.428481096	1.400365171
45° 34′ 20″	0.71413339	0.70000964	1.020176500	0.980222539	1.428551746	1.400298621
45° 34′ 30″	0.71416733	0.69997502	1.020275444	0.980127480	1.428622407	1.400232080
45° 34′ 40″	0.71420126	0.69994040	1.020374398	0.980032429	1.428693078	1.400165548
45° 34′ 50″	0.71423519	0.69990577	1.020473361	0.979937388	1.428763760	1.400099027
45° 35′ 00″	0.71426913	0.69987114	1.020572334	0.979842356	1.428834451	1.400032515
45° 35′ 10″	0.71430306	0.69983651	1.020671317	0.979747332	1.428905153	1.399966012
45° 35′ 20″	0.71433698	0.69980188	1.020770310	0.979652318	1.428975866	1.399899519
45° 35′ 30″	0.71437091	0.69976725	1.020869312	0.979557313	1.429046589	1.399833036
45° 35′ 40″	0.71440484	0.69973261	1.020968325	0.979462316	1.429117322	1.399766562
45° 35′ 50″	0.71443876	0.69969798	1.021067347	0.979367329	1.429188065	1.399700098

342 45° 35′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
45° 36′ 00″	0.71447268	0.69966334	1.021166379	0.979272351	1.429258819	1.399633644
45° 36′ 10″	0.71450660	0.69962870	1.021265420	0.979177381	1.429329584	1.399567199
45° 36′ 20″	0.71454052	0.69959406	1.021364472	0.979082421	1.429400358	1.399500764
45° 36′ 30″	0.71457443	0.69955942	1.021463533	0.978987470	1.429471143	1.399434338
45° 36′ 40″	0.71460835	0.69952477	1.021562604	0.978892528	1.429541939	1.399367922
45° 36′ 50″	0.71464226	0.69949013	1.021661685	0.978797595	1.429612744	1.399301515
45° 37′ 00″	0.71467617	0.69945548	1.021760776	0.978702670	1.429683561	1.399235119
45° 37′ 10″	0.71471008	0.69942083	1.021859877	0.978607755	1.429754387	1.399168731
45° 37′ 20″	0.71474399	0.69938618	1.021958987	0.978512849	1.429825224	1.399102354
45° 37′ 30″	0.71477790	0.69935153	1.022058107	0.978417952	1.429896071	1.399035985
45° 37′ 40″	0.71481180	0.69931687	1.022157237	0.978323064	1.429966929	1.398969627
45° 37′ 50″	0.71484571	0.69928222	1.022256377	0.978228185	1.430037797	1.398903278
45° 38′ 00″	0.71487961	0.69924756	1.022355527	0.978133314	1.430108675	1.398836939
45° 38′ 10″	0.71491351	0.69921290	1.022454686	0.978038453	1.430179564	1.398770609
45° 38′ 20″	0.71494740	0.69917824	1.022553856	0.977943601	1.430250463	1.398704289
45° 38′ 30″	0.71498130	0.69914358	1.022653035	0.977848758	1.430321373	1.398637978
45° 38′ 40″	0.71501519	0.69910891	1.022752224	0.977753924	1.430392293	1.398571677
45° 38′ 50″	0.71504909	0.69907425	1.022851423	0.977659099	1.430463223	1.398505385
45° 39′ 00″	0.71508298	0.69903958	1.022950632	0.977564282	1.430534164	1.398439103
45° 39′ 10″	0.71511687	0.69900491	1.023049850	0.977469475	1.430605115	1.398372831
45° 39′ 20″	0.71515076	0.69897024	1.023149078	0.977374677	1.430676077	1.398306568
45° 39′ 30″	0.71518464	0.69893557	1.023248317	0.977279888	1.430747049	1.398240315
45° 39′ 40″	0.71521853	0.69890089	1.023347565	0.977185107	1.430818031	1.398174071
45° 39′ 50″	0.71525241	0.69886622	1.023446823	0.977090336	1.430889024	1.398107837
45° 40′ 00″	0.71528629	0.69883154	1.023546091	0.976995574	1.430960027	1.398041613
45° 40′ 10″	0.71532017	0.69879686	1.023645368	0.976900820	1.431031041	1.397975398
45° 40′ 20″	0.71535405	0.69876218	1.023744656	0.976806076	1.431102065	1.397909192
45° 40′ 30″	0.71538792	0.69872750	1.023843953	0.976711341	1.431173099	1.397842997
45° 40′ 40″	0.71542180	0.69869281	1.023943260	0.976616614	1.431244144	1.397776810
45° 40′ 50″	0.71545567	0.69865813	1.024042577	0.976521897	1.431315199	1.397710634
45° 41′ 00″	0.71548954	0.69862344	1.024141904	0.976427188	1.431386265	1.397644466
45° 41′ 10″	0.71552341	0.69858875	1.024241241	0.976332489	1.431457341	1.397578309
45° 41′ 20″	0.71555728	0.69855406	1.024340588	0.976237798	1.431528428	1.397512161
45° 41′ 30″	0.71559115	0.69851937	1.024439944	0.976143117	1.431599525	1.397446022
45° 41′ 40″	0.71562501	0.69848468	1.024539311	0.976048444	1.431670632	1.397379893
45° 41′ 50″	0.71565887	0.69844998	1.024638687	0.975953780	1.431741750	1.397313774
45° 42′ 00″	0.71569273	0.69841529	1.024738073	0.975859126	1.431812878	1.397247664
45° 42′ 10″	0.71572659	0.69838059	1.024837469	0.975764480	1.431884017	1.397181563
45° 42′ 20″	0.71576045	0.69834589	1.024936875	0.975669843	1.431955166	1.397115472
45° 42′ 30″	0.71579431	0.69831118	1.025036291	0.975575215	1.432026326	1.397049391
45° 42′ 40″	0.71582816	0.69827648	1.025135716	0.975480596	1.432097496	1.396983319
45° 42′ 50″	0.71586201	0.69824178	1.025235152	0.975385987	1.432168676	1.396917257
45° 43′ 00″	0.71589586	0.69820707	1.025334597	0.975291386	1.432239867	1.396851204
45° 43′ 10″	0.71592971	0.69817236	1.025434053	0.975196794	1.432311068	1.396785161
45° 43′ 20″	0.71596356	0.69813765	1.025533518	0.975102210	1.432382280	1.396719127
45° 43′ 30″	0.71599741	0.69810294	1.025632993	0.975007636	1.432453502	1.396653103
45° 43′ 40″	0.71603125	0.69806823	1.025732478	0.974913071	1.432524735	1.396587089
45° 43′ 50″	0.71606509	0.69803351	1.025831973	0.974818515	1.432595978	1.396521084
	1 22 22 22 2					

343 45° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
45° 44′ 00″	0.71609893	0.69799879	1.025931477	0.974723967	1.432667232	1.396455088
45° 44′ 10″	0.71613277	0.69796408	1.026030992	0.974629429	1.432738496	1.396389102
45° 44′ 20″	0.71616661	0.69792936	1.026130517	0.974534900	1.432809770	1.396323125
45° 44′ 30″	0.71620045	0.69789463	1.026230051	0.974440379	1.432881055	1.396257158
45° 44′ 40″	0.71623428	0.69785991	1.026329596	0.974345867	1.432952350	1.396191201
45° 44′ 50″	0.71626811	0.69782519	1.026429150	0.974251365	1.433023656	1.396125253
45° 45′ 00″	0.71630194	0.69779046	1.026528714	0.974156871	1.433094973	1.396059314
45° 45′ 10″	0.71633577	0.69775573	1.026628288	0.974062386	1.433166300	1.395993385
45° 45′ 20″	0.71636960	0.69772100	1.026727872	0.973967910	1.433237637	1.395927466
45° 45′ 30″	0.71640343	0.69768627	1.026827466	0.973873443	1.433308985	1.395861556
45° 45′ 40″	0.71643725	0.69765154	1.026927070	0.973778985	1.433380343	1.395795655
45° 45′ 50″	0.71647107	0.69761680	1.027026684	0.973684536	1.433451711	1.395729765
45° 46′ 00″	0.71650489	0.69758207	1.027126307	0.973590096	1.433523091	1.395663883
45° 46′ 10″	0.71653871	0.69754733	1.027225941	0.973495664	1.433594480	1.395598011
45° 46′ 20″	0.71657253	0.69751259	1.027325585	0.973401242	1.433665880	1.395532149
45° 46′ 30″	0.71660634	0.69747785	1.027425238	0.973306829	1.433737291	1.395466296
45° 46′ 40″	0.71664016	0.69744310	1.027524901	0.973212424	1.433808712	1.395400452
45° 46′ 50″	0.71667397	0.69740836	1.027624575	0.973118028	1.433880144	1.395334618
45° 47′ 00″	0.71670778	0.69737361	1.027724258	0.973023642	1.433951586	1.395268794
45° 47′ 10″	0.71674159	0.69733887	1.027823951	0.972929264	1.434023038	1.395202979
45° 47′ 20″	0.71677540	0.69730412	1.027923654	0.972834895	1.434094501	1.395137173
45° 47′ 30″	0.71680920	0.69726937	1.028023367	0.972740535	1.434165975	1.395071377
45° 47′ 40″	0.71684301	0.69723461	1.028123090	0.972646183	1.434237459	1.395005591
45° 47′ 50″	0.71687681	0.69719986	1.028222823	0.972551841	1.434308954	1.394939814
45° 48′ 00″	0.71691061	0.69716510	1.028322566	0.972457508	1.434380459	1.394874046
45° 48′ 10″	0.71694441	0.69713035	1.028422319	0.972363183	1.434451974	1.394808288
45° 48′ 20″	0.71697820	0.69709559	1.028522082	0.972268868	1.434523500	1.394742539
45° 48′ 30″	0.71701200	0.69706083	1.028621855	0.972174561	1.434595037	1.394676800
45° 48′ 40″	0.71704579	0.69702606	1.028721637	0.972080263	1.434666584	1.394611071
45° 48′ 50″	0.71707958	0.69699130	1.028821430	0.971985974	1.434738141	1.394545350
45° 49′ 00″	0.71711337	0.69695653	1.028921232	0.971891694	1.434809710	1.394479640
45° 49′ 10″	0.71714716	0.69692177	1.029021045	0.971797423	1.434881288	1.394413938
45° 49′ 20″	0.71718095	0.69688700	1.029120868	0.971703161	1.434952877	1.394348247
45° 49′ 30″	0.71721474	0.69685223	1.029220700	0.971608908	1.435024477	1.394282564
45° 49′ 40″	0.71724852	0.69681745	1.029320542	0.971514663	1.435096087	1.394216892
45° 49′ 50″	0.71728230	0.69678268	1.029420395	0.971420427	1.435167708	1.394151228
45° 50′ 00″	0.71731608	0.69674790	1.029520257	0.971326201	1.435239339	1.394085574
45° 50′ 10″	0.71734986	0.69671313	1.029620130	0.971231983	1.435310981	1.394019930
45° 50′ 20″	0.71738364	0.69667835	1.029720012	0.971137774	1.435382633	1.393954295
45° 50′ 30″	0.71741741	0.69664357	1.029819904	0.971043574	1.435454296	1.393888669
45° 50′ 40″	0.71745118	0.69660878	1.029919806	0.970949382	1.435525969	1.393823053
45° 50′ 50″	0.71748496	0.69657400	1.030019719	0.970855200	1.435597653	1.393757446
45° 51′ 00″	0.71751873	0.69653921	1.030119641	0.970761027	1.435669347	1.393691849
45° 51′ 10″	0.71755249	0.69650443	1.030219573	0.970666862	1.435741052	1.393626262
45° 51′ 20″	0.71758626	0.69646964	1.030319515	0.970572706	1.435812768	1.393560683
45° 51′ 30″	0.71762003	0.69643485	1.030419467	0.970478559	1.435884494	1.393495114
45° 51′ 40″ 45° 51′ 50″	0.71765379	0.69640006	1.030519429	0.970384421	1.435956230	1.393429555
45 51 50"	0.71768755	0.69636526	1.030619402	0.970290292	1.436027977	1.393364005

344 45° 51′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
45° 52′ 00″	0.71772131	0.69633047	1.030719384	0.970196171	1.436099735	1.393298464
45° 52′ 10″	0.71775507	0.69629567	1.030819376	0.970102060	1.436171503	1.393232933
45° 52′ 20″	0.71778883	0.69626087	1.030919378	0.970007957	1.436243282	1.393167412
45° 52′ 30″	0.71782258	0.69622607	1.031019390	0.969913864	1.436315071	1.393101900
45° 52′ 40″	0.71785633	0.69619127	1.031119412	0.969819779	1.436386871	1.393036397
45° 52′ 50″	0.71789008	0.69615647	1.031219444	0.969725702	1.436458681	1.392970903
45° 53′ 00″	0.71792383	0.69612166	1.031319486	0.969631635	1.436530502	1.392905420
45° 53′ 10″	0.71795758	0.69608685	1.031419539	0.969537577	1.436602333	1.392839945
45° 53′ 20″	0.71799133	0.69605205	1.031519601	0.969443527	1.436674176	1.392774480
45° 53′ 30″	0.71802507	0.69601724	1.031619673	0.969349486	1.436746028	1.392709024
45° 53′ 40″	0.71805882	0.69598242	1.031719755	0.969255454	1.436817891	1.392643578
45° 53′ 50″	0.71809256	0.69594761	1.031819847	0.969161431	1.436889765	1.392578141
45° 54′ 00″	0.71812630	0.69591280	1.031919949	0.969067417	1.436961649	1.392512714
45° 54′ 10″	0.71816004	0.69587798	1.032020061	0.968973412	1.437033544	1.392447296
45° 54′ 20″	0.71819377	0.69584316	1.032120184	0.968879415	1.437105450	1.392381888
45° 54′ 30″	0.71822751	0.69580834	1.032220316	0.968785427	1.437177366	1.392316489
45° 54′ 40″	0.71826124	0.69577352	1.032320458	0.968691449	1.437249292	1.392251099
45° 54′ 50″	0.71829497	0.69573870	1.032420610	0.968597478	1.437321230	1.392185719
45° 55′ 00″	0.71832870	0.69570387	1.032520773	0.968503517	1.437393177	1.392120348
45° 55′ 10″	0.71836243	0.69566905	1.032620945	0.968409565	1.437465136	1.392054986
45° 55′ 20″	0.71839615	0.69563422	1.032721127	0.968315621	1.437537105	1.391989634
45° 55′ 30″	0.71842988	0.69559939	1.032821320	0.968221686	1.437609084	1.391924292
45° 55′ 40″	0.71846360	0.69556456	1.032921522	0.968127760	1.437681074	1.391858959
45° 55′ 50″	0.71849732	0.69552972	1.033021735	0.968033843	1.437753075	1.391793635
45° 56′ 00″	0.71853104	0.69549489	1.033121957	0.967939935	1.437825086	1.391728320
45° 56′ 10″	0.71856476	0.69546005	1.033222190	0.967846035	1.437897108	1.391663015
45° 56′ 20″	0.71859848	0.69542522	1.033322432	0.967752145	1.437969141	1.391597720
45° 56′ 30″	0.71863219	0.69539038	1.033422685	0.967658263	1.438041184	1.391532434
45° 56′ 40″	0.71866590	0.69535554	1.033522948	0.967564390	1.438113237	1.391467157
45° 56′ 50″	0.71869961	0.69532069	1.033623220	0.967470525	1.438185302	1.391401889
45° 57′ 00″	0.71873332	0.69528585	1.033723503	0.967376670	1.438257376	1.391336631
45° 57′ 10″	0.71876703	0.69525100	1.033823796	0.967282823	1.438329462	1.391271383
45° 57′ 20″	0.71880074	0.69521615	1.033924099	0.967188985	1.438401558	1.391206143
45° 57′ 30″	0.71883444	0.69518131	1.034024412	0.967095156	1.438473665	1.391140913
45° 57′ 40″	0.71886814	0.69514645	1.034124735	0.967001336	1.438545782	1.391075693
45° 57′ 50″	0.71890184	0.69511160	1.034225068	0.966907524	1.438617910	1.391010482
45° 58′ 00″	0.71893554	0.69507675	1.034325411	0.966813722	1.438690048	1.390945280
45° 58′ 10″	0.71896924	0.69504189	1.034425764	0.966719928	1.438762198	1.390880088
45° 58′ 20″	0.71900294	0.69500703	1.034526127	0.966626143	1.438834357	1.390814905
45° 58′ 30″	0.71903663	0.69497218	1.034626501	0.966532366	1.438906528	1.390749731
45° 58′ 40″	0.71907032	0.69493731	1.034726884	0.966438599	1.438978709	1.390684567
45° 58′ 50″	0.71910401	0.69490245	1.034827277	0.966344840	1.439050900	1.390619412
45° 59′ 00″	0.71913770	0.69486759	1.034927681	0.966251090	1.439123103	1.390554267
45° 59′ 10″	0.71917139	0.69483272	1.035028095	0.966157349	1.439195316	1.390489131
45° 59′ 20″	0.71920507	0.69479786	1.035128518	0.966063617	1.439267539	1.390424004
45° 59′ 30″	0.71923876	0.69476299	1.035228952	0.965969893	1.439339773	1.390358887
45° 59′ 40″	0.71927244	0.69472812	1.035329396	0.965876178	1.439412018	1.390293779
45° 59′ 50″	0.71930612	0.69469324	1.035429850	0.965782472	1.439484274	1.390228680

345 45° 59′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
46° 00′ 00″	0.71933980	0.69465837	1.035530314	0.965688775	1.439556540	1.390163591
46° 00′ 10″	0.71937348	0.69462350	1.035630788	0.965595086	1.439628816	1.390098511
46° 00′ 20″	0.71940715	0.69458862	1.035731272	0.965501407	1.439701104	1.390033441
46° 00′ 30″	0.71944083	0.69455374	1.035831766	0.965407736	1.439773402	1.389968379
46° 00′ 40″	0.71947450	0.69451886	1.035932271	0.965314073	1.439845710	1.389903328
46° 00′ 50″	0.71950817	0.69448398	1.036032785	0.965220420	1.439918030	1.389838285
46° 01′ 00″	0.71954184	0.69444909	1.036133310	0.965126775	1.439990360	1.389773252
46° 01′ 10″	0.71957550	0.69441421	1.036233844	0.965033139	1.440062700	1.389708228
46° 01′ 20″	0.71960917	0.69437932	1.036334389	0.964939512	1.440135051	1.389643214
46° 01′ 30″	0.71964283	0.69434443	1.036434944	0.964845894	1.440207413	1.389578209
46° 01′ 40″	0.71967650	0.69430954	1.036535509	0.964752284	1.440279786	1.389513213
46° 01′ 50″	0.71971016	0.69427465	1.036636084	0.964658683	1.440352169	1.389448227
46° 02′ 00″	0.71974381	0.69423976	1.036736669	0.964565091	1.440424563	1.389383250
46° 02′ 10″	0.71977747	0.69420486	1.036837265	0.964471508	1.440496968	1.389318282
46° 02′ 20″	0.71981113	0.69416997	1.036937870	0.964377933	1.440569383	1.389253324
46° 02′ 30″	0.71984478	0.69413507	1.037038486	0.964284367	1.440641809	1.389188375
46° 02′ 40″	0.71987843	0.69410017	1.037139111	0.964190810	1.440714245	1.389123435
46° 02′ 50″	0.71991208	0.69406527	1.037239747	0.964097262	1.440786692	1.389058505
46° 03′ 00″	0.71994573	0.69403036	1.037340393	0.964003722	1.440859150	1.388993584
46° 03′ 10″	0.71997938	0.69399546	1.037441049	0.963910191	1.440931619	1.388928672
46° 03′ 20″	0.72001302	0.69396055	1.037541715	0.963816669	1.441004098	1.388863770
46° 03′ 30″	0.72004667	0.69392564	1.037642391	0.963723156	1.441076588	1.388798877
46° 03′ 40″	0.72008031	0.69389073	1.037743078	0.963629651	1.441149089	1.388733993
46° 03′ 50″	0.72011395	0.69385582	1.037843774	0.963536155	1.441221600	1.388669119
46° 04′ 00″	0.72014758	0.69382091	1.037944481	0.963442668	1.441294122	1.388604254
46° 04′ 10″	0.72018122	0.69378600	1.038045198	0.963349189	1.441366655	1.388539398
46° 04′ 20″	0.72021486	0.69375108	1.038145925	0.963255720	1.441439198	1.388474552
46° 04′ 30″	0.72024849	0.69371616	1.038246662	0.963162259	1.441511752	1.388409715
46° 04′ 40″	0.72028212	0.69368124	1.038347409	0.963068806	1.441584317	1.388344887
46° 04′ 50″	0.72031575	0.69364632	1.038448166	0.962975363	1.441656892	1.388280069
46° 05′ 00″	0.72034938	0.69361140	1.038548934	0.962881928	1.441729478	1.388215260
46° 05′ 10″	0.72038301	0.69357647	1.038649712	0.962788502	1.441802075	1.388150460
46° 05′ 20″	0.72041663	0.69354155	1.038750499	0.962695085	1.441874683	1.388085670
46° 05′ 30″	0.72045025	0.69350662	1.038851297	0.962601676	1.441947301	1.388020888
46° 05′ 40″	0.72048387	0.69347169	1.038952106	0.962508276	1.442019930	1.387956117
46° 05′ 50″	0.72051749	0.69343676	1.039052924	0.962414885	1.442092569	1.387891354
46° 06′ 00″	0.72055111	0.69340183	1.039153752	0.962321502	1.442165220	1.387826601
46° 06′ 10″	0.72058473	0.69336689	1.039254591	0.962228129	1.442237881	1.387761857
46° 06′ 20″	0.72061834	0.69333196	1.039355440	0.962134763	1.442310553	1.387697122
46° 06′ 30″	0.72065196	0.69329702	1.039456299	0.962041407	1.442383235	1.387632397
46° 06′ 40″	0.72068557	0.69326208	1.039557168	0.961948059	1.442455928	1.387567681
46° 06′ 50″	0.72071918	0.69322714	1.039658047	0.961854720	1.442528632	1.387502974
46° 07′ 00″	0.72075278	0.69319220	1.039758936	0.961761390	1.442601347	1.387438277
46° 07′ 10″	0.72078639	0.69315726	1.039859836	0.961668069	1.442674072	1.387373589
46° 07′ 20″	0.72081999	0.69312231	1.039960746	0.961574756	1.442746808	1.387308910
46° 07′ 30″	0.72085360	0.69308736	1.040061666	0.961481452	1.442819555	1.387244240
46° 07′ 40″	0.72088720	0.69305241	1.040162596	0.961388156	1.442892313	1.387179580
46° 07′ 50″	0.72092080	0.69301746	1.040263536	0.961294869	1.442965081	1.387114929
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346 46° 07′ 50″

	$\sin(\mathbf{x})$	$\cos(\mathbf{x})$	$\mathbf{tan}(\mathbf{x})$	$\mathbf{cot}(\mathbf{x})$	$\mathbf{sec}(\mathbf{x})$	$\mathbf{csc}(\mathbf{x})$
46° 08′ 00″	0.72095439	0.69298251	1.040364487	0.961201591	1.443037860	1.387050287
46° 08′ 10″	0.72098799	0.69294756	1.040465447	0.961108322	1.443110650	1.386985655
46° 08′ 20″	0.72102158	0.69291260	1.040566418	0.961015061	1.443183450	1.386921032
46° 08′ 30″	0.72105518	0.69287765	1.040667399	0.960921809	1.443256261	1.386856418
46° 08′ 40″	0.72108877	0.69284269	1.040768390	0.960828566	1.443329083	1.386791813
46° 08′ 50″	0.72112236	0.69280773	1.040869392	0.960735331	1.443401916	1.386727218
46° 09′ 00″	0.72115594	0.69277276	1.040970403	0.960642105	1.443474759	1.386662632
46° 09′ 10″	0.72118953	0.69273780	1.041071425	0.960548888	1.443547613	1.386598055
46° 09′ 20″	0.72122311	0.69270284	1.041172457	0.960455680	1.443620478	1.386533488
46° 09′ 30″	0.72125670	0.69266787	1.041273499	0.960362480	1.443693354	1.386468930
46° 09′ 40″	0.72129028	0.69263290	1.041374552	0.960269289	1.443766241	1.386404381
46° 09′ 50″	0.72132386	0.69259793	1.041475614	0.960176106	1.443839138	1.386339841
46° 10′ 00″	0.72135743	0.69256296	1.041576687	0.960082932	1.443912046	1.386275311
46° 10′ 10″	0.72139101	0.69252799	1.041677770	0.959989767	1.443984964	1.386210789
46° 10′ 20″	0.72142458	0.69249301	1.041778864	0.959896610	1.444057894	1.386146278
46° 10′ 30″	0.72145815	0.69245804	1.041879967	0.959803463	1.444130834	1.386081775
46° 10′ 40″	0.72149173	0.69242306	1.041981081	0.959710323	1.444203785	1.386017282
46° 10′ 50″	0.72152529	0.69238808	1.042082205	0.959617193	1.444276747	1.385952798
46° 11′ 00″	0.72155886	0.69235310	1.042183339	0.959524071	1.444349719	1.385888323
46° 11′ 10″	0.72159243	0.69231811	1.042284483	0.959430958	1.444422703	1.385823857
46° 11′ 20″	0.72162599	0.69228313	1.042385638	0.959337853	1.444495697	1.385759401
46° 11′ 30″	0.72165955	0.69224814	1.042486802	0.959244758	1.444568701	1.385694954
46° 11′ 40″	0.72169311	0.69221315	1.042587977	0.959151670	1.444641717	1.385630516
46° 11′ 50″	0.72172667	0.69217816	1.042689163	0.959058592	1.444714743	1.385566087
46° 12′ 00″	0.72176023	0.69214317	1.042790358	0.958965522	1.444787781	1.385501668
46° 12′ 10″ 46° 12′ 20″	0.72179378 0.72182734	0.69210818 0.69207319	1.042891564 1.042992780	0.958872461 0.958779408	1.444860828 1.444933887	1.385437258 1.385372857
46° 12′ 30″	0.72182734	0.69203819	1.042772780	0.958686364	1.444933007 1.445006957	1.385308466
46° 12′ 40″	0.72189444	0.69200319	1.043094006	0.958593329	1.445080037	1.385244083
46° 12′ 50″	0.72192799	0.67200317	1.043173242	0.958500302	1.445153128	1.385179710
46° 13′ 00″	0.72172777	0.69193319	1.043397746	0.958407284	1.445226230	1.385177710
46° 13′ 10″	0.72170133	0.69189819	1.043499013	0.958314275	1.445299343	1.385050992
46° 13′ 20″	0.72177360	0.69186319	1.043600290	0.958221274	1.445372466	1.384986646
46° 13′ 30″	0.72206216	0.69182818	1.043701578	0.958128282	1.445445600	1.384922310
46° 13′ 40″	0.72209570	0.69179317	1.043802876	0.958035299	1.445518745	1.384857983
46° 13′ 50″	0.72212924	0.69175816	1.043904184	0.957942324	1.445591901	1.384793666
46° 14′ 00″	0.72216278	0.69172315	1.044005502	0.957849358	1.445665068	1.384729357
46° 14′ 10″	0.72219631	0.69168814	1.044106831	0.957756400	1.445738245	1.384665058
46° 14′ 20″	0.72222985	0.69165313	1.044208170	0.957663451	1.445811434	1.384600768
46° 14′ 30″	0.72226338	0.69161811	1.044309519	0.957570511	1.445884633	1.384536487
46° 14′ 40″	0.72229691	0.69158309	1.044410878	0.957477580	1.445957843	1.384472215
46° 14′ 50″	0.72233044	0.69154808	1.044512248	0.957384657	1.446031063	1.384407953
46° 15′ 00″	0.72236396	0.69151306	1.044613628	0.957291742	1.446104295	1.384343700
46° 15′ 10″	0.72239749	0.69147803	1.044715018	0.957198837	1.446177537	1.384279456
46° 15′ 20″	0.72243101	0.69144301	1.044816419	0.957105939	1.446250790	1.384215221
46° 15′ 30″	0.72246453	0.69140798	1.044917830	0.957013051	1.446324054	1.384150996
46° 15′ 40″	0.72249805	0.69137296	1.045019251	0.956920171	1.446397329	1.384086780
46° 15′ 50″	0.72253157	0.69133793	1.045120682	0.956827300	1.446470615	1.384022573

347 46° 15′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\csc(x)$
46° 16′ 00″	0.72256508	0.69130290	1.045222124	0.956734437	1.446543911	1.383958375
46° 16′ 10″	0.72259860	0.69126787	1.045323575	0.956641583	1.446617219	1.383894186
46° 16′ 20″	0.72263211	0.69123283	1.045425038	0.956548738	1.446690537	1.383830007
46° 16′ 30″	0.72266562	0.69119780	1.045526510	0.956455901	1.446763866	1.383765836
46° 16′ 40″	0.72269913	0.69116276	1.045627993	0.956363073	1.446837206	1.383701675
46° 16′ 50″	0.72273264	0.69112772	1.045729486	0.956270253	1.446910556	1.383637524
46° 17′ 00″	0.72276615	0.69109268	1.045830989	0.956177442	1.446983918	1.383573381
46° 17′ 10″	0.72279965	0.69105764	1.045932503	0.956084640	1.447057290	1.383509248
46° 17′ 20″	0.72283315	0.69102260	1.046034027	0.955991846	1.447130673	1.383445123
46° 17′ 30″	0.72286665	0.69098756	1.046135561	0.955899061	1.447204067	1.383381008
46° 17′ 40″	0.72290015	0.69095251	1.046237105	0.955806284	1.447277472	1.383316903
46° 17′ 50″	0.72293365	0.69091746	1.046338660	0.955713516	1.447350888	1.383252806
46° 18′ 00″	0.72296715	0.69088241	1.046440225	0.955620757	1.447424314	1.383188718
46° 18′ 10″	0.72300064	0.69084736	1.046541801	0.955528006	1.447497752	1.383124640
46° 18′ 20″	0.72303413	0.69081231	1.046643386	0.955435264	1.447571200	1.383060571
46° 18′ 30″	0.72306762	0.69077725	1.046744982	0.955342530	1.447644659	1.382996511
46° 18′ 40″	0.72310111	0.69074220	1.046846589	0.955249805	1.447718129	1.382932460
46° 18′ 50″	0.72313460	0.69070714	1.046948206	0.955157089	1.447791610	1.382868419
46° 19′ 00″	0.72316808	0.69067208	1.047049832	0.955064381	1.447865101	1.382804387
46° 19′ 10″	0.72320157	0.69063702	1.047151470	0.954971682	1.447938604	1.382740363
46° 19′ 20″	0.72323505	0.69060196	1.047253117	0.954878991	1.448012117	1.382676349
46° 19′ 30″	0.72326853	0.69056689	1.047354775	0.954786309	1.448085642	1.382612345
46° 19′ 40″	0.72330201	0.69053183	1.047456444	0.954693635	1.448159177	1.382548349
46° 19′ 50″	0.72333549	0.69049676	1.047558122	0.954600970	1.448232723	1.382484363
46° 20′ 00″	0.72336896	0.69046169	1.047659811	0.954508314	1.448306280	1.382420385
46° 20′ 10″	0.72340244	0.69042662	1.047761510	0.954415666	1.448379847	1.382356417
46° 20′ 20″	0.72343591	0.69039155	1.047863220	0.954323027	1.448453426	1.382292458
46° 20′ 30″	0.72346938	0.69035647	1.047964940	0.954230396	1.448527016	1.382228508
46° 20′ 40″	0.72350285	0.69032140	1.048066670	0.954137774	1.448600616	1.382164568
46° 20′ 50″	0.72353631	0.69028632	1.048168411	0.954045161	1.448674227	1.382100636
46° 21′ 00″	0.72356978	0.69025124	1.048270162	0.953952556	1.448747850	1.382036714
46° 21′ 10″	0.72360324	0.69021616	1.048371923	0.953859960	1.448821483	1.381972801
46° 21′ 20″	0.72363670	0.69018108	1.048473695	0.953767372	1.448895127	1.381908897
46° 21′ 30″	0.72367016	0.69014599	1.048575477	0.953674792	1.448968782	1.381845002
46° 21′ 40″	0.72370362	0.69011091	1.048677269	0.953582222	1.449042447	1.381781116
46° 21′ 50″	0.72373708	0.69007582	1.048779072	0.953489660	1.449116124	1.381717240
46° 22′ 00″	0.72377053	0.69004073	1.048880885	0.953397106	1.449189812	1.381653373
46° 22′ 10″	0.72380399	0.69000564	1.048982708	0.953304561	1.449263510	1.381589514
46° 22′ 20″	0.72383744	0.68997055	1.049084542	0.953212025	1.449337219	1.381525665
46° 22′ 30″	0.72387089	0.68993546	1.049186386	0.953119497	1.449410940	1.381461825
46° 22′ 40″	0.72390434	0.68990036	1.049288240	0.953026977	1.449484671	1.381397995
46° 22′ 50″	0.72393778	0.68986527	1.049390105	0.952934467	1.449558413	1.381334173
46° 23′ 00″	0.72397123	0.68983017	1.049491980	0.952841964	1.449632166	1.381270361
46° 23′ 10″	0.72400467	0.68979507	1.049593866	0.952749471	1.449705930	1.381206557
46° 23′ 20″ 46° 23′ 30″	0.72403811	0.68975997	1.049695762	0.952656985	1.449779705	1.381142763
46° 23′ 40″	0.72407155	0.68972486	1.049797668	0.952564509	1.449853490	1.381078978
46° 23′ 50″	0.72410499 0.72413843	0.68968976 0.68965465	1.049899585 1.050001512	0.952472041 0.952379581	1.449927287 1.450001095	1.381015202 1.380951435
40 43 30	0.72413043	0.00703403	1.030001312	0.7343/7301	1.430001073	1.300731433

348 46° 23′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
46° 24′ 00″	0.72417186	0.68961954	1.050103449	0.952287130	1.450074913	1.380887678
46° 24′ 10″	0.72420529	0.68958443	1.050205397	0.952194688	1.450148743	1.380823929
46° 24′ 20″	0.72423873	0.68954932	1.050307355	0.952102254	1.450222583	1.380760190
46° 24′ 30″	0.72427215	0.68951421	1.050409324	0.952009828	1.450296434	1.380696460
46° 24′ 40″	0.72430558	0.68947910	1.050511303	0.951917412	1.450370296	1.380632738
46° 24′ 50″	0.72433901	0.68944398	1.050613292	0.951825003	1.450444170	1.380569026
46° 25′ 00″	0.72437243	0.68940886	1.050715292	0.951732603	1.450518054	1.380505324
46° 25′ 10″	0.72440586	0.68937374	1.050817302	0.951640212	1.450591949	1.380441630
46° 25′ 20″	0.72443928	0.68933862	1.050919322	0.951547829	1.450665855	1.380377945
46° 25′ 30″	0.72447270	0.68930350	1.051021353	0.951455455	1.450739772	1.380314270
46° 25′ 40″	0.72450611	0.68926837	1.051123395	0.951363089	1.450813699	1.380250603
46° 25′ 50″	0.72453953	0.68923325	1.051225446	0.951270732	1.450887638	1.380186946
46° 26′ 00″	0.72457294	0.68919812	1.051327508	0.951178384	1.450961588	1.380123298
46° 26′ 10″	0.72460636	0.68916299	1.051429581	0.951086043	1.451035549	1.380059659
46° 26′ 20″	0.72463977	0.68912786	1.051531664	0.950993712	1.451109520	1.379996029
46° 26′ 30″	0.72467318	0.68909273	1.051633757	0.950901389	1.451183503	1.379932408
46° 26′ 40″	0.72470658	0.68905759	1.051735861	0.950809074	1.451257496	1.379868796
46° 26′ 50″	0.72473999	0.68902246	1.051837975	0.950716768	1.451331501	1.379805194
46° 27′ 00″	0.72477339	0.68898732	1.051940100	0.950624470	1.451405516	1.379741600
46° 27′ 10″	0.72480679	0.68895218	1.052042235	0.950532181	1.451479543	1.379678016
46° 27′ 20″	0.72484019	0.68891704	1.052144380	0.950439901	1.451553580	1.379614441
46° 27′ 30″	0.72487359	0.68888190	1.052246536	0.950347629	1.451627629	1.379550874
46° 27′ 40″	0.72490699	0.68884676	1.052348702	0.950255365	1.451701688	1.379487317
46° 27′ 50″	0.72494039	0.68881161	1.052450879	0.950163110	1.451775758	1.379423769
46° 28′ 00″	0.72497378	0.68877646	1.052553066	0.950070863	1.451849840	1.379360230
46° 28′ 10″	0.72500717	0.68874132	1.052655263	0.949978625	1.451923932	1.379296701
46° 28′ 20″	0.72504056	0.68870617	1.052757471	0.949886396	1.451998035	1.379233180
46° 28′ 30″	0.72507395	0.68867101	1.052859690	0.949794175	1.452072149	1.379169668
46° 28′ 40″	0.72510734	0.68863586	1.052961919	0.949701962	1.452146274	1.379106166
46° 28′ 50″	0.72514072	0.68860071	1.053064158	0.949609758	1.452220410	1.379042672
46° 29′ 00″	0.72517411	0.68856555	1.053166408	0.949517562	1.452294558	1.378979188
46° 29′ 10″	0.72520749	0.68853039	1.053268668	0.949425375	1.452368716	1.378915713
46° 29′ 20″	0.72524087	0.68849523	1.053370938	0.949333196	1.452442885	1.378852247
46° 29′ 30″	0.72527425	0.68846007	1.053473219	0.949241026	1.452517065	1.378788789
46° 29′ 40″	0.72530762	0.68842491	1.053575511	0.949148865	1.452591256	1.378725341
46° 29′ 50″	0.72534100	0.68838974	1.053677813	0.949056711	1.452665458	1.378661903
46° 30′ 00″	0.72537437	0.68835458	1.053780125	0.948964567	1.452739671	1.378598473
46° 30′ 10″	0.72540774	0.68831941	1.053882448	0.948872430	1.452813895	1.378535052
46° 30′ 20″	0.72544111	0.68828424	1.053984781	0.948780303	1.452888130	1.378471640
46° 30′ 30″	0.72547448	0.68824907	1.054087125	0.948688183	1.452962377	1.378408238
46° 30′ 40″	0.72550785	0.68821389	1.054189479	0.948596073	1.453036634	1.378344844
46° 30′ 50″	0.72554121	0.68817872	1.054291844	0.948503970	1.453110902	1.378281460
46° 31′ 00″	0.72557457	0.68814354	1.054394219	0.948411876	1.453185181	1.378218084
46° 31′ 10″	0.72560794	0.68810837	1.054496605	0.948319791	1.453259471	1.378154718
46° 31′ 20″	0.72564130	0.68807319	1.054599001	0.948227714	1.453333772	1.378091360
46° 31′ 30″	0.72567465	0.68803801	1.054701408	0.948135646	1.453408084	1.378028012
46° 31′ 40″	0.72570801	0.68800282	1.054803825	0.948043586	1.453482407	1.377964673
46° 31′ 50″	0.72574136	0.68796764	1.054906252	0.947951534	1.453556742	1.377901343

349 46° 31′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
46° 32′ 00″	0.72577472	0.68793245	1.055008690	0.947859491	1.453631087	1.377838022
46° 32′ 10″	0.72580807	0.68789727	1.055111139	0.947767456	1.453705443	1.377774710
46° 32′ 20″	0.72584142	0.68786208	1.055213598	0.947675430	1.453779810	1.377711407
46° 32′ 30″	0.72587476	0.68782689	1.055316067	0.947583412	1.453854188	1.377648113
46° 32′ 40″	0.72590811	0.68779169	1.055418547	0.947491403	1.453928578	1.377584828
46° 32′ 50″	0.72594145	0.68775650	1.055521037	0.947399402	1.454002978	1.377521553
46° 33′ 00″	0.72597480	0.68772131	1.055623538	0.947307410	1.454077389	1.377458286
46° 33′ 10″	0.72600814	0.68768611	1.055726050	0.947215426	1.454151812	1.377395028
46° 33′ 20″	0.72604148	0.68765091	1.055828572	0.947123451	1.454226245	1.377331780
46° 33′ 30″	0.72607481	0.68761571	1.055931104	0.947031484	1.454300690	1.377268540
46° 33′ 40″	0.72610815	0.68758051	1.056033647	0.946939525	1.454375145	1.377205309
46° 33′ 50″	0.72614148	0.68754530	1.056136200	0.946847575	1.454449612	1.377142088
46° 34′ 00″	0.72617482	0.68751010	1.056238764	0.946755633	1.454524089	1.377078875
46° 34′ 10″	0.72620815	0.68747489	1.056341338	0.946663700	1.454598578	1.377015672
46° 34′ 20″	0.72624148	0.68743968	1.056443923	0.946571775	1.454673078	1.376952478
46° 34′ 30″	0.72627480	0.68740447	1.056546519	0.946479859	1.454747589	1.376889292
46° 34′ 40″	0.72630813	0.68736926	1.056649125	0.946387951	1.454822110	1.376826116
46° 34′ 50″	0.72634145	0.68733405	1.056751741	0.946296051	1.454896643	1.376762949
46° 35′ 00″	0.72637477	0.68729883	1.056854368	0.946204160	1.454971187	1.376699791
46° 35′ 10″	0.72640809	0.68726362	1.056957005	0.946112278	1.455045742	1.376636641
46° 35′ 20″	0.72644141	0.68722840	1.057059653	0.946020404	1.455120308	1.376573501
46° 35′ 30″	0.72647473	0.68719318	1.057162312	0.945928538	1.455194885	1.376510370
46° 35′ 40″	0.72650805	0.68715796	1.057264981	0.945836680	1.455269473	1.376447248
46° 35′ 50″	0.72654136	0.68712274	1.057367661	0.945744832	1.455344073	1.376384135
46° 36′ 00″	0.72657467	0.68708751	1.057470351	0.945652991	1.455418683	1.376321031
46° 36′ 10″	0.72660798	0.68705228	1.057573051	0.945561159	1.455493304	1.376257936
46° 36′ 20″	0.72664129	0.68701706	1.057675762	0.945469335	1.455567937	1.376194850
46° 36′ 30″ 46° 36′ 40″	0.72667460	0.68698183	1.057778484	0.945377520	1.455642580	1.376131773
46° 36′ 50″	0.72670790	0.68694660	1.057881216	0.945285713	1.455717235	1.376068705
46° 37′ 00″	0.72674120 0.72677451	0.68691136 0.68687613	1.057983959 1.058086712	0.945193915 0.945102125	1.455791901 1.455866577	1.376005646 1.375942596
46° 37′ 10″	0.72677431	0.68684089	1.058189476	0.945102123	1.455941265	1.375879555
46° 37′ 20″	0.72684110	0.68680566	1.058292251	0.944918570	1.456015964	1.375816523
46° 37′ 30″	0.72687440	0.68677042	1.058395035	0.944826805	1.456090674	1.375753500
46° 37′ 40″	0.72690769	0.68673518	1.058497831	0.944735049	1.456165395	1.375690486
46° 37′ 50″	0.72694099	0.68669993	1.058600637	0.944643301	1.456240127	1.375627481
46° 38′ 00″	0.72697428	0.68666469	1.058703454	0.944551561	1.456314871	1.375564485
46° 38′ 10″	0.72700757	0.68662945	1.058806281	0.944459830	1.456389625	1.375501498
46° 38′ 20″	0.72704086	0.68659420	1.058909118	0.944368107	1.456464391	1.375438520
46° 38′ 30″	0.72707414	0.68655895	1.059011967	0.944276393	1.456539167	1.375375551
46° 38′ 40″	0.72710743	0.68652370	1.059114825	0.944184687	1.456613955	1.375312591
46° 38′ 50″	0.72714071	0.68648845	1.059217695	0.944092989	1.456688754	1.375249640
46° 39′ 00″	0.72717399	0.68645319	1.059320575	0.944001300	1.456763564	1.375186698
46° 39′ 10″	0.72720727	0.68641794	1.059423465	0.943909620	1.456838385	1.375123765
46° 39′ 20″	0.72724055	0.68638268	1.059526366	0.943817947	1.456913217	1.375060841
46° 39′ 30″	0.72727382	0.68634742	1.059629278	0.943726283	1.456988060	1.374997926
46° 39′ 40″	0.72730710	0.68631216	1.059732200	0.943634628	1.457062914	1.374935020
46° 39′ 50″	0.72734037	0.68627690	1.059835133	0.943542980	1.457137780	1.374872123
	1					

350 46° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
46° 40′ 00″	0.72737364	0.68624164	1.059938076	0.943451341	1.457212656	1.374809235
46° 40′ 10″	0.72740691	0.68620637	1.060041030	0.943359711	1.457287544	1.374746356
46° 40′ 20″	0.72744018	0.68617111	1.060143995	0.943268089	1.457362443	1.374683486
46° 40′ 30″	0.72747344	0.68613584	1.060246970	0.943176475	1.457437353	1.374620625
46° 40′ 40″	0.72750671	0.68610057	1.060349956	0.943084870	1.457512274	1.374557773
46° 40′ 50″	0.72753997	0.68606530	1.060452952	0.942993273	1.457587206	1.374494930
46° 41′ 00″	0.72757323	0.68603002	1.060555959	0.942901684	1.457662149	1.374432096
46° 41′ 10″	0.72760649	0.68599475	1.060658976	0.942810104	1.457737104	1.374369271
46° 41′ 20″	0.72763975	0.68595947	1.060762004	0.942718532	1.457812070	1.374306455
46° 41′ 30″	0.72767300	0.68592420	1.060865043	0.942626969	1.457887046	1.374243647
46° 41′ 40″	0.72770626	0.68588892	1.060968092	0.942535414	1.457962034	1.374180849
46° 41′ 50″	0.72773951	0.68585364	1.061071152	0.942443867	1.458037033	1.374118060
46° 42′ 00″	0.72777276	0.68581835	1.061174223	0.942352329	1.458112043	1.374055280
46° 42′ 10″	0.72780601	0.68578307	1.061277304	0.942260799	1.458187065	1.373992508
46° 42′ 20″	0.72783925	0.68574778	1.061380396	0.942169277	1.458262097	1.373929746
46° 42′ 30″	0.72787250	0.68571250	1.061483498	0.942077764	1.458337141	1.373866992
46° 42′ 40″	0.72790574	0.68567721	1.061586611	0.941986259	1.458412196	1.373804248
46° 42′ 50″	0.72793898	0.68564192	1.061689734	0.941894762	1.458487262	1.373741513
46° 43′ 00″	0.72797222	0.68560662	1.061792869	0.941803274	1.458562339	1.373678786
46° 43′ 10″	0.72800546	0.68557133	1.061896013	0.941711794	1.458637427	1.373616068
46° 43′ 20″	0.72803870	0.68553603	1.061999169	0.941620323	1.458712526	1.373553360
46° 43′ 30″	0.72807193	0.68550074	1.062102335	0.941528860	1.458787637	1.373490660
46° 43′ 40″	0.72810517	0.68546544	1.062205511	0.941437405	1.458862759	1.373427969
46° 43′ 50″	0.72813840	0.68543014	1.062308699	0.941345958	1.458937891	1.373365288
46° 44′ 00″	0.72817163	0.68539484	1.062411896	0.941254520	1.459013036	1.373302615
46° 44′ 10″	0.72820486	0.68535953	1.062515105	0.941163091	1.459088191	1.373239951
46° 44′ 20″	0.72823808	0.68532423	1.062618324	0.941071669	1.459163357	1.373177296
46° 44′ 30″	0.72827131	0.68528892	1.062721554	0.940980256	1.459238535	1.373114650
46° 44′ 40″	0.72830453	0.68525361	1.062824794	0.940888851	1.459313724	1.373052013
46° 44′ 50″	0.72833775	0.68521830	1.062928045	0.940797455	1.459388923	1.372989385
46° 45′ 00″	0.72837097	0.68518299	1.063031307	0.940706067	1.459464135	1.372926766
46° 45′ 10″	0.72840419	0.68514768	1.063134580	0.940614687	1.459539357	1.372864156
46° 45′ 20″	0.72843740	0.68511236	1.063237863	0.940523316	1.459614590	1.372801554
46° 45′ 30″	0.72847062	0.68507705	1.063341156	0.940431953	1.459689835	1.372738962
46° 45′ 40″	0.72850383	0.68504173	1.063444461	0.940340598	1.459765091	1.372676379
46° 45′ 50″	0.72853704	0.68500641	1.063547775	0.940249252	1.459840358	1.372613804
46° 46′ 00″	0.72857025	0.68497109	1.063651101	0.940157914	1.459915636	1.372551239
46° 46′ 10″	0.72860346	0.68493576	1.063754437	0.940066584	1.459990926	1.372488682
46° 46′ 20″	0.72863666	0.68490044	1.063857784	0.939975262	1.460066226	1.372426134
46° 46′ 30″	0.72866987	0.68486511	1.063961142	0.939883949	1.460141538	1.372363595
46° 46′ 40″	0.72870307	0.68482979	1.064064510	0.939792645	1.460216861	1.372301066
46° 46′ 50″	0.72873627	0.68479446	1.064167889	0.939701348	1.460292195	1.372238545
46° 47′ 00″	0.72876947	0.68475913	1.064271279	0.939610060	1.460367541	1.372176033
46° 47′ 10″	0.72880267	0.68472379	1.064374679	0.939518780	1.460442898	1.372113530
46° 47′ 20″	0.72883586	0.68468846	1.064478090	0.939427509	1.460518265	1.372051036
46° 47′ 30″	0.72886906	0.68465312	1.064581511	0.939336246	1.460593645	1.371988550
46° 47′ 40″	0.72890225	0.68461779	1.064684944	0.939244991	1.460669035	1.371926074
46° 47′ 50″	0.72893544	0.68458245	1.064788387	0.939153744	1.460744436	1.371863607

351 46° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
46° 48′ 00″	0.72896863	0.68454711	1.064891840	0.939062506	1.460819849	1.371801148
46° 48′ 10″	0.72900181	0.68451176	1.064995305	0.938971276	1.460895273	1.371738698
46° 48′ 20″	0.72903500	0.68447642	1.065098780	0.938880054	1.460970708	1.371676258
46° 48′ 30″	0.72906818	0.68444107	1.065202265	0.938788841	1.461046155	1.371613826
46° 48′ 40″	0.72910136	0.68440573	1.065305762	0.938697636	1.461121612	1.371551403
46° 48′ 50″	0.72913454	0.68437038	1.065409269	0.938606439	1.461197081	1.371488989
46° 49′ 00″	0.72916772	0.68433503	1.065512787	0.938515251	1.461272561	1.371426584
46° 49′ 10″	0.72920090	0.68429968	1.065616315	0.938424071	1.461348053	1.371364188
46° 49′ 20″	0.72923407	0.68426432	1.065719854	0.938332899	1.461423555	1.371301801
46° 49′ 30″	0.72926725	0.68422897	1.065823404	0.938241735	1.461499069	1.371239422
46° 49′ 40″	0.72930042	0.68419361	1.065926965	0.938150580	1.461574594	1.371177053
46° 49′ 50″	0.72933359	0.68415825	1.066030536	0.938059433	1.461650130	1.371114692
46° 50′ 00″	0.72936676	0.68412289	1.066134118	0.937968294	1.461725678	1.371052341
46° 50′ 10″	0.72939992	0.68408753	1.066237711	0.937877164	1.461801237	1.370989998
46° 50′ 20″	0.72943309	0.68405217	1.066341314	0.937786042	1.461876807	1.370927664
46° 50′ 30″	0.72946625	0.68401680	1.066444928	0.937694928	1.461952388	1.370865339
46° 50′ 40″	0.72949941	0.68398144	1.066548553	0.937603822	1.462027980	1.370803023
46° 50′ 50″	0.72953257	0.68394607	1.066652188	0.937512725	1.462103584	1.370740716
46° 51′ 00″	0.72956573	0.68391070	1.066755835	0.937421636	1.462179199	1.370678417
46° 51′ 10″	0.72959889	0.68387533	1.066859492	0.937330556	1.462254826	1.370616128
46° 51′ 20″	0.72963204	0.68383996	1.066963159	0.937239483	1.462330463	1.370553847
46° 51′ 30″	0.72966519	0.68380458	1.067066838	0.937148419	1.462406112	1.370491576
46° 51′ 40″	0.72969834	0.68376921	1.067170527	0.937057363	1.462481772	1.370429313
46° 51′ 50″	0.72973149	0.68373383	1.067274227	0.936966316	1.462557443	1.370367059
46° 52′ 00″	0.72976464	0.68369845	1.067377937	0.936875276	1.462633126	1.370304814
46° 52′ 10″	0.72979779	0.68366307	1.067481659	0.936784245	1.462708820	1.370242578
46° 52′ 20″	0.72983093	0.68362769	1.067585391	0.936693222	1.462784525	1.370180351
46° 52′ 30″ 46° 52′ 40″	0.72986407	0.68359230	1.067689134	0.936602208	1.462860241	1.370118132
46° 52′ 50″	0.72989721	0.68355692	1.067792887	0.936511202	1.462935969	1.370055923
46° 53′ 00″	0.72993035	0.68352153 0.68348614	1.067896651 1.068000427	0.936420204 0.936329214	1.463011708 1.463087458	1.369993722 1.369931530
46° 53′ 10″	0.72999662	0.68345075	1.068000427	0.936238233	1.463163220	1.369869347
46° 53′ 20″	0.72777662	0.68341536	1.068208009	0.936147259	1.463163220	1.369807173
46° 53′ 30″	0.73002776	0.68337996	1.068311816	0.936056294	1.463314777	1.369745008
46° 53′ 40″	0.73009602	0.68334457	1.068415634	0.935965338	1.463390572	1.369682851
46° 53′ 50″	0.73012915	0.68330917	1.068519463	0.935874389	1.463466379	1.369620704
46° 54′ 00″	0.73016228	0.68327377	1.068623303	0.935783449	1.463542197	1.369558565
46° 54′ 10″	0.73019540	0.68323837	1.068727153	0.935692517	1.463618026	1.369496436
46° 54′ 20″	0.73022853	0.68320297	1.068831014	0.935601594	1.463693867	1.369434315
46° 54′ 30″	0.73026165	0.68316757	1.068934886	0.935510678	1.463769719	1.369372202
46° 54′ 40″	0.73029477	0.68313216	1.069038769	0.935419771	1.463845582	1.369310099
46° 54′ 50″	0.73032789	0.68309676	1.069142662	0.935328872	1.463921457	1.369248005
46° 55′ 00″	0.73036100	0.68306135	1.069246566	0.935237981	1.463997343	1.369185919
46° 55′ 10″	0.73039412	0.68302594	1.069350481	0.935147099	1.464073240	1.369123843
46° 55′ 20″	0.73042723	0.68299053	1.069454407	0.935056225	1.464149148	1.369061775
46° 55′ 30″	0.73046034	0.68295512	1.069558343	0.934965359	1.464225068	1.368999716
46° 55′ 40″	0.73049345	0.68291970	1.069662290	0.934874501	1.464300999	1.368937666
46° 55′ 50″	0.73052656	0.68288428	1.069766248	0.934783651	1.464376941	1.368875624
	1	3.00200120		2.7.5 17 05051		

352 46° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
46° 56′ 00″	0.73055967	0.68284887	1.069870217	0.934692810	1.464452895	1.368813592
46° 56′ 10″	0.73059277	0.68281345	1.069974197	0.934601977	1.464528860	1.368751568
46° 56′ 20″	0.73062587	0.68277803	1.070078187	0.934511152	1.464604836	1.368689554
46° 56′ 30″	0.73065897	0.68274260	1.070182189	0.934420336	1.464680824	1.368627548
46° 56′ 40″	0.73069207	0.68270718	1.070286201	0.934329527	1.464756823	1.368565550
46° 56′ 50″	0.73072517	0.68267175	1.070390223	0.934238727	1.464832834	1.368503562
46° 57′ 00″	0.73075827	0.68263633	1.070494257	0.934147935	1.464908855	1.368441583
46° 57′ 10″	0.73079136	0.68260090	1.070598301	0.934057152	1.464984888	1.368379612
46° 57′ 20″	0.73082445	0.68256547	1.070702356	0.933966376	1.465060933	1.368317650
46° 57′ 30″	0.73085755	0.68253004	1.070806422	0.933875609	1.465136988	1.368255697
46° 57′ 40″	0.73089063	0.68249460	1.070910499	0.933784850	1.465213055	1.368193753
46° 57′ 50″	0.73092372	0.68245917	1.071014587	0.933694099	1.465289134	1.368131818
46° 58′ 00″	0.73095681	0.68242373	1.071118685	0.933603357	1.465365223	1.368069891
46° 58′ 10″	0.73098989	0.68238829	1.071222794	0.933512622	1.465441324	1.368007974
46° 58′ 20″	0.73102297	0.68235285	1.071326914	0.933421896	1.465517437	1.367946065
46° 58′ 30″	0.73105605	0.68231741	1.071431045	0.933331178	1.465593561	1.367884165
46° 58′ 40″	0.73108913	0.68228196	1.071535187	0.933240469	1.465669696	1.367822274
46° 58′ 50″	0.73112221	0.68224652	1.071639339	0.933149767	1.465745842	1.367760391
46° 59′ 00″	0.73115529	0.68221107	1.071743503	0.933059074	1.465822000	1.367698518
46° 59′ 10″	0.73118836	0.68217563	1.071847677	0.932968389	1.465898169	1.367636653
46° 59′ 20″	0.73122143	0.68214018	1.071951862	0.932877712	1.465974350	1.367574797
46° 59′ 30″	0.73125450	0.68210472	1.072056058	0.932787043	1.466050542	1.367512950
46° 59′ 40″	0.73128757	0.68206927	1.072160264	0.932696383	1.466126745	1.367451111
46° 59′ 50″	0.73132064	0.68203382	1.072264482	0.932605730	1.466202960	1.367389282
47° 00′ 00″	0.73135370	0.68199836	1.072368710	0.932515086	1.466279186	1.367327461
47° 00′ 10″	0.73138676	0.68196290	1.072472949	0.932424450	1.466355423	1.367265649
47° 00′ 20″	0.73141983	0.68192744	1.072577199	0.932333823	1.466431672	1.367203846
47° 00′ 30″	0.73145289	0.68189198	1.072681460	0.932243203	1.466507932	1.367142052
47° 00′ 40″	0.73148594	0.68185652	1.072785732	0.932152592	1.466584203	1.367080266
47° 00′ 50″	0.73151900	0.68182105	1.072890014	0.932061989	1.466660486	1.367018489
47° 01′ 00″	0.73155206	0.68178559	1.072994307	0.931971394	1.466736781	1.366956721
47° 01′ 10″	0.73158511	0.68175012	1.073098612	0.931880807	1.466813086	1.366894962
47° 01′ 20″	0.73161816	0.68171465	1.073202927	0.931790228	1.466889403	1.366833212
47° 01′ 30″	0.73165121	0.68167918	1.073307253	0.931699658	1.466965732	1.366771470
47° 01′ 40″	0.73168426	0.68164371	1.073411589	0.931609096	1.467042072	1.366709738
47° 01′ 50″	0.73171730	0.68160824	1.073515937	0.931518542	1.467118423	1.366648014
47° 02′ 00″	0.73175035	0.68157276	1.073620296	0.931427996	1.467194786	1.366586298
47° 02′ 10″	0.73178339	0.68153728	1.073724665	0.931337458	1.467271160	1.366524592
47° 02′ 20″	0.73181643	0.68150180	1.073829045	0.931246928	1.467347545	1.366462894
47° 02′ 30″	0.73184947	0.68146632	1.073933436	0.931156407	1.467423942	1.366401206
47° 02′ 40″ 47° 02′ 50″	0.73188251	0.68143084	1.074037838	0.931065894	1.467500350	1.366339525
47° 02′ 50″ 47° 03′ 00″	0.73191554	0.68139536	1.074142251	0.930975389	1.467576770	1.366277854
47° 03′ 00″ 47° 03′ 10″	0.73194858	0.68135987	1.074246675	0.930884892	1.467653201	1.366216192
47° 03′ 10″ 47° 03′ 20″	0.73198161	0.68132439	1.074351109 1.074455555	0.930794404	1.467729643	1.366154538 1.366092893
47° 03′ 20″ 47° 03′ 30″	0.73201464	0.68128890		0.930703923	1.467806097	
47° 03′ 30″ 47° 03′ 40″	0.73204767	0.68125341 0.68121792	1.074560011 1.074664478	0.930613451 0.930522987	1.467882563 1.467959039	1.366031257 1.365969629
47° 03′ 50″	0.73208070	0.68121792	1.074768957	0.930432531	1.467737037	1.365908011
=======================================	0.73411374	0.00110242	1.0/4/0073/	0./30432331	1.70003334/	1.303/00011

353 47° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
47° 04′ 00″	0.73214675	0.68114693	1.074873446	0.930342083	1.468112027	1.365846401
47° 04′ 10″	0.73217977	0.68111143	1.074977945	0.930251643	1.468188538	1.365784800
47° 04′ 20″	0.73221279	0.68107594	1.075082456	0.930161212	1.468265060	1.365723207
47° 04′ 30″	0.73224581	0.68104044	1.075186978	0.930070788	1.468341594	1.365661624
47° 04′ 40″	0.73227883	0.68100494	1.075291511	0.929980373	1.468418140	1.365600049
47° 04′ 50″	0.73231184	0.68096943	1.075396054	0.929889966	1.468494696	1.365538483
47° 05′ 00″	0.73234485	0.68093393	1.075500608	0.929799567	1.468571264	1.365476926
47° 05′ 10″	0.73237787	0.68089842	1.075605174	0.929709176	1.468647844	1.365415377
47° 05′ 20″	0.73241088	0.68086291	1.075709750	0.929618794	1.468724435	1.365353837
47° 05′ 30″	0.73244388	0.68082741	1.075814337	0.929528419	1.468801037	1.365292306
47° 05′ 40″	0.73247689	0.68079190	1.075918935	0.929438053	1.468877651	1.365230784
47° 05′ 50″	0.73250990	0.68075638	1.076023544	0.929347695	1.468954277	1.365169271
47° 06′ 00″	0.73254290	0.68072087	1.076128164	0.929257345	1.469030914	1.365107766
47° 06′ 10″	0.73257590	0.68068535	1.076232795	0.929167003	1.469107562	1.365046270
47° 06′ 20″	0.73260890	0.68064984	1.076337436	0.929076669	1.469184222	1.364984783
47° 06′ 30″	0.73264190	0.68061432	1.076442089	0.928986343	1.469260893	1.364923304
47° 06′ 40″	0.73267489	0.68057880	1.076546752	0.928896026	1.469337575	1.364861834
47° 06′ 50″	0.73270789	0.68054328	1.076651427	0.928805717	1.469414269	1.364800373
47° 07′ 00″	0.73274088	0.68050775	1.076756112	0.928715415	1.469490975	1.364738921
47° 07′ 10″	0.73277387	0.68047223	1.076860809	0.928625122	1.469567692	1.364677478
47° 07′ 20″	0.73280686	0.68043670	1.076965516	0.928534837	1.469644420	1.364616043
47° 07′ 30″	0.73283985	0.68040117	1.077070234	0.928444560	1.469721160	1.364554617
47° 07′ 40″	0.73287284	0.68036564	1.077174963	0.928354292	1.469797912	1.364493199
47° 07′ 50″	0.73290582	0.68033011	1.077279703	0.928264031	1.469874675	1.364431791
47° 08′ 00″	0.73293880	0.68029458	1.077384454	0.928173779	1.469951449	1.364370391
47° 08′ 10″	0.73297178	0.68025904	1.077489216	0.928083534	1.470028235	1.364309000
47° 08′ 20″	0.73300476	0.68022351	1.077593989	0.927993298	1.470105032	1.364247617
47° 08′ 30″	0.73303774	0.68018797	1.077698773	0.927903070	1.470181841	1.364186244
47° 08′ 40″	0.73307071	0.68015243	1.077803568	0.927812850	1.470258661	1.364124879
47° 08′ 50″	0.73310369	0.68011689	1.077908373	0.927722638	1.470335493	1.364063523
47° 09′ 00″	0.73313666	0.68008135	1.078013190	0.927632435	1.470412336	1.364002175
47° 09′ 10″	0.73316963	0.68004580	1.078118018	0.927542239	1.470489191	1.363940836
47° 09′ 20″	0.73320260	0.68001026	1.078222856	0.927452051	1.470566057	1.363879506
47° 09′ 30″	0.73323557	0.67997471	1.078327706	0.927361872	1.470642935	1.363818185
47° 09′ 40″	0.73326853	0.67993916	1.078432566	0.927271701	1.470719824	1.363756872
47° 09′ 50″	0.73330150	0.67990361	1.078537438	0.927181538	1.470796725	1.363695569
47° 10′ 00″	0.73333446	0.67986806	1.078642320	0.927091383	1.470873637	1.363634273
47° 10′ 10″	0.73336742	0.67983250	1.078747214	0.927001236	1.470950560	1.363572987
47° 10′ 20″	0.73340038	0.67979695	1.078852118	0.926911097	1.471027496	1.363511709
47° 10′ 30″	0.73343333	0.67976139	1.078957034	0.926820966	1.471104442	1.363450440
47° 10′ 40″	0.73346629	0.67972583	1.079061960	0.926730843	1.471181401	1.363389180
47° 10′ 50″	0.73349924	0.67969027	1.079166897	0.926640729	1.471258370	1.363327928
47° 11′ 00″	0.73353219	0.67965471	1.079271846	0.926550622	1.471335352	1.363266685
47° 11′ 10″	0.73356514	0.67961915	1.079376805	0.926460524	1.471412344	1.363205451
47° 11′ 20″	0.73359809	0.67958358	1.079481775	0.926370433	1.471489349	1.363144226
47° 11′ 30″	0.73363104	0.67954801	1.079586756	0.926280351	1.471566364	1.363083009
47° 11′ 40″	0.73366398	0.67951245	1.079691749	0.926190277	1.471643392	1.363021801
47° 11′ 50″	0.73369692	0.67947688	1.079796752	0.926100211	1.471720430	1.362960601

354 47° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
47° 12′ 00″	0.73372986	0.67944130	1.079901766	0.926010153	1.471797481	1.362899411
47° 12′ 10″	0.73376280	0.67940573	1.080006791	0.925920103	1.471874543	1.362838229
47° 12′ 20″	0.73379574	0.67937016	1.080111828	0.925830062	1.471951616	1.362777056
47° 12′ 30″	0.73382868	0.67933458	1.080216875	0.925740028	1.472028701	1.362715891
47° 12′ 40″	0.73386161	0.67929900	1.080321933	0.925650002	1.472105798	1.362654735
47° 12′ 50″	0.73389454	0.67926342	1.080427002	0.925559985	1.472182906	1.362593588
47° 13′ 00″	0.73392747	0.67922784	1.080532083	0.925469975	1.472260025	1.362532449
47° 13′ 10″	0.73396040	0.67919226	1.080637174	0.925379974	1.472337156	1.362471319
47° 13′ 20″	0.73399333	0.67915668	1.080742276	0.925289981	1.472414299	1.362410198
47° 13′ 30″	0.73402626	0.67912109	1.080847390	0.925199996	1.472491453	1.362349086
47° 13′ 40″	0.73405918	0.67908550	1.080952514	0.925110018	1.472568619	1.362287982
47° 13′ 50″	0.73409210	0.67904991	1.081057649	0.925020049	1.472645796	1.362226887
47° 14′ 00″	0.73412502	0.67901432	1.081162796	0.924930088	1.472722985	1.362165801
47° 14′ 10″	0.73415794	0.67897873	1.081267953	0.924840135	1.472800185	1.362104723
47° 14′ 20″	0.73419086	0.67894314	1.081373121	0.924750191	1.472877397	1.362043654
47° 14′ 30″	0.73422377	0.67890754	1.081478301	0.924660254	1.472954621	1.361982593
47° 14′ 40″	0.73425669	0.67887194	1.081583491	0.924570325	1.473031856	1.361921542
47° 14′ 50″	0.73428960	0.67883635	1.081688693	0.924480404	1.473109103	1.361860499
47° 15′ 00″	0.73432251	0.67880075	1.081793905	0.924390492	1.473186361	1.361799464
47° 15′ 10″	0.73435542	0.67876514	1.081899129	0.924300587	1.473263631	1.361738439
47° 15′ 20″	0.73438832	0.67872954	1.082004363	0.924210691	1.473340912	1.361677422
47° 15′ 30″	0.73442123	0.67869394	1.082109609	0.924120802	1.473418205	1.361616413
47° 15′ 40″	0.73445413	0.67865833	1.082214866	0.924030922	1.473495509	1.361555414
47° 15′ 50″	0.73448703	0.67862272	1.082320134	0.923941049	1.473572825	1.361494423
47° 16′ 00″	0.73451993	0.67858711	1.082425412	0.923851185	1.473650153	1.361433440
47° 16′ 10″	0.73455283	0.67855150	1.082530702	0.923761329	1.473727492	1.361372467
47° 16′ 20″	0.73458573	0.67851589	1.082636003	0.923671481	1.473804843	1.361311502
47° 16′ 30″	0.73461862	0.67848027	1.082741315	0.923581641	1.473882205	1.361250545
47° 16′ 40″	0.73465152	0.67844466	1.082846638	0.923491808	1.473959579	1.361189597
47° 16′ 50″	0.73468441	0.67840904	1.082951972	0.923401984	1.474036965	1.361128658
47° 17′ 00″	0.73471730	0.67837342	1.083057317	0.923312168	1.474114362	1.361067728
47° 17′ 10″	0.73475018	0.67833780	1.083162673	0.923222360	1.474191771	1.361006806
47° 17′ 20″	0.73478307	0.67830218	1.083268041	0.923132560	1.474269191	1.360945893
47° 17′ 30″	0.73481595	0.67826655	1.083373419	0.923042769	1.474346623	1.360884989
47° 17′ 40″	0.73484884	0.67823093	1.083478808	0.922952985	1.474424067	1.360824093
47° 17′ 50″	0.73488172	0.67819530	1.083584209	0.922863209	1.474501522	1.360763206
47° 18′ 00″	0.73491460	0.67815967	1.083689620	0.922773441	1.474578988	1.360702327
47° 18′ 10″	0.73494747	0.67812404	1.083795043	0.922683681	1.474656467	1.360641457
47° 18′ 20″	0.73498035	0.67808841	1.083900477	0.922593930	1.474733957	1.360580596
47° 18′ 30″	0.73501322	0.67805277	1.084005921	0.922504186	1.474811458	1.360519744
47° 18′ 40″	0.73504609	0.67801714	1.084111377	0.922414450	1.474888972	1.360458900
47° 18′ 50″ 47° 19′ 00″	0.73507896	0.67798150	1.084216844	0.922324723	1.474966496	1.360398064
47° 19′ 00″ 47° 19′ 10″	0.73511183	0.67794586	1.084322322	0.922235003	1.475044033	1.360337238 1.360276420
47° 19′ 10″ 47° 19′ 20″	0.73514470	0.67791022	1.084427811	0.922145291 0.922055588	1.475121581	1.360276420
47° 19′ 20″ 47° 19′ 30″	0.73517756	0.67787458	1.084533312 1.084638823	0.922055588	1.475199140	1.360213610
47° 19′ 30″ 47° 19′ 40″	0.73521043	0.67783894		0.921965892	1.475276712	1.360154810
47° 19′ 40″ 47° 19′ 50″	0.73524329 0.73527615	0.67780329 0.67776765	1.084744345 1.084849879	0.921876205	1.475354295 1.475431889	1.360094018
= 1/ 30	0.73327013	0.07770703	1.00+04/0/7	0.721700323	1,7/3/3/1007	1.300033234

355 47° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
47° 20′ 00″	0.73530901	0.67773200	1.084955423	0.921696854	1.475509495	1.359972459
47° 20′ 10″	0.73534186	0.67769635	1.085060979	0.921607190	1.475587113	1.359911693
47° 20′ 20″	0.73537472	0.67766070	1.085166546	0.921517535	1.475664743	1.359850935
47° 20′ 30″	0.73540757	0.67762505	1.085272124	0.921427887	1.475742384	1.359790186
47° 20′ 40″	0.73544042	0.67758939	1.085377713	0.921338248	1.475820036	1.359729446
47° 20′ 50″	0.73547327	0.67755374	1.085483313	0.921248616	1.475897701	1.359668714
47° 21′ 00″	0.73550612	0.67751808	1.085588924	0.921158993	1.475975377	1.359607991
47° 21′ 10″	0.73553897	0.67748242	1.085694547	0.921069377	1.476053064	1.359547277
47° 21′ 20″	0.73557181	0.67744676	1.085800180	0.920979770	1.476130764	1.359486571
47° 21′ 30″	0.73560465	0.67741110	1.085905825	0.920890170	1.476208475	1.359425874
47° 21′ 40″	0.73563750	0.67737543	1.086011481	0.920800579	1.476286197	1.359365185
47° 21′ 50″	0.73567033	0.67733977	1.086117147	0.920710996	1.476363931	1.359304505
47° 22′ 00″	0.73570317	0.67730410	1.086222825	0.920621420	1.476441677	1.359243834
47° 22′ 10″	0.73573601	0.67726843	1.086328515	0.920531853	1.476519435	1.359183171
47° 22′ 20″	0.73576884	0.67723276	1.086434215	0.920442293	1.476597204	1.359122517
47° 22′ 30″	0.73580167	0.67719709	1.086539926	0.920352742	1.476674985	1.359061871
47° 22′ 40″	0.73583450	0.67716141	1.086645649	0.920263198	1.476752778	1.359001234
47° 22′ 50″	0.73586733	0.67712574	1.086751382	0.920173663	1.476830582	1.358940606
47° 23′ 00″	0.73590016	0.67709006	1.086857127	0.920084135	1.476908398	1.358879986
47° 23′ 10″	0.73593299	0.67705438	1.086962883	0.919994616	1.476986225	1.358819375
47° 23′ 20″	0.73596581	0.67701870	1.087068650	0.919905104	1.477064064	1.358758772
47° 23′ 30″	0.73599863	0.67698302	1.087174429	0.919815601	1.477141915	1.358698178
47° 23′ 40″	0.73603145	0.67694734	1.087280218	0.919726105	1.477219778	1.358637593
47° 23′ 50″	0.73606427	0.67691166	1.087386019	0.919636618	1.477297652	1.358577016
47° 24′ 00″	0.73609709	0.67687597	1.087491830	0.919547138	1.477375538	1.358516448
47° 24′ 10″	0.73612990	0.67684028	1.087597653	0.919457666	1.477453436	1.358455888
47° 24′ 20″	0.73616272	0.67680459	1.087703487	0.919368203	1.477531345	1.358395337
47° 24′ 30″	0.73619553	0.67676890	1.087809332	0.919278747	1.477609266	1.358334795
47° 24′ 40″	0.73622834	0.67673321	1.087915189	0.919189299	1.477687199	1.358274261
47° 24′ 50″	0.73626114	0.67669751	1.088021056	0.919099860	1.477765143	1.358213736
47° 25′ 00″	0.73629395	0.67666182	1.088126935	0.919010428	1.477843099	1.358153219
47° 25′ 10″	0.73632676	0.67662612	1.088232825	0.918921004	1.477921067	1.358092711
47° 25′ 20″ 47° 25′ 30″	0.73635956	0.67659042	1.088338726	0.918831588	1.477999047	1.358032211
47° 25′ 40″	0.73639236	0.67655472 0.67651902	1.088444638 1.088550562	0.918742180 0.918652780	1.478077038 1.478155041	1.357971721 1.357911238
47° 25′ 50″	0.73642316	0.67648332	1.088656496	0.918563389	1.478233056	1.357850765
47° 26′ 00″	0.73649776	0.67644761	1.088762442	0.918474005	1.478311082	1.357790299
47° 26′ 10″	0.73652355	0.67641190	1.088868399	0.918384629	1.478389120	1.357770277
47° 26′ 20″	0.73655634	0.67637620	1.088974367	0.918295261	1.478467170	1.357669395
47° 26′ 30″	0.73658913	0.67634049	1.089080346	0.918205900	1.478545231	1.357608955
47° 26′ 40″	0.73662192	0.67630477	1.089186337	0.918116548	1.478623304	1.357548524
47° 26′ 50″	0.73665471	0.67626906	1.089292339	0.918027204	1.478701389	1.357488102
47° 27′ 00″	0.73668749	0.67623335	1.087272337	0.917937868	1.478779486	1.357427688
47° 27′ 10″	0.73672028	0.67619763	1.089504376	0.917848540	1.478857594	1.357367283
47° 27′ 20″	0.73675306	0.67616191	1.089610411	0.917759219	1.478935714	1.357306887
47° 27′ 30″	0.73678584	0.67612619	1.089716457	0.917669907	1.479013846	1.357246499
47° 27′ 40″	0.73681862	0.67609047	1.089822515	0.917580602	1.479091990	1.357186119
47° 27′ 50″	0.73685139	0.67605475	1.089928584	0.917491306	1.479170145	1.357125748
	1 3.7 3 3 3 3 7	3.0, 000 17 0	.,007,20001	3.7.17.17.1300	, , , , , , ,	.,557,1257,10

356 47° 27′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
47° 28′ 00″	0.73688417	0.67601902	1.090034664	0.917402017	1.479248312	1.357065386
47° 28′ 10″	0.73691694	0.67598330	1.090140756	0.917312737	1.479326491	1.357005032
47° 28′ 20″	0.73694971	0.67594757	1.090246858	0.917223464	1.479404681	1.356944687
47° 28′ 30″	0.73698248	0.67591184	1.090352972	0.917134199	1.479482884	1.356884350
47° 28′ 40″	0.73701525	0.67587611	1.090459097	0.917044943	1.479561098	1.356824022
47° 28′ 50″	0.73704802	0.67584038	1.090565233	0.916955694	1.479639323	1.356763703
47° 29′ 00″	0.73708078	0.67580464	1.090671381	0.916866453	1.479717561	1.356703392
47° 29′ 10″	0.73711355	0.67576891	1.090777539	0.916777220	1.479795810	1.356643089
47° 29′ 20″	0.73714631	0.67573317	1.090883709	0.916687995	1.479874071	1.356582795
47° 29′ 30″	0.73717907	0.67569743	1.090989890	0.916598778	1.479952344	1.356522510
47° 29′ 40″	0.73721183	0.67566169	1.091096083	0.916509569	1.480030629	1.356462233
47° 29′ 50″	0.73724458	0.67562595	1.091202286	0.916420367	1.480108925	1.356401965
47° 30′ 00″	0.73727734	0.67559021	1.091308501	0.916331174	1.480187233	1.356341705
47° 30′ 10″	0.73731009	0.67555446	1.091414727	0.916241989	1.480265553	1.356281454
47° 30′ 20″	0.73734284	0.67551872	1.091520964	0.916152811	1.480343884	1.356221211
47° 30′ 30″	0.73737559	0.67548297	1.091627213	0.916063642	1.480422228	1.356160977
47° 30′ 40″	0.73740834	0.67544722	1.091733473	0.915974480	1.480500583	1.356100751
47° 30′ 50″	0.73744108	0.67541147	1.091839744	0.915885326	1.480578950	1.356040534
47° 31′ 00″	0.73747383	0.67537571	1.091946026	0.915796180	1.480657328	1.355980326
47° 31′ 10″	0.73750657	0.67533996	1.092052320	0.915707042	1.480735719	1.355920126
47° 31′ 20″	0.73753931	0.67530420	1.092158625	0.915617913	1.480814121	1.355859934
47° 31′ 30″	0.73757205	0.67526845	1.092264941	0.915528790	1.480892535	1.355799751
47° 31′ 40″	0.73760479	0.67523269	1.092371268	0.915439676	1.480970961	1.355739577
47° 31′ 50″	0.73763752	0.67519693	1.092477607	0.915350570	1.481049399	1.355679411
47° 32′ 00″	0.73767025	0.67516116	1.092583957	0.915261472	1.481127848	1.355619254
47° 32′ 10″	0.73770299	0.67512540	1.092690318	0.915172381	1.481206309	1.355559105
47° 32′ 20″	0.73773572	0.67508963	1.092796690	0.915083299	1.481284782	1.355498965
47° 32′ 30″	0.73776844	0.67505387	1.092903074	0.914994224	1.481363267	1.355438833
47° 32′ 40″	0.73780117	0.67501810	1.093009469	0.914905157	1.481441763	1.355378710
47° 32′ 50″	0.73783390	0.67498233	1.093115875	0.914816099	1.481520272	1.355318595
47° 33′ 00″	0.73786662	0.67494655	1.093222292	0.914727048	1.481598792	1.355258489
47° 33′ 10″	0.73789934	0.67491078	1.093328721	0.914638005	1.481677324	1.355198391
47° 33′ 20″	0.73793206	0.67487501	1.093435161	0.914548970	1.481755868	1.355138302
47° 33′ 30″	0.73796478	0.67483923	1.093541613	0.914459942	1.481834423	1.355078221
47° 33′ 40″	0.73799750	0.67480345	1.093648075	0.914370923	1.481912991	1.355018149
47° 33′ 50″	0.73803021	0.67476767	1.093754549	0.914281912	1.481991570	1.354958086
47° 34′ 00″	0.73806292	0.67473189	1.093861034	0.914192908	1.482070161	1.354898030
47° 34′ 10″	0.73809563	0.67469611	1.093967531	0.914103912	1.482148764	1.354837984
47° 34′ 20″	0.73812834	0.67466032	1.094074039	0.914014925	1.482227379	1.354777946
47° 34′ 30″	0.73816105	0.67462454	1.094180558	0.913925945	1.482306005	1.354717916
47° 34′ 40″	0.73819376	0.67458875	1.094287088	0.913836973	1.482384644	1.354657895
47° 34′ 50″	0.73822646	0.67455296	1.094393630	0.913748009	1.482463294	1.354597882
47° 35′ 00″ 47° 35′ 10″	0.73825916	0.67451717	1.094500183	0.913659052	1.482541956	1.354537878
47° 35′ 10″ 47° 35′ 20″	0.73829186	0.67448137	1.094606747 1.094713323	0.913570104 0.913481163	1.482620630	1.354477883
47° 35′ 20″ 47° 35′ 30″	0.73832456	0.67444558	1.094713323		1.482699315	1.354417896
47° 35′ 30″ 47° 35′ 40″	0.73835726 0.73838995	0.67440978		0.913392231	1.482778013	1.354357917
47° 35′ 40″ 47° 35′ 50″	0.73838995	0.67437399 0.67433819	1.094926508 1.095033118	0.913303306 0.913214389	1.482856722 1.482935443	1.354297947 1.354237985
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357 47° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
47° 36′ 00″	0.73845534	0.67430239	1.095139739	0.913125480	1.483014176	1.354178032
47° 36′ 10″	0.73848803	0.67426659	1.095246371	0.913036579	1.483092921	1.354118088
47° 36′ 20″	0.73852072	0.67423078	1.095353015	0.912947686	1.483171678	1.354058151
47° 36′ 30″	0.73855341	0.67419498	1.095459670	0.912858801	1.483250447	1.353998224
47° 36′ 40″	0.73858609	0.67415917	1.095566336	0.912769923	1.483329227	1.353938305
47° 36′ 50″	0.73861877	0.67412336	1.095673013	0.912681053	1.483408019	1.353878394
47° 37′ 00″	0.73865146	0.67408755	1.095779702	0.912592192	1.483486824	1.353818492
47° 37′ 10″	0.73868414	0.67405174	1.095886402	0.912503338	1.483565640	1.353758598
47° 37′ 20″	0.73871681	0.67401593	1.095993114	0.912414492	1.483644467	1.353698713
47° 37′ 30″	0.73874949	0.67398011	1.096099837	0.912325654	1.483723307	1.353638836
47° 37′ 40″	0.73878216	0.67394430	1.096206571	0.912236823	1.483802159	1.353578968
47° 37′ 50″	0.73881484	0.67390848	1.096313317	0.912148001	1.483881022	1.353519108
47° 38′ 00″	0.73884751	0.67387266	1.096420074	0.912059186	1.483959898	1.353459256
47° 38′ 10″	0.73888018	0.67383684	1.096526842	0.911970379	1.484038785	1.353399414
47° 38′ 20″	0.73891285	0.67380101	1.096633622	0.911881580	1.484117684	1.353339579
47° 38′ 30″	0.73894551	0.67376519	1.096740413	0.911792789	1.484196595	1.353279753
47° 38′ 40″	0.73897818	0.67372936	1.096847215	0.911704006	1.484275518	1.353219936
47° 38′ 50″	0.73901084	0.67369354	1.096954029	0.911615231	1.484354453	1.353160127
47° 39′ 00″	0.73904350	0.67365771	1.097060854	0.911526463	1.484433399	1.353100326
47° 39′ 10″	0.73907616	0.67362188	1.097167690	0.911437704	1.484512358	1.353040534
47° 39′ 20″	0.73910882	0.67358604	1.097274538	0.911348952	1.484591328	1.352980751
47° 39′ 30″	0.73914147	0.67355021	1.097381397	0.911260208	1.484670310	1.352920976
47° 39′ 40″	0.73917412	0.67351438	1.097488268	0.911171472	1.484749305	1.352861209
47° 39′ 50″	0.73920678	0.67347854	1.097595150	0.911082743	1.484828311	1.352801451
47° 40′ 00″	0.73923943	0.67344270	1.097702043	0.910994023	1.484907329	1.352741701
47° 40′ 10″	0.73927208	0.67340686	1.097808948	0.910905310	1.484986359	1.352681960
47° 40′ 20″	0.73930472	0.67337102	1.097915864	0.910816605	1.485065400	1.352622227
47° 40′ 30″	0.73933737	0.67333517	1.098022791	0.910727909	1.485144454	1.352562503
47° 40′ 40″	0.73937001	0.67329933	1.098129730	0.910639219	1.485223520	1.352502787
47° 40′ 50″	0.73940265	0.67326348	1.098236680	0.910550538	1.485302597	1.352443079
47° 41′ 00″	0.73943529	0.67322763	1.098343642	0.910461865	1.485381687	1.352383380
47° 41′ 10″	0.73946793	0.67319179	1.098450615	0.910373199	1.485460788	1.352323690
47° 41′ 20″	0.73950057	0.67315593	1.098557599	0.910284541	1.485539901	1.352264007
47° 41′ 30″	0.73953320	0.67312008	1.098664595	0.910195891	1.485619026	1.352204334
47° 41′ 40″	0.73956583	0.67308423	1.098771602	0.910107249	1.485698164	1.352144669
47° 41′ 50″	0.73959847	0.67304837	1.098878621	0.910018615	1.485777313	1.352085012
47° 42′ 00″	0.73963109	0.67301251	1.098985651	0.909929988	1.485856474	1.352025363
47° 42′ 10″	0.73966372	0.67297665	1.099092692	0.909841369	1.485935646	1.351965724
47° 42′ 20″	0.73969635	0.67294079	1.099199745	0.909752759	1.486014831	1.351906092
47° 42′ 30″	0.73972897	0.67290493	1.099306809	0.909664156	1.486094028	1.351846469
47° 42′ 40″	0.73976160	0.67286907	1.099413885	0.909575560	1.486173237	1.351786854
47° 42′ 50″	0.73979422	0.67283320	1.099520972	0.909486973	1.486252457	1.351727248
47° 43′ 00″	0.73982684	0.67279734	1.099628070	0.909398393	1.486331690	1.351667651
47° 43′ 10″	0.73985945	0.67276147	1.099735180	0.909309821	1.486410934	1.351608061
47° 43′ 20″	0.73989207	0.67272560	1.099842301	0.909221257	1.486490191	1.351548480
47° 43′ 30″	0.73992468	0.67268972	1.099949434	0.909132701	1.486569459	1.351488908
47° 43′ 40″	0.73995729	0.67265385	1.100056578	0.909044153	1.486648740	1.351429344
47° 43′ 50″	0.73998990	0.67261798	1.100163734	0.908955612	1.486728032	1.351369788

358 47° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
47° 44′ 00″	0.74002251	0.67258210	1.100270901	0.908867079	1.486807336	1.351310241
47° 44′ 10″	0.74005512	0.67254622	1.100378079	0.908778554	1.486886652	1.351250702
47° 44′ 20″	0.74008772	0.67251034	1.100485269	0.908690037	1.486965980	1.351191172
47° 44′ 30″	0.74012033	0.67247446	1.100592470	0.908601528	1.487045321	1.351131650
47° 44′ 40″	0.74015293	0.67243858	1.100699683	0.908513026	1.487124673	1.351072137
47° 44′ 50″	0.74018553	0.67240269	1.100806907	0.908424532	1.487204037	1.351012632
47° 45′ 00″	0.74021813	0.67236681	1.100914143	0.908336046	1.487283413	1.350953135
47° 45′ 10″	0.74025072	0.67233092	1.101021390	0.908247568	1.487362801	1.350893647
47° 45′ 20″	0.74028332	0.67229503	1.101128648	0.908159098	1.487442201	1.350834167
47° 45′ 30″	0.74031591	0.67225914	1.101235918	0.908070635	1.487521613	1.350774696
47° 45′ 40″	0.74034850	0.67222325	1.101343200	0.907982180	1.487601037	1.350715233
47° 45′ 50″	0.74038109	0.67218735	1.101450493	0.907893733	1.487680472	1.350655778
47° 46′ 00″	0.74041368	0.67215146	1.101557797	0.907805294	1.487759920	1.350596332
47° 46′ 10″	0.74044627	0.67211556	1.101665113	0.907716863	1.487839380	1.350536894
47° 46′ 20″	0.74047885	0.67207966	1.101772440	0.907628439	1.487918852	1.350477465
47° 46′ 30″	0.74051143	0.67204376	1.101879779	0.907540023	1.487998336	1.350418044
47° 46′ 40″	0.74054401	0.67200786	1.101987129	0.907451615	1.488077832	1.350358631
47° 46′ 50″	0.74057659	0.67197196	1.102094491	0.907363214	1.488157339	1.350299227
47° 47′ 00″	0.74060917	0.67193605	1.102201864	0.907274822	1.488236859	1.350239831
47° 47′ 10″	0.74064174	0.67190015	1.102309249	0.907186437	1.488316391	1.350180444
47° 47′ 20″	0.74067432	0.67186424	1.102416645	0.907098060	1.488395935	1.350121065
47° 47′ 30″	0.74070689	0.67182833	1.102524053	0.907009691	1.488475491	1.350061695
47° 47′ 40″	0.74073946	0.67179242	1.102631472	0.906921329	1.488555058	1.350002332
47° 47′ 50″	0.74077203	0.67175650	1.102738902	0.906832976	1.488634638	1.349942979
47° 48′ 00″	0.74080460	0.67172059	1.102846344	0.906744630	1.488714230	1.349883633
47° 48′ 10″	0.74083716	0.67168467	1.102953798	0.906656291	1.488793834	1.349824296
47° 48′ 20″	0.74086972	0.67164876	1.103061263	0.906567961	1.488873450	1.349764968
47° 48′ 30″	0.74090229	0.67161284	1.103168739	0.906479638	1.488953078	1.349705648
47° 48′ 40″	0.74093485	0.67157692	1.103276227	0.906391324	1.489032718	1.349646336
47° 48′ 50″	0.74096740	0.67154099	1.103383727	0.906303016	1.489112369	1.349587032
47° 49′ 00″	0.74099996	0.67150507	1.103491238	0.906214717	1.489192033	1.349527737
47° 49′ 10″ 47° 49′ 20″	0.74103252	0.67146914	1.103598761	0.906126425	1.489271709	1.349468451
47° 49′ 20″ 47° 49′ 30″	0.74106507	0.67143322	1.103706295	0.906038142 0.905949866	1.489351397 1.489431097	1.349409172 1.349349902
47° 49′ 40″	0.74109762 0.74113017	0.67139729 0.67136136	1.103813840 1.103921397	0.905861597	1.489431097	1.349290641
47° 49′ 40″ 47° 49′ 50″	0.74113017	0.67132543	1.103921397	0.905861597	1.489590533	1.349290641
47° 50′ 00″	0.74116272	0.67132343	1.104026766	0.905685084	1.489670270	1.349172143
47° 50′ 10″	0.74117328	0.67125356	1.104136346	0.905596839	1.489750018	1.349112906
47° 50′ 20″	0.74122781	0.67121762	1.104244137	0.705578657	1.489829778	1.349053678
47° 50′ 30″	0.74129289	0.67118168	1.104351741	0.905420372	1.489909550	1.348994459
47° 50′ 40″	0.74127287	0.67114574	1.104457333	0.905332150	1.489989334	1.348935247
47° 50′ 50″	0.74135797	0.67110980	1.104674619	0.905243936	1.490069131	1.348876044
47° 51′ 00″	0.74139050	0.67110786	1.104782268	0.905155729	1.490148939	1.348816850
47° 51′ 10″	0.74137030	0.67107386	1.104782288	0.905067531	1.490228759	1.348757664
47° 51′ 20″	0.74142505	0.67100197	1.104887727	0.904979340	1.490308592	1.348698486
47° 51′ 30″	0.74148810	0.67096602	1.104777661	0.904891157	1.490388436	1.348639316
47° 51′ 40″	0.74152063	0.67093007	1.105212981	0.904802981	1.490468293	1.348580155
47° 51′ 50″	0.74155315	0.67089412	1.105320688	0.904714814	1.490548162	1.348521003
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359 47° 51′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
47° 52′ 00″	0.74158568	0.67085817	1.105428406	0.904626654	1.490628042	1.348461858
47° 52′ 10″	0.74161820	0.67082222	1.105536136	0.904538502	1.490707935	1.348402722
47° 52′ 20″	0.74165072	0.67078626	1.105643878	0.904450357	1.490787840	1.348343594
47° 52′ 30″	0.74168324	0.67075030	1.105751631	0.904362220	1.490867757	1.348284475
47° 52′ 40″	0.74171576	0.67071434	1.105859395	0.904274091	1.490947686	1.348225364
47° 52′ 50″	0.74174828	0.67067838	1.105967172	0.904185970	1.491027627	1.348166261
47° 53′ 00″	0.74178079	0.67064242	1.106074959	0.904097857	1.491107580	1.348107167
47° 53′ 10″	0.74181330	0.67060646	1.106182759	0.904009751	1.491187545	1.348048081
47° 53′ 20″	0.74184581	0.67057049	1.106290570	0.903921653	1.491267523	1.347989004
47° 53′ 30″	0.74187832	0.67053453	1.106398392	0.903833562	1.491347512	1.347929934
47° 53′ 40″	0.74191083	0.67049856	1.106506226	0.903745480	1.491427514	1.347870874
47° 53′ 50″	0.74194334	0.67046259	1.106614072	0.903657405	1.491507527	1.347811821
47° 54′ 00″	0.74197584	0.67042662	1.106721929	0.903569337	1.491587553	1.347752777
47° 54′ 10″	0.74200834	0.67039065	1.106829798	0.903481278	1.491667591	1.347693741
47° 54′ 20″	0.74204084	0.67035467	1.106937678	0.903393226	1.491747641	1.347634713
47° 54′ 30″	0.74207334	0.67031870	1.107045570	0.903305182	1.491827703	1.347575694
47° 54′ 40″	0.74210584	0.67028272	1.107153473	0.903217146	1.491907777	1.347516683
47° 54′ 50″	0.74213834	0.67024674	1.107261389	0.903129117	1.491987863	1.347457681
47° 55′ 00″	0.74217083	0.67021076	1.107369315	0.903041096	1.492067961	1.347398687
47° 55′ 10″	0.74220332	0.67017478	1.107477253	0.902953083	1.492148071	1.347339701
47° 55′ 20″	0.74223581	0.67013879	1.107585203	0.902865077	1.492228194	1.347280723
47° 55′ 30″	0.74226830	0.67010281	1.107693165	0.902777079	1.492308328	1.347221754
47° 55′ 40″	0.74230079	0.67006682	1.107801138	0.902689089	1.492388475	1.347162793
47° 55′ 50″	0.74233327	0.67003083	1.107909122	0.902601107	1.492468634	1.347103841
47° 56′ 00″	0.74236575	0.66999484	1.108017119	0.902513132	1.492548805	1.347044897
47° 56′ 10″	0.74239824	0.66995885	1.108125127	0.902425165	1.492628988	1.346985961
47° 56′ 20″	0.74243071	0.66992286	1.108233146	0.902337206	1.492709183	1.346927033
47° 56′ 30″	0.74246319	0.66988686	1.108341177	0.902249254	1.492789391	1.346868114
47° 56′ 40″	0.74249567	0.66985087	1.108449220	0.902161310	1.492869610	1.346809203
47° 56′ 50″	0.74252814	0.66981487	1.108557274	0.902073374	1.492949842	1.346750300
47° 57′ 00″	0.74256062	0.66977887	1.108665340	0.901985445	1.493030085	1.346691406
47° 57′ 10″	0.74259309	0.66974287	1.108773417	0.901897524	1.493110341	1.346632520
47° 57′ 20″	0.74262556	0.66970686	1.108881506	0.901809611	1.493190609	1.346573642
47° 57′ 30″	0.74265802	0.66967086	1.108989607	0.901721705	1.493270889	1.346514773
47° 57′ 40″	0.74269049	0.66963485	1.109097720	0.901633808	1.493351182	1.346455912
47° 57′ 50″	0.74272295	0.66959885	1.109205844	0.901545918	1.493431486	1.346397059
47° 58′ 00″	0.74275542	0.66956284	1.109313979	0.901458035	1.493511803	1.346338215
47° 58′ 10″	0.74278788	0.66952683	1.109422127	0.901370160	1.493592131	1.346279379
47° 58′ 20″	0.74282033	0.66949081	1.109530285	0.901282293	1.493672472	1.346220551
47° 58′ 30″	0.74285279	0.66945480	1.109638456	0.901194434	1.493752825	1.346161732
47° 58′ 40″	0.74288525	0.66941879	1.109746638	0.901106582	1.493833190	1.346102920
47° 58′ 50″	0.74291770	0.66938277	1.109854832	0.901018738	1.493913568	1.346044117
47° 59′ 00″	0.74295015	0.66934675	1.109963037	0.900930902	1.493993957	1.345985323
47° 59′ 10″	0.74298260	0.66931073	1.110071255	0.900843073	1.494074359	1.345926537
47° 59′ 20″	0.74301505	0.66927471	1.110179483	0.900755252	1.494154773	1.345867759
47° 59′ 30″	0.74304750	0.66923869	1.110287724	0.900667438	1.494235199	1.345808989
47° 59′ 40″	0.74307994	0.66920266	1.110395976	0.900579633	1.494315637	1.345750228
47° 59′ 50″	0.74311238	0.66916663	1.110504239	0.900491835	1.494396087	1.345691474

360 47° 59′ 50″

<u> </u>	sin(x)	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
48° 00′ 00″	0.74314483	0.66913061	1.110612515	0.900404044	1.494476550	1.345632730
48° 00′ 10″	0.74317726	0.66909458	1.110720802	0.900316262	1.494557025	1.345573993
48° 00′ 20″	0.74320970	0.66905855	1.110829101	0.900228487	1.494637511	1.345515265
48° 00′ 30″	0.74324214	0.66902251	1.110937411	0.900140719	1.494718011	1.345456545
48° 00′ 40″	0.74327457	0.66898648	1.111045733	0.900052959	1.494798522	1.345397833
48° 00′ 50″	0.74330701	0.66895044	1.111154067	0.899965207	1.494879045	1.345339130
48° 01′ 00″	0.74333944	0.66891441	1.111262412	0.899877463	1.494959581	1.345280435
48° 01′ 10″	0.74337187	0.66887837	1.111370769	0.899789726	1.495040129	1.345221748
48° 01′ 20″	0.74340429	0.66884233	1.111479138	0.899701997	1.495120689	1.345163070
48° 01′ 30″	0.74343672	0.66880628	1.111587518	0.899614276	1.495201261	1.345104399
48° 01′ 40″	0.74346914	0.66877024	1.111695910	0.899526562	1.495281845	1.345045737
48° 01′ 50″	0.74350156	0.66873420	1.111804314	0.899438856	1.495362442	1.344987084
48° 02′ 00″	0.74353398	0.66869815	1.111912730	0.899351157	1.495443051	1.344928438
48° 02′ 10″	0.74356640	0.66866210	1.112021157	0.899263466	1.495523672	1.344869801
48° 02′ 20″	0.74359882	0.66862605	1.112129596	0.899175783	1.495604305	1.344811172
48° 02′ 30″	0.74363123	0.66859000	1.112238046	0.899088108	1.495684950	1.344752552
48° 02′ 40″	0.74366365	0.66855395	1.112346508	0.899000440	1.495765608	1.344693939
48° 02′ 50″	0.74369606	0.66851789	1.112454982	0.898912779	1.495846278	1.344635335
48° 03′ 00″	0.74372847	0.66848184	1.112563468	0.898825127	1.495926960	1.344576740
48° 03′ 10″	0.74376088	0.66844578	1.112671965	0.898737482	1.496007654	1.344518152
48° 03′ 20″	0.74379328	0.66840972	1.112780474	0.898649844	1.496088361	1.344459573
48° 03′ 30″	0.74382569	0.66837366	1.112888995	0.898562215	1.496169080	1.344401002
48° 03′ 40″	0.74385809	0.66833759	1.112997527	0.898474593	1.496249811	1.344342439
48° 03′ 50″	0.74389049	0.66830153	1.113106072	0.898386978	1.496330554	1.344283885
48° 04′ 00″	0.74392289	0.66826547	1.113214627	0.898299371	1.496411309	1.344225338
48° 04′ 10″	0.74395529	0.66822940	1.113323195	0.898211772	1.496492077	1.344166800
48° 04′ 20″	0.74398768	0.66819333	1.113431774	0.898124181	1.496572857	1.344108271
48° 04′ 30″	0.74402008	0.66815726	1.113540365	0.898036597	1.496653649	1.344049749
48° 04′ 40″	0.74405247	0.66812119	1.113648968	0.897949020	1.496734454	1.343991236
48° 04′ 50″	0.74408486	0.66808511	1.113757583	0.897861452	1.496815270	1.343932731
48° 05′ 00″	0.74411725	0.66804904	1.113866209	0.897773891	1.496896099	1.343874235
48° 05′ 10″	0.74414964	0.66801296	1.113974847	0.897686337	1.496976940	1.343815746
48° 05′ 20″	0.74418202	0.66797688	1.114083497	0.897598791	1.497057794	1.343757266
48° 05′ 30″	0.74421441	0.66794080	1.114192158	0.897511253	1.497138659	1.343698794
48° 05′ 40″	0.74424679	0.66790472	1.114300831	0.897423722	1.497219537	1.343640330
48° 05′ 50″	0.74427917	0.66786864	1.114409516	0.897336200	1.497300427	1.343581875
48° 06′ 00″	0.74431155	0.66783256	1.114518213	0.897248684	1.497381330	1.343523428
48° 06′ 10″	0.74434392	0.66779647	1.114626921	0.897161176	1.497462244	1.343464989
48° 06′ 20″	0.74437630	0.66776038	1.114735641	0.897073676	1.497543171	1.343406558
48° 06′ 30″	0.74440867	0.66772429	1.114844373	0.896986184	1.497624111	1.343348136
48° 06′ 40″	0.74444104	0.66768820	1.114953117	0.896898699	1.497705062	1.343289722
48° 06′ 50″	0.74447341	0.66765211	1.115061872	0.896811222	1.497786026	1.343231316
48° 07′ 00″	0.74450578	0.66761602	1.115170640	0.896723752	1.497867002	1.343172918
48° 07′ 10″	0.74453815	0.66757992	1.115279419	0.896636290	1.497947990	1.343114528
48° 07′ 20″ 48° 07′ 30″	0.74457051	0.66754382 0.66750772	1.115388209	0.896548835	1.498028991	1.343056147
48° 07′ 40″	0.74460287		1.115497012	0.896461388	1.498110004 1.498191029	1.342997774 1.342939409
48° 07′ 50″	0.74463523	0.66747162 0.66743552	1.115605826 1.115714652	0.896373949 0.896286517	1.498191029	1.342939409
=======================================	0.74400737	0.00/43332	1.113/14032	0.070200317	1.4/04/4000	1.344001033

361 48° 07′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
48° 08′ 00″	0.74469995	0.66739942	1.115823490	0.896199093	1.498353116	1.342822704
48° 08′ 10″	0.74473231	0.66736331	1.115932339	0.896111677	1.498434178	1.342764364
48° 08′ 20″	0.74476466	0.66732721	1.116041201	0.896024268	1.498515252	1.342706032
48° 08′ 30″	0.74479701	0.66729110	1.116150074	0.895936867	1.498596339	1.342647708
48° 08′ 40″	0.74482936	0.66725499	1.116258959	0.895849473	1.498677438	1.342589393
48° 08′ 50″	0.74486171	0.66721888	1.116367856	0.895762087	1.498758549	1.342531086
48° 09′ 00″	0.74489406	0.66718277	1.116476764	0.895674708	1.498839673	1.342472787
48° 09′ 10″	0.74492640	0.66714665	1.116585684	0.895587337	1.498920809	1.342414496
48° 09′ 20″	0.74495874	0.66711054	1.116694616	0.895499974	1.499001957	1.342356213
48° 09′ 30″	0.74499109	0.66707442	1.116803560	0.895412618	1.499083117	1.342297939
48° 09′ 40″	0.74502343	0.66703830	1.116912516	0.895325270	1.499164290	1.342239673
48° 09′ 50″	0.74505576	0.66700218	1.117021483	0.895237930	1.499245475	1.342181415
48° 10′ 00″	0.74508810	0.66696606	1.117130463	0.895150597	1.499326672	1.342123165
48° 10′ 10″	0.74512044	0.66692993	1.117239454	0.895063271	1.499407882	1.342064924
48° 10′ 20″	0.74515277	0.66689381	1.117348457	0.894975953	1.499489104	1.342006690
48° 10′ 30″	0.74518510	0.66685768	1.117457471	0.894888643	1.499570338	1.341948465
48° 10′ 40″	0.74521743	0.66682155	1.117566498	0.894801340	1.499651585	1.341890248
48° 10′ 50″	0.74524976	0.66678542	1.117675536	0.894714045	1.499732844	1.341832040
48° 11′ 00″	0.74528208	0.66674929	1.117784586	0.894626758	1.499814116	1.341773839
48° 11′ 10″	0.74531441	0.66671316	1.117893648	0.894539478	1.499895399	1.341715647
48° 11′ 20″	0.74534673	0.66667702	1.118002722	0.894452205	1.499976695	1.341657463
48° 11′ 30″	0.74537905	0.66664089	1.118111808	0.894364940	1.500058004	1.341599287
48° 11′ 40″	0.74541137	0.66660475	1.118220905	0.894277683	1.500139324	1.341541119
48° 11′ 50″	0.74544368	0.66656861	1.118330014	0.894190433	1.500220657	1.341482960
48° 12′ 00″	0.74547600	0.66653247	1.118439135	0.894103191	1.500302003	1.341424808
48° 12′ 10″	0.74550831	0.66649633	1.118548268	0.894015957	1.500383360	1.341366665
48° 12′ 20″	0.74554062	0.66646018	1.118657413	0.893928730	1.500464731	1.341308530
48° 12′ 30″	0.74557294	0.66642404	1.118766570	0.893841510	1.500546113	1.341250404
48° 12′ 40″	0.74560524	0.66638789	1.118875738	0.893754298	1.500627508	1.341192285
48° 12′ 50″	0.74563755	0.66635174	1.118984918	0.893667094	1.500708915	1.341134175
48° 13′ 00″	0.74566985	0.66631559	1.119094110	0.893579897	1.500790334	1.341076073
48° 13′ 10″	0.74570216	0.66627944	1.119203314	0.893492708	1.500871766	1.341017979
48° 13′ 20″	0.74573446	0.66624329	1.119312530	0.893405526	1.500953211	1.340959893
48° 13′ 30″	0.74576676	0.66620713	1.119421758	0.893318352	1.501034667	1.340901815
48° 13′ 40″	0.74579906	0.66617097	1.119530998	0.893231185	1.501116136	1.340843746
48° 13′ 50″	0.74583135	0.66613482	1.119640249	0.893144026	1.501197618	1.340785685
48° 14′ 00″	0.74586365	0.66609866	1.119749512	0.893056875	1.501279111	1.340727631
48° 14′ 10″	0.74589594	0.66606250	1.119858787	0.892969731	1.501360617	1.340669587
48° 14′ 20″	0.74592823	0.66602633	1.119968074	0.892882595	1.501442136	1.340611550
48° 14′ 30″	0.74596052	0.66599017	1.120077373	0.892795466	1.501523667	1.340553521
48° 14′ 40″	0.74599281	0.66595400	1.120186684	0.892708344	1.501605210	1.340495501
48° 14′ 50″	0.74602509	0.66591784	1.120296007	0.892621231	1.501686766	1.340437489
48° 15′ 00″	0.74605738	0.66588167	1.120405341	0.892534124	1.501768334	1.340379485
48° 15′ 10″	0.74608966	0.66584550	1.120514687	0.892447026	1.501849914	1.340321489
48° 15′ 20″	0.74612194	0.66580932	1.120624046	0.892359935	1.501931507	1.340263501
48° 15′ 30″	0.74615422	0.66577315	1.120733416	0.892272851	1.502013112	1.340205522
48° 15′ 40″ 48° 15′ 50″	0.74618649	0.66573697	1.120842798	0.892185775	1.502094730	1.340147550
40 13 30	0.74621877	0.66570080	1.120952192	0.892098706	1.502176360	1.340089587

362 48° 15′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
48° 16′ 00″	0.74625104	0.66566462	1.121061597	0.892011645	1.502258002	1.340031632
48° 16′ 10″	0.74628331	0.66562844	1.121171015	0.891924592	1.502339657	1.339973685
48° 16′ 20″	0.74631558	0.66559226	1.121280445	0.891837546	1.502421324	1.339915747
48° 16′ 30″	0.74634785	0.66555607	1.121389886	0.891750507	1.502503004	1.339857816
48° 16′ 40″	0.74638012	0.66551989	1.121499340	0.891663476	1.502584696	1.339799894
48° 16′ 50″	0.74641238	0.66548370	1.121608805	0.891576453	1.502666400	1.339741980
48° 17′ 00″	0.74644464	0.66544751	1.121718282	0.891489437	1.502748117	1.339684073
48° 17′ 10″	0.74647690	0.66541133	1.121827771	0.891402429	1.502829847	1.339626176
48° 17′ 20″	0.74650916	0.66537513	1.121937272	0.891315428	1.502911588	1.339568286
48° 17′ 30″	0.74654142	0.66533894	1.122046785	0.891228435	1.502993343	1.339510404
48° 17′ 40″	0.74657368	0.66530275	1.122156310	0.891141449	1.503075109	1.339452531
48° 17′ 50″	0.74660593	0.66526655	1.122265847	0.891054471	1.503156888	1.339394665
48° 18′ 00″	0.74663818	0.66523035	1.122375395	0.890967500	1.503238680	1.339336808
48° 18′ 10″	0.74667043	0.66519416	1.122484956	0.890880537	1.503320484	1.339278959
48° 18′ 20″	0.74670268	0.66515796	1.122594528	0.890793581	1.503402300	1.339221118
48° 18′ 30″	0.74673493	0.66512175	1.122704113	0.890706633	1.503484129	1.339163286
48° 18′ 40″	0.74676717	0.66508555	1.122813709	0.890619692	1.503565970	1.339105461
48° 18′ 50″	0.74679942	0.66504934	1.122923318	0.890532759	1.503647824	1.339047645
48° 19′ 00″	0.74683166	0.66501314	1.123032938	0.890445833	1.503729690	1.338989836
48° 19′ 10″	0.74686390	0.66497693	1.123142570	0.890358915	1.503811568	1.338932036
48° 19′ 20″	0.74689614	0.66494072	1.123252214	0.890272004	1.503893459	1.338874244
48° 19′ 30″	0.74692837	0.66490451	1.123361870	0.890185101	1.503975363	1.338816460
48° 19′ 40″	0.74696061	0.66486830	1.123471538	0.890098205	1.504057279	1.338758684
48° 19′ 50″	0.74699284	0.66483208	1.123581218	0.890011317	1.504139207	1.338700917
48° 20′ 00″	0.74702507	0.66479587	1.123690910	0.889924437	1.504221148	1.338643157
48° 20′ 10″	0.74705730	0.66475965	1.123800614	0.889837563	1.504303101	1.338585406
48° 20′ 20″	0.74708953	0.66472343	1.123910330	0.889750698	1.504385067	1.338527663
48° 20′ 30″	0.74712175	0.66468721	1.124020058	0.889663839	1.504467045	1.338469928
48° 20′ 40″	0.74715398	0.66465099	1.124129797	0.889576989	1.504549036	1.338412201
48° 20′ 50″	0.74718620	0.66461476	1.124239549	0.889490146	1.504631039	1.338354482
48° 21′ 00″	0.74721842	0.66457854	1.124349313	0.889403310	1.504713055	1.338296771
48° 21′ 10″	0.74725064	0.66454231	1.124459088	0.889316482	1.504795083	1.338239068
48° 21′ 20″	0.74728286	0.66450608	1.124568876	0.889229661	1.504877123	1.338181374
48° 21′ 30″	0.74731507	0.66446985	1.124678675	0.889142848	1.504959176	1.338123688
48° 21′ 40″	0.74734729	0.66443362	1.124788487	0.889056042	1.505041242	1.338066009
48° 21′ 50″	0.74737950	0.66439739	1.124898310	0.888969243	1.505123320	1.338008339
48° 22′ 00″	0.74741171	0.66436115	1.125008146	0.888882453	1.505205411	1.337950677
48° 22′ 10″	0.74744392	0.66432492	1.125117993	0.888795669	1.505287514	1.337893023
48° 22′ 20″	0.74747612	0.66428868	1.125227853	0.888708893	1.505369629	1.337835377
48° 22′ 30″	0.74750833	0.66425244	1.125337724	0.888622125	1.505451757	1.337777740
48° 22′ 40″	0.74754053	0.66421620	1.125447608	0.888535364	1.505533898	1.337720110
48° 22′ 50″	0.74757273	0.66417995	1.125557503	0.888448611	1.505616051	1.337662489
48° 23′ 00″	0.74760493	0.66414371	1.125667411	0.888361865	1.505698217	1.337604875
48° 23′ 10″	0.74763713	0.66410746	1.125777330	0.888275126	1.505780395	1.337547270
48° 23′ 20″	0.74766932	0.66407122	1.125887261	0.888188395	1.505862585	1.337489673
48° 23′ 30″	0.74770152	0.66403497	1.125997205	0.888101672	1.505944788	1.337432084
48° 23′ 40″	0.74773371	0.66399872	1.126107160	0.888014956	1.506027004	1.337374503
48° 23′ 50″	0.74776590	0.66396247	1.126217128	0.887928247	1.506109232	1.337316930

363 48° 23′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
48° 24′ 00″	0.74779809	0.66392621	1.126327107	0.887841546	1.506191473	1.337259365
48° 24′ 10″	0.74783028	0.66388996	1.126437099	0.887754852	1.506273726	1.337201809
48° 24′ 20″	0.74786246	0.66385370	1.126547102	0.887668166	1.506355992	1.337144260
48° 24′ 30″	0.74789465	0.66381744	1.126657118	0.887581487	1.506438270	1.337086720
48° 24′ 40″	0.74792683	0.66378118	1.126767145	0.887494816	1.506520561	1.337029187
48° 24′ 50″	0.74795901	0.66374492	1.126877185	0.887408152	1.506602864	1.336971663
48° 25′ 00″	0.74799119	0.66370866	1.126987236	0.887321496	1.506685180	1.336914147
48° 25′ 10″	0.74802336	0.66367239	1.127097300	0.887234847	1.506767508	1.336856639
48° 25′ 20″	0.74805554	0.66363613	1.127207375	0.887148205	1.506849849	1.336799139
48° 25′ 30″	0.74808771	0.66359986	1.127317463	0.887061571	1.506932202	1.336741647
48° 25′ 40″	0.74811988	0.66356359	1.127427563	0.886974945	1.507014568	1.336684163
48° 25′ 50″	0.74815205	0.66352732	1.127537674	0.886888325	1.507096947	1.336626688
48° 26′ 00″	0.74818422	0.66349105	1.127647798	0.886801714	1.507179338	1.336569220
48° 26′ 10″	0.74821639	0.66345478	1.127757934	0.886715110	1.507261742	1.336511760
48° 26′ 20″	0.74824855	0.66341850	1.127868082	0.886628513	1.507344158	1.336454309
48° 26′ 30″	0.74828071	0.66338222	1.127978242	0.886541923	1.507426587	1.336396865
48° 26′ 40″	0.74831287	0.66334594	1.128088414	0.886455342	1.507509028	1.336339430
48° 26′ 50″	0.74834503	0.66330966	1.128198598	0.886368767	1.507591482	1.336282003
48° 27′ 00″	0.74837719	0.66327338	1.128308794	0.886282200	1.507673948	1.336224584
48° 27′ 10″	0.74840935	0.66323710	1.128419002	0.886195641	1.507756427	1.336167173
48° 27′ 20″	0.74844150	0.66320082	1.128529222	0.886109088	1.507838919	1.336109770
48° 27′ 30″	0.74847365	0.66316453	1.128639454	0.886022544	1.507921423	1.336052375
48° 27′ 40″	0.74850580	0.66312824	1.128749698	0.885936006	1.508003939	1.335994988
48° 27′ 50″	0.74853795	0.66309195	1.128859955	0.885849477	1.508086469	1.335937609
48° 28′ 00″	0.74857010	0.66305566	1.128970223	0.885762954	1.508169011	1.335880238
48° 28′ 10″	0.74860224	0.66301937	1.129080504	0.885676439	1.508251565	1.335822876
48° 28′ 20″	0.74863439	0.66298307	1.129190796	0.885589932	1.508334132	1.335765521
48° 28′ 30″	0.74866653	0.66294678	1.129301101	0.885503432	1.508416712	1.335708174
48° 28′ 40″	0.74869867	0.66291048	1.129411418	0.885416939	1.508499304	1.335650836
48° 28′ 50″	0.74873080	0.66287418	1.129521746	0.885330454	1.508581909	1.335593506
48° 29′ 00″	0.74876294	0.66283788	1.129632087	0.885243976	1.508664526	1.335536183
48° 29′ 10″	0.74879508	0.66280158	1.129742440	0.885157505	1.508747156	1.335478869
48° 29′ 20″	0.74882721	0.66276528	1.129852805	0.885071042	1.508829799	1.335421563
48° 29′ 30″	0.74885934	0.66272897	1.129963182	0.884984587	1.508912454	1.335364264
48° 29′ 40″	0.74889147	0.66269267	1.130073572	0.884898139	1.508995122	1.335306974
48° 29′ 50″	0.74892360	0.66265636	1.130183973	0.884811698	1.509077802	1.335249692
48° 30′ 00″	0.74895572	0.66262005	1.130294386	0.884725265	1.509160495	1.335192418
48° 30′ 10″	0.74898784	0.66258374	1.130404812	0.884638839	1.509243201	1.335135152
48° 30′ 20″	0.74901997	0.66254742	1.130515250	0.884552420	1.509325919	1.335077894
48° 30′ 30″	0.74905209	0.66251111	1.130625699	0.884466009	1.509408650	1.335020644
48° 30′ 40″	0.74908421	0.66247479	1.130736161	0.884379605	1.509491393	1.334963403
48° 30′ 50″	0.74911632	0.66243848	1.130846635	0.884293209	1.509574149	1.334906169
48° 31′ 00″ 48° 31′ 10″	0.74914844	0.66240216	1.130957121	0.884206820	1.509656918	1.334848943
48° 31′ 10″ 48° 31′ 20″	0.74918055	0.66236584	1.131067619	0.884120439	1.509739699	1.334791725
48° 31′ 30″	0.74921266 0.74924477	0.66232952 0.66229319	1.131178130	0.884034065 0.883947698	1.509822493	1.334734516
48° 31′ 40″	0.74924477	0.66225687	1.131288652 1.131399187	0.883947698	1.509905300 1.509988119	1.334677314 1.334620121
48° 31′ 50″	0.74927688	0.66222054	1.131509733	0.883774987	1.510070951	1.334562935
=======================================	0.74/30077	0.00222034	1.131307/33	0.003//470/	1.3100/0731	1,334304733

364 48° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
48° 32′ 00″	0.74934109	0.66218421	1.131620292	0.883688643	1.510153795	1.334505758
48° 32′ 10″	0.74937319	0.66214788	1.131730863	0.883602306	1.510236653	1.334448588
48° 32′ 20″	0.74940529	0.66211155	1.131841446	0.883515976	1.510319522	1.334391427
48° 32′ 30″	0.74943739	0.66207522	1.131952042	0.883429654	1.510402405	1.334334273
48° 32′ 40″	0.74946949	0.66203888	1.132062649	0.883343339	1.510485300	1.334277128
48° 32′ 50″	0.74950159	0.66200255	1.132173268	0.883257031	1.510568208	1.334219991
48° 33′ 00″	0.74953368	0.66196621	1.132283900	0.883170731	1.510651128	1.334162861
48° 33′ 10″	0.74956577	0.66192987	1.132394544	0.883084439	1.510734061	1.334105740
48° 33′ 20″	0.74959786	0.66189353	1.132505200	0.882998153	1.510817007	1.334048627
48° 33′ 30″	0.74962995	0.66185719	1.132615868	0.882911875	1.510899965	1.333991522
48° 33′ 40″	0.74966204	0.66182084	1.132726548	0.882825605	1.510982936	1.333934424
48° 33′ 50″	0.74969412	0.66178450	1.132837241	0.882739342	1.511065920	1.333877335
48° 34′ 00″	0.74972621	0.66174815	1.132947945	0.882653086	1.511148916	1.333820254
48° 34′ 10″	0.74975829	0.66171180	1.133058662	0.882566838	1.511231925	1.333763181
48° 34′ 20″	0.74979037	0.66167545	1.133169391	0.882480597	1.511314947	1.333706116
48° 34′ 30″	0.74982245	0.66163910	1.133280132	0.882394363	1.511397981	1.333649059
48° 34′ 40″	0.74985452	0.66160275	1.133390885	0.882308137	1.511481028	1.333592010
48° 34′ 50″	0.74988660	0.66156639	1.133501650	0.882221918	1.511564088	1.333534969
48° 35′ 00″	0.74991867	0.66153004	1.133612428	0.882135706	1.511647160	1.333477936
48° 35′ 10″	0.74995074	0.66149368	1.133723218	0.882049502	1.511730245	1.333420911
48° 35′ 20″	0.74998281	0.66145732	1.133834020	0.881963306	1.511813343	1.333363893
48° 35′ 30″	0.75001488	0.66142096	1.133944834	0.881877116	1.511896453	1.333306884
48° 35′ 40″	0.75004694	0.66138460	1.134055660	0.881790934	1.511979577	1.333249883
48° 35′ 50″	0.75007901	0.66134823	1.134166499	0.881704760	1.512062712	1.333192890
48° 36′ 00″	0.75011107	0.66131187	1.134277349	0.881618592	1.512145861	1.333135905
48° 36′ 10″	0.75014313	0.66127550	1.134388212	0.881532432	1.512229022	1.333078928
48° 36′ 20″	0.75017519	0.66123913	1.134499087	0.881446280	1.512312196	1.333021959
48° 36′ 30″	0.75020725	0.66120276	1.134609974	0.881360135	1.512395383	1.332964998
48° 36′ 40″	0.75023930	0.66116639	1.134720874	0.881273997	1.512478582	1.332908045
48° 36′ 50″	0.75027135	0.66113001	1.134831786	0.881187867	1.512561794	1.332851101
48° 37′ 00″	0.75030341	0.66109364	1.134942709	0.881101743	1.512645019	1.332794164
48° 37′ 10″	0.75033546	0.66105726	1.135053646	0.881015628	1.512728257	1.332737235
48° 37′ 20″ 48° 37′ 30″	0.75036750	0.66102088	1.135164594	0.880929519	1.512811507	1.332680314
	0.75039955	0.66098450	1.135275554	0.880843418	1.512894770	1.332623401
48° 37′ 40″	0.75043159	0.66094812	1.135386527	0.880757325	1.512978045	1.332566496
48° 37′ 50″ 48° 38′ 00″	0.75046364	0.66091174	1.135497512	0.880671238	1.513061334	1.332509598
48° 38′ 10″	0.75049568 0.75052772	0.66087536	1.135608509	0.880585159 0.880499088	1.513144635 1.513227949	1.332452709
48° 38′ 20″		0.66083897	1.135719518	0.880413024		1.332395828
48° 38′ 30″	0.75055976 0.75059179	0.66080258 0.66076619	1.135830540 1.135941574	0.880326967	1.513311275 1.513394615	1.332338955 1.332282090
48° 38′ 40″	0.75062382	0.66072980	1.135741374	0.880240917	1.513374613	1.332225233
48° 38′ 50″	0.75062582	0.66069341	1.136032620	0.880154875	1.513561331	1.332168384
48° 39′ 00″	0.75068789	0.66065702	1.136163678	0.880068840	1.513644709	1.332111543
48° 39′ 10″	0.75068789	0.66062062	1.1362/4/47	0.879982812	1.513644709	1.332111343
48° 39′ 20″	0.75071772	0.66058423	1.136363632	0.879896792	1.513728077	1.331997885
48° 39′ 30″	0.75073174	0.66054783	1.136476727	0.879810779	1.513894918	1.331941068
48° 39′ 40″	0.75078377	0.66051143	1.136608034	0.879724774	1.513978346	1.331884258
48° 39′ 50″	0.75084801	0.66047503	1.136830285	0.879638776	1.513778348	1.331827457
=======================================	0.73004001	0.00047303	1.130030203	0.077030770	1.517001700	1.33104/43/

365 48° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
48° 40′ 00″	0.75088003	0.66043862	1.136941429	0.879552785	1.514145242	1.331770664
48° 40′ 10″	0.75091205	0.66040222	1.137052585	0.879466801	1.514228709	1.331713879
48° 40′ 20″	0.75094407	0.66036581	1.137163754	0.879380825	1.514312188	1.331657101
48° 40′ 30″	0.75097608	0.66032941	1.137274935	0.879294856	1.514395680	1.331600332
48° 40′ 40″	0.75100809	0.66029300	1.137386128	0.879208895	1.514479185	1.331543571
48° 40′ 50″	0.75104011	0.66025659	1.137497333	0.879122940	1.514562703	1.331486817
48° 41′ 00″	0.75107212	0.66022017	1.137608550	0.879036994	1.514646234	1.331430072
48° 41′ 10″	0.75110412	0.66018376	1.137719780	0.878951054	1.514729777	1.331373334
48° 41′ 20″	0.75113613	0.66014734	1.137831022	0.878865122	1.514813334	1.331316605
48° 41′ 30″	0.75116813	0.66011093	1.137942277	0.878779197	1.514896902	1.331259883
48° 41′ 40″	0.75120013	0.66007451	1.138053543	0.878693279	1.514980484	1.331203170
48° 41′ 50″	0.75123213	0.66003809	1.138164822	0.878607369	1.515064079	1.331146464
48° 42′ 00″	0.75126413	0.66000167	1.138276113	0.878521466	1.515147686	1.331089766
48° 42′ 10″	0.75129613	0.65996524	1.138387417	0.878435570	1.515231306	1.331033077
48° 42′ 20″	0.75132813	0.65992882	1.138498733	0.878349682	1.515314939	1.330976395
48° 42′ 30″	0.75136012	0.65989239	1.138610061	0.878263801	1.515398585	1.330919721
48° 42′ 40″	0.75139211	0.65985597	1.138721401	0.878177927	1.515482243	1.330863055
48° 42′ 50″	0.75142410	0.65981954	1.138832754	0.878092061	1.515565914	1.330806398
48° 43′ 00″	0.75145609	0.65978311	1.138944119	0.878006202	1.515649599	1.330749748
48° 43′ 10″	0.75148807	0.65974667	1.139055496	0.877920350	1.515733295	1.330693106
48° 43′ 20″	0.75152006	0.65971024	1.139166886	0.877834506	1.515817005	1.330636472
48° 43′ 30″	0.75155204	0.65967380	1.139278287	0.877748669	1.515900728	1.330579846
48° 43′ 40″	0.75158402	0.65963737	1.139389702	0.877662839	1.515984463	1.330523227
48° 43′ 50″	0.75161600	0.65960093	1.139501128	0.877577016	1.516068211	1.330466617
48° 44′ 00″	0.75164798	0.65956449	1.139612567	0.877491201	1.516151972	1.330410015
48° 44′ 10″	0.75167996	0.65952805	1.139724018	0.877405393	1.516235746	1.330353421
48° 44′ 20″	0.75171193	0.65949160	1.139835481	0.877319593	1.516319532	1.330296834
48° 44′ 30″	0.75174390	0.65945516	1.139946957	0.877233799	1.516403332	1.330240256
48° 44′ 40″	0.75177587	0.65941871	1.140058445	0.877148013	1.516487144	1.330183685
48° 44′ 50″	0.75180784	0.65938226	1.140169945	0.877062234	1.516570969	1.330127123
48° 45′ 00″	0.75183981	0.65934582	1.140281458	0.876976463	1.516654807	1.330070568
48° 45′ 10″	0.75187177	0.65930936	1.140392983	0.876890699	1.516738658	1.330014022
48° 45′ 20″	0.75190374	0.65927291	1.140504521	0.876804942	1.516822521	1.329957483
48° 45′ 30″	0.75193570	0.65923646	1.140616070	0.876719192	1.516906398	1.329900952
48° 45′ 40″	0.75196766	0.65920000	1.140727632	0.876633450	1.516990287	1.329844429
48° 45′ 50″	0.75199962	0.65916354	1.140839207	0.876547715	1.517074189	1.329787914
48° 46′ 00″	0.75203157	0.65912709	1.140950793	0.876461987	1.517158104	1.329731407
48° 46′ 10″	0.75206353	0.65909063	1.141062392	0.876376267	1.517242032	1.329674908
48° 46′ 20″	0.75209548	0.65905416	1.141174004	0.876290554	1.517325973	1.329618417
48° 46′ 30″	0.75212743	0.65901770	1.141285628	0.876204848	1.517409926	1.329561934
48° 46′ 40″	0.75215938	0.65898124	1.141397264	0.876119150	1.517493893	1.329505458
48° 46′ 50″	0.75219133	0.65894477	1.141508912	0.876033458	1.517577872	1.329448991
48° 47′ 00″	0.75222327	0.65890830	1.141620573	0.875947774	1.517661864	1.329392532
48° 47′ 10″	0.75225522	0.65887183	1.141732246	0.875862097	1.517745869	1.329336080
48° 47′ 20″	0.75228716	0.65883536	1.141843932	0.875776428	1.517829887	1.329279636
48° 47′ 30″	0.75231910	0.65879889	1.141955630	0.875690766	1.517913917	1.329223201
48° 47′ 40″	0.75235104	0.65876241	1.142067340	0.875605111	1.517997961	1.329166773
48° 47′ 50″	0.75238297	0.65872594	1.142179063	0.875519463	1.518082017	1.329110353

366 48° 47′ 50″

x	sin(x)	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
48° 48′ 00″	0.75241491	0.65868946	1.142290798	0.875433823	1.518166087	1.329053941
48° 48′ 10″	0.75244684	0.65865298	1.142402545	0.875348190	1.518250169	1.328997537
48° 48′ 20″	0.75247877	0.65861650	1.142514305	0.875262564	1.518334264	1.328941141
48° 48′ 30″	0.75251070	0.65858002	1.142626077	0.875176945	1.518418372	1.328884753
48° 48′ 40″	0.75254263	0.65854354	1.142737862	0.875091334	1.518502493	1.328828372
48° 48′ 50″	0.75257456	0.65850705	1.142849659	0.875005730	1.518586627	1.328772000
48° 49′ 00″	0.75260648	0.65847056	1.142961468	0.874920133	1.518670773	1.328715635
48° 49′ 10″	0.75263840	0.65843408	1.143073290	0.874834544	1.518754933	1.328659279
48° 49′ 20″	0.75267033	0.65839759	1.143185124	0.874748962	1.518839105	1.328602930
48° 49′ 30″	0.75270224	0.65836109	1.143296970	0.874663387	1.518923291	1.328546589
48° 49′ 40″	0.75273416	0.65832460	1.143408829	0.874577819	1.519007489	1.328490256
48° 49′ 50″	0.75276608	0.65828811	1.143520701	0.874492258	1.519091700	1.328433931
48° 50′ 00″	0.75279799	0.65825161	1.143632584	0.874406705	1.519175924	1.328377614
48° 50′ 10″	0.75282990	0.65821511	1.143744481	0.874321159	1.519260161	1.328321305
48° 50′ 20″	0.75286181	0.65817861	1.143856389	0.874235620	1.519344411	1.328265004
48° 50′ 30″	0.75289372	0.65814211	1.143968310	0.874150089	1.519428674	1.328208710
48° 50′ 40″	0.75292563	0.65810561	1.144080243	0.874064565	1.519512949	1.328152425
48° 50′ 50″	0.75295753	0.65806911	1.144192189	0.873979048	1.519597238	1.328096147
48° 51′ 00″	0.75298944	0.65803260	1.144304147	0.873893538	1.519681540	1.328039877
48° 51′ 10″	0.75302134	0.65799610	1.144416118	0.873808036	1.519765854	1.327983616
48° 51′ 20″	0.75305324	0.65795959	1.144528101	0.873722540	1.519850181	1.327927362
48° 51′ 30″	0.75308514	0.65792308	1.144640097	0.873637052	1.519934522	1.327871115
48° 51′ 40″	0.75311703	0.65788657	1.144752104	0.873551572	1.520018875	1.327814877
48° 51′ 50″	0.75314893	0.65785005	1.144864125	0.873466098	1.520103241	1.327758647
48° 52′ 00″	0.75318082	0.65781354	1.144976158	0.873380632	1.520187620	1.327702425
48° 52′ 10″	0.75321271	0.65777702	1.145088203	0.873295173	1.520272013	1.327646210
48° 52′ 20″	0.75324460	0.65774051	1.145200261	0.873209721	1.520356418	1.327590003
48° 52′ 30″	0.75327649	0.65770399	1.145312331	0.873124276	1.520440836	1.327533805
48° 52′ 40″	0.75330837	0.65766747	1.145424413	0.873038839	1.520525267	1.327477614
48° 52′ 50″	0.75334026	0.65763094	1.145536508	0.872953409	1.520609710	1.327421431
48° 53′ 00″	0.75337214	0.65759442	1.145648616	0.872867986	1.520694167	1.327365255
48° 53′ 10″	0.75340402	0.65755790	1.145760736	0.872782571	1.520778637	1.327309088
48° 53′ 20″	0.75343590	0.65752137	1.145872868	0.872697162	1.520863120	1.327252929
48° 53′ 30″	0.75346777	0.65748484	1.145985013	0.872611761	1.520947616	1.327196777
48° 53′ 40″	0.75349965	0.65744831	1.146097170	0.872526367	1.521032124	1.327140634
48° 53′ 50″	0.75353152	0.65741178	1.146209340	0.872440980	1.521116646	1.327084498
48° 54′ 00″	0.75356339	0.65737525	1.146321522	0.872355601	1.521201181	1.327028370
48° 54′ 10″	0.75359526	0.65733871	1.146433717	0.872270228	1.521285728	1.326972250
48° 54′ 20″	0.75362713	0.65730218	1.146545924	0.872184863	1.521370289	1.326916137
48° 54′ 30″	0.75365900	0.65726564	1.146658144	0.872099506	1.521454862	1.326860033
48° 54′ 40″	0.75369086	0.65722910	1.146770376	0.872014155	1.521539449	1.326803937
48° 54′ 50″	0.75372272	0.65719256	1.146882620	0.871928812	1.521624048	1.326747848
48° 55′ 00″	0.75375458	0.65715602	1.146994877	0.871843475	1.521708661	1.326691767
48° 55′ 10″	0.75378644	0.65711947	1.147107147	0.871758146	1.521793286	1.326635694
48° 55′ 20″	0.75381830	0.65708293	1.147219429	0.871672825	1.521877925	1.326579629
48° 55′ 30″	0.75385015	0.65704638	1.147331723	0.871587510	1.521962576	1.326523572
48° 55′ 40″	0.75388201	0.65700983	1.147444031	0.871502203	1.522047241	1.326467523
48° 55′ 50″	0.75391386	0.65697328	1.147556350	0.871416902	1.522131918	1.326411481

367 48° 55′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(\mathbf{x})$
48° 56′ 00″	0.75394571	0.65693673	1.147668682	0.871331610	1.522216609	1.326355448
48° 56′ 10″	0.75397756	0.65690018	1.147781027	0.871246324	1.522301312	1.326299422
48° 56′ 20″	0.75400941	0.65686362	1.147893384	0.871161045	1.522386029	1.326243404
48° 56′ 30″	0.75404125	0.65682707	1.148005753	0.871075774	1.522470758	1.326187394
48° 56′ 40″	0.75407309	0.65679051	1.148118135	0.870990510	1.522555501	1.326131392
48° 56′ 50″	0.75410493	0.65675395	1.148230530	0.870905253	1.522640256	1.326075397
48° 57′ 00″	0.75413677	0.65671739	1.148342937	0.870820003	1.522725025	1.326019411
48° 57′ 10″	0.75416861	0.65668083	1.148455356	0.870734761	1.522809806	1.325963432
48° 57′ 20″	0.75420045	0.65664426	1.148567789	0.870649525	1.522894601	1.325907461
48° 57′ 30″	0.75423228	0.65660770	1.148680233	0.870564297	1.522979408	1.325851498
48° 57′ 40″	0.75426411	0.65657113	1.148792690	0.870479076	1.523064229	1.325795543
48° 57′ 50″	0.75429594	0.65653456	1.148905160	0.870393863	1.523149063	1.325739596
48° 58′ 00″	0.75432777	0.65649799	1.149017642	0.870308656	1.523233909	1.325683656
48° 58′ 10″	0.75435960	0.65646142	1.149130137	0.870223457	1.523318769	1.325627725
48° 58′ 20″	0.75439143	0.65642485	1.149242644	0.870138264	1.523403642	1.325571801
48° 58′ 30″	0.75442325	0.65638827	1.149355164	0.870053079	1.523488527	1.325515885
48° 58′ 40″	0.75445507	0.65635169	1.149467697	0.869967902	1.523573426	1.325459977
48° 58′ 50″	0.75448689	0.65631512	1.149580241	0.869882731	1.523658338	1.325404076
48° 59′ 00″	0.75451871	0.65627854	1.149692799	0.869797568	1.523743263	1.325348184
48° 59′ 10″	0.75455052	0.65624196	1.149805369	0.869712411	1.523828201	1.325292299
48° 59′ 20″	0.75458234	0.65620537	1.149917951	0.869627262	1.523913152	1.325236422
48° 59′ 30″	0.75461415	0.65616879	1.150030547	0.869542120	1.523998116	1.325180553
48° 59′ 40″	0.75464596	0.65613220	1.150143154	0.869456986	1.524083093	1.325124692
48° 59′ 50″	0.75467777	0.65609562	1.150255774	0.869371858	1.524168083	1.325068839
49° 00′ 00″	0.75470958	0.65605903	1.150368407	0.869286738	1.524253087	1.325012993
49° 00′ 10″	0.75474139	0.65602244	1.150481053	0.869201625	1.524338103	1.324957156
49° 00′ 20″	0.75477319	0.65598585	1.150593710	0.869116519	1.524423132	1.324901326
49° 00′ 30″	0.75480499	0.65594925	1.150706381	0.869031420	1.524508175	1.324845504
49° 00′ 40″	0.75483679	0.65591266	1.150819064	0.868946328	1.524593230	1.324789689
49° 00′ 50″	0.75486859	0.65587606	1.150931760	0.868861244	1.524678299	1.324733883
49° 01′ 00″	0.75490039	0.65583947	1.151044468	0.868776166	1.524763381	1.324678084
49° 01′ 10″	0.75493218	0.65580287	1.151157189	0.868691096	1.524848475	1.324622294
49° 01′ 20″	0.75496398	0.65576626	1.151269922	0.868606033	1.524933583	1.324566511
49° 01′ 30″	0.75499577	0.65572966	1.151382668	0.868520977	1.525018704	1.324510735
49° 01′ 40″	0.75502756	0.65569306	1.151495427	0.868435929	1.525103838	1.324454968
49° 01′ 50″	0.75505935	0.65565645	1.151608198	0.868350887	1.525188985	1.324399208
49° 02′ 00″	0.75509113	0.65561985	1.151720981	0.868265853	1.525274145	1.324343457
49° 02′ 10″	0.75512292	0.65558324	1.151833778	0.868180826	1.525359319	1.324287713
49° 02′ 20″	0.75515470	0.65554663	1.151946587	0.868095806	1.525444505	1.324231976
49° 02′ 30″	0.75518648	0.65551002	1.152059408	0.868010793	1.525529705	1.324176248
49° 02′ 40″	0.75521826	0.65547340	1.152172242	0.867925787	1.525614917	1.324120528
49° 02′ 50″	0.75525004	0.65543679	1.152285089	0.867840788	1.525700143	1.324064815
49° 03′ 00″	0.75528181	0.65540017	1.152397948	0.867755797	1.525785382	1.324009110
49° 03′ 10″ 49° 03′ 20″	0.75531359	0.65536355	1.152510820	0.867670813	1.525870634	1.323953413
49° 03′ 20″ 49° 03′ 30″	0.75534536	0.65532693	1.152623705	0.867585836	1.525955899	1.323897723
49° 03′ 30″ 49° 03′ 40″		0.65529031	1.152736602 1.152849512	0.867500866	1.526041177	1.323842042 1.323786368
49° 03′ 40″ 49° 03′ 50″	0.75540890	0.65525369 0.65521707	1.152849512	0.867415903 0.867330947	1.526126468 1.526211773	1.323786368
	0.73344000	0.03321707	1.132/02434	0.00/330/4/	1,320211//3	1.323/30/02

368 49° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
49° 04′ 00″	0.75547243	0.65518044	1.153075369	0.867245999	1.526297090	1.323675044
49° 04′ 10″	0.75550419	0.65514381	1.153188317	0.867161057	1.526382421	1.323619394
49° 04′ 20″	0.75553595	0.65510718	1.153301277	0.867076123	1.526467765	1.323563751
49° 04′ 30″	0.75556771	0.65507055	1.153414250	0.866991196	1.526553121	1.323508116
49° 04′ 40″	0.75559947	0.65503392	1.153527236	0.866906276	1.526638491	1.323452489
49° 04′ 50″	0.75563123	0.65499729	1.153640234	0.866821363	1.526723875	1.323396870
49° 05′ 00″	0.75566298	0.65496065	1.153753245	0.866736457	1.526809271	1.323341258
49° 05′ 10″	0.75569473	0.65492402	1.153866268	0.866651559	1.526894680	1.323285655
49° 05′ 20″	0.75572648	0.65488738	1.153979304	0.866566667	1.526980103	1.323230059
49° 05′ 30″	0.75575823	0.65485074	1.154092353	0.866481783	1.527065539	1.323174471
49° 05′ 40″	0.75578998	0.65481410	1.154205415	0.866396906	1.527150988	1.323118891
49° 05′ 50″	0.75582173	0.65477746	1.154318489	0.866312036	1.527236450	1.323063318
49° 06′ 00″	0.75585347	0.65474081	1.154431576	0.866227173	1.527321925	1.323007753
49° 06′ 10″	0.75588521	0.65470417	1.154544675	0.866142317	1.527407413	1.322952196
49° 06′ 20″	0.75591695	0.65466752	1.154657787	0.866057468	1.527492915	1.322896647
49° 06′ 30″	0.75594869	0.65463087	1.154770912	0.865972627	1.527578430	1.322841106
49° 06′ 40″	0.75598043	0.65459422	1.154884049	0.865887793	1.527663958	1.322785572
49° 06′ 50″	0.75601216	0.65455757	1.154997199	0.865802965	1.527749499	1.322730046
49° 07′ 00″	0.75604389	0.65452092	1.155110362	0.865718145	1.527835053	1.322674528
49° 07′ 10″	0.75607562	0.65448426	1.155223537	0.865633332	1.527920620	1.322619018
49° 07′ 20″	0.75610735	0.65444761	1.155336726	0.865548526	1.528006201	1.322563515
49° 07′ 30″	0.75613908	0.65441095	1.155449926	0.865463727	1.528091794	1.322508020
49° 07′ 40″	0.75617081	0.65437429	1.155563140	0.865378936	1.528177401	1.322452533
49° 07′ 50″	0.75620253	0.65433763	1.155676366	0.865294151	1.528263021	1.322397054
49° 08′ 00″	0.75623425	0.65430097	1.155789605	0.865209374	1.528348655	1.322341582
49° 08′ 10″	0.75626597	0.65426430	1.155902856	0.865124603	1.528434301	1.322286119
49° 08′ 20″	0.75629769	0.65422764	1.156016121	0.865039840	1.528519961	1.322230663
49° 08′ 30″	0.75632941	0.65419097	1.156129397	0.864955084	1.528605634	1.322175214
49° 08′ 40″	0.75636113	0.65415430	1.156242687	0.864870335	1.528691320	1.322119774
49° 08′ 50″	0.75639284	0.65411763	1.156355989	0.864785593	1.528777019	1.322064341
49° 09′ 00″	0.75642455	0.65408096	1.156469304	0.864700858	1.528862732	1.322008916
49° 09′ 10″	0.75645626	0.65404428	1.156582632	0.864616130	1.528948457	1.321953499
49° 09′ 20″	0.75648797	0.65400761	1.156695973	0.864531410	1.529034196	1.321898089
49° 09′ 30″	0.75651967	0.65397093	1.156809326	0.864446696	1.529119948	1.321842688
49° 09′ 40″	0.75655138	0.65393426	1.156922692	0.864361990	1.529205714	1.321787294
49° 09′ 50″	0.75658308	0.65389758	1.157036070	0.864277291	1.529291492	1.321731907
49° 10′ 00″	0.75661478	0.65386090	1.157149462	0.864192598	1.529377284	1.321676529
49° 10′ 10″	0.75664648	0.65382421	1.157262866	0.864107913	1.529463089	1.321621158
49° 10′ 20″	0.75667818	0.65378753	1.157376282	0.864023235	1.529548907	1.321565795
49° 10′ 30″	0.75670988	0.65375084	1.157489712	0.863938564	1.529634738	1.321510440
49° 10′ 40″	0.75674157	0.65371416	1.157603154	0.863853901	1.529720583	1.321455093
49° 10′ 50″	0.75677326	0.65367747	1.157716609	0.863769244	1.529806441	1.321399753
49° 11′ 00″	0.75680495	0.65364078	1.157830077	0.863684594	1.529892312	1.321344421
49° 11′ 10″	0.75683664	0.65360409	1.157943557	0.863599952	1.529978196	1.321289097
49° 11′ 20″	0.75686833	0.65356739	1.158057050	0.863515316	1.530064094	1.321233780
49° 11′ 30″	0.75690001	0.65353070	1.158170556	0.863430688	1.530150005	1.321178471
49° 11′ 40″	0.75693169	0.65349400	1.158284075	0.863346067	1.530235929	1.321123170
49° 11′ 50″	0.75696338	0.65345730	1.158397606	0.863261452	1.530321866	1.321067877

369 49° 11′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(\mathbf{x})$
49° 12′ 00″	0.75699506	0.65342060	1.158511150	0.863176845	1.530407817	1.321012591
49° 12′ 10″	0.75702673	0.65338390	1.158624707	0.863092245	1.530493781	1.320957313
49° 12′ 20″	0.75705841	0.65334720	1.158738277	0.863007652	1.530579758	1.320902043
49° 12′ 30″	0.75709008	0.65331050	1.158851859	0.862923066	1.530665748	1.320846781
49° 12′ 40″	0.75712176	0.65327379	1.158965455	0.862838488	1.530751752	1.320791526
49° 12′ 50″	0.75715343	0.65323708	1.159079063	0.862753916	1.530837769	1.320736279
49° 13′ 00″	0.75718510	0.65320038	1.159192683	0.862669351	1.530923799	1.320681040
49° 13′ 10″	0.75721676	0.65316367	1.159306317	0.862584794	1.531009842	1.320625808
49° 13′ 20″	0.75724843	0.65312695	1.159419963	0.862500243	1.531095899	1.320570585
49° 13′ 30″	0.75728009	0.65309024	1.159533622	0.862415700	1.531181969	1.320515369
49° 13′ 40″	0.75731175	0.65305353	1.159647294	0.862331163	1.531268052	1.320460160
49° 13′ 50″	0.75734341	0.65301681	1.159760979	0.862246634	1.531354148	1.320404960
49° 14′ 00″	0.75737507	0.65298009	1.159874676	0.862162112	1.531440258	1.320349767
49° 14′ 10″	0.75740673	0.65294337	1.159988386	0.862077596	1.531526381	1.320294582
49° 14′ 20″	0.75743838	0.65290665	1.160102109	0.861993088	1.531612518	1.320239404
49° 14′ 30″	0.75747004	0.65286993	1.160215845	0.861908587	1.531698667	1.320184234
49° 14′ 40″	0.75750169	0.65283320	1.160329594	0.861824093	1.531784830	1.320129072
49° 14′ 50″	0.75753334	0.65279648	1.160443355	0.861739606	1.531871006	1.320073918
49° 15′ 00″	0.75756498	0.65275975	1.160557129	0.861655127	1.531957196	1.320018771
49° 15′ 10″	0.75759663	0.65272302	1.160670916	0.861570654	1.532043399	1.319963633
49° 15′ 20″	0.75762827	0.65268629	1.160784716	0.861486188	1.532129615	1.319908501
49° 15′ 30″	0.75765992	0.65264956	1.160898529	0.861401729	1.532215844	1.319853378
49° 15′ 40″	0.75769156	0.65261283	1.161012354	0.861317278	1.532302087	1.319798262
49° 15′ 50″	0.75772320	0.65257609	1.161126192	0.861232833	1.532388343	1.319743154
49° 16′ 00″	0.75775483	0.65253936	1.161240043	0.861148395	1.532474613	1.319688054
49° 16′ 10″	0.75778647	0.65250262	1.161353907	0.861063965	1.532560895	1.319632961
49° 16′ 20″	0.75781810	0.65246588	1.161467784	0.860979542	1.532647191	1.319577876
49° 16′ 30″	0.75784973	0.65242914	1.161581673	0.860895125	1.532733501	1.319522799
49° 16′ 40″	0.75788136	0.65239240	1.161695576	0.860810716	1.532819823	1.319467729
49° 16′ 50″	0.75791299	0.65235565	1.161809491	0.860726314	1.532906159	1.319412667
49° 17′ 00″	0.75794462	0.65231891	1.161923419	0.860641918	1.532992508	1.319357613
49° 17′ 10″	0.75797624	0.65228216	1.162037360	0.860557530	1.533078871	1.319302567
49° 17′ 20″	0.75800786	0.65224541	1.162151313	0.860473149	1.533165247	1.319247528
49° 17′ 30″	0.75803948	0.65220866	1.162265280	0.860388775	1.533251636	1.319192497
49° 17′ 40″	0.75807110	0.65217191	1.162379259	0.860304408	1.533338039	1.319137473
49° 17′ 50″	0.75810272	0.65213516	1.162493251	0.860220048	1.533424455	1.319082458
49° 18′ 00″	0.75813434	0.65209840	1.162607256	0.860135695	1.533510884	1.319027450
49° 18′ 10″	0.75816595	0.65206165	1.162721274	0.860051349	1.533597327	1.318972449
49° 18′ 20″ 49° 18′ 30″	0.75819756	0.65202489	1.162835305	0.859967010	1.533683783	1.318917457
	0.75822917	0.65198813	1.162949349	0.859882678	1.533770253	1.318862472
49° 18′ 40″	0.75826078	0.65195137	1.163063405	0.859798353	1.533856735	1.318807494
49° 18′ 50″ 49° 19′ 00″	0.75829239	0.65191461 0.65187784	1.163177475	0.859714035 0.859629724	1.533943231 1.534029741	1.318752525 1.318697563
49° 19′ 00″ 49° 19′ 10″	0.75832399 0.75835559	0.65187784	1.163291557 1.163405652	0.859629724	1.534029741	1.318697563
49° 19′ 10″ 49° 19′ 20″	0.75838720	0.65180431	1.163403632	0.859461124	1.534116264	1.318587662
49° 19′ 30″	0.75841880	0.65176754	1.163519760	0.859376834	1.534202800	1.318532723
49° 19′ 40″	0.75845039	0.65176734	1.163748014	0.859292551	1.534267530	1.318477792
49° 19′ 50″	0.75848199	0.65173077	1.163746014	0.859208275	1.534373712	1.318422869
-17 17 30	0.730±0177	3.03107400	1.103002101	0.03/2002/3	1,001102707	1.310 (2200/

370 49° 19′ 50″

49° 20′ 10″ 0.75854518 0.65162045 1.164090493 0.859039745 1.534633682 1.318313045 49° 20′ 30″ 0.75860836 0.65154690 1.164318876 0.858871243 1.534822288 1.318203251 49° 20′ 40″ 0.75860836 0.65151490 1.164318876 0.858870202 1.534898228 1.318148366 49° 20′ 50″ 0.75867133 0.65143656 1.164661548 0.858618542 1.535068898 1.3180938619 49° 21′ 10″ 0.75873469 0.6513629 1.16490060 0.8586483122 1.53515588 1.317928902 49° 21′ 20″ 0.7587667 0.6513629 1.16490060 0.858450110 1.535242278 1.317928902 49° 21′ 30″ 0.7588610 0.65132620 1.165004336 0.858365904 1.535524498 1.317764385 49° 21′ 0″ 0.75886100 0.65125262 1.1653047240 0.858113330 1.53552499 1.317764385 49° 21′ 0″ 0.75886557 0.65112583 1.165304524 0.85802152 1.535675967 1.53552499 1.317764385 49° 21′ 0″							
49° 20′ 20″ 0.75857677 0.65153668 1.164204678 0.858955490 1.534722298 1.318258144 49° 20′ 40″ 0.75863984 0.65154690 1.164318876 0.858871023 1.534895271 1.318203251 49° 20′ 50″ 0.75863994 0.65113656 1.164647311 0.858702768 1.534982228 1.3181083689 49° 21′ 00″ 0.75876315 0.65143656 1.164647311 0.858702768 1.535068898 1.318083489 49° 21′ 10″ 0.75873469 0.65136299 1.164661548 0.85861542 1.535068898 1.318083489 49° 21′ 20″ 0.75876785 0.65136299 1.164890060 0.85845010 1.535242278 1.317787505 49° 21′ 50″ 0.758882943 0.65125262 1.165232926 0.8588281706 1.5355242278 1.31779561 49° 21′ 10″ 0.758882193 0.65112562 1.165347240 0.85881013 1.5355589199 1.317709561 49° 21′ 10″ 0.75889257 0.65112562 1.165472670 0.858829152 1.53602991 1.33869216 49° 21′ 10″ 0.75898728 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
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49° 20′ 40″ 0.75863994 0.65151012 1.164433087 0.858787002 1.534895571 1.318148366 49° 20′ 50″ 0.75867131 0.65147334 1.164547311 0.858702768 1.534982228 1.318038619 49° 21′ 10″ 0.75873031 0.65139977 1.164775798 0.858534322 1.535155581 1.317983757 49° 21′ 20″ 0.75876627 0.65136299 1.164890060 0.858450110 1.535242278 1.317983757 49° 21′ 30″ 0.758879785 0.65132620 1.165004336 0.8583859010 1.5355242278 1.3178795216 49° 21′ 50″ 0.75886100 0.65125262 1.165318624 0.858281706 1.53552494 1.317799561 49° 22′ 00″ 0.75889257 0.65112534 1.165461567 0.858029152 1.535675963 1.317654745 49° 22′ 20″ 0.75898721 0.65114225 1.165461567 0.858029152 1.535675963 1.317594745 49° 21′ 30″ 0.75898728 0.65110455 1.165804260 0.857766816 1.535936355 1.317490342 49° 22′ 30″ 0.759898728		0.75857677	0.65158368	1.164204678	0.858955490	1.534722298	
49° 20′ 50″ 0.75867153 0.65147345 1.164547311 0.858702768 1.534982228 1.318093489 49° 21′ 10″ 0.75873469 0.651343656 1.164661548 0.858618542 1.535068898 1.318038619 49° 21′ 20″ 0.75873469 0.65136299 1.164890060 0.858450110 1.535242278 1.317928902 49° 21′ 30″ 0.75879785 0.65136299 1.164801336 0.8583450110 1.535242278 1.3177928902 49° 21′ 40″ 0.75889243 0.65125262 1.16504336 0.8583450110 1.535242278 1.3177928902 49° 21′ 50″ 0.75886100 0.65125262 1.165232926 0.858197514 1.535502449 1.317764385 49° 22′ 10″ 0.75889557 0.651114253 1.1655461567 0.8585029152 1.535675963 1.3177694764 49° 22′ 30″ 0.75898728 0.65110545 1.165690260 0.857860818 1.535849531 1.317769476 49° 23′ 0″ 0.75990541 0.65103185 1.165990260 0.857602512 1.536039583 1.317490342 49° 23′ 0″ 0.759918		0.75860836	0.65154690	1.164318876	0.858871243	1.534808928	1.318203251
49° 21′ 00″ 0.75870311 0.65143656 1.164661548 0.858618542 1.535068898 1.318038619 49° 21′ 10″ 0.75873469 0.65139977 1.164757978 0.85845011 1.535324227 1.317983757 49° 21′ 20″ 0.75876627 0.65132620 1.165004336 0.858365904 1.535328988 1.317874055 49° 21′ 40″ 0.758879785 0.65122841 1.165118624 0.858281706 1.535328988 1.317874055 49° 21′ 50″ 0.75886100 0.65122562 1.165232926 0.85813333 1.535589419 1.317764385 49° 22′ 10″ 0.75889217 0.65117904 1.16546167 0.8588029152 1.535675963 1.317764385 49° 22′ 30″ 0.75898728 0.65110655 1.65679260 0.85786818 1.535865594 1.317545135 49° 22′ 30″ 0.75901855 0.65106865 1.16584626 0.85776661 1.535936335 1.317490342 49° 23′ 00″ 0.7590185 0.65098825 1.166919005 0.857602434 1.536023153 1.317435556 49° 23′ 00″ 0.75914509		0.75863994	0.65151012	1.164433087	0.858787002	1.534895571	1.318148366
49° 21′ 10″ 0.75873469 0.65139977 1.164775798 0.858534322 1.535155581 1.317983757 49° 21′ 20″ 0.75876627 0.65136299 1.164890060 0.858450110 1.535242278 1.317728902 49° 21′ 40″ 0.75882943 0.65128941 1.165118624 0.858281706 1.5353415712 1.317819216 49° 21′ 50″ 0.75882943 0.65125262 1.165232926 0.858197514 1.535502449 1.317764385 49° 22′ 10″ 0.75882141 0.65117904 1.165461567 0.8588197514 1.535502449 1.317769365 49° 22′ 20″ 0.7588757 0.65114225 1.16554155907 0.858744981 1.535762740 1.31759936 49° 22′ 30″ 0.75897878 0.65110545 1.165690260 0.857860818 1.535762740 1.31759936 49° 22′ 30″ 0.75901885 0.65106865 1.165804626 0.857692512 1.536023153 1.317545135 49° 23′ 0″ 0.759911333 0.65092145 1.16637801 0.857692512 1.536023153 1.317380778 49° 23′ 0″ 0.75914509		0.75867153	0.65147334	1.164547311	0.858702768	1.534982228	1.318093489
49° 21′ 20″ 0.75876627 0.65136299 1.16489060 0.858450110 1.535242278 1.317928902 49° 21′ 30″ 0.75879785 0.65132620 1.165004336 0.858365904 1.535328988 1.317874055 49° 21′ 50″ 0.75882943 0.65125262 1.165232926 0.85817361 1.535502449 1.317764385 49° 22′ 00″ 0.7588257 0.65121583 1.165341240 0.858113330 1.535589199 1.317709561 49° 22′ 10″ 0.75887571 0.651117904 1.165461567 0.858029152 1.535762740 1.317599936 49° 22′ 30″ 0.75898728 0.65110545 1.165690260 0.857860818 1.535762740 1.317599936 49° 22′ 40″ 0.75901885 0.65108665 1.165804626 0.85776661 1.535936335 1.317490342 49° 23′ 00″ 0.75908197 0.65095825 1.166033397 0.857692512 1.536023153 1.317380778 49° 23′ 00″ 0.75913353 0.65095825 1.166236650 0.85735894 1.533610988 1.3173216491 49° 23′ 00″ 0.75923976	49° 21′ 00″	0.75870311	0.65143656	1.164661548	0.858618542	1.535068898	1.318038619
49° 21′ 30″ 0.75879785 0.65132620 1.16504336 0.858365904 1.535328988 1.317874055 49° 21′ 40″ 0.75882943 0.65128941 1.165118624 0.858181706 1.535515212 1.317819216 49° 21′ 50″ 0.75886100 0.65125262 2.16523220 0.858113330 1.535502449 1.317769561 49° 22′ 10″ 0.7588257 0.65117904 1.165461567 0.85813330 1.5355762740 1.317769561 49° 22′ 20″ 0.75898571 0.65114225 1.165590260 0.857860818 1.535762740 1.317599736 49° 22′ 30″ 0.75898728 0.65110545 1.165690260 0.857860818 1.535762740 1.317599736 49° 22′ 50″ 0.75991885 0.65106865 1.165804626 0.85776661 1.535936335 1.317490342 49° 23′ 00″ 0.75991897 0.65099505 1.166347801 0.857504369 1.536023153 1.317490342 49° 23′ 00″ 0.75914509 0.65098145 1.166262219 0.85740105 1.536023153 1.31721245 49° 23′ 00″ 0.7591353	49° 21′ 10″	0.75873469	0.65139977	1.164775798	0.858534322	1.535155581	1.317983757
49° 21′ 40″ 0.75882943 0.65128941 1.165118624 0.858281706 1.535415712 1.317819216 49° 21′ 50″ 0.75886100 0.6512562 1.165232926 0.858197514 1.535502449 1.317769561 49° 22′ 10″ 0.7589257 0.651121583 1.1654745 0.858113330 1.535567963 1.317654745 49° 22′ 20″ 0.75892414 0.65117904 1.165461567 0.858029152 1.535679563 1.31759936 49° 22′ 30″ 0.75898728 0.651104545 1.165690260 0.857860818 1.535762740 1.31759936 49° 22′ 40″ 0.75901885 0.65104865 1.165690260 0.857776661 1.53589531 1.317545135 49° 23′ 00″ 0.75901897 0.65093855 1.166033397 0.857692512 1.536023153 1.317490342 49° 23′ 10″ 0.75914509 0.65092145 1.166633497 0.85768369 1.53610988 1.317271245 49° 23′ 20″ 0.75920820 0.6508464 1.166376650 0.85718762 1.53645344 1.31716743 49° 23′ 50″ 0.75993976 <	49° 21′ 20″	0.75876627	0.65136299	1.164890060	0.858450110	1.535242278	1.317928902
49° 21′ 50″ 0.75886100 0.65125262 1.165232926 0.858197514 1.535502449 1.317764385 49° 22′ 00″ 0.75889257 0.65121583 1.165347240 0.858113330 1.535589199 1.317709561 49° 22′ 20″ 0.75895571 0.65114225 1.165670260 0.8587944981 1.535762740 1.317599736 49° 22′ 30″ 0.75898728 0.65110545 1.165690260 0.8577860818 1.535762740 1.317599736 49° 22′ 40″ 0.75901885 0.65103185 1.165979005 0.857776661 1.535936335 1.317490342 49° 23′ 00″ 0.75908197 0.65099505 1.166979005 0.857608369 1.536109984 1.317380778 49° 23′ 20″ 0.75914509 0.65095825 1.166147801 0.857524234 1.536196828 1.317326008 49° 23′ 30″ 0.75914509 0.6508484 1.166262219 0.85735984 1.536457442 1.317161743 49° 23′ 40″ 0.75923976 0.65081103 1.166605550 0.857187762 1.5366457442 1.317107004 49° 24′ 00″ 0.75923134 <th>49° 21′ 30″</th> <th>0.75879785</th> <th>0.65132620</th> <th>1.165004336</th> <th>0.858365904</th> <th>1.535328988</th> <th>1.317874055</th>	49° 21′ 30″	0.75879785	0.65132620	1.165004336	0.858365904	1.535328988	1.317874055
49° 22′ 00″ 0.75889257 0.65121583 1.165347240 0.858113330 1.535589199 1.317709561 49° 22′ 10″ 0.75892414 0.65117904 1.165461567 0.858029152 1.535675963 1.317654745 49° 22′ 30″ 0.758987571 0.65114225 1.165575907 0.857860818 1.535762740 1.317599736 49° 22′ 40″ 0.75901885 0.65106865 1.165804626 0.857776661 1.535936335 1.317490342 49° 23′ 00″ 0.75908197 0.65099505 1.166033397 0.857692512 1.536023153 1.31743556 49° 23′ 00″ 0.75914509 0.6509505 1.166147801 0.857524234 1.536196828 1.31721045 49° 23′ 30″ 0.75917665 0.65084784 1.166262219 0.857440105 1.536283666 1.31721145 49° 23′ 50″ 0.75920820 0.65084784 1.166376650 0.857355984 1.53674354 1.317161743 49° 24′ 00″ 0.7592376 0.6508103 1.166720019 0.857035481 1.53674354 1.311707004 49° 24′ 00″ 0.75933440	49° 21′ 40″	0.75882943	0.65128941	1.165118624	0.858281706	1.535415712	1.317819216
49° 22′ 10″ 0.75892414 0.65117904 1.165361567 0.858029152 1.535675963 1.317654745 49° 22′ 20″ 0.75895571 0.65114225 1.165575907 0.8577844881 1.535762740 1.317599936 49° 22′ 40″ 0.75898728 0.65110545 1.165690260 0.8577860818 1.535849531 1.317549342 49° 22′ 50″ 0.75901885 0.6510385 1.165919005 0.857776661 1.535936335 1.317435556 49° 23′ 00″ 0.75908197 0.65095852 1.166147801 0.857524234 1.536109984 1.317380778 49° 23′ 20″ 0.75911353 0.65095825 1.166147801 0.857524234 1.536109984 1.317326008 49° 23′ 30″ 0.759114509 0.65092145 1.166262219 0.857440105 1.536823668 1.31721245 49° 23′ 50″ 0.75920820 0.65081484 1.16637650 0.857355984 1.53674424 1.317107004 49° 24′ 00″ 0.75923976 0.65081103 1.16669550 0.857187762 1.536718177 1.316972544 49° 24′ 10″ 0.75933440	49° 21′ 50″	0.75886100	0.65125262	1.165232926	0.858197514	1.535502449	1.317764385
49° 22′ 20″ 0.75898571 0.65114225 1.165575907 0.857944981 1.535762740 1.317599936 49° 22′ 30″ 0.75898728 0.65110545 1.165690260 0.857860818 1.535849531 1.317545135 49° 22′ 50″ 0.75901885 0.6510385 1.165804626 0.857776661 1.53593335 1.317490342 49° 23′ 00″ 0.75908197 0.65093505 1.166333397 0.857692512 1.536023153 1.317326008 49° 23′ 20″ 0.75911353 0.65095505 1.166376650 0.857692512 1.536196828 1.317326008 49° 23′ 20″ 0.75917665 0.6508464 1.166376650 0.857355984 1.536196828 1.31721245 49° 23′ 40″ 0.75920820 0.6508464 1.16627650 0.85737584 1.536457442 1.317161743 49° 24′ 00″ 0.75923976 0.65081103 1.166695550 0.85718766 1.536631252 1.31707004 49° 24′ 20″ 0.75930286 0.6507422 1.166720019 0.857019567 1.536718177 1.316997547 49° 24′ 30″ 0.759330440	49° 22′ 00″	0.75889257	0.65121583	1.165347240	0.858113330	1.535589199	1.317709561
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49° 27′ 10″ 0.75987044 0.65007454 1.168897403 0.855507077 1.538285129 1.316013814							
49° 27′ 20′′ 0./5990196 0.65003//0 1.169012132 0.855423116 1.538372310 1.315959235							
49° 27′ 30″ 0.75993347 0.65000086 1.169126874 0.855339162 1.538459504 1.315904663							
49° 27′ 40″ 0.75996498 0.64996402 1.169241629 0.855255215 1.538546712 1.315850099							
49° 27′ 50″ 0.75999649 0.64992717 1.169356397 0.855171274 1.538633934 1.315795542	49° 27′ 50″	U./5999649	0.64992/1/	1.16935639/	0.8551/12/4	1.538633934	1.315/95542

371 49° 27′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
49° 28′ 00″	0.76002800	0.64989032	1.169471178	0.855087341	1.538721169	1.315740993
49° 28′ 10″	0.76005951	0.64985348	1.169585972	0.855003415	1.538808417	1.315686452
49° 28′ 20″	0.76009101	0.64981663	1.169700779	0.854919496	1.538895679	1.315631918
49° 28′ 30″	0.76012252	0.64977978	1.169815599	0.854835583	1.538982955	1.315577392
49° 28′ 40″	0.76015402	0.64974292	1.169930432	0.854751678	1.539070244	1.315522874
49° 28′ 50″	0.76018552	0.64970607	1.170045278	0.854667780	1.539157547	1.315468363
49° 29′ 00″	0.76021702	0.64966921	1.170160137	0.854583888	1.539244863	1.315413860
49° 29′ 10″	0.76024851	0.64963236	1.170275010	0.854500004	1.539332192	1.315359364
49° 29′ 20″	0.76028001	0.64959550	1.170389895	0.854416126	1.539419535	1.315304876
49° 29′ 30″	0.76031150	0.64955864	1.170504793	0.854332256	1.539506892	1.315250396
49° 29′ 40″	0.76034299	0.64952178	1.170619704	0.854248392	1.539594262	1.315195923
49° 29′ 50″	0.76037448	0.64948491	1.170734629	0.854164535	1.539681646	1.315141457
49° 30′ 00″	0.76040597	0.64944805	1.170849566	0.854080685	1.539769043	1.315087000
49° 30′ 10″	0.76043745	0.64941118	1.170964517	0.853996843	1.539856454	1.315032550
49° 30′ 20″	0.76046893	0.64937431	1.171079480	0.853913007	1.539943878	1.314978107
49° 30′ 30″	0.76050042	0.64933744	1.171194457	0.853829178	1.540031316	1.314923673
49° 30′ 40″	0.76053190	0.64930057	1.171309446	0.853745356	1.540118768	1.314869245
49° 30′ 50″	0.76056337	0.64926370	1.171424449	0.853661541	1.540206233	1.314814826
49° 31′ 00″	0.76059485	0.64922683	1.171539465	0.853577733	1.540293711	1.314760414
49° 31′ 10″	0.76062632	0.64918995	1.171654493	0.853493932	1.540381203	1.314706009
49° 31′ 20″	0.76065780	0.64915308	1.171769535	0.853410137	1.540468709	1.314651613
49° 31′ 30″	0.76068927	0.64911620	1.171884590	0.853326350	1.540556228	1.314597223
49° 31′ 40″	0.76072074	0.64907932	1.171999658	0.853242570	1.540643761	1.314542842
49° 31′ 50″	0.76075220	0.64904244	1.172114739	0.853158796	1.540731308	1.314488468
49° 32′ 00″	0.76078367	0.64900555	1.172229834	0.853075030	1.540818868	1.314434101
49° 32′ 10″	0.76081513	0.64896867	1.172344941	0.852991270	1.540906441	1.314379742
49° 32′ 20″	0.76084660	0.64893178	1.172460061	0.852907517	1.540994028	1.314325391
49° 32′ 30″	0.76087806	0.64889489	1.172575195	0.852823772	1.541081629	1.314271047
49° 32′ 40″	0.76090951	0.64885800	1.172690341	0.852740033	1.541169243	1.314216711
49° 32′ 50″	0.76094097	0.64882111	1.172805501	0.852656301	1.541256871	1.314162382
49° 33′ 00″	0.76097243	0.64878422	1.172920674	0.852572576	1.541344513	1.314108061
49° 33′ 10″	0.76100388	0.64874733	1.173035859	0.852488858	1.541432168	1.314053748
49° 33′ 20″	0.76103533	0.64871043	1.173151058	0.852405147	1.541519836	1.313999442
49° 33′ 30″ 49° 33′ 40″	0.76106678	0.64867354	1.173266270	0.852321443	1.541607518	1.313945144
49° 33′ 40″ 49° 33′ 50″	0.76109823	0.64863664	1.173381495	0.852237745	1.541695214	1.313890853
49° 34′ 00″	0.76112967	0.64859974	1.173496734	0.852154055	1.541782924	1.313836570
49° 34′ 00″ 49° 34′ 10″	0.76116112	0.64856284	1.173611985	0.852070371	1.541870647	1.313782295
49° 34′ 10″ 49° 34′ 20″	0.76119256	0.64852593	1.173727249	0.851986695	1.541958383	1.313728027
49° 34′ 20″ 49° 34′ 30″	0.76122400	0.64848903	1.173842527	0.851903025	1.542046134	1.313673766
49° 34′ 30″ 49° 34′ 40″	0.76125544 0.76128688	0.64845212	1.173957818 1.174073122	0.851819363 0.851735707	1.542133898 1.542221675	1.313619514
49° 34′ 40″ 49° 34′ 50″	0.76128688	0.64841522		0.851/35/0/		1.313565268
49° 35′ 00″		0.64837831	1.174188439	0.851568416	1.542309466	1.313511031 1.313456801
49° 35′ 00″ 49° 35′ 10″	0.76134974	0.64834140	1.174303769 1.174419112		1.542397271	1.313436801
49° 35′ 10″ 49° 35′ 20″	0.76138118	0.64830448	1.174419112	0.851484781	1.542485089	
49° 35′ 20″ 49° 35′ 30″		0.64826757		0.851401153	1.542572921 1.542660767	1.313348363 1.313294156
49° 35′ 30″ 49° 35′ 40″	0.76144403	0.64823066	1.174649838 1.174765220	0.851317531		
49° 35′ 40″ 49° 35′ 50″	0.76147546	0.64819374 0.64815682	1.174765220	0.851233917 0.851150309	1.542748626 1.542836499	1.313239956 1.313185763
	0.70130000	0.04013002	1.174000010	0.031130307	1.342030477	1,313103/03

372 49° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
49° 36′ 00″	0.76153831	0.64811990	1.174996025	0.851066709	1.542924385	1.313131579
49° 36′ 10″	0.76156973	0.64808298	1.175111447	0.850983115	1.543012286	1.313077401
49° 36′ 20″	0.76160115	0.64804606	1.175226882	0.850899528	1.543100199	1.313023232
49° 36′ 30″	0.76163256	0.64800913	1.175342331	0.850815949	1.543188127	1.312969070
49° 36′ 40″	0.76166398	0.64797221	1.175457792	0.850732376	1.543276068	1.312914915
49° 36′ 50″	0.76169539	0.64793528	1.175573267	0.850648809	1.543364023	1.312860768
49° 37′ 00″	0.76172681	0.64789835	1.175688755	0.850565250	1.543451991	1.312806629
49° 37′ 10″	0.76175822	0.64786142	1.175804256	0.850481698	1.543539973	1.312752497
49° 37′ 20″	0.76178962	0.64782449	1.175919770	0.850398152	1.543627969	1.312698373
49° 37′ 30″	0.76182103	0.64778756	1.176035298	0.850314614	1.543715978	1.312644256
49° 37′ 40″	0.76185244	0.64775062	1.176150838	0.850231082	1.543804001	1.312590147
49° 37′ 50″	0.76188384	0.64771368	1.176266392	0.850147558	1.543892038	1.312536045
49° 38′ 00″	0.76191524	0.64767675	1.176381959	0.850064040	1.543980088	1.312481951
49° 38′ 10″	0.76194664	0.64763981	1.176497539	0.849980529	1.544068152	1.312427864
49° 38′ 20″	0.76197804	0.64760287	1.176613132	0.849897025	1.544156230	1.312373785
49° 38′ 30″	0.76200943	0.64756592	1.176728739	0.849813527	1.544244321	1.312319714
49° 38′ 40″	0.76204083	0.64752898	1.176844358	0.849730037	1.544332426	1.312265650
49° 38′ 50″	0.76207222	0.64749203	1.176959991	0.849646554	1.544420545	1.312211593
49° 39′ 00″	0.76210361	0.64745509	1.177075637	0.849563077	1.544508678	1.312157545
49° 39′ 10″	0.76213500	0.64741814	1.177191296	0.849479607	1.544596824	1.312103503
49° 39′ 20″	0.76216638	0.64738119	1.177306969	0.849396144	1.544684984	1.312049469
49° 39′ 30″	0.76219777	0.64734424	1.177422654	0.849312688	1.544773157	1.311995443
49° 39′ 40″	0.76222915	0.64730728	1.177538353	0.849229239	1.544861344	1.311941424
49° 39′ 50″	0.76226053	0.64727033	1.177654065	0.849145797	1.544949545	1.311887413
49° 40′ 00″	0.76229191	0.64723337	1.177769791	0.849062362	1.545037760	1.311833409
49° 40′ 10″	0.76232329	0.64719641	1.177885529	0.848978933	1.545125988	1.311779413
49° 40′ 20″	0.76235467	0.64715946	1.178001281	0.848895512	1.545214230	1.311725425
49° 40′ 30″	0.76238604	0.64712249	1.178117046	0.848812097	1.545302486	1.311671444
49° 40′ 40″	0.76241741	0.64708553	1.178232824	0.848728689	1.545390756	1.311617470
49° 40′ 50″	0.76244879	0.64704857	1.178348615	0.848645288	1.545479039	1.311563504
49° 41′ 00″	0.76248015	0.64701160	1.178464420	0.848561894	1.545567336	1.311509545
49° 41′ 10″	0.76251152	0.64697464	1.178580238	0.848478506	1.545655646	1.311455594
49° 41′ 20″	0.76254289	0.64693767	1.178696069	0.848395126	1.545743971	1.311401651
49° 41′ 30″	0.76257425	0.64690070	1.178811913	0.848311752	1.545832309	1.311347715
49° 41′ 40″	0.76260561	0.64686373	1.178927771	0.848228386	1.545920661	1.311293786
49° 41′ 50″	0.76263697	0.64682675	1.179043642	0.848145026	1.546009026	1.311239866
49° 42′ 00″	0.76266833	0.64678978	1.179159526	0.848061673	1.546097405	1.311185952
49° 42′ 10″	0.76269969	0.64675280	1.179275423	0.847978327	1.546185799	1.311132046
49° 42′ 20″	0.76273104	0.64671583	1.179391334	0.847894987	1.546274205	1.311078148
49° 42′ 30″	0.76276239	0.64667885	1.179507258	0.847811655	1.546362626	1.311024257
49° 42′ 40″	0.76279374	0.64664187	1.179623195	0.847728329	1.546451060	1.310970374
49° 42′ 50″	0.76282509	0.64660488	1.179739145	0.847645011	1.546539508	1.310916498
49° 43′ 00″	0.76285644	0.64656790	1.179855109	0.847561699	1.546627970	1.310862629
49° 43′ 10″	0.76288779	0.64653092	1.179971085	0.847478394	1.546716445	1.310808769
49° 43′ 20″	0.76291913	0.64649393	1.180087076	0.847395095	1.546804935	1.310754915
49° 43′ 30″	0.76295047	0.64645694	1.180203079	0.847311804	1.546893438	1.310701069
49° 43′ 40″ 49° 43′ 50″	0.76298181	0.64641995	1.180319096	0.847228519	1.546981955	1.310647231
47 45 50"	0.76301315	0.64638296	1.180435126	0.847145242	1.547070485	1.310593400

373 49° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
49° 44′ 00″	0.76304449	0.64634597	1.180551169	0.847061971	1.547159030	1.310539577
49° 44′ 10″	0.76307582	0.64630897	1.180667226	0.846978707	1.547247588	1.310485761
49° 44′ 20″	0.76310716	0.64627198	1.180783295	0.846895450	1.547336160	1.310431953
49° 44′ 30″	0.76313849	0.64623498	1.180899378	0.846812199	1.547424745	1.310378152
49° 44′ 40″	0.76316982	0.64619798	1.181015475	0.846728956	1.547513345	1.310324359
49° 44′ 50″	0.76320114	0.64616098	1.181131585	0.846645719	1.547601958	1.310270573
49° 45′ 00″	0.76323247	0.64612398	1.181247708	0.846562489	1.547690585	1.310216794
49° 45′ 10″	0.76326379	0.64608698	1.181363844	0.846479266	1.547779226	1.310163024
49° 45′ 20″	0.76329512	0.64604997	1.181479994	0.846396050	1.547867880	1.310109260
49° 45′ 30″	0.76332644	0.64601297	1.181596156	0.846312841	1.547956549	1.310055504
49° 45′ 40″	0.76335776	0.64597596	1.181712333	0.846229638	1.548045231	1.310001756
49° 45′ 50″	0.76338907	0.64593895	1.181828522	0.846146443	1.548133927	1.309948015
49° 46′ 00″	0.76342039	0.64590194	1.181944725	0.846063254	1.548222637	1.309894282
49° 46′ 10″	0.76345170	0.64586492	1.182060941	0.845980072	1.548311360	1.309840556
49° 46′ 20″	0.76348301	0.64582791	1.182177171	0.845896897	1.548400098	1.309786838
49° 46′ 30″	0.76351432	0.64579090	1.182293414	0.845813728	1.548488849	1.309733127
49° 46′ 40″	0.76354563	0.64575388	1.182409670	0.845730567	1.548577614	1.309679423
49° 46′ 50″	0.76357694	0.64571686	1.182525939	0.845647412	1.548666393	1.309625727
49° 47′ 00″	0.76360824	0.64567984	1.182642222	0.845564264	1.548755186	1.309572039
49° 47′ 10″	0.76363954	0.64564282	1.182758518	0.845481123	1.548843992	1.309518358
49° 47′ 20″	0.76367084	0.64560580	1.182874828	0.845397989	1.548932813	1.309464684
49° 47′ 30″	0.76370214	0.64556877	1.182991150	0.845314861	1.549021647	1.309411018
49° 47′ 40″	0.76373344	0.64553174	1.183107487	0.845231740	1.549110495	1.309357360
49° 47′ 50″	0.76376474	0.64549472	1.183223836	0.845148627	1.549199357	1.309303708
49° 48′ 00″	0.76379603	0.64545769	1.183340199	0.845065519	1.549288232	1.309250065
49° 48′ 10″	0.76382732	0.64542066	1.183456575	0.844982419	1.549377122	1.309196429
49° 48′ 20″	0.76385861	0.64538362	1.183572965	0.844899326	1.549466025	1.309142800
49° 48′ 30″	0.76388990	0.64534659	1.183689368	0.844816239	1.549554942	1.309089179
49° 48′ 40″	0.76392118	0.64530956	1.183805784	0.844733159	1.549643873	1.309035565
49° 48′ 50″	0.76395247	0.64527252	1.183922214	0.844650086	1.549732818	1.308981959
49° 49′ 00″	0.76398375	0.64523548	1.184038657	0.844567020	1.549821777	1.308928360
49° 49′ 10″	0.76401503	0.64519844	1.184155113	0.844483961	1.549910750	1.308874769
49° 49′ 20″	0.76404631	0.64516140	1.184271583	0.844400908	1.549999736	1.308821185
49° 49′ 30″	0.76407759	0.64512436	1.184388066	0.844317862	1.550088736	1.308767608
49° 49′ 40″	0.76410887	0.64508731	1.184504562	0.844234823	1.550177751	1.308714039
49° 49′ 50″	0.76414014	0.64505027	1.184621072	0.844151791	1.550266779	1.308660478
49° 50′ 00″	0.76417141	0.64501322	1.184737596	0.844068766	1.550355821	1.308606924
49° 50′ 10″	0.76420268	0.64497617	1.184854132	0.843985747	1.550444876	1.308553377
49° 50′ 20″	0.76423395	0.64493912	1.184970682	0.843902735	1.550533946	1.308499838
49° 50′ 30″	0.76426522	0.64490207	1.185087246	0.843819730	1.550623030	1.308446307
49° 50′ 40″	0.76429648	0.64486502	1.185203823	0.843736732	1.550712127	1.308392782
49° 50′ 50″	0.76432774	0.64482796	1.185320413	0.843653740	1.550801238	1.308339266
49° 51′ 00″	0.76435901	0.64479090	1.185437017	0.843570756	1.550890364	1.308285756
49° 51′ 10″ 49° 51′ 20″	0.76439027	0.64475385	1.185553634	0.843487778	1.550979503	1.308232254
49° 51′ 20″ 49° 51′ 30″	0.76442152	0.64471679	1.185670264 1.185786908	0.843404807 0.843321843	1.551068656	1.308178760
49° 51′ 40″	0.76445278	0.64467973	1.185786908	0.843321843	1.551157823	1.308125273
49° 51′ 40″ 49° 51′ 50″	0.76448403 0.76451529	0.64464266 0.64460560	1.185903565	0.843238885	1.551247003 1.551336198	1.308071794 1.308018322
4 / 31 30	0.70431327	0.04460360	1.100020236	0.043133734	1.331330170	1.300010344

374 49° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
49° 52′ 00″	0.76454654	0.64456853	1.186136920	0.843072990	1.551425407	1.307964857
49° 52′ 10″	0.76457778	0.64453147	1.186253617	0.842990053	1.551514629	1.307911400
49° 52′ 20″	0.76460903	0.64449440	1.186370328	0.842907123	1.551603866	1.307857950
49° 52′ 30″	0.76464028	0.64445733	1.186487053	0.842824199	1.551693116	1.307804508
49° 52′ 40″	0.76467152	0.64442026	1.186603791	0.842741282	1.551782380	1.307751073
49° 52′ 50″	0.76470276	0.64438318	1.186720542	0.842658372	1.551871658	1.307697646
49° 53′ 00″	0.76473400	0.64434611	1.186837306	0.842575469	1.551960951	1.307644226
49° 53′ 10″	0.76476524	0.64430903	1.186954085	0.842492572	1.552050257	1.307590813
49° 53′ 20″	0.76479647	0.64427196	1.187070876	0.842409683	1.552139577	1.307537408
49° 53′ 30″	0.76482771	0.64423488	1.187187681	0.842326800	1.552228910	1.307484010
49° 53′ 40″	0.76485894	0.64419780	1.187304500	0.842243923	1.552318258	1.307430620
49° 53′ 50″	0.76489017	0.64416071	1.187421331	0.842161054	1.552407620	1.307377237
49° 54′ 00″	0.76492140	0.64412363	1.187538177	0.842078191	1.552496996	1.307323862
49° 54′ 10″	0.76495263	0.64408654	1.187655036	0.841995335	1.552586385	1.307270494
49° 54′ 20″	0.76498385	0.64404946	1.187771908	0.841912486	1.552675789	1.307217134
49° 54′ 30″	0.76501508	0.64401237	1.187888794	0.841829644	1.552765206	1.307163781
49° 54′ 40″	0.76504630	0.64397528	1.188005693	0.841746808	1.552854638	1.307110435
49° 54′ 50″	0.76507752	0.64393819	1.188122605	0.841663979	1.552944083	1.307057097
49° 55′ 00″	0.76510874	0.64390110	1.188239532	0.841581157	1.553033543	1.307003766
49° 55′ 10″	0.76513995	0.64386400	1.188356471	0.841498342	1.553123016	1.306950443
49° 55′ 20″	0.76517117	0.64382691	1.188473424	0.841415533	1.553212503	1.306897127
49° 55′ 30″	0.76520238	0.64378981	1.188590391	0.841332731	1.553302004	1.306843818
49° 55′ 40″	0.76523359	0.64375271	1.188707371	0.841249936	1.553391520	1.306790517
49° 55′ 50″	0.76526480	0.64371561	1.188824364	0.841167148	1.553481049	1.306737223
49° 56′ 00″	0.76529601	0.64367851	1.188941371	0.841084366	1.553570592	1.306683937
49° 56′ 10″	0.76532721	0.64364140	1.189058392	0.841001592	1.553660149	1.306630658
49° 56′ 20″	0.76535842	0.64360430	1.189175426	0.840918824	1.553749720	1.306577387
49° 56′ 30″	0.76538962	0.64356719	1.189292473	0.840836062	1.553839305	1.306524123
49° 56′ 40″	0.76542082	0.64353009	1.189409534	0.840753308	1.553928904	1.306470866
49° 56′ 50″	0.76545202	0.64349298	1.189526609	0.840670560	1.554018517	1.306417617
49° 57′ 00″	0.76548321	0.64345586	1.189643697	0.840587819	1.554108144	1.306364375
49° 57′ 10″	0.76551441	0.64341875	1.189760798	0.840505084	1.554197786	1.306311141
49° 57′ 20″	0.76554560	0.64338164	1.189877913	0.840422357	1.554287441	1.306257914
49° 57′ 30″	0.76557679	0.64334452	1.189995042	0.840339636	1.554377110	1.306204694
49° 57′ 40″	0.76560798	0.64330741	1.190112184	0.840256922	1.554466793	1.306151482
49° 57′ 50″	0.76563917	0.64327029	1.190229339	0.840174214	1.554556490	1.306098278
49° 58′ 00″	0.76567035	0.64323317	1.190346508	0.840091514	1.554646201	1.306045080
49° 58′ 10″	0.76570154	0.64319605	1.190463691	0.840008820	1.554735926	1.305991890
49° 58′ 20″	0.76573272	0.64315892	1.190580887	0.839926133	1.554825665	1.305938708
49° 58′ 30″	0.76576390	0.64312180	1.190698096	0.839843452	1.554915418	1.305885533
49° 58′ 40″	0.76579508	0.64308467	1.190815320	0.839760779	1.555005185	1.305832365
49° 58′ 50″	0.76582626	0.64304754	1.190932556	0.839678112	1.555094966	1.305779205
49° 59′ 00″	0.76585743	0.64301042	1.191049807	0.839595451	1.555184761	1.305726052
49° 59′ 10″	0.76588860	0.64297329	1.191167070	0.839512798	1.555274570	1.305672906
49° 59′ 20″	0.76591978	0.64293615	1.191284348	0.839430151	1.555364394	1.305619768
49° 59′ 30″	0.76595095	0.64289902	1.191401639	0.839347511	1.555454231	1.305566637
49° 59′ 40″	0.76598211	0.64286188	1.191518943	0.839264878	1.555544082	1.305513514
49° 59′ 50″	0.76601328	0.64282475	1.191636261	0.839182251	1.555633948	1.305460398

375 49° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
50° 00′ 00″	0.76604444	0.64278761	1.191753593	0.839099631	1.555723827	1.305407289
50° 00′ 10″	0.76607561	0.64275047	1.191870938	0.839017018	1.555813720	1.305354188
50° 00′ 20″	0.76610677	0.64271333	1.191988296	0.838934412	1.555903628	1.305301094
50° 00′ 30″	0.76613792	0.64267619	1.192105669	0.838851812	1.555993549	1.305248008
50° 00′ 40″	0.76616908	0.64263904	1.192223054	0.838769219	1.556083485	1.305194929
50° 00′ 50″	0.76620024	0.64260190	1.192340454	0.838686633	1.556173434	1.305141857
50° 01′ 00″	0.76623139	0.64256475	1.192457867	0.838604053	1.556263398	1.305088793
50° 01′ 10″	0.76626254	0.64252760	1.192575293	0.838521480	1.556353376	1.305035736
50° 01′ 20″	0.76629369	0.64249045	1.192692733	0.838438914	1.556443367	1.304982687
50° 01′ 30″	0.76632484	0.64245330	1.192810187	0.838356355	1.556533373	1.304929645
50° 01′ 40″	0.76635599	0.64241615	1.192927654	0.838273802	1.556623393	1.304876610
50° 01′ 50″	0.76638713	0.64237899	1.193045135	0.838191256	1.556713427	1.304823582
50° 02′ 00″	0.76641827	0.64234183	1.193162630	0.838108716	1.556803475	1.304770562
50° 02′ 10″	0.76644941	0.64230468	1.193280138	0.838026184	1.556893537	1.304717550
50° 02′ 20″	0.76648055	0.64226752	1.193397659	0.837943658	1.556983614	1.304664545
50° 02′ 30″	0.76651169	0.64223036	1.193515194	0.837861139	1.557073704	1.304611547
50° 02′ 40″	0.76654282	0.64219319	1.193632743	0.837778626	1.557163808	1.304558556
50° 02′ 50″	0.76657396	0.64215603	1.193750306	0.837696121	1.557253927	1.304505573
50° 03′ 00″	0.76660509	0.64211887	1.193867882	0.837613621	1.557344059	1.304452597
50° 03′ 10″	0.76663622	0.64208170	1.193985471	0.837531129	1.557434206	1.304399629
50° 03′ 20″	0.76666735	0.64204453	1.194103075	0.837448643	1.557524367	1.304346668
50° 03′ 30″	0.76669847	0.64200736	1.194220692	0.837366164	1.557614542	1.304293714
50° 03′ 40″	0.76672960	0.64197019	1.194338322	0.837283692	1.557704731	1.304240768
50° 03′ 50″	0.76676072	0.64193302	1.194455966	0.837201227	1.557794934	1.304187829
50° 04′ 00″	0.76679184	0.64189584	1.194573624	0.837118768	1.557885151	1.304134898
50° 04′ 10″	0.76682296	0.64185867	1.194691295	0.837036315	1.557975382	1.304081973
50° 04′ 20″	0.76685408	0.64182149	1.194808980	0.836953870	1.558065628	1.304029057
50° 04′ 30″	0.76688519	0.64178431	1.194926679	0.836871431	1.558155887	1.303976147
50° 04′ 40″	0.76691631	0.64174713	1.195044391	0.836788999	1.558246161	1.303923245
50° 04′ 50″	0.76694742	0.64170995	1.195162117	0.836706574	1.558336449	1.303870350
50° 05′ 00″	0.76697853	0.64167276	1.195279857	0.836624155	1.558426750	1.303817463
50° 05′ 10″	0.76700964	0.64163558	1.195397610	0.836541743	1.558517066	1.303764583
50° 05′ 20″	0.76704074	0.64159839	1.195515377	0.836459337	1.558607397	1.303711710
50° 05′ 30″	0.76707185	0.64156120	1.195633158	0.836376939	1.558697741	1.303658845
50° 05′ 40″	0.76710295	0.64152401	1.195750952	0.836294547	1.558788099	1.303605987
50° 05′ 50″	0.76713405	0.64148682	1.195868760	0.836212161	1.558878472	1.303553136
50° 06′ 00″	0.76716515	0.64144963	1.195986581	0.836129783	1.558968859	1.303500293
50° 06′ 10″	0.76719625	0.64141244	1.196104416	0.836047411	1.559059260	1.303447457
50° 06′ 20″	0.76722734	0.64137524	1.196222265	0.835965045	1.559149675	1.303394628
50° 06′ 30″	0.76725844	0.64133805	1.196340128	0.835882687	1.559240104	1.303341807
50° 06′ 40″	0.76728953	0.64130085	1.196458004	0.835800335	1.559330547	1.303288993
50° 06′ 50″	0.76732062	0.64126365	1.196575894	0.835717989	1.559421005	1.303236186
50° 07′ 00″	0.76735171	0.64122645	1.196693797	0.835635651	1.559511476	1.303183387
50° 07′ 10″	0.76738280	0.64118924	1.196811714	0.835553319	1.559601962	1.303130595
50° 07′ 20″	0.76741388	0.64115204	1.196929645	0.835470994	1.559692462	1.303077811
50° 07′ 30″	0.76744496	0.64111483	1.197047590	0.835388675	1.559782976	1.303025034
50° 07′ 40″	0.76747605	0.64107762	1.197165548	0.835306363	1.559873504	1.302972264
50° 07′ 50″	0.76750712	0.64104041	1.197283520	0.835224058	1.559964047	1.302919501
	3.7 57 507 12	2.01101011	,, 203320	2.03322 1030	1.007701017	

376 50° 07′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
50° 08′ 00″	0.76753820	0.64100320	1.197401506	0.835141759	1.560054604	1.302866746
50° 08′ 10″	0.76756928	0.64096599	1.197519505	0.835059467	1.560145174	1.302813998
50° 08′ 20″	0.76760035	0.64092878	1.197637518	0.834977182	1.560235759	1.302761258
50° 08′ 30″	0.76763142	0.64089156	1.197755545	0.834894903	1.560326359	1.302708524
50° 08′ 40″	0.76766249	0.64085435	1.197873586	0.834812631	1.560416972	1.302655799
50° 08′ 50″	0.76769356	0.64081713	1.197991640	0.834730366	1.560507600	1.302603080
50° 09′ 00″	0.76772463	0.64077991	1.198109708	0.834648107	1.560598242	1.302550369
50° 09′ 10″	0.76775570	0.64074269	1.198227789	0.834565855	1.560688898	1.302497665
50° 09′ 20″	0.76778676	0.64070547	1.198345885	0.834483610	1.560779568	1.302444968
50° 09′ 30″	0.76781782	0.64066824	1.198463994	0.834401372	1.560870252	1.302392279
50° 09′ 40″	0.76784888	0.64063102	1.198582116	0.834319139	1.560960951	1.302339597
50° 09′ 50″	0.76787994	0.64059379	1.198700253	0.834236914	1.561051664	1.302286923
50° 10′ 00″	0.76791099	0.64055656	1.198818403	0.834154695	1.561142391	1.302234255
50° 10′ 10″	0.76794205	0.64051933	1.198936567	0.834072483	1.561233132	1.302181595
50° 10′ 20″	0.76797310	0.64048210	1.199054745	0.833990278	1.561323887	1.302128943
50° 10′ 30″	0.76800415	0.64044487	1.199172936	0.833908079	1.561414657	1.302076298
50° 10′ 40″	0.76803520	0.64040763	1.199291142	0.833825887	1.561505441	1.302023660
50° 10′ 50″	0.76806625	0.64037039	1.199409361	0.833743702	1.561596239	1.301971029
50° 11′ 00″	0.76809729	0.64033316	1.199527593	0.833661523	1.561687052	1.301918405
50° 11′ 10″	0.76812833	0.64029592	1.199645840	0.833579351	1.561777878	1.301865789
50° 11′ 20″	0.76815938	0.64025868	1.199764100	0.833497185	1.561868719	1.301813181
50° 11′ 30″	0.76819042	0.64022144	1.199882374	0.833415026	1.561959574	1.301760579
50° 11′ 40″	0.76822145	0.64018419	1.200000662	0.833332874	1.562050443	1.301707985
50° 11′ 50″	0.76825249	0.64014695	1.200118963	0.833250728	1.562141327	1.301655398
50° 12′ 00″	0.76828352	0.64010970	1.200237278	0.833168589	1.562232225	1.301602819
50° 12′ 10″	0.76831456	0.64007245	1.200355607	0.833086457	1.562323137	1.301550247
50° 12′ 20″	0.76834559	0.64003520	1.200473950	0.833004331	1.562414063	1.301497682
50° 12′ 30″	0.76837662	0.63999795	1.200592307	0.832922212	1.562505004	1.301445124
50° 12′ 40″	0.76840764	0.63996070	1.200710677	0.832840100	1.562595959	1.301392574
50° 12′ 50″	0.76843867	0.63992344	1.200829061	0.832757994	1.562686928	1.301340031
50° 13′ 00″	0.76846969	0.63988619	1.200947459	0.832675895	1.562777911	1.301287495
50° 13′ 10″	0.76850071	0.63984893	1.201065871	0.832593802	1.562868909	1.301234967
50° 13′ 20″	0.76853173	0.63981167	1.201184297	0.832511716	1.562959921	1.301182446
50° 13′ 30″	0.76856275	0.63977441	1.201302736	0.832429637	1.563050947	1.301129932
50° 13′ 40″	0.76859377	0.63973715	1.201421189	0.832347564	1.563141988	1.301077426
50° 13′ 50″	0.76862478	0.63969989	1.201539656	0.832265498	1.563233042	1.301024926
50° 14′ 00″	0.76865579	0.63966262	1.201658137	0.832183439	1.563324111	1.300972435
50° 14′ 10″	0.76868681	0.63962536	1.201776631	0.832101386	1.563415195	1.300919950
50° 14′ 20″	0.76871781	0.63958809	1.201895139	0.832019340	1.563506292	1.300867473
50° 14′ 30″	0.76874882	0.63955082	1.202013661	0.831937300	1.563597404	1.300815003
50° 14′ 40″	0.76877983	0.63951355	1.202132197	0.831855267	1.563688530	1.300762540
50° 14′ 50″	0.76881083	0.63947628	1.202250747	0.831773241	1.563779671	1.300710084
50° 15′ 00″	0.76884183	0.63943900	1.202369311	0.831691221	1.563870826	1.300657636
50° 15′ 10″	0.76887283	0.63940173	1.202487888	0.831609208	1.563961995	1.300605195
50° 15′ 20″	0.76890383	0.63936445	1.202606479	0.831527201	1.564053178	1.300552762
50° 15′ 30″	0.76893483	0.63932717	1.202725084	0.831445201	1.564144376	1.300500336
50° 15′ 40″	0.76896582	0.63928989	1.202843703	0.831363208	1.564235588	1.300447917
50° 15′ 50″	0.76899681	0.63925261	1.202962336	0.831281221	1.564326814	1.300395505
	1 30001					

377 50° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\mathbf{sec}(\mathbf{x})$	$\operatorname{\mathbf{csc}}(\mathbf{x})$
50° 16′ 00″	0.76902780	0.63921533	1.203080983	0.831199241	1.564418055	1.300343100
50° 16′ 10″	0.76905879	0.63917804	1.203199643	0.831117268	1.564509310	1.300290703
50° 16′ 20″	0.76908978	0.63914076	1.203318317	0.831035301	1.564600579	1.300238313
50° 16′ 30″	0.76912077	0.63910347	1.203437005	0.830953341	1.564691863	1.300185931
50° 16′ 40″	0.76915175	0.63906618	1.203555707	0.830871387	1.564783161	1.300133555
50° 16′ 50″	0.76918273	0.63902889	1.203674423	0.830789440	1.564874473	1.300081187
50° 17′ 00″	0.76921371	0.63899160	1.203793153	0.830707500	1.564965800	1.300028827
50° 17′ 10″	0.76924469	0.63895431	1.203773133	0.830625566	1.565057141	1.299976473
50° 17′ 20″	0.76927567	0.63891701	1.204030654	0.830543639	1.565148496	1.299924127
50° 17′ 30″	0.76930664	0.63887972	1.204149425	0.830461718	1.565239866	1.299871788
50° 17′ 40″	0.76933761	0.63884242	1.204268210	0.830379804	1.565331250	1.299819456
50° 17′ 50″	0.76936859	0.63880512	1.204387009	0.830297896	1.565422648	1.299767132
50° 18′ 00″	0.76939956	0.63876782	1.204505822	0.830215995	1.565514061	1.299714815
50° 18′ 10″	0.76943052	0.63873052	1.204624649	0.830134101	1.565605488	1.299662505
50° 18′ 20″	0.76946149	0.63869321	1.204743489	0.830052214	1.565696929	1.299610202
50° 18′ 30″	0.76949245	0.63865591	1.204862344	0.829970332	1.565788385	1.299557907
50° 18′ 40″	0.76952341	0.63861860	1.204981212	0.829888458	1.565879855	1.299505619
50° 18′ 50″	0.76955437	0.63858129	1.205100094	0.829806590	1.565971340	1.299453338
50° 19′ 00″	0.76958533	0.63854398	1.205218991	0.829724729	1.566062839	1.299401064
50° 19′ 10″	0.76961629	0.63850667	1.205337901	0.829642874	1.566154352	1.299348798
50° 19′ 20″	0.76964724	0.63846936	1.205456825	0.829561026	1.566245880	1.299296539
50° 19′ 30″	0.76967820	0.63843204	1.205575762	0.829479184	1.566337422	1.299244287
50° 19′ 40″	0.76970915	0.63839473	1.205694714	0.829397349	1.566428978	1.299192042
50° 19′ 50″	0.76974010	0.63835741	1.205813680	0.829315521	1.566520549	1.299139805
50° 20′ 00″	0.76977104	0.63832009	1.205932660	0.829233699	1.566612134	1.299087575
50° 20′ 10″	0.76980199	0.63828277	1.206051653	0.829151884	1.566703734	1.299035352
50° 20′ 20″	0.76983293	0.63824545	1.206170660	0.829070075	1.566795348	1.298983137
50° 20′ 30″	0.76986388	0.63820813	1.206289682	0.828988273	1.566886976	1.298930928
50° 20′ 40″	0.76989482	0.63817080	1.206408717	0.828906477	1.566978619	1.298878727
50° 20′ 50″	0.76992576	0.63813347	1.206527766	0.828824689	1.567070276	1.298826534
50° 21′ 00″	0.76995669	0.63809615	1.206646829	0.828742906	1.567161948	1.298774347
50° 21′ 10″	0.76998763	0.63805882	1.206765906	0.828661130	1.567253634	1.298722168
50° 21′ 20″	0.77001856	0.63802149	1.206884997	0.828579361	1.567345334	1.298669996
50° 21′ 30″	0.77004949	0.63798415	1.207004102	0.828497598	1.567437049	1.298617831
50° 21′ 40″	0.77008042	0.63794682	1.207123221	0.828415842	1.567528778	1.298565673
50° 21′ 50″	0.77011135	0.63790949	1.207242354	0.828334093	1.567620522	1.298513523
50° 22′ 00″	0.77014227	0.63787215	1.207361501	0.828252350	1.567712280	1.298461380
50° 22′ 10″	0.77017320	0.63783481	1.207480661	0.828170613	1.567804053	1.298409244
50° 22′ 20″	0.77020412	0.63779747	1.207599836	0.828088884	1.567895840	1.298357115
50° 22′ 30″	0.77023504	0.63776013	1.207719025	0.828007160	1.567987641	1.298304994
50° 22′ 40″	0.77026596	0.63772279	1.207838227	0.827925444	1.568079457	1.298252880
50° 22′ 50″	0.77029688	0.63768544	1.207957444	0.827843733	1.568171287	1.298200773
50° 23′ 00″	0.77032779	0.63764810	1.208076674	0.827762030	1.568263132	1.298148673
50° 23′ 10″	0.77035870	0.63761075	1.208195919	0.827680333	1.568354991	1.298096581
50° 23′ 20″	0.77038962	0.63757340	1.208315177	0.827598642	1.568446865	1.298044496
50° 23′ 30″	0.77042053	0.63753605	1.208434449	0.827516958	1.568538753	1.297992418
50° 23′ 40″	0.77045143	0.63749870	1.208553736	0.827435281	1.568630655	1.297940347
50° 23′ 50″	0.77048234	0.63746134	1.208673036	0.827353610	1.568722572	1.297888283

378 50° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
50° 24′ 00″	0.77051324	0.63742399	1.208792350	0.827271946	1.568814504	1.297836227
50° 24′ 10″	0.77054415	0.63738663	1.208911679	0.827190288	1.568906449	1.297784178
50° 24′ 20″	0.77057505	0.63734928	1.209031021	0.827108637	1.568998410	1.297732136
50° 24′ 30″	0.77060594	0.63731192	1.209150377	0.827026992	1.569090385	1.297680102
50° 24′ 40″	0.77063684	0.63727456	1.209269748	0.826945354	1.569182374	1.297628074
50° 24′ 50″	0.77066774	0.63723719	1.209389132	0.826863723	1.569274378	1.297576054
50° 25′ 00″	0.77069863	0.63719983	1.209508530	0.826782098	1.569366396	1.297524041
50° 25′ 10″	0.77072952	0.63716246	1.209627942	0.826700479	1.569458429	1.297472035
50° 25′ 20″	0.77076041	0.63712510	1.209747369	0.826618868	1.569550476	1.297420037
50° 25′ 30″	0.77079130	0.63708773	1.209866809	0.826537262	1.569642538	1.297368046
50° 25′ 40″	0.77082218	0.63705036	1.209986263	0.826455663	1.569734614	1.297316062
50° 25′ 50″	0.77085307	0.63701299	1.210105732	0.826374071	1.569826704	1.297264085
50° 26′ 00″	0.77088395	0.63697562	1.210225214	0.826292485	1.569918810	1.297212115
50° 26′ 10″	0.77091483	0.63693824	1.210344710	0.826210906	1.570010929	1.297160153
50° 26′ 20″	0.77094571	0.63690087	1.210464221	0.826129333	1.570103064	1.297108197
50° 26′ 30″	0.77097659	0.63686349	1.210583745	0.826047767	1.570195212	1.297056249
50° 26′ 40″	0.77100746	0.63682611	1.210703284	0.825966208	1.570287375	1.297004309
50° 26′ 50″	0.77103834	0.63678873	1.210822836	0.825884655	1.570379553	1.296952375
50° 27′ 00″	0.77106921	0.63675135	1.210942403	0.825803108	1.570471745	1.296900449
50° 27′ 10″	0.77110008	0.63671396	1.211061983	0.825721568	1.570563952	1.296848529
50° 27′ 20″	0.77113094	0.63667658	1.211181578	0.825640035	1.570656173	1.296796617
50° 27′ 30″	0.77116181	0.63663919	1.211301187	0.825558508	1.570748409	1.296744713
50° 27′ 40″	0.77119267	0.63660181	1.211420809	0.825476987	1.570840659	1.296692815
50° 27′ 50″	0.77122354	0.63656442	1.211540446	0.825395473	1.570932924	1.296640925
50° 28′ 00″	0.77125440	0.63652703	1.211660097	0.825313966	1.571025204	1.296589041
50° 28′ 10″	0.77128526	0.63648963	1.211779762	0.825232465	1.571117498	1.296537165
50° 28′ 20″	0.77131611	0.63645224	1.211899441	0.825150971	1.571209806	1.296485297
50° 28′ 30″	0.77134697	0.63641484	1.212019134	0.825069483	1.571302129	1.296433435
50° 28′ 40″	0.77137782	0.63637745	1.212138841	0.824988002	1.571394466	1.296381581
50° 28′ 50″	0.77140867	0.63634005	1.212258562	0.824906527	1.571486819	1.296329734
50° 29′ 00″	0.77143952	0.63630265	1.212378297	0.824825059	1.571579185	1.296277894
50° 29′ 10″	0.77147037	0.63626525	1.212498046	0.824743597	1.571671566	1.296226061
50° 29′ 20″	0.77150122	0.63622785	1.212617810	0.824662142	1.571763962	1.296174235
50° 29′ 30″	0.77153206	0.63619044	1.212737587	0.824580693	1.571856372	1.296122417
50° 29′ 40″	0.77156290	0.63615304	1.212857379	0.824499251	1.571948797	1.296070605
50° 29′ 50″	0.77159374	0.63611563	1.212977184	0.824417815	1.572041237	1.296018801
50° 30′ 00″	0.77162458	0.63607822	1.213097004	0.824336386	1.572133691	1.295967005
50° 30′ 10″	0.77165542	0.63604081	1.213216838	0.824254963	1.572226159	1.295915215
50° 30′ 20″	0.77168626	0.63600340	1.213336686	0.824173547	1.572318642	1.295863432
50° 30′ 30″	0.77171709	0.63596599	1.213456548	0.824092137	1.572411140	1.295811657
50° 30′ 40″	0.77174792	0.63592857	1.213576424	0.824010734	1.572503652	1.295759889
50° 30′ 50″	0.77177875	0.63589115	1.213696314	0.823929337	1.572596179	1.295708128
50° 31′ 00″ 50° 31′ 10″	0.77180958	0.63585374	1.213816218	0.823847947	1.572688721	1.295656374
50° 31′ 10″ 50° 31′ 20″	0.77184040	0.63581632	1.213936137	0.823766564	1.572781277	1.295604628
50° 31′ 20″ 50° 31′ 30″	0.77187123	0.63577890	1.214056069 1.214176016	0.823685187	1.572873847	1.295552888
50° 31′ 40″	0.77190205	0.63574147	1.214176016	0.823603816	1.572966433	1.295501156
50° 31′ 40″ 50° 31′ 50″	0.77193287	0.63570405 0.63566663	1.214295977	0.823522452 0.823441094	1.573059032 1.573151647	1.295449431 1.295397713
=======================================	0.77170307	0.0330003	1,414413734	0.043441074	1,3/3/3/104/	1,4/337//13

379 50° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
50° 32′ 00″	0.77199451	0.63562920	1.214535941	0.823359743	1.573244276	1.295346002
50° 32′ 10″	0.77202532	0.63559177	1.214655944	0.823278398	1.573336920	1.295294299
50° 32′ 20″	0.77205614	0.63555434	1.214775961	0.823197060	1.573429578	1.295242603
50° 32′ 30″	0.77208695	0.63551691	1.214895993	0.823115728	1.573522251	1.295190913
50° 32′ 40″	0.77211776	0.63547948	1.215016038	0.823034403	1.573614938	1.295139231
50° 32′ 50″	0.77214857	0.63544204	1.215136098	0.822953084	1.573707640	1.295087557
50° 33′ 00″	0.77217937	0.63540461	1.215256172	0.822871772	1.573800357	1.295035889
50° 33′ 10″	0.77221018	0.63536717	1.215376260	0.822790466	1.573893088	1.294984228
50° 33′ 20″	0.77224098	0.63532973	1.215496362	0.822709167	1.573985834	1.294932575
50° 33′ 30″	0.77227178	0.63529229	1.215616479	0.822627874	1.574078595	1.294880929
50° 33′ 40″	0.77230258	0.63525485	1.215736609	0.822546588	1.574171370	1.294829290
50° 33′ 50″	0.77233338	0.63521741	1.215856754	0.822465308	1.574264160	1.294777658
50° 34′ 00″	0.77236417	0.63517996	1.215976913	0.822384035	1.574356965	1.294726033
50° 34′ 10″	0.77239496	0.63514252	1.216097086	0.822302768	1.574449784	1.294674416
50° 34′ 20″	0.77242576	0.63510507	1.216217273	0.822221508	1.574542618	1.294622805
50° 34′ 30″	0.77245655	0.63506762	1.216337474	0.822140254	1.574635466	1.294571202
50° 34′ 40″	0.77248733	0.63503017	1.216457690	0.822059007	1.574728329	1.294519606
50° 34′ 50″	0.77251812	0.63499272	1.216577919	0.821977766	1.574821207	1.294468017
50° 35′ 00″	0.77254891	0.63495527	1.216698163	0.821896531	1.574914099	1.294416435
50° 35′ 10″	0.77257969	0.63491781	1.216818421	0.821815303	1.575007006	1.294364861
50° 35′ 20″	0.77261047	0.63488035	1.216938694	0.821734082	1.575099928	1.294313293
50° 35′ 30″	0.77264125	0.63484290	1.217058980	0.821652867	1.575192865	1.294261733
50° 35′ 40″	0.77267202	0.63480544	1.217179281	0.821571658	1.575285816	1.294210180
50° 35′ 50″	0.77270280	0.63476798	1.217299596	0.821490456	1.575378782	1.294158634
50° 36′ 00″	0.77273357	0.63473051	1.217419925	0.821409261	1.575471762	1.294107095
50° 36′ 10″	0.77276435	0.63469305	1.217540268	0.821328071	1.575564757	1.294055563
50° 36′ 20″	0.77279512	0.63465558	1.217660625	0.821246889	1.575657767	1.294004039
50° 36′ 30″	0.77282588	0.63461812	1.217780997	0.821165712	1.575750791	1.293952521
50° 36′ 40″	0.77285665	0.63458065	1.217901383	0.821084543	1.575843831	1.293901011
50° 36′ 50″	0.77288741	0.63454318	1.218021783	0.821003379	1.575936884	1.293849508
50° 37′ 00″	0.77291818	0.63450571	1.218142197	0.820922223	1.576029953	1.293798012
50° 37′ 10″	0.77294894	0.63446823	1.218262626	0.820841072	1.576123036	1.293746523
50° 37′ 20″	0.77297970	0.63443076	1.218383069	0.820759928	1.576216134	1.293695041
50° 37′ 30″	0.77301045	0.63439328	1.218503526	0.820678791	1.576309247	1.293643567
50° 37′ 40″	0.77304121	0.63435581	1.218623997	0.820597660	1.576402374	1.293592099
50° 37′ 50″	0.77307196	0.63431833	1.218744482	0.820516535	1.576495516	1.293540639
50° 38′ 00″	0.77310271	0.63428085	1.218864982	0.820435417	1.576588673	1.293489186
50° 38′ 10″	0.77313346	0.63424337	1.218985496	0.820354306	1.576681845	1.293437740
50° 38′ 20″	0.77316421	0.63420588	1.219106024	0.820273200	1.576775031	1.293386301
50° 38′ 30″	0.77319496	0.63416840	1.219226567	0.820192102	1.576868232	1.293334869
50° 38′ 40″	0.77322570	0.63413091	1.219347123	0.820111009	1.576961448	1.293283444
50° 38′ 50″	0.77325645	0.63409342	1.219467694	0.820029923	1.577054678	1.293232027
50° 39′ 00″	0.77328719	0.63405593	1.219588279	0.819948844	1.577147923	1.293180617
50° 39′ 10″	0.77331793	0.63401844	1.219708879	0.819867771	1.577241183	1.293129213
50° 39′ 20″	0.77334866	0.63398095	1.219829493	0.819786705	1.577334458	1.293077817
50° 39′ 30″	0.77337940	0.63394346	1.219950121	0.819705645	1.577427747	1.293026428
50° 39′ 40″	0.77341013	0.63390596	1.220070763	0.819624591	1.577521051	1.292975046
50° 39′ 50″	0.77344086	0.63386847	1.220191419	0.819543544	1.577614370	1.292923671

380 50° 39′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
50° 40′ 00″	0.77347159	0.63383097	1.220312090	0.819462503	1.577707704	1.292872304
50° 40′ 10″	0.77350232	0.63379347	1.220432775	0.819381469	1.577801052	1.292820943
50° 40′ 20″	0.77353305	0.63375597	1.220553475	0.819300441	1.577894415	1.292769590
50° 40′ 30″	0.77356377	0.63371846	1.220674188	0.819219419	1.577987793	1.292718244
50° 40′ 40″	0.77359449	0.63368096	1.220794916	0.819138404	1.578081185	1.292666904
50° 40′ 50″	0.77362521	0.63364345	1.220915659	0.819057396	1.578174593	1.292615572
50° 41′ 00″	0.77365593	0.63360595	1.221036415	0.818976394	1.578268015	1.292564247
50° 41′ 10″	0.77368665	0.63356844	1.221157186	0.818895398	1.578361452	1.292512930
50° 41′ 20″	0.77371737	0.63353093	1.221277971	0.818814409	1.578454904	1.292461619
50° 41′ 30″	0.77374808	0.63349342	1.221398771	0.818733426	1.578548370	1.292410315
50° 41′ 40″	0.77377879	0.63345590	1.221519584	0.818652450	1.578641851	1.292359019
50° 41′ 50″	0.77380950	0.63341839	1.221640412	0.818571480	1.578735347	1.292307729
50° 42′ 00″	0.77384021	0.63338087	1.221761255	0.818490516	1.578828858	1.292256447
50° 42′ 10″	0.77387092	0.63334336	1.221882112	0.818409559	1.578922384	1.292205172
50° 42′ 20″	0.77390162	0.63330584	1.222002983	0.818328608	1.579015924	1.292153904
50° 42′ 30″	0.77393232	0.63326832	1.222123868	0.818247664	1.579109480	1.292102643
50° 42′ 40″	0.77396302	0.63323079	1.222244768	0.818166726	1.579203050	1.292051389
50° 42′ 50″	0.77399372	0.63319327	1.222365682	0.818085795	1.579296634	1.292000142
50° 43′ 00″	0.77402442	0.63315574	1.222486610	0.818004870	1.579390234	1.291948903
50° 43′ 10″	0.77405512	0.63311822	1.222607552	0.817923951	1.579483848	1.291897670
50° 43′ 20″	0.77408581	0.63308069	1.222728509	0.817843039	1.579577478	1.291846445
50° 43′ 30″	0.77411650	0.63304316	1.222849481	0.817762133	1.579671122	1.291795226
50° 43′ 40″	0.77414719	0.63300563	1.222970467	0.817681234	1.579764781	1.291744015
50° 43′ 50″	0.77417788	0.63296810	1.223091467	0.817600341	1.579858454	1.291692811
50° 44′ 00″	0.77420856	0.63293056	1.223212481	0.817519454	1.579952143	1.291641614
50° 44′ 10″	0.77423925	0.63289303	1.223333510	0.817438574	1.580045846	1.291590424
50° 44′ 20″	0.77426993	0.63285549	1.223454553	0.817357701	1.580139564	1.291539241
50° 44′ 30″	0.77430061	0.63281795	1.223575610	0.817276833	1.580233297	1.291488065
50° 44′ 40″	0.77433129	0.63278041	1.223696682	0.817195972	1.580327045	1.291436896
50° 44′ 50″	0.77436197	0.63274287	1.223817768	0.817115118	1.580420808	1.291385735
50° 45′ 00″	0.77439264	0.63270533	1.223938869	0.817034270	1.580514585	1.291334580
50° 45′ 10″	0.77442332	0.63266778	1.224059984	0.816953428	1.580608378	1.291283433
50° 45′ 20″	0.77445399	0.63263024	1.224181113	0.816872593	1.580702185	1.291232292
50° 45′ 30″	0.77448466	0.63259269	1.224302257	0.816791764	1.580796007	1.291181159
50° 45′ 40″	0.77451533	0.63255514	1.224423415	0.816710942	1.580889844	1.291130033
50° 45′ 50″	0.77454599	0.63251759	1.224544587	0.816630126	1.580983696	1.291078914
50° 46′ 00″	0.77457666	0.63248004	1.224665774	0.816549316	1.581077562	1.291027802
50° 46′ 10″	0.77460732	0.63244249	1.224786975	0.816468513	1.581171444	1.290976697
50° 46′ 20″	0.77463798	0.63240493	1.224908191	0.816387716	1.581265340	1.290925599
50° 46′ 30″	0.77466864	0.63236738	1.225029421	0.816306925	1.581359251	1.290874508
50° 46′ 40″	0.77469930	0.63232982	1.225150665	0.816226141	1.581453177	1.290823425
50° 46′ 50″	0.77472995	0.63229226	1.225271924	0.816145364	1.581547118	1.290772348
50° 47′ 00″	0.77476061	0.63225470	1.225393197	0.816064592	1.581641074	1.290721279
50° 47′ 10″	0.77479126	0.63221714	1.225514485	0.815983827	1.581735045	1.290670216
50° 47′ 20″	0.77482191	0.63217957	1.225635787	0.815903069	1.581829031	1.290619161
50° 47′ 30″	0.77485256	0.63214201	1.225757103	0.815822317	1.581923031	1.290568112
50° 47′ 40″	0.77488320	0.63210444	1.225878434	0.815741571	1.582017047	1.290517071
50° 47′ 50″	0.77491385	0.63206687	1.225999780	0.815660832	1.582111077	1.290466037

381 50° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
50° 48′ 00″	0.77494449	0.63202930	1.226121139	0.815580099	1.582205122	1.290415010
50° 48′ 10″	0.77497513	0.63199173	1.226242514	0.815499372	1.582299182	1.290363990
50° 48′ 20″	0.77500577	0.63195416	1.226363902	0.815418652	1.582393257	1.290312977
50° 48′ 30″	0.77503641	0.63191658	1.226485305	0.815337938	1.582487347	1.290261971
50° 48′ 40″	0.77506704	0.63187901	1.226606723	0.815257231	1.582581452	1.290210972
50° 48′ 50″	0.77509767	0.63184143	1.226728155	0.815176530	1.582675572	1.290159980
50° 49′ 00″	0.77512831	0.63180385	1.226849601	0.815095835	1.582769706	1.290108996
50° 49′ 10″	0.77515894	0.63176627	1.226971062	0.815015147	1.582863856	1.290058018
50° 49′ 20″	0.77518956	0.63172869	1.227092537	0.814934465	1.582958020	1.290007047
50° 49′ 30″	0.77522019	0.63169111	1.227214027	0.814853789	1.583052200	1.289956084
50° 49′ 40″	0.77525081	0.63165352	1.227335531	0.814773120	1.583146394	1.289905127
50° 49′ 50″	0.77528144	0.63161594	1.227457049	0.814692457	1.583240603	1.289854178
50° 50′ 00″	0.77531206	0.63157835	1.227578583	0.814611801	1.583334828	1.289803235
50° 50′ 10″	0.77534268	0.63154076	1.227700130	0.814531151	1.583429067	1.289752300
50° 50′ 20″	0.77537329	0.63150317	1.227821692	0.814450507	1.583523321	1.289701372
50° 50′ 30″	0.77540391	0.63146558	1.227943269	0.814369870	1.583617590	1.289650451
50° 50′ 40″	0.77543452	0.63142799	1.228064860	0.814289239	1.583711874	1.289599537
50° 50′ 50″	0.77546513	0.63139039	1.228186465	0.814208614	1.583806173	1.289548629
50° 51′ 00″	0.77549574	0.63135280	1.228308085	0.814127996	1.583900487	1.289497729
50° 51′ 10″	0.77552635	0.63131520	1.228429719	0.814047384	1.583994816	1.289446836
50° 51′ 20″	0.77555696	0.63127760	1.228551368	0.813966779	1.584089159	1.289395950
50° 51′ 30″	0.77558756	0.63124000	1.228673032	0.813886180	1.584183518	1.289345072
50° 51′ 40″	0.77561816	0.63120240	1.228794710	0.813805587	1.584277892	1.289294200
50° 51′ 50″	0.77564876	0.63116479	1.228916402	0.813725001	1.584372281	1.289243335
50° 52′ 00″	0.77567936	0.63112719	1.229038109	0.813644421	1.584466684	1.289192477
50° 52′ 10″	0.77570996	0.63108958	1.229159830	0.813563847	1.584561103	1.289141626
50° 52′ 20″	0.77574056	0.63105197	1.229281566	0.813483279	1.584655536	1.289090783
50° 52′ 30″	0.77577115	0.63101436	1.229403317	0.813402719	1.584749985	1.289039946
50° 52′ 40″	0.77580174	0.63097675	1.229525082	0.813322164	1.584844449	1.288989116
50° 52′ 50″	0.77583233	0.63093914	1.229646861	0.813241616	1.584938927	1.288938294
50° 53′ 00″	0.77586292	0.63090152	1.229768655	0.813161074	1.585033421	1.288887478
50° 53′ 10″	0.77589350	0.63086391	1.229890464	0.813080538	1.585127929	1.288836670
50° 53′ 20″	0.77592409	0.63082629	1.230012287	0.813000009	1.585222453	1.288785868
50° 53′ 30″	0.77595467	0.63078867	1.230134124	0.812919486	1.585316992	1.288735074
50° 53′ 40″	0.77598525	0.63075105	1.230255976	0.812838969	1.585411545	1.288684287
50° 53′ 50″	0.77601583	0.63071343	1.230377843	0.812758459	1.585506114	1.288633506
50° 54′ 00″	0.77604641	0.63067581	1.230499724	0.812677955	1.585600697	1.288582733
50° 54′ 10″	0.77607698	0.63063818	1.230621620	0.812597458	1.585695296	1.288531966
50° 54′ 20″	0.77610756	0.63060056	1.230743530	0.812516967	1.585789909	1.288481207
50° 54′ 30″	0.77613813	0.63056293	1.230865455	0.812436482	1.585884538	1.288430455
50° 54′ 40″	0.77616870	0.63052530	1.230987394	0.812356004	1.585979182	1.288379710
50° 54′ 50″	0.77619926	0.63048767	1.231109348	0.812275531	1.586073840	1.288328972
50° 55′ 00″	0.77622983	0.63045004	1.231231317	0.812195066	1.586168514	1.288278240
50° 55′ 10″	0.77626039	0.63041240	1.231353300	0.812114606	1.586263203	1.288227516
50° 55′ 20″	0.77629096	0.63037477	1.231475297	0.812034153	1.586357907	1.288176799
50° 55′ 30″	0.77632152	0.63033713	1.231597309	0.811953706	1.586452625	1.288126089
50° 55′ 40″	0.77635208	0.63029950	1.231719336	0.811873266	1.586547359	1.288075386
50° 55′ 50″	0.77638263	0.63026186	1.231841378	0.811792832	1.586642108	1.288024690

382 50° 55′ 50″

$\boldsymbol{\chi}$	$\sin(\mathbf{x})$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
50° 56′ 00″	0.77641319	0.63022422	1.231963433	0.811712404	1.586736872	1.287974001
50° 56′ 10″	0.77644374	0.63018657	1.232085504	0.811631982	1.586831651	1.287923319
50° 56′ 20″	0.77647429	0.63014893	1.232207589	0.811551567	1.586926445	1.287872644
50° 56′ 30″	0.77650484	0.63011128	1.232329689	0.811471158	1.587021254	1.287821976
50° 56′ 40″	0.77653539	0.63007364	1.232451803	0.811390756	1.587116078	1.287771315
50° 56′ 50″	0.77656594	0.63003599	1.232573932	0.811310360	1.587210918	1.287720661
50° 57′ 00″	0.77659648	0.62999834	1.232696075	0.811229970	1.587305772	1.287670014
50° 57′ 10″	0.77662702	0.62996069	1.232818233	0.811149586	1.587400641	1.287619374
50° 57′ 20″	0.77665756	0.62992304	1.232940406	0.811069209	1.587495526	1.287568741
50° 57′ 30″	0.77668810	0.62988538	1.233062593	0.810988838	1.587590425	1.287518115
50° 57′ 40″	0.77671864	0.62984773	1.233184795	0.810908474	1.587685340	1.287467496
50° 57′ 50″	0.77674917	0.62981007	1.233307011	0.810828116	1.587780269	1.287416884
50° 58′ 00″	0.77677971	0.62977241	1.233429242	0.810747764	1.587875214	1.287366279
50° 58′ 10″	0.77681024	0.62973475	1.233551488	0.810667418	1.587970174	1.287315681
50° 58′ 20″	0.77684077	0.62969709	1.233673748	0.810587079	1.588065149	1.287265090
50° 58′ 30″	0.77687129	0.62965943	1.233796023	0.810506746	1.588160139	1.287214506
50° 58′ 40″	0.77690182	0.62962176	1.233918313	0.810426419	1.588255144	1.287163929
50° 58′ 50″	0.77693234	0.62958409	1.234040617	0.810346099	1.588350164	1.287113359
50° 59′ 00″	0.77696287	0.62954643	1.234162936	0.810265785	1.588445200	1.287062797
50° 59′ 10″	0.77699339	0.62950876	1.234285269	0.810185477	1.588540250	1.287012241
50° 59′ 20″	0.77702391	0.62947109	1.234407618	0.810105176	1.588635316	1.286961692
50° 59′ 30″	0.77705442	0.62943342	1.234529980	0.810024881	1.588730396	1.286911150
50° 59′ 40″	0.77708494	0.62939574	1.234652358	0.809944592	1.588825492	1.286860615
50° 59′ 50″	0.77711545	0.62935807	1.234774750	0.809864309	1.588920603	1.286810087
51° 00′ 00″	0.77714596	0.62932039	1.234897157	0.809784033	1.589015729	1.286759566
51° 00′ 10″ 51° 00′ 20″	0.77717647	0.62928271	1.235019578	0.809703763	1.589110870	1.286709052
51° 00′ 20″ 51° 00′ 30″	0.77720698 0.77723748	0.62924503 0.62920735	1.235142014 1.235264465	0.809623500 0.809543242	1.589206026 1.589301198	1.286658545 1.286608045
51° 00′ 40″	0.77726799	0.62916967	1.235386930	0.809462991	1.589396384	1.286557552
51° 00′ 50″	0.77729849	0.62913199	1.235509410	0.809382747	1.589491586	1.286507066
51° 00′ 30″	0.77732899	0.62713177	1.235631905	0.809302508	1.589586803	1.286456587
51° 01′ 10″	0.77735949	0.62707430	1.235754414	0.807302308	1.589682035	1.286406115
51° 01′ 20″	0.77738999	0.62901893	1.235876938	0.807142051	1.589777282	1.286355650
51° 01′ 30″	0.77742048	0.62898124	1.235999477	0.809061831	1.589872544	1.286305192
51° 01′ 40″	0.77745097	0.62894355	1.236122030	0.808981618	1.589967822	1.286254741
51° 01′ 50″	0.77748146	0.62890585	1.236244599	0.808901411	1.590063114	1.286204297
51° 02′ 00″	0.77751195	0.62886816	1.236367181	0.808821210	1.590158422	1.286153859
51° 02′ 10″	0.77754244	0.62883046	1.236489779	0.808741016	1.590253745	1.286103429
51° 02′ 20″	0.77757293	0.62879277	1.236612391	0.808660828	1.590349083	1.286053006
51° 02′ 30″	0.77760341	0.62875507	1.236735018	0.808580646	1.590444436	1.286002590
51° 02′ 40″	0.77763389	0.62871737	1.236857660	0.808500471	1.590539805	1.285952181
51° 02′ 50″	0.77766437	0.62867967	1.236980316	0.808420301	1.590635188	1.285901778
51° 03′ 00″	0.77769485	0.62864196	1.237102987	0.808340139	1.590730587	1.285851383
51° 03′ 10″	0.77772533	0.62860426	1.237225673	0.808259982	1.590826001	1.285800995
51° 03′ 20″	0.77775580	0.62856655	1.237348373	0.808179832	1.590921430	1.285750614
51° 03′ 30″	0.77778628	0.62852885	1.237471089	0.808099688	1.591016875	1.285700239
51° 03′ 40″	0.77781675	0.62849114	1.237593818	0.808019550	1.591112334	1.285649872
51° 03′ 50″	0.77784722	0.62845343	1.237716563	0.807939418	1.591207809	1.285599511

383 51° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
51° 04′ 00″	0.77787768	0.62841571	1.237839323	0.807859293	1.591303299	1.285549158
51° 04′ 10″	0.77790815	0.62837800	1.237962097	0.807779174	1.591398804	1.285498811
51° 04′ 20″	0.77793861	0.62834029	1.238084886	0.807699061	1.591494324	1.285448472
51° 04′ 30″	0.77796907	0.62830257	1.238207689	0.807618955	1.591589860	1.285398139
51° 04′ 40″	0.77799953	0.62826485	1.238330507	0.807538855	1.591685410	1.285347814
51° 04′ 50″	0.77802999	0.62822713	1.238453341	0.807458761	1.591780976	1.285297495
51° 05′ 00″	0.77806045	0.62818941	1.238576188	0.807378673	1.591876558	1.285247183
51° 05′ 10″	0.77809090	0.62815169	1.238699051	0.807298592	1.591972154	1.285196879
51° 05′ 20″	0.77812136	0.62811397	1.238821928	0.807218517	1.592067766	1.285146581
51° 05′ 30″	0.77815181	0.62807624	1.238944821	0.807138448	1.592163392	1.285096290
51° 05′ 40″	0.77818226	0.62803852	1.239067727	0.807058386	1.592259035	1.285046006
51° 05′ 50″	0.77821270	0.62800079	1.239190649	0.806978330	1.592354692	1.284995729
51° 06′ 00″	0.77824315	0.62796306	1.239313585	0.806898280	1.592450364	1.284945459
51° 06′ 10″	0.77827359	0.62792533	1.239436537	0.806818236	1.592546052	1.284895196
51° 06′ 20″	0.77830403	0.62788759	1.239559503	0.806738198	1.592641755	1.284844940
51° 06′ 30″	0.77833447	0.62784986	1.239682483	0.806658167	1.592737474	1.284794691
51° 06′ 40″	0.77836491	0.62781212	1.239805479	0.806578142	1.592833207	1.284744449
51° 06′ 50″	0.77839535	0.62777439	1.239928489	0.806498124	1.592928956	1.284694214
51° 07′ 00″	0.77842578	0.62773665	1.240051514	0.806418111	1.593024720	1.284643986
51° 07′ 10″	0.77845622	0.62769891	1.240174554	0.806338105	1.593120499	1.284593764
51° 07′ 20″	0.77848665	0.62766117	1.240297609	0.806258105	1.593216294	1.284543550
51° 07′ 30″	0.77851708	0.62762343	1.240420679	0.806178111	1.593312104	1.284493343
51° 07′ 40″	0.77854750	0.62758568	1.240543763	0.806098124	1.593407929	1.284443142
51° 07′ 50″	0.77857793	0.62754794	1.240666862	0.806018143	1.593503769	1.284392949
51° 08′ 00″	0.77860835	0.62751019	1.240789976	0.805938168	1.593599625	1.284342762
51° 08′ 10″	0.77863877	0.62747244	1.240913105	0.805858199	1.593695496	1.284292582
51° 08′ 20″	0.77866919	0.62743469	1.241036248	0.805778237	1.593791382	1.284242410
51° 08′ 30″	0.77869961	0.62739694	1.241159407	0.805698281	1.593887283	1.284192244
51° 08′ 40″	0.77873003	0.62735918	1.241282580	0.805618331	1.593983200	1.284142085
51° 08′ 50″	0.77876044	0.62732143	1.241405768	0.805538387	1.594079132	1.284091933
51° 09′ 00″	0.77879085	0.62728367	1.241528971	0.805458450	1.594175080	1.284041788
51° 09′ 10″	0.77882126	0.62724592	1.241652188	0.805378519	1.594271042	1.283991650
51° 09′ 20″	0.77885167	0.62720816	1.241775421	0.805298594	1.594367020	1.283941519
51° 09′ 30″	0.77888208	0.62717040	1.241898668	0.805218675	1.594463014	1.283891395
51° 09′ 40″	0.77891248	0.62713263	1.242021930	0.805138762	1.594559022	1.283841278
51° 09′ 50″	0.77894289	0.62709487	1.242145207	0.805058856	1.594655046	1.283791168
51° 10′ 00″	0.77897329	0.62705711	1.242268499	0.804978956	1.594751085	1.283741064
51° 10′ 10″	0.77900369	0.62701934	1.242391806	0.804899063	1.594847140	1.283690968
51° 10′ 20″	0.77903409	0.62698157	1.242515128	0.804819175	1.594943210	1.283640878
51° 10′ 30″	0.77906448	0.62694380	1.242638464	0.804739294	1.595039295	1.283590796
51° 10′ 40″	0.77909488	0.62690603	1.242761815	0.804659419	1.595135395	1.283540720
51° 10′ 50″	0.77912527	0.62686826	1.242885182	0.804579550	1.595231511	1.283490651
51° 11′ 00″	0.77915566	0.62683049	1.243008563	0.804499687	1.595327642	1.283440590
51° 11′ 10″	0.77918605	0.62679271	1.243131959	0.804419831	1.595423789	1.283390535
51° 11′ 20″	0.77921644	0.62675493	1.243255369	0.804339981	1.595519951	1.283340487
51° 11′ 30″	0.77924682	0.62671715	1.243378795	0.804260137	1.595616128	1.283290446
51° 11′ 40″	0.77927720	0.62667938	1.243502236	0.804180299	1.595712321	1.283240412
51° 11′ 50″	0.77930759	0.62664159	1.243625691	0.804100468	1.595808528	1.283190384
	0.17730737	0.02001107	1.2 13023071	2.001100100	1.075000520	1,2031/0307

384 51° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
51° 12′ 00″	0.77933796	0.62660381	1.243749161	0.804020643	1.595904752	1.283140364
51° 12′ 10″	0.77936834	0.62656603	1.243872647	0.803940824	1.596000990	1.283090351
51° 12′ 20″	0.77939872	0.62652824	1.243996147	0.803861011	1.596097244	1.283040344
51° 12′ 30″	0.77942909	0.62649045	1.244119662	0.803781204	1.596193514	1.282990345
51° 12′ 40″	0.77945946	0.62645267	1.244243192	0.803701404	1.596289798	1.282940352
51° 12′ 50″	0.77948984	0.62641488	1.244366737	0.803621610	1.596386098	1.282890366
51° 13′ 00″	0.77952020	0.62637708	1.244490296	0.803541822	1.596482414	1.282840387
51° 13′ 10″	0.77955057	0.62633929	1.244613871	0.803462040	1.596578745	1.282790415
51° 13′ 20″	0.77958094	0.62630150	1.244737460	0.803382265	1.596675091	1.282740450
51° 13′ 30″	0.77961130	0.62626370	1.244861065	0.803302496	1.596771452	1.282690492
51° 13′ 40″	0.77964166	0.62622590	1.244984684	0.803222732	1.596867829	1.282640541
51° 13′ 50″	0.77967202	0.62618811	1.245108319	0.803142976	1.596964222	1.282590597
51° 14′ 00″	0.77970238	0.62615030	1.245231968	0.803063225	1.597060629	1.282540660
51° 14′ 10″	0.77973273	0.62611250	1.245355632	0.802983481	1.597157052	1.282490729
51° 14′ 20″	0.77976309	0.62607470	1.245479311	0.802903742	1.597253491	1.282440805
51° 14′ 30″	0.77979344	0.62603690	1.245603005	0.802824010	1.597349945	1.282390889
51° 14′ 40″	0.77982379	0.62599909	1.245726714	0.802744285	1.597446414	1.282340979
51° 14′ 50″	0.77985414	0.62596128	1.245850438	0.802664565	1.597542899	1.282291076
51° 15′ 00″	0.77988448	0.62592347	1.245974177	0.802584852	1.597639399	1.282241180
51° 15′ 10″	0.77991483	0.62588566	1.246097931	0.802505144	1.597735915	1.282191291
51° 15′ 20″	0.77994517	0.62584785	1.246221700	0.802425444	1.597832446	1.282141409
51° 15′ 30″	0.77997551	0.62581004	1.246345483	0.802345749	1.597928992	1.282091534
51° 15′ 40″	0.78000585	0.62577222	1.246469282	0.802266060	1.598025554	1.282041665
51° 15′ 50″	0.78003619	0.62573440	1.246593096	0.802186378	1.598122131	1.281991804
51° 16′ 00″	0.78006652	0.62569659	1.246716924	0.802106702	1.598218724	1.281941949
51° 16′ 10″	0.78009686	0.62565877	1.246840768	0.802027032	1.598315332	1.281892101
51° 16′ 20″	0.78012719	0.62562095	1.246964626	0.801947368	1.598411956	1.281842261
51° 16′ 30″	0.78015752	0.62558312	1.247088500	0.801867710	1.598508595	1.281792427
51° 16′ 40″	0.78018785	0.62554530	1.247212388	0.801788059	1.598605249	1.281742600
51° 16′ 50″	0.78021817	0.62550747	1.247336292	0.801708414	1.598701919	1.281692779
51° 17′ 00″	0.78024850	0.62546965	1.247460210	0.801628775	1.598798604	1.281642966
51° 17′ 10″	0.78027882	0.62543182	1.247584144	0.801549142	1.598895305	1.281593160
51° 17′ 20″ 51° 17′ 30″	0.78030914	0.62539399	1.247708092	0.801469515	1.598992021	1.281543360
51° 17′ 30″ 51° 17′ 40″	0.78033946 0.78036978	0.62535616 0.62531833	1.247832056 1.247956034	0.801389895 0.801310281	1.599088753 1.599185500	1.281493567 1.281443782
51° 17′ 40″ 51° 17′ 50″	0.78040009	0.62528049	1.247736034	0.801310281	1.599282263	1.281394003
51° 18′ 00″	0.78043041	0.62524266	1.248204036	0.801230672	1.599379041	1.281344231
51° 18′ 10″	0.78045041	0.62520482	1.248328060	0.801131071	1.599475834	1.281294466
51° 18′ 20″	0.78049103	0.62516698	1.248452098	0.801071475	1.599572644	1.281244406
51° 18′ 30″	0.78047103	0.62512914	1.248576152	0.800971883	1.599669468	1.281194956
51° 18′ 40″	0.78052134	0.62512714	1.248700220	0.800912302	1.599766308	1.281145212
51° 18′ 50″	0.78053164	0.62505346	1.248824304	0.800753154	1.599863164	1.281143212
51° 19′ 00″	0.78038173	0.62501561	1.248948403	0.800733134	1.599960035	1.281075474
51° 19′ 10″	0.78061223	0.62497777	1.249072516	0.800594030	1.600056921	1.280996019
51° 19′ 20″	0.78067285	0.62477777	1.247072316	0.800514478	1.600153823	1.280776617
51° 19′ 30″	0.78070315	0.62490207	1.247170043	0.800434932	1.600250741	1.280896592
51° 19′ 40″	0.78073344	0.62486422	1.249444947	0.800355392	1.600347674	1.280846889
51° 19′ 50″	0.78076374	0.62482637	1.249569121	0.800275858	1.600444622	1.280797193
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385 51° 19′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
51° 20′ 00″	0.78079403	0.62478851	1.249693310	0.800196330	1.600541586	1.280747503
51° 20′ 10″	0.78082432	0.62475066	1.249817514	0.800116808	1.600638566	1.280697820
51° 20′ 20″	0.78085460	0.62471280	1.249941733	0.800037293	1.600735561	1.280648144
51° 20′ 30″	0.78088489	0.62467495	1.250065967	0.799957784	1.600832571	1.280598476
51° 20′ 40″	0.78091517	0.62463709	1.250190216	0.799878281	1.600929597	1.280548813
51° 20′ 50″	0.78094546	0.62459923	1.250314480	0.799798784	1.601026639	1.280499158
51° 21′ 00″	0.78097574	0.62456136	1.250438759	0.799719293	1.601123696	1.280449510
51° 21′ 10″	0.78100602	0.62452350	1.250563053	0.799639808	1.601220769	1.280399868
51° 21′ 20″	0.78103629	0.62448564	1.250687362	0.799560330	1.601317857	1.280350234
51° 21′ 30″	0.78106657	0.62444777	1.250811687	0.799480858	1.601414961	1.280300606
51° 21′ 40″	0.78109684	0.62440990	1.250936026	0.799401391	1.601512080	1.280250985
51° 21′ 50″	0.78112711	0.62437203	1.251060381	0.799321932	1.601609215	1.280201371
51° 22′ 00″	0.78115738	0.62433416	1.251184750	0.799242478	1.601706365	1.280151764
51° 22′ 10″	0.78118765	0.62429629	1.251309135	0.799163030	1.601803531	1.280102163
51° 22′ 20″	0.78121792	0.62425842	1.251433535	0.799083589	1.601900712	1.280052570
51° 22′ 30″	0.78124818	0.62422054	1.251557950	0.799004153	1.601997909	1.280002983
51° 22′ 40″	0.78127844	0.62418266	1.251682380	0.798924724	1.602095122	1.279953403
51° 22′ 50″	0.78130870	0.62414479	1.251806825	0.798845301	1.602192350	1.279903830
51° 23′ 00″	0.78133896	0.62410691	1.251931285	0.798765884	1.602289594	1.279854264
51° 23′ 10″	0.78136922	0.62406902	1.252055760	0.798686474	1.602386853	1.279804705
51° 23′ 20″	0.78139947	0.62403114	1.252180251	0.798607069	1.602484128	1.279755153
51° 23′ 30″	0.78142972	0.62399326	1.252304756	0.798527671	1.602581419	1.279705607
51° 23′ 40″	0.78145998	0.62395537	1.252429277	0.798448278	1.602678725	1.279656068
51° 23′ 50″	0.78149022	0.62391749	1.252553813	0.798368892	1.602776046	1.279606536
51° 24′ 00″	0.78152047	0.62387960	1.252678364	0.798289512	1.602873383	1.279557011
51° 24′ 10″	0.78155072	0.62384171	1.252802930	0.798210138	1.602970736	1.279507493
51° 24′ 20″	0.78158096	0.62380382	1.252927511	0.798130771	1.603068105	1.279457982
51° 24′ 30″	0.78161120	0.62376592	1.253052107	0.798051409	1.603165489	1.279408477
51° 24′ 40″	0.78164144	0.62372803	1.253176719	0.797972054	1.603262888	1.279358980
51° 24′ 50″	0.78167168	0.62369013	1.253301345	0.797892704	1.603360303	1.279309489
51° 25′ 00″	0.78170192	0.62365224	1.253425987	0.797813361	1.603457734	1.279260005
51° 25′ 10″	0.78173215	0.62361434	1.253550644	0.797734024	1.603555181	1.279210527
51° 25′ 20″	0.78176239	0.62357644	1.253675316	0.797654694	1.603652643	1.279161057
51° 25′ 30″	0.78179262	0.62353853	1.253800003	0.797575369	1.603750120	1.279111594
51° 25′ 40″	0.78182285	0.62350063	1.253924706	0.797496050	1.603847614	1.279062137
51° 25′ 50″	0.78185307	0.62346273	1.254049423	0.797416738	1.603945122	1.279012687
51° 26′ 00″	0.78188330	0.62342482	1.254174156	0.797337431	1.604042647	1.278963244
51° 26′ 10″	0.78191352	0.62338691	1.254298904	0.797258131	1.604140187	1.278913808
51° 26′ 20″	0.78194374	0.62334900	1.254423667	0.797178837	1.604237743	1.278864378
51° 26′ 30″	0.78197396	0.62331109	1.254548445	0.797099549	1.604335314	1.278814956
51° 26′ 40″	0.78200418	0.62327318	1.254673238	0.797020267	1.604432901	1.278765540
51° 26′ 50″	0.78203440	0.62323527	1.254798047	0.796940992	1.604530504	1.278716131
51° 27′ 00″	0.78206461	0.62319735	1.254922871	0.796861722	1.604628122	1.278666729
51° 27′ 10″	0.78209482	0.62315944	1.255047710	0.796782459	1.604725756	1.278617334
51° 27′ 20″	0.78212504	0.62312152	1.255172564	0.796703202	1.604823406	1.278567946
51° 27′ 30″	0.78215524	0.62308360	1.255297433	0.796623950	1.604921071	1.278518564
51° 27′ 40″	0.78218545	0.62304568	1.255422318	0.796544705	1.605018752	1.278469189
51° 27′ 50″	0.78221566	0.62300776	1.255547217	0.796465466	1.605116449	1.278419821

386 51° 27′ 50″

	• ()					
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
51° 28′ 00″	0.78224586	0.62296983	1.255672132	0.796386234	1.605214161	1.278370460
51° 28′ 10″	0.78227606	0.62293191	1.255797062	0.796307007	1.605311889	1.278321106
51° 28′ 20″	0.78230626	0.62289398	1.255922008	0.796227786	1.605409633	1.278271758
51° 28′ 30″	0.78233646	0.62285605	1.256046968	0.796148572	1.605507392	1.278222417
51° 28′ 40″	0.78236666	0.62281813	1.256171944	0.796069363	1.605605167	1.278173084
51° 28′ 50″	0.78239685	0.62278019	1.256296935	0.795990161	1.605702958	1.278123756
51° 29′ 00″	0.78242704	0.62274226	1.256421941	0.795910965	1.605800764	1.278074436
51° 29′ 10″	0.78245723	0.62270433	1.256546963	0.795831775	1.605898586	1.278025123
51° 29′ 20″	0.78248742	0.62266639	1.256672000	0.795752591	1.605996424	1.277975816
51° 29′ 30″	0.78251761	0.62262846	1.256797052	0.795673413	1.606094278	1.277926516
51° 29′ 40″	0.78254779	0.62259052	1.256922119	0.795594242	1.606192147	1.277877223
51° 29′ 50″	0.78257798	0.62255258	1.257047201	0.795515076	1.606290032	1.277827937
51° 30′ 00″	0.78260816	0.62251464	1.257172299	0.795435917	1.606387932	1.277778657
51° 30′ 10″	0.78263834	0.62247669	1.257297412	0.795356763	1.606485849	1.277729385
51° 30′ 20″	0.78266851	0.62243875	1.257422540	0.795277616	1.606583781	1.277680119
51° 30′ 30″	0.78269869	0.62240080	1.257547683	0.795198475	1.606681728	1.277630860
51° 30′ 40″	0.78272886	0.62236286	1.257672842	0.795119340	1.606779692	1.277581608
51° 30′ 50″	0.78275904	0.62232491	1.257798016	0.795040211	1.606877671	1.277532362
51° 31′ 00″	0.78278921	0.62228696	1.257923205	0.794961088	1.606975666	1.277483124
51° 31′ 10″	0.78281937	0.62224901	1.258048410	0.794881971	1.607073676	1.277433892
51° 31′ 20″	0.78284954	0.62221105	1.258173630	0.794802861	1.607171703	1.277384667
51° 31′ 30″	0.78287971	0.62217310	1.258298865	0.794723756	1.607269745	1.277335449
51° 31′ 40″	0.78290987	0.62213514	1.258424115	0.794644658	1.607367803	1.277286237
51° 31′ 50″	0.78294003	0.62209719	1.258549381	0.794565565	1.607465876	1.277237033
51° 32′ 00″	0.78297019	0.62205923	1.258674662	0.794486479	1.607563966	1.277187835
51° 32′ 10″	0.78300035	0.62202127	1.258799958	0.794407399	1.607662071	1.277138644
51° 32′ 20″	0.78303050	0.62198331	1.258925269	0.794328325	1.607760192	1.277089459
51° 32′ 30″	0.78306066	0.62194534	1.259050596	0.794249257	1.607858328	1.277040282
51° 32′ 40″	0.78309081	0.62190738	1.259175938	0.794170195	1.607956481	1.276991111
51° 32′ 50″	0.78312096	0.62186941	1.259301296	0.794091139	1.608054649	1.276941947
51° 33′ 00″	0.78315111	0.62183145	1.259426668	0.794012089	1.608152833	1.276892790
51° 33′ 10″	0.78318125	0.62179348	1.259552056	0.793933045	1.608251032	1.276843640
51° 33′ 20″	0.78321140	0.62175551	1.259677460	0.793854008	1.608349248	1.276794496
51° 33′ 30″	0.78324154	0.62171753	1.259802878	0.793774976	1.608447479	1.276745360
51° 33′ 40″	0.78327168	0.62167956	1.259928312	0.793695951	1.608545726	1.276696230
51° 33′ 50″	0.78330182	0.62164159	1.260053762	0.793616932	1.608643989	1.276647106
51° 34′ 00″	0.78333196	0.62160361	1.260179226	0.793537918	1.608742267	1.276597990
51° 34′ 10″	0.78336209	0.62156563	1.260304706	0.793458911	1.608840561	1.276548880
51° 34′ 20″	0.78339222	0.62152765	1.260430201	0.793379910	1.608938872	1.276499777
51° 34′ 30″	0.78342236	0.62148967	1.260555712	0.793300915	1.609037198	1.276450681
51° 34′ 40″	0.78345249	0.62145169	1.260681238	0.793221926	1.609135539	1.276401592
51° 34′ 50″	0.78348261	0.62141371	1.260806779	0.793142943	1.609233897	1.276352510
51° 35′ 00″	0.78351274	0.62137572	1.260932336	0.793063967	1.609332270	1.276303434
51° 35′ 10″	0.78354286	0.62133773	1.261057908	0.792984996	1.609430659	1.276254365
51° 35′ 20″	0.78357299	0.62129975	1.261183495	0.792906031	1.609529064	1.276205303
51° 35′ 30″	0.78360311	0.62126176	1.261309098	0.792827073	1.609627485	1.276156247
51° 35′ 40″	0.78363323	0.62122377	1.261434716	0.792748120	1.609725922	1.276107199
51° 35′ 50″	0.78366334	0.62118577	1.261560350	0.792669174	1.609824374	1.276058157

387 51° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
51° 36′ 00″	0.78369346	0.62114778	1.261685998	0.792590233	1.609922842	1.276009121
51° 36′ 10″	0.78372357	0.62110979	1.261811663	0.792511299	1.610021327	1.275960093
51° 36′ 20″	0.78375368	0.62107179	1.261937342	0.792432371	1.610119826	1.275911072
51° 36′ 30″	0.78378379	0.62103379	1.262063037	0.792353449	1.610218342	1.275862057
51° 36′ 40″	0.78381390	0.62099579	1.262188747	0.792274533	1.610316874	1.275813049
51° 36′ 50″	0.78384400	0.62095779	1.262314473	0.792195623	1.610415421	1.275764047
51° 37′ 00″	0.78387411	0.62091979	1.262440214	0.792116719	1.610513985	1.275715053
51° 37′ 10″	0.78390421	0.62088178	1.262565971	0.792037821	1.610612564	1.275666065
51° 37′ 20″	0.78393431	0.62084378	1.262691743	0.791958929	1.610711159	1.275617084
51° 37′ 30″	0.78396441	0.62080577	1.262817530	0.791880043	1.610809770	1.275568110
51° 37′ 40″	0.78399451	0.62076776	1.262943333	0.791801163	1.610908396	1.275519142
51° 37′ 50″	0.78402460	0.62072975	1.263069151	0.791722290	1.611007039	1.275470181
51° 38′ 00″	0.78405469	0.62069174	1.263194984	0.791643422	1.611105697	1.275421227
51° 38′ 10″	0.78408478	0.62065373	1.263320833	0.791564560	1.611204372	1.275372280
51° 38′ 20″	0.78411487	0.62061571	1.263446698	0.791485705	1.611303062	1.275323340
51° 38′ 30″	0.78414496	0.62057770	1.263572577	0.791406855	1.611401768	1.275274406
51° 38′ 40″	0.78417505	0.62053968	1.263698473	0.791328012	1.611500490	1.275225479
51° 38′ 50″	0.78420513	0.62050166	1.263824383	0.791249175	1.611599228	1.275176559
51° 39′ 00″	0.78423521	0.62046364	1.263950309	0.791170343	1.611697982	1.275127645
51° 39′ 10″	0.78426529	0.62042562	1.264076251	0.791091518	1.611796751	1.275078739
51° 39′ 20″	0.78429537	0.62038760	1.264202208	0.791012699	1.611895537	1.275029839
51° 39′ 30″	0.78432545	0.62034957	1.264328180	0.790933886	1.611994338	1.274980945
51° 39′ 40″	0.78435552	0.62031155	1.264454168	0.790855078	1.612093156	1.274932059
51° 39′ 50″	0.78438559	0.62027352	1.264580171	0.790776277	1.612191989	1.274883179
51° 40′ 00″	0.78441566	0.62023549	1.264706190	0.790697482	1.612290838	1.274834306
51° 40′ 10″	0.78444573	0.62019746	1.264832224	0.790618693	1.612389703	1.274785440
51° 40′ 20″	0.78447580	0.62015943	1.264958274	0.790539910	1.612488584	1.274736580
51° 40′ 30″	0.78450587	0.62012140	1.265084339	0.790461133	1.612587481	1.274687728
51° 40′ 40″	0.78453593	0.62008336	1.265210419	0.790382362	1.612686394	1.274638882
51° 40′ 50″	0.78456599	0.62004533	1.265336515	0.790303598	1.612785323	1.274590042
51° 41′ 00″	0.78459605	0.62000729	1.265462627	0.790224839	1.612884267	1.274541210
51° 41′ 10″	0.78462611	0.61996925	1.265588754	0.790146086	1.612983228	1.274492384
51° 41′ 20″	0.78465616	0.61993121	1.265714896	0.790067339	1.613082204	1.274443565
51° 41′ 30″	0.78468622	0.61989317	1.265841054	0.789988598	1.613181197	1.274394753
51° 41′ 40″	0.78471627	0.61985512	1.265967227	0.789909864	1.613280205	1.274345947
51° 41′ 50″	0.78474632	0.61981708	1.266093416	0.789831135	1.613379230	1.274297148
51° 42′ 00″	0.78477637	0.61977903	1.266219621	0.789752412	1.613478270	1.274248356
51° 42′ 10″	0.78480642	0.61974098	1.266345841	0.789673696	1.613577326	1.274199571
51° 42′ 20″	0.78483646	0.61970293	1.266472076	0.789594985	1.613676399	1.274150792
51° 42′ 30″	0.78486651	0.61966488	1.266598327	0.789516281	1.613775487	1.274102020
51° 42′ 40″	0.78489655	0.61962683	1.266724593	0.789437582	1.613874591	1.274053255
51° 42′ 50″	0.78492659	0.61958878	1.266850875	0.789358890	1.613973711	1.274004496
51° 43′ 00″	0.78495662	0.61955072	1.266977173	0.789280203	1.614072847	1.273955745
51° 43′ 10″	0.78498666	0.61951267	1.267103485	0.789201523	1.614171999	1.273906999
51° 43′ 20″	0.78501669	0.61947461	1.267229814	0.789122848	1.614271167	1.273858261
51° 43′ 30″	0.78504673	0.61943655	1.267356158	0.789044180	1.614370351	1.273809530
51° 43′ 40″	0.78507676	0.61939849	1.267482517	0.788965517	1.614469551	1.273760805
51° 43′ 50″	0.78510678	0.61936043	1.267608892	0.788886861	1.614568767	1.273712087

388 51° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
51° 44′ 00″	0.78513681	0.61932236	1.267735283	0.788808211	1.614667999	1.273663375
51° 44′ 10″	0.78516684	0.61928430	1.267861689	0.788729566	1.614767247	1.273614670
51° 44′ 20″	0.78519686	0.61924623	1.267988111	0.788650928	1.614866511	1.273565972
51° 44′ 30″	0.78522688	0.61920816	1.268114548	0.788572296	1.614965791	1.273517281
51° 44′ 40″	0.78525690	0.61917009	1.268241001	0.788493669	1.615065087	1.273468597
51° 44′ 50″	0.78528692	0.61913202	1.268367469	0.788415049	1.615164399	1.273419919
51° 45′ 00″	0.78531693	0.61909395	1.268493953	0.788336435	1.615263727	1.273371248
51° 45′ 10″	0.78534694	0.61905588	1.268620452	0.788257826	1.615363071	1.273322583
51° 45′ 20″	0.78537696	0.61901780	1.268746967	0.788179224	1.615462431	1.273273925
51° 45′ 30″	0.78540697	0.61897972	1.268873498	0.788100628	1.615561807	1.273225274
51° 45′ 40″	0.78543697	0.61894164	1.269000044	0.788022037	1.615661199	1.273176630
51° 45′ 50″	0.78546698	0.61890356	1.269126605	0.787943453	1.615760607	1.273127993
51° 46′ 00″	0.78549698	0.61886548	1.269253183	0.787864875	1.615860032	1.273079362
51° 46′ 10″	0.78552699	0.61882740	1.269379775	0.787786303	1.615959472	1.273030738
51° 46′ 20″	0.78555699	0.61878932	1.269506384	0.787707736	1.616058928	1.272982120
51° 46′ 30″	0.78558699	0.61875123	1.269633008	0.787629176	1.616158400	1.272933509
51° 46′ 40″	0.78561698	0.61871314	1.269759647	0.787550622	1.616257889	1.272884905
51° 46′ 50″	0.78564698	0.61867506	1.269886303	0.787472074	1.616357393	1.272836308
51° 47′ 00″	0.78567697	0.61863697	1.270012973	0.787393531	1.616456913	1.272787717
51° 47′ 10″	0.78570696	0.61859887	1.270139660	0.787314995	1.616556450	1.272739133
51° 47′ 20″	0.78573695	0.61856078	1.270266362	0.787236465	1.616656002	1.272690556
51° 47′ 30″	0.78576694	0.61852269	1.270393079	0.787157941	1.616755571	1.272641986
51° 47′ 40″	0.78579693	0.61848459	1.270519812	0.787079422	1.616855155	1.272593422
51° 47′ 50″	0.78582691	0.61844649	1.270646561	0.787000910	1.616954756	1.272544865
51° 48′ 00″	0.78585689	0.61840840	1.270773326	0.786922404	1.617054373	1.272496314
51° 48′ 10″	0.78588687	0.61837030	1.270900106	0.786843903	1.617154006	1.272447770
51° 48′ 20″	0.78591685	0.61833219	1.271026901	0.786765409	1.617253655	1.272399233
51° 48′ 30″	0.78594683	0.61829409	1.271153713	0.786686921	1.617353320	1.272350703
51° 48′ 40″	0.78597680	0.61825599	1.271280540	0.786608438	1.617453001	1.272302179
51° 48′ 50″	0.78600678	0.61821788	1.271407382	0.786529962	1.617552698	1.272253662
51° 49′ 00″	0.78603675	0.61817977	1.271534240	0.786451492	1.617652411	1.272205152
51° 49′ 10″	0.78606672	0.61814166	1.271661114	0.786373027	1.617752141	1.272156648
51° 49′ 20″	0.78609668	0.61810355	1.271788004	0.786294569	1.617851886	1.272108151
51° 49′ 30″	0.78612665	0.61806544	1.271914909	0.786216116	1.617951648	1.272059661
51° 49′ 40″	0.78615661	0.61802733	1.272041830	0.786137670	1.618051426	1.272011178
51° 49′ 50″	0.78618658	0.61798921	1.272168766	0.786059230	1.618151219	1.271962701
51° 50′ 00″	0.78621654	0.61795110	1.272295718	0.785980795	1.618251029	1.271914231
51° 50′ 10″	0.78624649	0.61791298	1.272422686	0.785902367	1.618350855	1.271865767
51° 50′ 20″	0.78627645	0.61787486	1.272549669	0.785823944	1.618450698	1.271817310
51° 50′ 30″	0.78630640	0.61783674	1.272676668	0.785745527	1.618550556	1.271768860
51° 50′ 40″	0.78633636	0.61779862	1.272803683	0.785667117	1.618650430	1.271720417
51° 50′ 50″	0.78636631	0.61776050	1.272930714	0.785588712	1.618750321	1.271671980
51° 51′ 00″	0.78639626	0.61772237	1.273057760	0.785510314	1.618850228	1.271623550
51° 51′ 10″	0.78642620	0.61768424	1.273184821	0.785431921	1.618950150	1.271575127
51° 51′ 20″	0.78645615	0.61764612	1.273311899	0.785353534	1.619050089	1.271526710
51° 51′ 30″	0.78648609	0.61760799	1.273438992	0.785275154	1.619150044	1.271478300
51° 51′ 40″	0.78651603	0.61756986	1.273566101	0.785196779	1.619250016	1.271429896
51° 51′ 50″	0.78654597	0.61753172	1.273693226	0.785118410	1.619350003	1.271381500

389 51° 51′ 50″

	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	esc(v)
X ====================================						$\frac{\csc(x)}{1.271222110}$
51° 52′ 00″	0.78657591	0.61749359	1.273820366	0.785040047	1.619450007	1.271333110
51° 52′ 10″	0.78660585	0.61745546	1.273947522	0.784961690	1.619550026	1.271284726
51° 52′ 20″	0.78663578	0.61741732	1.274074693	0.784883339	1.619650062	1.271236350
51° 52′ 30″	0.78666571	0.61737918	1.274201881	0.784804994	1.619750114	1.271187980
51° 52′ 40″	0.78669564	0.61734104	1.274329084	0.784726655	1.619850183	1.271139616
51° 52′ 50″	0.78672557	0.61730290	1.274456303	0.784648322	1.619950267	1.271091259
51° 53′ 00″	0.78675550	0.61726476	1.274583537	0.784569995	1.620050368	1.271042909
51° 53′ 10″	0.78678543	0.61722662	1.274710788	0.784491674	1.620150484	1.270994566
51° 53′ 20″	0.78681535	0.61718847	1.274838054	0.784413359	1.620250617	1.270946229
51° 53′ 30″	0.78684527	0.61715032	1.274965335	0.784335050	1.620350766	1.270897899
51° 53′ 40″	0.78687519	0.61711218	1.275092633	0.784256747	1.620450932	1.270849576
51° 53′ 50″	0.78690511	0.61707403	1.275219946	0.784178449	1.620551113	1.270801259
51° 54′ 00″	0.78693502	0.61703588	1.275347275	0.784100158	1.620651311	1.270752949
51° 54′ 10″	0.78696494	0.61699772	1.275474620	0.784021873	1.620751525	1.270704646
51° 54′ 20″	0.78699485	0.61695957	1.275601980	0.783943593	1.620851755	1.270656349
51° 54′ 30″	0.78702476	0.61692141	1.275729356	0.783865320	1.620952001	1.270608059
51° 54′ 40″	0.78705467	0.61688326	1.275856748	0.783787052	1.621052264	1.270559776
51° 54′ 50″	0.78708457	0.61684510	1.275984156	0.783708791	1.621152543	1.270511499
51° 55′ 00″	0.78711448	0.61680694	1.276111580	0.783630535	1.621252838	1.270463229
51° 55′ 10″	0.78714438	0.61676878	1.276239019	0.783552285	1.621353149	1.270414965
51° 55′ 20″	0.78717428	0.61673062	1.276366474	0.783474042	1.621453476	1.270366708
51° 55′ 30″	0.78720418	0.61669245	1.276493945	0.783395804	1.621553820	1.270318458
51° 55′ 40″	0.78723408	0.61665429	1.276621431	0.783317572	1.621654180	1.270270215
51° 55′ 50″	0.78726397	0.61661612	1.276748934	0.783239346	1.621754556	1.270221978
51° 56′ 00″ 51° 56′ 10″	0.78729387	0.61657795	1.276876452	0.783161126	1.621854948	1.270173748
51° 56′ 20″	0.78732376 0.78735365	0.61653978	1.277003986 1.277131535	0.783082912 0.783004704	1.621955357	1.270125524 1.270077307
51° 56′ 30″	0.78738353	0.61650161	1.277131333	0.782926502	1.622055782 1.622156223	1.270077307
51° 56′ 40″	0.78741342	0.61646344 0.61642526	1.277386682	0.782848306	1.622156225	1.269980893
51° 56′ 50″	0.78741342	0.61638709	1.277514279	0.782770115	1.622357154	1.269932697
51° 57′ 00″	0.78747319	0.61634891	1.277641892	0.782691931	1.622457644	1.269884506
51° 57′ 10″	0.78750307	0.61631073	1.277769521	0.782613753	1.622558150	1.269836322
51° 57′ 20″	0.78753295	0.61627255	1.277897166	0.782535580	1.622658672	1.269788145
51° 57′ 30″	0.78756282	0.61623437	1.278024826	0.782457414	1.622759211	1.269739975
51° 57′ 40″	0.78759270	0.61619619	1.278152502	0.782379253	1.622859766	1.269691811
51° 57′ 50″	0.78762257	0.61615800	1.278280194	0.782301098	1.622960337	1.269643654
51° 58′ 00″	0.78765244	0.61611982	1.278407902	0.782222950	1.623060924	1.269595504
51° 58′ 10″	0.78768231	0.61608163	1.278535626	0.782144807	1.623161528	1.269547360
51° 58′ 20″	0.78771218	0.61604344	1.278663365	0.782066670	1.623262148	1.269499223
51° 58′ 30″	0.78774205	0.61600525	1.278791121	0.781988539	1.623362785	1.269451092
51° 58′ 40″	0.78777191	0.61596706	1.278918892	0.781910414	1.623463437	1.269402968
51° 58′ 50″	0.78780177	0.61592887	1.279046679	0.781832295	1.623564106	1.269354851
51° 59′ 00″	0.78783163	0.61589067	1.279174482	0.781754181	1.623664791	1.269306740
51° 59′ 10″	0.78786149	0.61585248	1.279302301	0.781676074	1.623765493	1.269258636
51° 59′ 20″	0.78789135	0.61581428	1.279430135	0.781597973	1.623866211	1.269210539
51° 59′ 30″	0.78792120	0.61577608	1.279557986	0.781519877	1.623966945	1.269162448
51° 59′ 40″	0.78795105	0.61573788	1.279685852	0.781441788	1.624067696	1.269114364
51° 59′ 50″	0.78798090	0.61569968	1.279813734	0.781363704	1.624168462	1.269066286
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390 51° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
52° 00′ 00″	0.78801075	0.61566148	1.279941632	0.781285627	1.624269245	1.269018215
52° 00′ 10″	0.78804060	0.61562327	1.280069546	0.781207555	1.624370045	1.268970151
52° 00′ 20″	0.78807045	0.61558506	1.280197476	0.781129489	1.624470861	1.268922093
52° 00′ 30″	0.78810029	0.61554686	1.280325422	0.781051429	1.624571693	1.268874042
52° 00′ 40″	0.78813013	0.61550865	1.280453383	0.780973375	1.624672541	1.268825998
52° 00′ 50″	0.78815997	0.61547044	1.280581361	0.780895327	1.624773406	1.268777960
52° 01′ 00″	0.78818981	0.61543223	1.280709354	0.780817284	1.624874287	1.268729929
52° 01′ 10″	0.78821964	0.61539401	1.280837363	0.780739248	1.624975185	1.268681904
52° 01′ 20″	0.78824948	0.61535580	1.280965388	0.780661218	1.625076099	1.268633886
52° 01′ 30″	0.78827931	0.61531758	1.281093430	0.780583193	1.625177029	1.268585875
52° 01′ 40″	0.78830914	0.61527936	1.281221486	0.780505175	1.625277975	1.268537870
52° 01′ 50″	0.78833897	0.61524115	1.281349559	0.780427162	1.625378938	1.268489872
52° 02′ 00″	0.78836880	0.61520293	1.281477648	0.780349155	1.625479918	1.268441880
52° 02′ 10″	0.78839862	0.61516470	1.281605753	0.780271154	1.625580913	1.268393895
52° 02′ 20″	0.78842845	0.61512648	1.281733873	0.780193159	1.625681925	1.268345917
52° 02′ 30″	0.78845827	0.61508825	1.281862010	0.780115170	1.625782954	1.268297946
52° 02′ 40″	0.78848809	0.61505003	1.281990162	0.780037187	1.625883999	1.268249980
52° 02′ 50″	0.78851790	0.61501180	1.282118331	0.779959210	1.625985060	1.268202022
52° 03′ 00″	0.78854772	0.61497357	1.282246515	0.779881238	1.626086137	1.268154070
52° 03′ 10″	0.78857753	0.61493534	1.282374715	0.779803273	1.626187231	1.268106125
52° 03′ 20″	0.78860735	0.61489711	1.282502932	0.779725313	1.626288342	1.268058186
52° 03′ 30″	0.78863716	0.61485888	1.282631164	0.779647359	1.626389468	1.268010254
52° 03′ 40″	0.78866696	0.61482064	1.282759412	0.779569412	1.626490611	1.267962329
52° 03′ 50″	0.78869677	0.61478240	1.282887676	0.779491470	1.626591771	1.267914410
52° 04′ 00″	0.78872657	0.61474417	1.283015956	0.779413534	1.626692947	1.267866498
52° 04′ 10″	0.78875638	0.61470593	1.283144252	0.779335603	1.626794139	1.267818592
52° 04′ 20″	0.78878618	0.61466769	1.283272564	0.779257679	1.626895348	1.267770693
52° 04′ 30″	0.78881598	0.61462944	1.283400892	0.779179761	1.626996573	1.267722801
52° 04′ 40″	0.78884577	0.61459120	1.283529236	0.779101848	1.627097815	1.267674915
52° 04′ 50″	0.78887557	0.61455296	1.283657596	0.779023942	1.627199073	1.267627036
52° 05′ 00″	0.78890536	0.61451471	1.283785971	0.778946041	1.627300347	1.267579163
52° 05′ 10″	0.78893515	0.61447646	1.283914363	0.778868146	1.627401638	1.267531297
52° 05′ 20″	0.78896494	0.61443821	1.284042771	0.778790257	1.627502946	1.267483438
52° 05′ 30″	0.78899473	0.61439996	1.284171195	0.778712374	1.627604269	1.267435585
52° 05′ 40″	0.78902452	0.61436171	1.284299635	0.778634497	1.627705610	1.267387739
52° 05′ 50″	0.78905430	0.61432346	1.284428090	0.778556626	1.627806966	1.267339899
52° 06′ 00″	0.78908408	0.61428520	1.284556562	0.778478760	1.627908339	1.267292066
52° 06′ 10″	0.78911387	0.61424694	1.284685050	0.778400901	1.628009729	1.267244239
52° 06′ 20″	0.78914364	0.61420869	1.284813554	0.778323047	1.628111135	1.267196419
52° 06′ 30″	0.78917342	0.61417043	1.284942074	0.778245199	1.628212557	1.267148606
52° 06′ 40″	0.78920320	0.61413217	1.285070609	0.778167357	1.628313996	1.267100799
52° 06′ 50″	0.78923297	0.61409390	1.285199161	0.778089521	1.628415452	1.267052999
52° 07′ 00″	0.78926274	0.61405564	1.285327729	0.778011691	1.628516924	1.267005206
52° 07′ 10″	0.78929251	0.61401737	1.285456313	0.777933867	1.628618412	1.266957419
52° 07′ 20″	0.78932228	0.61397911	1.285584913	0.777856048	1.628719917	1.266909638
52° 07′ 30″	0.78935204	0.61394084	1.285713529	0.777778236	1.628821438	1.266861865
52° 07′ 40″ 52° 07′ 50″	0.78938181	0.61390257	1.285842161	0.777700429	1.628922976	1.266814097
<u> </u>	0.78941157	0.61386430	1.285970809	0.777622628	1.629024530	1.266766337

391 52° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
52° 08′ 00″	0.78944133	0.61382603	1.286099473	0.777544833	1.629126101	1.266718583
52° 08′ 10″	0.78947109	0.61378775	1.286228153	0.777467044	1.629227689	1.266670835
52° 08′ 20″	0.78950084	0.61374948	1.286356849	0.777389261	1.629329292	1.266623094
52° 08′ 30″	0.78953060	0.61371120	1.286485561	0.777311483	1.629430913	1.266575360
52° 08′ 40″	0.78956035	0.61367292	1.286614289	0.777233712	1.629532549	1.266527632
52° 08′ 50″	0.78959010	0.61363464	1.286743034	0.777155946	1.629634203	1.266479911
52° 09′ 00″	0.78961985	0.61359636	1.286871794	0.777078187	1.629735873	1.266432196
52° 09′ 10″	0.78964960	0.61355808	1.287000570	0.777000433	1.629837559	1.266384488
52° 09′ 20″	0.78967934	0.61351979	1.287129363	0.776922685	1.629939262	1.266336787
52° 09′ 30″	0.78970908	0.61348151	1.287258172	0.776844942	1.630040981	1.266289092
52° 09′ 40″	0.78973883	0.61344322	1.287386996	0.776767206	1.630142717	1.266241404
52° 09′ 50″	0.78976857	0.61340493	1.287515837	0.776689475	1.630244470	1.266193722
52° 10′ 00″	0.78979830	0.61336664	1.287644694	0.776611751	1.630346239	1.266146047
52° 10′ 10″	0.78982804	0.61332835	1.287773567	0.776534032	1.630448024	1.266098378
52° 10′ 20″	0.78985777	0.61329006	1.287902456	0.776456319	1.630549826	1.266050716
52° 10′ 30″	0.78988751	0.61325177	1.288031361	0.776378612	1.630651645	1.266003060
52° 10′ 40″	0.78991724	0.61321347	1.288160282	0.776300911	1.630753480	1.265955411
52° 10′ 50″	0.78994696	0.61317517	1.288289219	0.776223215	1.630855332	1.265907769
52° 11′ 00″	0.78997669	0.61313687	1.288418173	0.776145526	1.630957200	1.265860133
52° 11′ 10″	0.79000642	0.61309857	1.288547142	0.776067842	1.631059085	1.265812504
52° 11′ 20″	0.79003614	0.61306027	1.288676128	0.775990164	1.631160986	1.265764881
52° 11′ 30″	0.79006586	0.61302197	1.288805130	0.775912492	1.631262904	1.265717265
52° 11′ 40″	0.79009558	0.61298367	1.288934148	0.775834826	1.631364839	1.265669656
52° 11′ 50″	0.79012530	0.61294536	1.289063182	0.775757166	1.631466790	1.265622053
52° 12′ 00″	0.79015501	0.61290705	1.289192232	0.775679511	1.631568758	1.265574456
52° 12′ 10″	0.79018473	0.61286875	1.289321298	0.775601862	1.631670742	1.265526866
52° 12′ 20″	0.79021444	0.61283044	1.289450380	0.775524220	1.631772743	1.265479283
52° 12′ 30″	0.79024415	0.61279212	1.289579479	0.775446583	1.631874760	1.265431706
52° 12′ 40″	0.79027386	0.61275381	1.289708594	0.775368951	1.631976794	1.265384136
52° 12′ 50″	0.79030356	0.61271550	1.289837725	0.775291326	1.632078845	1.265336572
52° 13′ 00″	0.79033327	0.61267718	1.289966872	0.775213707	1.632180912	1.265289015
52° 13′ 10″	0.79036297	0.61263886	1.290096035	0.775136093	1.632282996	1.265241464
52° 13′ 20″ 52° 13′ 30″	0.79039267	0.61260055 0.61256223	1.290225214	0.775058485 0.774980883	1.632385096	1.265193920
52° 13′ 30″ 52° 13′ 40″	0.79042237	0.61252390	1.290354409 1.290483621	0.774980883	1.632487213 1.632589347	1.265146383 1.265098852
52° 13′ 50″	0.79043207	0.61232370	1.290403621	0.774825697	1.6325691497	
52° 14′ 00″	0.79048176	0.61246336	1.290742093	0.774748112	1.632793664	1.265051327 1.265003809
52° 14′ 10″	0.79054114	0.61244726	1.290871353	0.774748112	1.632895848	1.264956298
52° 14′ 10″	0.79057083	0.61240873	1.291000629	0.774570334	1.632978048	1.264736278
52° 14′ 30″	0.79060052	0.61237060	1.291129922	0.774515394	1.632778048	1.264861295
52° 14′ 40″	0.79063021	0.61233227	1.291259231	0.774313374	1.633202498	1.264813803
52° 14′ 50″	0.77065989	0.61225561	1.291388555	0.774360277	1.633304748	1.264766318
52° 15′ 00″	0.77063787	0.61221728	1.291517897	0.774282728	1.633407015	1.264718839
52° 15′ 10″	0.77008737	0.6121728	1.291647254	0.774205184	1.633509299	1.264671367
52° 15′ 20″	0.77071723	0.61217873	1.291776627	0.774203164	1.633611599	1.264623902
52° 15′ 30″	0.79077861	0.61214001	1.291906017	0.774050114	1.633713915	1.264576443
52° 15′ 40″	0.79080828	0.61216227	1.292035423	0.773972588	1.633816249	1.264528990
52° 15′ 50″	0.79083796	0.61202559	1.292164845	0.773895068	1.633918599	1.264481544
	0.17003170	J.01202337	1,2/2/01013	2.773073000	1,033710377	.,_01701314

392 52° 15′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
52° 16′ 00″	0.79086763	0.61198725	1.292294283	0.773817553	1.634020965	1.264434105
52° 16′ 10″	0.79089730	0.61194891	1.292423738	0.773740044	1.634123349	1.264386672
52° 16′ 20″	0.79092696	0.61191056	1.292553209	0.773662541	1.634225749	1.264339245
52° 16′ 30″	0.79095663	0.61187222	1.292682696	0.773585044	1.634328165	1.264291826
52° 16′ 40″	0.79098629	0.61183387	1.292812199	0.773507553	1.634430599	1.264244412
52° 16′ 50″	0.79101595	0.61179552	1.292941718	0.773430067	1.634533049	1.264197005
52° 17′ 00″	0.79104561	0.61175717	1.293071254	0.773352587	1.634635515	1.264149605
52° 17′ 10″	0.79107527	0.61171882	1.293200806	0.773275113	1.634737999	1.264102211
52° 17′ 20″	0.79110493	0.61168047	1.293330374	0.773197645	1.634840499	1.264054824
52° 17′ 30″	0.79113458	0.61164211	1.293459959	0.773120183	1.634943016	1.264007444
52° 17′ 40″	0.79116423	0.61160376	1.293589559	0.773042727	1.635045549	1.263960069
52° 17′ 50″	0.79119388	0.61156540	1.293719176	0.772965276	1.635148099	1.263912702
52° 18′ 00″	0.79122353	0.61152704	1.293848810	0.772887831	1.635250666	1.263865341
52° 18′ 10″	0.79125318	0.61148868	1.293978459	0.772810392	1.635353250	1.263817986
52° 18′ 20″	0.79128282	0.61145032	1.294108125	0.772732959	1.635455850	1.263770638
52° 18′ 30″	0.79131247	0.61141195	1.294237807	0.772655531	1.635558467	1.263723296
52° 18′ 40″	0.79134211	0.61137359	1.294367505	0.772578109	1.635661101	1.263675961
52° 18′ 50″	0.79137175	0.61133522	1.294497220	0.772500694	1.635763752	1.263628633
52° 19′ 00″	0.79140139	0.61129686	1.294626951	0.772423283	1.635866419	1.263581311
52° 19′ 10″	0.79143102	0.61125849	1.294756698	0.772345879	1.635969103	1.263533995
52° 19′ 20″	0.79146065	0.61122012	1.294886461	0.772268481	1.636071804	1.263486686
52° 19′ 30″	0.79149029	0.61118175	1.295016241	0.772191088	1.636174521	1.263439384
52° 19′ 40″	0.79151992	0.61114337	1.295146037	0.772113701	1.636277255	1.263392088
52° 19′ 50″	0.79154954	0.61110500	1.295275849	0.772036320	1.636380006	1.263344798
52° 20′ 00″	0.79157917	0.61106662	1.295405678	0.771958945	1.636482774	1.263297515
52° 20′ 10″	0.79160880	0.61102824	1.295535523	0.771881575	1.636585559	1.263250239
52° 20′ 20″	0.79163842	0.61098986	1.295665384	0.771804211	1.636688360	1.263202969
52° 20′ 30″	0.79166804	0.61095148	1.295795262	0.771726854	1.636791178	1.263155706
52° 20′ 40″	0.79169766	0.61091310	1.295925155	0.771649501	1.636894013	1.263108449
52° 20′ 50″	0.79172727	0.61087472	1.296055066	0.771572155	1.636996864	1.263061198
52° 21′ 00″	0.79175689	0.61083633	1.296184992	0.771494814	1.637099732	1.263013954
52° 21′ 10″	0.79178650	0.61079795	1.296314935	0.771417480	1.637202618	1.262966717
52° 21′ 20″	0.79181611	0.61075956	1.296444894	0.771340151	1.637305519	1.262919486
52° 21′ 30″	0.79184572	0.61072117	1.296574870	0.771262827	1.637408438	1.262872262
52° 21′ 40″	0.79187533	0.61068278	1.296704862	0.771185510	1.637511373	1.262825044
52° 21′ 50″	0.79190494	0.61064439	1.296834870	0.771108198	1.637614326	1.262777832
52° 22′ 00″	0.79193454	0.61060600	1.296964894	0.771030892	1.637717295	1.262730627
52° 22′ 10″	0.79196414	0.61056760	1.297094935	0.770953592	1.637820281	1.262683429
52° 22′ 20″	0.79199374	0.61052921	1.297224993	0.770876298	1.637923283	1.262636237
52° 22′ 30″	0.79202334	0.61049081	1.297355066	0.770799009	1.638026303	1.262589051
52° 22′ 40″	0.79205294	0.61045241	1.297485156	0.770721727	1.638129339	1.262541873
52° 22′ 50″	0.79208253	0.61041401	1.297615263	0.770644450	1.638232392	1.262494700
52° 23′ 00″	0.79211213	0.61037561	1.297745385	0.770567178	1.638335462	1.262447534
52° 23′ 10″	0.79214172	0.61033720	1.297875525	0.770489913	1.638438549	1.262400375
52° 23′ 20″	0.79217131	0.61029880	1.298005680	0.770412653	1.638541652	1.262353222
52° 23′ 30″	0.79220089	0.61026039	1.298135852	0.770335399	1.638644772	1.262306075
52° 23′ 40″	0.79223048	0.61022198	1.298266040	0.770258151	1.638747910	1.262258935
52° 23′ 50″	0.79226006	0.61018357	1.298396245	0.770180909	1.638851064	1.262211802

393 52° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
52° 24′ 00″	0.79228964	0.61014516	1.298526466	0.770103672	1.638954234	1.262164675
52° 24′ 10″	0.79231922	0.61010675	1.298656703	0.770026442	1.639057422	1.262117554
52° 24′ 20″	0.79234880	0.61006834	1.298786957	0.769949216	1.639160627	1.262070440
52° 24′ 30″	0.79237838	0.61002992	1.298917227	0.769871997	1.639263848	1.262023333
52° 24′ 40″	0.79240795	0.60999151	1.299047514	0.769794784	1.639367086	1.261976232
52° 24′ 50″	0.79243752	0.60995309	1.299177817	0.769717576	1.639470341	1.261929137
52° 25′ 00″	0.79246709	0.60991467	1.299308137	0.769640374	1.639573613	1.261882049
52° 25′ 10″	0.79249666	0.60987625	1.299438473	0.769563178	1.639676902	1.261834967
52° 25′ 20″	0.79252623	0.60983783	1.299568825	0.769485987	1.639780208	1.261787892
52° 25′ 30″	0.79255579	0.60979940	1.299699194	0.769408802	1.639883531	1.261740823
52° 25′ 40″	0.79258536	0.60976098	1.299829579	0.769331623	1.639986870	1.261693761
52° 25′ 50″	0.79261492	0.60972255	1.299959980	0.769254450	1.640090226	1.261646705
52° 26′ 00″	0.79264448	0.60968413	1.300090398	0.769177283	1.640193600	1.261599656
52° 26′ 10″	0.79267403	0.60964570	1.300220833	0.769100121	1.640296990	1.261552613
52° 26′ 20″	0.79270359	0.60960727	1.300351284	0.769022965	1.640400397	1.261505577
52° 26′ 30″	0.79273314	0.60956883	1.300481751	0.768945815	1.640503821	1.261458547
52° 26′ 40″	0.79276270	0.60953040	1.300612235	0.768868670	1.640607261	1.261411524
52° 26′ 50″	0.79279225	0.60949196	1.300742735	0.768791532	1.640710719	1.261364507
52° 27′ 00″	0.79282179	0.60945353	1.300873252	0.768714399	1.640814194	1.261317496
52° 27′ 10″	0.79285134	0.60941509	1.301003785	0.768637272	1.640917685	1.261270493
52° 27′ 20″	0.79288088	0.60937665	1.301134335	0.768560150	1.641021194	1.261223495
52° 27′ 30″	0.79291043	0.60933821	1.301264901	0.768483034	1.641124719	1.261176504
52° 27′ 40″	0.79293997	0.60929977	1.301395484	0.768405925	1.641228261	1.261129519
52° 27′ 50″	0.79296951	0.60926133	1.301526083	0.768328820	1.641331820	1.261082541
52° 28′ 00″	0.79299904	0.60922288	1.301656699	0.768251722	1.641435397	1.261035570
52° 28′ 10″	0.79302858	0.60918443	1.301787331	0.768174629	1.641538990	1.260988605
52° 28′ 20″	0.79305811	0.60914599	1.301917979	0.768097542	1.641642600	1.260941646
52° 28′ 30″	0.79308764	0.60910754	1.302048644	0.768020461	1.641746227	1.260894694
52° 28′ 40″	0.79311717	0.60906909	1.302179326	0.767943385	1.641849870	1.260847748
52° 28′ 50″	0.79314670	0.60903063	1.302310024	0.767866316	1.641953531	1.260800809
52° 29′ 00″	0.79317623	0.60899218	1.302440739	0.767789252	1.642057209	1.260753876
52° 29′ 10″	0.79320575	0.60895373	1.302571470	0.767712193	1.642160904	1.260706949
52° 29′ 20″	0.79323527	0.60891527	1.302702217	0.767635141	1.642264615	1.260660029
52° 29′ 30″	0.79326479	0.60887681	1.302832981	0.767558094	1.642368344	1.260613116
52° 29′ 40″	0.79329431	0.60883835	1.302963762	0.767481053	1.642472090	1.260566209
52° 29′ 50″	0.79332383	0.60879989	1.303094559	0.767404018	1.642575852	1.260519308
52° 30′ 00″	0.79335334	0.60876143	1.303225373	0.767326988	1.642679632	1.260472414
52° 30′ 10″	0.79338285	0.60872297	1.303356203	0.767249964	1.642783428	1.260425526
52° 30′ 20″	0.79341236	0.60868450	1.303487050	0.767172946	1.642887242	1.260378645
52° 30′ 30″	0.79344187	0.60864603	1.303617913	0.767095934	1.642991072	1.260331770
52° 30′ 40″	0.79347138	0.60860757	1.303748793	0.767018927	1.643094920	1.260284902
52° 30′ 50″	0.79350088	0.60856910	1.303879689	0.766941926	1.643198784	1.260238040
52° 31′ 00″	0.79353039	0.60853063	1.304010602	0.766864931	1.643302666	1.260191185
52° 31′ 10″	0.79355989	0.60849215	1.304141532	0.766787941	1.643406564	1.260144336
52° 31′ 20″	0.79358939	0.60845368	1.304272478	0.766710957	1.643510479	1.260097493
52° 31′ 30″	0.79361889	0.60841521	1.304403440	0.766633979	1.643614412	1.260050657
52° 31′ 40″ 52° 31′ 50″	0.79364838	0.60837673	1.304534420	0.766557007	1.643718361	1.260003827
<u> </u>	0.79367788	0.60833825	1.304665415	0.766480040	1.643822328	1.259957004

394 52° 31′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	$\sec(x)$	$\csc(x)$
52° 32′ 00″	0.79370737	0.60829977	1.304796428	0.766403079	1.643926311	1.259910187
52° 32′ 10″	0.79373686	0.60826129	1.304927456	0.766326124	1.644030312	1.259863377
52° 32′ 20″	0.79376635	0.60822281	1.305058502	0.766249175	1.644134329	1.259816573
52° 32′ 30″	0.79379583	0.60818433	1.305189564	0.766172231	1.644238364	1.259769776
52° 32′ 40″	0.79382532	0.60814584	1.305320643	0.766095293	1.644342416	1.259722985
52° 32′ 50″	0.79385480	0.60810735	1.305451738	0.766018361	1.644446484	1.259676200
52° 33′ 00″	0.79388428	0.60806887	1.305582850	0.765941434	1.644550570	1.259629422
52° 33′ 10″	0.79391376	0.60803038	1.305713978	0.765864513	1.644654673	1.259582650
52° 33′ 20″	0.79394324	0.60799189	1.305845123	0.765787598	1.644758792	1.259535885
52° 33′ 30″	0.79397271	0.60795339	1.305976285	0.765710688	1.644862929	1.259489126
52° 33′ 40″	0.79400219	0.60791490	1.306107463	0.765633785	1.644967083	1.259442374
52° 33′ 50″	0.79403166	0.60787641	1.306238658	0.765556887	1.645071254	1.259395628
52° 34′ 00″	0.79406113	0.60783791	1.306369869	0.765479994	1.645175442	1.259348888
52° 34′ 10″	0.79409060	0.60779941	1.306501097	0.765403108	1.645279647	1.259302155
52° 34′ 20″	0.79412006	0.60776091	1.306632342	0.765326227	1.645383869	1.259255428
52° 34′ 30″	0.79414953	0.60772241	1.306763603	0.765249351	1.645488108	1.259208708
52° 34′ 40″	0.79417899	0.60768391	1.306894881	0.765172482	1.645592365	1.259161994
52° 34′ 50″	0.79420845	0.60764540	1.307026176	0.765095618	1.645696638	1.259115287
52° 35′ 00″	0.79423791	0.60760690	1.307157487	0.765018760	1.645800929	1.259068586
52° 35′ 10″	0.79426737	0.60756839	1.307288815	0.764941908	1.645905236	1.259021891
52° 35′ 20″	0.79429682	0.60752989	1.307420160	0.764865061	1.646009561	1.258975203
52° 35′ 30″	0.79432627	0.60749138	1.307551521	0.764788220	1.646113902	1.258928521
52° 35′ 40″	0.79435572	0.60745287	1.307682899	0.764711385	1.646218261	1.258881846
52° 35′ 50″	0.79438517	0.60741435	1.307814293	0.764634555	1.646322637	1.258835177
52° 36′ 00″	0.79441462	0.60737584	1.307945704	0.764557731	1.646427030	1.258788514
52° 36′ 10″	0.79444407	0.60733732	1.308077132	0.764480913	1.646531440	1.258741858
52° 36′ 20″	0.79447351	0.60729881	1.308208577	0.764404100	1.646635868	1.258695209
52° 36′ 30″	0.79450295	0.60726029	1.308340038	0.764327293	1.646740312	1.258648565
52° 36′ 40″	0.79453239	0.60722177	1.308471516	0.764250492	1.646844773	1.258601929
52° 36′ 50″	0.79456183	0.60718325	1.308603010	0.764173697	1.646949252	1.258555298
52° 37′ 00″	0.79459127	0.60714473	1.308734522	0.764096907	1.647053748	1.258508674
52° 37′ 10″	0.79462070	0.60710620	1.308866050	0.764020123	1.647158261	1.258462057
52° 37′ 20″	0.79465013	0.60706768	1.308997594	0.763943344	1.647262791	1.258415446
52° 37′ 30″	0.79467956	0.60702915	1.309129155	0.763866572	1.647367338	1.258368841
52° 37′ 40″	0.79470899	0.60699063	1.309260733	0.763789805	1.647471902	1.258322242
52° 37′ 50″	0.79473842	0.60695210	1.309392328	0.763713043	1.647576484	1.258275651
52° 38′ 00″	0.79476784	0.60691357	1.309523940	0.763636288	1.647681082	1.258229065
52° 38′ 10″	0.79479727	0.60687503	1.309655568	0.763559538	1.647785698	1.258182486
52° 38′ 20″ 52° 38′ 30″	0.79482669	0.60683650	1.309787213	0.763482794	1.647890331	1.258135913
	0.79485611	0.60679796	1.309918874	0.763406055	1.647994981	1.258089347
52° 38′ 40″	0.79488552	0.60675943	1.310050553	0.763329322	1.648099648	1.258042787
52° 38′ 50″ 52° 39′ 00″	0.79491494 0.79494435	0.60672089	1.310182248 1.310313959	0.763252595	1.648204333	1.257996233
52° 39′ 00″ 52° 39′ 10″		0.60668235		0.763175873	1.648309034	1.257949686
52° 39′ 10″ 52° 39′ 20″	0.79497377	0.60664381	1.310445688 1.310577433	0.763099157	1.648413753	1.257903146 1.257856611
52° 39′ 20″ 52° 39′ 30″	0.79500318	0.60660527		0.763022447 0.762945743	1.648518489	
52° 39′ 30″ 52° 39′ 40″		0.60656672	1.310709195	0.762945743	1.648623242	1.257810083
52° 39′ 40″ 52° 39′ 50″	0.79506199 0.79509139	0.60652818 0.60648963	1.310840974 1.310972769	0.762869044	1.648728012 1.648832800	1.257763562 1.257717047
	0.77507137	0.00040703	1.310//2/07	0.702772330	1.040034000	1,43//1/04/

395 52° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
52° 40′ 00″	0.79512080	0.60645109	1.311104581	0.762715663	1.648937604	1.257670538
52° 40′ 10″	0.79515020	0.60641254	1.311236410	0.762638981	1.649042426	1.257624036
52° 40′ 20″	0.79517960	0.60637399	1.311368256	0.762562305	1.649147266	1.257577540
52° 40′ 30″	0.79520899	0.60633543	1.311500119	0.762485634	1.649252122	1.257531050
52° 40′ 40″	0.79523839	0.60629688	1.311631998	0.762408970	1.649356995	1.257484567
52° 40′ 50″	0.79526778	0.60625832	1.311763894	0.762332310	1.649461886	1.257438090
52° 41′ 00″	0.79529717	0.60621977	1.311895807	0.762255657	1.649566794	1.257391620
52° 41′ 10″	0.79532656	0.60618121	1.312027737	0.762179009	1.649671719	1.257345156
52° 41′ 20″	0.79535595	0.60614265	1.312159683	0.762102367	1.649776662	1.257298699
52° 41′ 30″	0.79538534	0.60610409	1.312291646	0.762025730	1.649881621	1.257252247
52° 41′ 40″	0.79541472	0.60606553	1.312423626	0.761949099	1.649986598	1.257205803
52° 41′ 50″	0.79544410	0.60602697	1.312555623	0.761872474	1.650091592	1.257159364
52° 42′ 00″	0.79547348	0.60598840	1.312687636	0.761795855	1.650196604	1.257112932
52° 42′ 10″	0.79550286	0.60594983	1.312819667	0.761719241	1.650301632	1.257066507
52° 42′ 20″	0.79553224	0.60591127	1.312951714	0.761642633	1.650406678	1.257020087
52° 42′ 30″	0.79556161	0.60587270	1.313083778	0.761566030	1.650511741	1.256973674
52° 42′ 40″	0.79559098	0.60583413	1.313215859	0.761489433	1.650616822	1.256927268
52° 42′ 50″	0.79562035	0.60579555	1.313347956	0.761412842	1.650721919	1.256880868
52° 43′ 00″	0.79564972	0.60575698	1.313480071	0.761336256	1.650827034	1.256834474
52° 43′ 10″	0.79567909	0.60571841	1.313612202	0.761259676	1.650932166	1.256788087
52° 43′ 20″	0.79570845	0.60567983	1.313744350	0.761183102	1.651037316	1.256741706
52° 43′ 30″	0.79573782	0.60564125	1.313876515	0.761106533	1.651142482	1.256695331
52° 43′ 40″	0.79576718	0.60560267	1.314008697	0.761029971	1.651247666	1.256648963
52° 43′ 50″	0.79579654	0.60556409	1.314140896	0.760953413	1.651352868	1.256602601
52° 44′ 00″	0.79582590	0.60552551	1.314273111	0.760876861	1.651458086	1.256556246
52° 44′ 10″	0.79585525	0.60548693	1.314405344	0.760800315	1.651563322	1.256509896
52° 44′ 20″	0.79588461	0.60544834	1.314537593	0.760723775	1.651668575	1.256463554
52° 44′ 30″	0.79591396	0.60540976	1.314669859	0.760647240	1.651773846	1.256417217
52° 44′ 40″	0.79594331	0.60537117	1.314802142	0.760570711	1.651879134	1.256370887
52° 44′ 50″	0.79597266	0.60533258	1.314934441	0.760494188	1.651984439	1.256324564
52° 45′ 00″	0.79600200	0.60529399	1.315066758	0.760417670	1.652089761	1.256278247
52° 45′ 10″	0.79603135	0.60525540	1.315199092	0.760341158	1.652195101	1.256231936
52° 45′ 20″	0.79606069	0.60521680	1.315331442	0.760264651	1.652300458	1.256185631
52° 45′ 30″	0.79609003	0.60517821	1.315463809	0.760188150	1.652405832	1.256139333
52° 45′ 40″	0.79611937	0.60513961	1.315596193	0.760111655	1.652511224	1.256093041
52° 45′ 50″	0.79614871	0.60510101	1.315728594	0.760035165	1.652616633	1.256046756
52° 46′ 00″	0.79617804	0.60506241	1.315861012	0.759958682	1.652722059	1.256000477
52° 46′ 10″	0.79620738	0.60502381	1.315993447	0.759882203	1.652827503	1.255954204
52° 46′ 20″	0.79623671	0.60498521	1.316125899	0.759805730	1.652932964	1.255907938
52° 46′ 30″	0.79626604	0.60494661	1.316258368	0.759729263	1.653038442	1.255861678
52° 46′ 40″	0.79629536	0.60490800	1.316390853	0.759652802	1.653143938	1.255815424
52° 46′ 50″	0.79632469	0.60486940	1.316523356	0.759576346	1.653249451	1.255769177
52° 47′ 00″	0.79635401	0.60483079	1.316655875	0.759499896	1.653354981	1.255722936
52° 47′ 10″	0.79638334	0.60479218	1.316788411	0.759423451	1.653460529	1.255676701
52° 47′ 20″	0.79641266	0.60475357	1.316920964	0.759347012	1.653566094	1.255630473
52° 47′ 30″	0.79644197	0.60471496	1.317053535	0.759270579	1.653671676	1.255584251
52° 47′ 40″ 52° 47′ 50″	0.79647129	0.60467635	1.317186122	0.759194152	1.653777276	1.255538036
=======================================	0.79650061	0.60463773	1.317318726	0.759117729	1.653882893	1.255491827

396 52° 47′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
52° 48′ 00″	0.79652992	0.60459911	1.317451347	0.759041313	1.653988528	1.255445624
52° 48′ 10″	0.79655923	0.60456050	1.317583984	0.758964902	1.654094180	1.255399428
52° 48′ 20″	0.79658854	0.60452188	1.317716639	0.758888497	1.654199849	1.255353238
52° 48′ 30″	0.79661784	0.60448326	1.317849311	0.758812098	1.654305536	1.255307054
52° 48′ 40″	0.79664715	0.60444464	1.317982000	0.758735704	1.654411240	1.255260876
52° 48′ 50″	0.79667645	0.60440601	1.318114706	0.758659315	1.654516962	1.255214705
52° 49′ 00″	0.79670576	0.60436739	1.318247428	0.758582933	1.654622701	1.255168541
52° 49′ 10″	0.79673505	0.60432876	1.318380168	0.758506556	1.654728457	1.255122382
52° 49′ 20″	0.79676435	0.60429013	1.318512924	0.758430184	1.654834231	1.255076230
52° 49′ 30″	0.79679365	0.60425151	1.318645698	0.758353818	1.654940022	1.255030085
52° 49′ 40″	0.79682294	0.60421288	1.318778489	0.758277458	1.655045831	1.254983945
52° 49′ 50″	0.79685223	0.60417424	1.318911296	0.758201103	1.655151657	1.254937813
52° 50′ 00″	0.79688152	0.60413561	1.319044121	0.758124754	1.655257500	1.254891686
52° 50′ 10″	0.79691081	0.60409698	1.319176962	0.758048411	1.655363361	1.254845566
52° 50′ 20″	0.79694010	0.60405834	1.319309821	0.757972073	1.655469239	1.254799452
52° 50′ 30″	0.79696938	0.60401970	1.319442696	0.757895741	1.655575135	1.254753344
52° 50′ 40″	0.79699867	0.60398106	1.319575589	0.757819415	1.655681048	1.254707243
52° 50′ 50″	0.79702795	0.60394242	1.319708498	0.757743094	1.655786979	1.254661148
52° 51′ 00″	0.79705723	0.60390378	1.319841425	0.757666778	1.655892927	1.254615059
52° 51′ 10″	0.79708650	0.60386514	1.319974368	0.757590469	1.655998893	1.254568977
52° 51′ 20″	0.79711578	0.60382649	1.320107329	0.757514164	1.656104876	1.254522901
52° 51′ 30″	0.79714505	0.60378785	1.320240306	0.757437866	1.656210876	1.254476831
52° 51′ 40″	0.79717432	0.60374920	1.320373301	0.757361573	1.656316894	1.254430768
52° 51′ 50″	0.79720359	0.60371055	1.320506312	0.757285286	1.656422929	1.254384711
52° 52′ 00″	0.79723286	0.60367190	1.320639341	0.757209004	1.656528982	1.254338661
52° 52′ 10″	0.79726213	0.60363325	1.320772387	0.757132728	1.656635053	1.254292616
52° 52′ 20″	0.79729139	0.60359460	1.320905449	0.757056457	1.656741140	1.254246578
52° 52′ 30″	0.79732065	0.60355594	1.321038529	0.756980192	1.656847246	1.254200547
52° 52′ 40″	0.79734991	0.60351729	1.321171626	0.756903933	1.656953368	1.254154522
52° 52′ 50″	0.79737917	0.60347863	1.321304740	0.756827679	1.657059509	1.254108503
52° 53′ 00″	0.79740843	0.60343997	1.321437871	0.756751431	1.657165666	1.254062490
52° 53′ 10″	0.79743768	0.60340131	1.321571019	0.756675189	1.657271842	1.254016484
52° 53′ 20″	0.79746694	0.60336265	1.321704184	0.756598952	1.657378034	1.253970484
52° 53′ 30″	0.79749619	0.60332399	1.321837366	0.756522721	1.657484245	1.253924490
52° 53′ 40″	0.79752544	0.60328532	1.321970565	0.756446495	1.657590472	1.253878503
52° 53′ 50″	0.79755468	0.60324665	1.322103781	0.756370275	1.657696718	1.253832522
52° 54′ 00″	0.79758393	0.60320799	1.322237014	0.756294060	1.657802981	1.253786547
52° 54′ 10″	0.79761317	0.60316932	1.322370265	0.756217851	1.657909261	1.253740579
52° 54′ 20″	0.79764241	0.60313065	1.322503532	0.756141648	1.658015559	1.253694616
52° 54′ 30″	0.79767165	0.60309198	1.322636817	0.756065450	1.658121874	1.253648661
52° 54′ 40″	0.79770089	0.60305330	1.322770119	0.755989258	1.658228207	1.253602711
52° 54′ 50″	0.79773013	0.60301463	1.322903437	0.755913071	1.658334558	1.253556768
52° 55′ 00″	0.79775936	0.60297595	1.323036773	0.755836890	1.658440926	1.253510831
52° 55′ 10″	0.79778859	0.60293728	1.323170126	0.755760714	1.658547311	1.253464901
52° 55′ 20″	0.79781782	0.60289860	1.323303496	0.755684545	1.658653714	1.253418977
52° 55′ 30″	0.79784705	0.60285992	1.323436884	0.755608380	1.658760135	1.253373059
52° 55′ 40″	0.79787628	0.60282124	1.323570288	0.755532222	1.658866573	1.253327147
52° 55′ 50″	0.79790550	0.60278255	1.323703709	0.755456068	1.658973029	1.253281242
=======================================	0.77770330	0.002/0233	1.343/03/07	0.733+30000	1.030//3027	1,433401444

397 52° 55′ 50″

<u> x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
52° 56′ 00″	0.79793473	0.60274387	1.323837148	0.755379921	1.659079502	1.253235343
52° 56′ 10″	0.79796395	0.60270518	1.323970604	0.755303779	1.659185993	1.253189450
52° 56′ 20″	0.79799317	0.60266650	1.324104076	0.755227642	1.659292501	1.253143564
52° 56′ 30″	0.79802238	0.60262781	1.324237566	0.755151512	1.659399027	1.253097684
52° 56′ 40″	0.79805160	0.60258912	1.324371074	0.755075386	1.659505571	1.253051810
52° 56′ 50″	0.79808081	0.60255043	1.324504598	0.754999267	1.659612132	1.253005943
52° 57′ 00″	0.79811002	0.60251173	1.324638139	0.754923153	1.659718711	1.252960082
52° 57′ 10″	0.79813923	0.60247304	1.324771698	0.754847044	1.659825307	1.252914227
52° 57′ 20″	0.79816844	0.60243435	1.324905274	0.754770941	1.659931921	1.252868378
52° 57′ 30″	0.79819765	0.60239565	1.325038866	0.754694844	1.660038553	1.252822536
52° 57′ 40″	0.79822685	0.60235695	1.325172476	0.754618752	1.660145202	1.252776700
52° 57′ 50″	0.79825605	0.60231825	1.325306104	0.754542665	1.660251869	1.252730871
52° 58′ 00″	0.79828525	0.60227955	1.325439748	0.754466585	1.660358553	1.252685047
52° 58′ 10″	0.79831445	0.60224085	1.325573410	0.754390510	1.660465255	1.252639230
52° 58′ 20″	0.79834365	0.60220214	1.325707088	0.754314440	1.660571975	1.252593419
52° 58′ 30″	0.79837284	0.60216344	1.325840784	0.754238376	1.660678712	1.252547615
52° 58′ 40″	0.79840204	0.60212473	1.325974497	0.754162318	1.660785467	1.252501817
52° 58′ 50″	0.79843123	0.60208602	1.326108228	0.754086265	1.660892240	1.252456025
52° 59′ 00″	0.79846042	0.60204731	1.326241975	0.754010217	1.660999030	1.252410239
52° 59′ 10″	0.79848960	0.60200860	1.326375740	0.753934176	1.661105838	1.252364460
52° 59′ 20″	0.79851879	0.60196989	1.326509522	0.753858139	1.661212663	1.252318687
52° 59′ 30″	0.79854797	0.60193117	1.326643321	0.753782109	1.661319506	1.252272921
52° 59′ 40″	0.79857715	0.60189246	1.326777137	0.753706084	1.661426367	1.252227160
52° 59′ 50″	0.79860633	0.60185374	1.326910971	0.753630064	1.661533245	1.252181406
53° 00′ 00″	0.79863551	0.60181502	1.327044822	0.753554050	1.661640141	1.252135658
53° 00′ 10″	0.79866469	0.60177630	1.327178690	0.753478042	1.661747055	1.252089917
53° 00′ 20″	0.79869386	0.60173758	1.327312575	0.753402039	1.661853986	1.252044181
53° 00′ 30″	0.79872303	0.60169886	1.327446477	0.753326041	1.661960935	1.251998452
53° 00′ 40″	0.79875220	0.60166014	1.327580397	0.753250050	1.662067902	1.251952730
53° 00′ 50″	0.79878137	0.60162141	1.327714334	0.753174063	1.662174886	1.251907013
53° 01′ 00″	0.79881054	0.60158268	1.327848288	0.753098083	1.662281888	1.251861303
53° 01′ 10″	0.79883970	0.60154396	1.327982260	0.753022108	1.662388908	1.251815599
53° 01′ 20″	0.79886886	0.60150523	1.328116248	0.752946138	1.662495945	1.251769902
53° 01′ 30″	0.79889803	0.60146650	1.328250254	0.752870174	1.662603001	1.251724210
53° 01′ 40″	0.79892718	0.60142776	1.328384277	0.752794216	1.662710073	1.251678525
53° 01′ 50″	0.79895634	0.60138903	1.328518318	0.752718263	1.662817164	1.251632847
53° 02′ 00″	0.79898550	0.60135029	1.328652375	0.752642315	1.662924272	1.251587174
53° 02′ 10″	0.79901465	0.60131156	1.328786450	0.752566373	1.663031398	1.251541508
53° 02′ 20″	0.79904380	0.60127282	1.328920543	0.752490437	1.663138542	1.251495848
53° 02′ 30″	0.79907295	0.60123408	1.329054652	0.752414506	1.663245703	1.251450194
53° 02′ 40″	0.79910210	0.60119534	1.329188779	0.752338581	1.663352882	1.251404547
53° 02′ 50″	0.79913124	0.60115660	1.329322923	0.752262661	1.663460079	1.251358906
53° 03′ 00″	0.79916039	0.60111785	1.329457085	0.752186747	1.663567293	1.251313271
53° 03′ 10″	0.79918953	0.60107911	1.329591263	0.752110839	1.663674526	1.251267643
53° 03′ 20″	0.79921867	0.60104036	1.329725459	0.752034935	1.663781776	1.251222020
53° 03′ 30″	0.79924781	0.60100161	1.329859673	0.751959038	1.663889043	1.251176404
53° 03′ 40″ 53° 03′ 50″	0.79927695	0.60096286	1.329993903	0.751883146	1.663996329	1.251130795
<u> </u>	0.79930608	0.60092411	1.330128151	0.751807259	1.664103632	1.251085191

398 53° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
53° 04′ 00″	0.79933521	0.60088536	1.330262416	0.751731378	1.664210953	1.251039594
53° 04′ 10″	0.79936434	0.60084661	1.330396699	0.751655503	1.664318292	1.250994003
53° 04′ 20″	0.79939347	0.60080785	1.330530999	0.751579633	1.664425648	1.250948418
53° 04′ 30″	0.79942260	0.60076910	1.330665316	0.751503769	1.664533023	1.250902840
53° 04′ 40″	0.79945172	0.60073034	1.330799651	0.751427910	1.664640415	1.250857268
53° 04′ 50″	0.79948085	0.60069158	1.330934003	0.751352057	1.664747825	1.250811702
53° 05′ 00″	0.79950997	0.60065282	1.331068372	0.751276209	1.664855252	1.250766142
53° 05′ 10″	0.79953909	0.60061406	1.331202758	0.751200367	1.664962697	1.250720589
53° 05′ 20″	0.79956821	0.60057529	1.331337162	0.751124530	1.665070161	1.250675041
53° 05′ 30″	0.79959732	0.60053653	1.331471584	0.751048699	1.665177642	1.250629501
53° 05′ 40″	0.79962644	0.60049776	1.331606022	0.750972873	1.665285140	1.250583966
53° 05′ 50″	0.79965555	0.60045899	1.331740478	0.750897053	1.665392657	1.250538438
53° 06′ 00″	0.79968466	0.60042023	1.331874952	0.750821238	1.665500191	1.250492915
53° 06′ 10″	0.79971377	0.60038145	1.332009442	0.750745429	1.665607743	1.250447400
53° 06′ 20″	0.79974287	0.60034268	1.332143950	0.750669625	1.665715313	1.250401890
53° 06′ 30″	0.79977198	0.60030391	1.332278476	0.750593827	1.665822901	1.250356387
53° 06′ 40″	0.79980108	0.60026513	1.332413019	0.750518035	1.665930506	1.250310889
53° 06′ 50″	0.79983018	0.60022636	1.332547579	0.750442248	1.666038130	1.250265399
53° 07′ 00″	0.79985928	0.60018758	1.332682156	0.750366466	1.666145771	1.250219914
53° 07′ 10″	0.79988838	0.60014880	1.332816751	0.750290690	1.666253430	1.250174436
53° 07′ 20″	0.79991747	0.60011002	1.332951364	0.750214919	1.666361107	1.250128963
53° 07′ 30″	0.79994657	0.60007124	1.333085994	0.750139154	1.666468801	1.250083498
53° 07′ 40″	0.79997566	0.60003246	1.333220641	0.750063395	1.666576514	1.250038038
53° 07′ 50″	0.80000475	0.59999367	1.333355305	0.749987641	1.666684244	1.249992585
53° 08′ 00″	0.80003383	0.59995489	1.333489987	0.749911892	1.666791993	1.249947137
53° 08′ 10″	0.80006292	0.59991610	1.333624687	0.749836149	1.666899759	1.249901697
53° 08′ 20″	0.80009200	0.59987731	1.333759404	0.749760412	1.667007543	1.249856262
53° 08′ 30″	0.80012108	0.59983852	1.333894138	0.749684680	1.667115344	1.249810833
53° 08′ 40″	0.80015016	0.59979973	1.334028890	0.749608954	1.667223164	1.249765411
53° 08′ 50″	0.80017924	0.59976093	1.334163659	0.749533233	1.667331001	1.249719995
53° 09′ 00″	0.80020832	0.59972214	1.334298445	0.749457517	1.667438857	1.249674586
53° 09′ 10″	0.80023739	0.59968334	1.334433249	0.749381807	1.667546730	1.249629182
53° 09′ 20″	0.80026647	0.59964455	1.334568071	0.749306103	1.667654621	1.249583785
53° 09′ 30″	0.80029554	0.59960575	1.334702910	0.749230404	1.667762530	1.249538394
53° 09′ 40″	0.80032461	0.59956695	1.334837766	0.749154710	1.667870457	1.249493009
53° 09′ 50″ 53° 10′ 00″	0.80035367	0.59952815	1.334972640	0.749079022	1.667978402	1.249447631
53° 10′ 00″ 53° 10′ 10″	0.80038274	0.59948934	1.335107531	0.749003340	1.668086365	1.249402258
53° 10′ 10″ 53° 10′ 20″	0.80041180	0.59945054	1.335242440	0.748927663	1.668194345	1.249356892
53° 10′ 20″ 53° 10′ 30″	0.80044086	0.59941173 0.59937293	1.335377366 1.335512310	0.748851992 0.748776326	1.668302344	1.249311532 1.249266179
53° 10′ 40″	0.80048772	0.59933412	1.335647271		1.668410360 1.668518394	1.249220832
53° 10′ 40″ 53° 10′ 50″	0.80049898	0.59933412	1.335782249	0.748700665 0.748625010	1.668626447	1.249220832
53° 11′ 00″	0.80052805	0.59925650	1.335782249	0.748549361	1.668734517	1.249173490
53° 11′ 10″	0.80058614	0.59921768	1.336052259	0.748473717	1.668842605	1.249130133
53° 11′ 20″	0.80058614	0.59917887	1.336187290	0.748398078	1.668950711	1.249039504
53° 11′ 30″	0.80061317	0.59914005	1.336322339	0.748322445	1.669058835	1.248994188
53° 11′ 40″	0.80067328	0.59910124	1.336322337	0.748246818	1.669166976	1.248948878
53° 11′ 50″	0.80070233	0.59906242	1.336592488	0.748171195	1.669275136	1.248903574
=======================================	0.00070233	0.37700242	1.3303/2400	0.770171173	1.00/2/3130	1.470/033/4

399 53° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
53° 12′ 00″	0.80073137	0.59902360	1.336727590	0.748095579	1.669383314	1.248858277
53° 12′ 10″	0.80076041	0.59898478	1.336862708	0.748019968	1.669491510	1.248812985
53° 12′ 20″	0.80078945	0.59894595	1.336997844	0.747944362	1.669599723	1.248767700
53° 12′ 30″	0.80081849	0.59890713	1.337132998	0.747868762	1.669707955	1.248722421
53° 12′ 40″	0.80084752	0.59886831	1.337268169	0.747793168	1.669816204	1.248677149
53° 12′ 50″	0.80087655	0.59882948	1.337403358	0.747717578	1.669924472	1.248631882
53° 13′ 00″	0.80090559	0.59879065	1.337538564	0.747641995	1.670032757	1.248586622
53° 13′ 10″	0.80093462	0.59875182	1.337673788	0.747566417	1.670141061	1.248541368
53° 13′ 20″	0.80096364	0.59871299	1.337809029	0.747490844	1.670249382	1.248496120
53° 13′ 30″	0.80099267	0.59867416	1.337944288	0.747415277	1.670357721	1.248450878
53° 13′ 40″	0.80102169	0.59863532	1.338079564	0.747339715	1.670466079	1.248405643
53° 13′ 50″	0.80105071	0.59859649	1.338214858	0.747264159	1.670574454	1.248360414
53° 14′ 00″	0.80107973	0.59855765	1.338350170	0.747188608	1.670682848	1.248315191
53° 14′ 10″	0.80110875	0.59851881	1.338485499	0.747113062	1.670791259	1.248269974
53° 14′ 20″	0.80113777	0.59847997	1.338620845	0.747037523	1.670899688	1.248224763
53° 14′ 30″	0.80116678	0.59844113	1.338756210	0.746961988	1.671008136	1.248179559
53° 14′ 40″	0.80119579	0.59840229	1.338891591	0.746886459	1.671116601	1.248134361
53° 14′ 50″	0.80122480	0.59836345	1.339026991	0.746810936	1.671225084	1.248089169
53° 15′ 00″	0.80125381	0.59832460	1.339162408	0.746735418	1.671333586	1.248043983
53° 15′ 10″	0.80128282	0.59828575	1.339297842	0.746659905	1.671442105	1.247998804
53° 15′ 20″	0.80131182	0.59824691	1.339433294	0.746584398	1.671550642	1.247953630
53° 15′ 30″	0.80134083	0.59820806	1.339568764	0.746508897	1.671659198	1.247908463
53° 15′ 40″	0.80136983	0.59816921	1.339704251	0.746433401	1.671767771	1.247863302
53° 15′ 50″	0.80139883	0.59813035	1.339839756	0.746357910	1.671876363	1.247818148
53° 16′ 00″	0.80142782	0.59809150	1.339975279	0.746282425	1.671984972	1.247772999
53° 16′ 10″	0.80145682	0.59805264	1.340110819	0.746206945	1.672093600	1.247727857
53° 16′ 20″	0.80148581	0.59801379	1.340246377	0.746131471	1.672202245	1.247682721
53° 16′ 30″	0.80151480	0.59797493	1.340381952	0.746056002	1.672310909	1.247637591
53° 16′ 40″	0.80154379	0.59793607	1.340517545	0.745980539	1.672419591	1.247592467
53° 16′ 50″	0.80157278	0.59789721	1.340653155	0.745905081	1.672528291	1.247547350
53° 17′ 00″	0.80160177	0.59785835	1.340788784	0.745829628	1.672637009	1.247502238
53° 17′ 10″	0.80163075	0.59781949	1.340924429	0.745754181	1.672745744	1.247457133
53° 17′ 20″	0.80165973	0.59778062	1.341060093	0.745678740	1.672854498	1.247412034
53° 17′ 30″	0.80168871	0.59774175	1.341195774	0.745603304	1.672963270	1.247366941
53° 17′ 40″	0.80171769	0.59770289	1.341331473	0.745527873	1.673072061	1.247321855
53° 17′ 50″	0.80174667	0.59766402	1.341467189	0.745452448	1.673180869	1.247276774
53° 18′ 00″	0.80177564	0.59762515	1.341602923	0.745377028	1.673289695	1.247231700
53° 18′ 10″	0.80180462	0.59758628	1.341738675	0.745301614	1.673398540	1.247186632
53° 18′ 20″	0.80183359	0.59754740	1.341874444	0.745226205	1.673507402	1.247141570
53° 18′ 30″	0.80186256	0.59750853	1.342010232	0.745150802	1.673616283	1.247096515
53° 18′ 40″	0.80189152	0.59746965	1.342146036	0.745075404	1.673725181	1.247051465
53° 18′ 50″	0.80192049	0.59743077	1.342281859	0.745000011	1.673834098	1.247006422
53° 19′ 00″	0.80194945	0.59739189	1.342417699	0.744924624	1.673943033	1.246961385
53° 19′ 10″	0.80197841	0.59735301	1.342553557	0.744849243	1.674051986	1.246916354
53° 19′ 20″	0.80200737	0.59731413	1.342689432	0.744773867	1.674160957	1.246871330
53° 19′ 30″	0.80203633	0.59727525	1.342825325	0.744698496	1.674269947	1.246826311
53° 19′ 40″ 53° 19′ 50″	0.80206529	0.59723636 0.59719748	1.342961236	0.744623131	1.674378954	1.246781299
<u> </u>	0.80209424	0.37/17/48	1.343097165	0.744547771	1.674487979	1.246736293

400 53° 19′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
53° 20′ 00″	0.80212319	0.59715859	1.343233111	0.744472417	1.674597023	1.246691293
53° 20′ 10″	0.80212317	0.59711970	1.343369075	0.744397068	1.674706085	1.246646299
53° 20′ 20″	0.80213214	0.59708081	1.343505056	0.744377088	1.674706063	1.246601311
53° 20′ 30″	0.80218107	0.59704192	1.343641056	0.744246386	1.674924263	1.246556330
53° 20′ 40″	0.80221004	0.59700303	1.343777073	0.744171054	1.674724263	1.246511354
53° 20′ 50″	0.80225878	0.59696413	1.343777073	0.744171034	1.675142514	1.246311334
53° 21′ 00″	0.80229687	0.57676413	1.344049160	0.744020405	1.675142514	1.246421422
53° 21′ 10″	0.80227687	0.59688634	1.344185231	0.743945088	1.675360837	1.246376466
53° 21′ 20″	0.80232380	0.59684744	1.344321319	0.743869777	1.675470026	1.246376466
53° 21′ 30″	0.80233474	0.57684744	1.344457424	0.743794472	1.675579233	1.246331313
53° 21′ 40″	0.80238388	0.59676964	1.344593548	0.743774472	1.675688458	1.246241633
53° 21′ 50″	0.80241261	0.59673074	1.344729689	0.743643877	1.675797702	1.246196701
53° 22′ 00″	0.80244134	0.59669183	1.344865848	0.743568588	1.6757977702	1.246151775
53° 22′ 10″	0.80247047	0.57667183	1.345002025	0.743493305	1.676016243	1.246106855
53° 22′ 20″	0.80252832	0.57663273	1.345138219	0.743418026	1.676016243	1.24616833
53° 22′ 30″	0.80252832	0.59657511	1.345138219	0.743418026	1.676123341	1.246061941
53° 22′ 40″	0.80253725	0.59653620	1.345410662	0.743267486	1.676344192	1.245972133
53° 22′ 50″	0.80258617	0.59649729	1.345546909	0.743267466	1.676344192	1.245927238
53° 23′ 00″	0.80261307	0.57647727	1.345683175	0.743172224	1.676562915	1.245727238
53° 23′ 10″	0.80264401	0.57643636	1.345819458	0.743116767	1.676562713	1.245837466
53° 23′ 20″	0.80267272	0.59638055	1.345955760	0.743041716	1.676781711	1.245792590
53° 23′ 30″	0.80270184	0.57636033	1.345933760	0.742891230	1.676891137	1.245747719
53° 23′ 40″	0.80275966	0.57634163	1.346228415	0.742815995	1.677000580	1.245702855
53° 23′ 50″	0.80273766	0.57630272	1.346364770	0.742740766	1.677000380	1.245762833
53° 24′ 00″	0.80278837	0.57626380	1.346501142	0.742740766	1.677110042	1.245613145
53° 24′ 10″	0.80284638	0.57622487	1.346637532	0.742590323	1.677329021	1.245568299
53° 24′ 20″	0.80287528	0.57616373	1.346773940	0.742515110	1.677438537	1.245523459
53° 24′ 30″	0.80290418	0.59610810	1.346910366	0.742439902	1.677548072	1.245478626
53° 24′ 40″	0.80270418	0.59606918	1.347046810	0.742364699	1.677657625	1.245433799
53° 24′ 50″	0.80275300	0.59603025	1.347183271	0.742289502	1.677767197	1.245388978
53° 25′ 00″	0.80270178	0.57503023	1.347319750	0.742214311	1.677876786	1.245344163
53° 25′ 10″	0.80301977	0.59595239	1.347456248	0.742139125	1.677986394	1.245299354
53° 25′ 20″	0.80304866	0.59591346	1.347592762	0.742063944	1.678096020	1.245254551
53° 25′ 30″	0.80307755	0.59587452	1.347729295	0.741988768	1.678205665	1.245209754
53° 25′ 40″	0.80310644	0.59583559	1.347865846	0.741913599	1.678315327	1.245164964
53° 25′ 50″	0.80313532	0.59579665	1.348002414	0.741838434	1.678425008	1.245120180
53° 26′ 00″	0.80316421	0.59575771	1.348139001	0.741763275	1.678534708	1.245075402
53° 26′ 10″	0.80319309	0.59571877	1.348275605	0.741688121	1.678644425	1.245030630
53° 26′ 20″	0.80322197	0.59567983	1.348412227	0.741612973	1.678754161	1.244985864
53° 26′ 30″	0.80325085	0.59564089	1.348548867	0.741537830	1.678863915	1.244941104
53° 26′ 40″	0.80327973	0.59560195	1.348685524	0.741462692	1.678973688	1.244896351
53° 26′ 50″	0.80330860	0.59556300	1.348822200	0.741387560	1.679083478	1.244851603
53° 27′ 00″	0.80333747	0.59552406	1.348958893	0.741312433	1.679193287	1.244806862
53° 27′ 10″	0.80336634	0.59548511	1.349095605	0.741237312	1.679303115	1.244762127
53° 27′ 20″	0.80339521	0.59544616	1.349232334	0.741162196	1.679412960	1.244717398
53° 27′ 30″	0.80342408	0.59540721	1.349369081	0.741087086	1.679522824	1.244672675
53° 27′ 40″	0.80342408	0.57536826	1.349505846	0.741011981	1.679632707	1.244627959
53° 27′ 50″	0.80348181	0.57530020	1.349642629	0.741011781	1.679742607	1.244583248
=======================================	0.00370101	0.3/334/31	1.57/07/04/	0.7 TU/JU001	1.0///4400/	1,477303440

401 53° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
53° 28′ 00″	0.80351067	0.59529035	1.349779430	0.740861787	1.679852526	1.244538544
53° 28′ 10″	0.80353953	0.59525140	1.349916249	0.740786698	1.679962464	1.244493845
53° 28′ 20″	0.80356839	0.59521244	1.350053085	0.740711614	1.680072419	1.244449153
53° 28′ 30″	0.80359724	0.59517348	1.350189940	0.740636536	1.680182393	1.244404467
53° 28′ 40″	0.80362610	0.59513452	1.350326813	0.740561463	1.680292385	1.244359787
53° 28′ 50″	0.80365495	0.59509556	1.350463703	0.740486396	1.680402396	1.244315114
53° 29′ 00″	0.80368380	0.59505659	1.350600611	0.740411334	1.680512425	1.244270446
53° 29′ 10″	0.80371265	0.59501763	1.350737538	0.740336277	1.680622473	1.244225785
53° 29′ 20″	0.80374149	0.59497866	1.350874482	0.740261226	1.680732538	1.244181129
53° 29′ 30″	0.80377034	0.59493970	1.351011444	0.740186180	1.680842622	1.244136480
53° 29′ 40″	0.80379918	0.59490073	1.351148424	0.740111140	1.680952725	1.244091837
53° 29′ 50″	0.80382802	0.59486176	1.351285422	0.740036105	1.681062846	1.244047200
53° 30′ 00″	0.80385686	0.59482279	1.351422438	0.739961075	1.681172985	1.244002569
53° 30′ 10″	0.80388570	0.59478381	1.351559472	0.739886051	1.681283143	1.243957945
53° 30′ 20″	0.80391453	0.59474484	1.351696524	0.739811032	1.681393319	1.243913326
53° 30′ 30″	0.80394337	0.59470586	1.351833594	0.739736018	1.681503513	1.243868714
53° 30′ 40″	0.80397220	0.59466689	1.351970681	0.739661010	1.681613726	1.243824107
53° 30′ 50″	0.80400103	0.59462791	1.352107787	0.739586007	1.681723957	1.243779507
53° 31′ 00″	0.80402985	0.59458893	1.352244911	0.739511010	1.681834207	1.243734913
53° 31′ 10″	0.80405868	0.59454995	1.352382053	0.739436018	1.681944475	1.243690325
53° 31′ 20″	0.80408750	0.59451097	1.352519213	0.739361031	1.682054761	1.243645743
53° 31′ 30″	0.80411632	0.59447198	1.352656390	0.739286050	1.682165066	1.243601168
53° 31′ 40″	0.80414514	0.59443300	1.352793586	0.739211074	1.682275390	1.243556598
53° 31′ 50″	0.80417396	0.59439401	1.352930800	0.739136104	1.682385731	1.243512034
53° 32′ 00″	0.80420278	0.59435502	1.353068031	0.739061139	1.682496091	1.243467477
53° 32′ 10″	0.80423159	0.59431603	1.353205281	0.738986179	1.682606470	1.243422926
53° 32′ 20″	0.80426040	0.59427704	1.353342549	0.738911225	1.682716867	1.243378381
53° 32′ 30″	0.80428922	0.59423805	1.353479835	0.738836276	1.682827283	1.243333842
53° 32′ 40″	0.80431802	0.59419905	1.353617138	0.738761332	1.682937716	1.243289309
53° 32′ 50″	0.80434683	0.59416006	1.353754460	0.738686394	1.683048169	1.243244782
53° 33′ 00″	0.80437564	0.59412106	1.353891800	0.738611461	1.683158640	1.243200261
53° 33′ 10″	0.80440444	0.59408206	1.354029158	0.738536533	1.683269129	1.243155747
53° 33′ 20″	0.80443324	0.59404307	1.354166534	0.738461611	1.683379637	1.243111238
53° 33′ 30″	0.80446204	0.59400406	1.354303928	0.738386694	1.683490163	1.243066736
53° 33′ 40″	0.80449084	0.59396506	1.354441340	0.738311783	1.683600708	1.243022240
53° 33′ 50″	0.80451963	0.59392606	1.354578770	0.738236877	1.683711271	1.242977750
53° 34′ 00″	0.80454842	0.59388705	1.354716218	0.738161976	1.683821852	1.242933266
53° 34′ 10″	0.80457722	0.59384805	1.354853684	0.738087081	1.683932452	1.242888788
53° 34′ 20″	0.80460601	0.59380904	1.354991168	0.738012191	1.684043071	1.242844316
53° 34′ 30″	0.80463479	0.59377003	1.355128670	0.737937306	1.684153708	1.242799850
53° 34′ 40″ 53° 34′ 50″	0.80466358	0.59373102	1.355266191	0.737862427	1.684264364	1.242755390
53° 34′ 50″ 53° 35′ 00″	0.80469236	0.59369201	1.355403729	0.737787553	1.684375038	1.242710937
53° 35′ 00″ 53° 35′ 10″	0.80472114 0.80474992	0.59365300	1.355541285	0.737712684 0.737637821	1.684485731	1.242666490
53° 35′ 10″ 53° 35′ 20″		0.59361398	1.355678860		1.684596442	1.242622048
53° 35′ 20″ 53° 35′ 30″	0.80477870	0.59357496	1.355816453	0.737562963 0.737488110	1.684707171	1.242577613
53° 35′ 30″ 53° 35′ 40″	0.80480748	0.59353595 0.59349693	1.355954063 1.356091692	0.737488110	1.684817919 1.684928686	1.242533184 1.242488761
53° 35′ 50″	0.80486503	0.59345791	1.356229339	0.737413263	1.685039471	1.242444344
=======================================	0.00400303	U.J/J4J/71	1.550447337	0.131330441	1,003037471	1,47444344

402 53° 35′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
53° 36′ 00″	0.80489380	0.59341889	1.356367004	0.737263585	1.685150275	1.242399933
53° 36′ 10″	0.80492257	0.59337986	1.356504687	0.737188754	1.685261097	1.242355528
53° 36′ 20″	0.80495133	0.59334084	1.356642388	0.737113928	1.685371938	1.242311130
53° 36′ 30″	0.80498010	0.59330181	1.356780108	0.737039108	1.685482798	1.242266737
53° 36′ 40″	0.80500886	0.59326279	1.356917845	0.736964293	1.685593675	1.24222351
53° 36′ 50″	0.80503762	0.59322376	1.357055601	0.736889483	1.685704572	1.242177970
53° 37′ 00″	0.80506638	0.59318473	1.357193374	0.736814679	1.685815487	1.242133596
53° 37′ 10″	0.80509514	0.59314570	1.357331166	0.736739880	1.685926420	1.242089228
53° 37′ 20″	0.80512389	0.59310666	1.357468976	0.736665086	1.686037373	1.242044866
53° 37′ 30″	0.80515265	0.59306763	1.357606804	0.736590298	1.686148343	1.242000510
53° 37′ 40″	0.80518140	0.59302859	1.357744651	0.736515515	1.686259333	1.241956160
53° 37′ 50″	0.80521015	0.59298956	1.357882515	0.736440737	1.686370340	1.241911816
53° 38′ 00″	0.80523890	0.59295052	1.358020398	0.736365965	1.686481367	1.241867478
53° 38′ 10″	0.80526764	0.59291148	1.358158298	0.736291198	1.686592412	1.241823147
53° 38′ 20″	0.80529639	0.59287244	1.358296217	0.736216436	1.686703475	1.241778821
53° 38′ 30″	0.80532513	0.59283339	1.358434154	0.736141680	1.686814558	1.241734502
53° 38′ 40″	0.80535387	0.59279435	1.358572110	0.736066929	1.686925658	1.241690188
53° 38′ 50″	0.80538261	0.59275531	1.358710083	0.735992183	1.687036778	1.241645881
53° 39′ 00″	0.80541135	0.59271626	1.358848075	0.735917443	1.687147916	1.241601580
53° 39′ 10″	0.80544008	0.59267721	1.358986084	0.735842708	1.687259072	1.241557284
53° 39′ 20″	0.80546881	0.59263816	1.359124112	0.735767978	1.687370248	1.241512995
53° 39′ 30″	0.80549755	0.59259911	1.359262158	0.735693254	1.687481441	1.241468712
53° 39′ 40″	0.80552627	0.59256006	1.359400223	0.735618535	1.687592654	1.241424435
53° 39′ 50″	0.80555500	0.59252100	1.359538305	0.735543821	1.687703885	1.241380164
53° 40′ 00″	0.80558373	0.59248195	1.359676406	0.735469113	1.687815135	1.241335900
53° 40′ 10″	0.80561245	0.59244289	1.359814525	0.735394410	1.687926403	1.241291641
53° 40′ 20″	0.80564117	0.59240383	1.359952662	0.735319712	1.688037690	1.241247388
53° 40′ 30″	0.80566989	0.59236477	1.360090817	0.735245020	1.688148996	1.241203142
53° 40′ 40″	0.80569861	0.59232571	1.360228991	0.735170333	1.688260320	1.241158901
53° 40′ 50″	0.80572732	0.59228665	1.360367183	0.735095651	1.688371663	1.241114667
53° 41′ 00″	0.80575604	0.59224759	1.360505393	0.735020975	1.688483025	1.241070438
53° 41′ 10″	0.80578475	0.59220852	1.360643621	0.734946304	1.688594405	1.241026216
53° 41′ 20″	0.80581346	0.59216946	1.360781868	0.734871638	1.688705804	1.240982000
53° 41′ 30″	0.80584217	0.59213039	1.360920133	0.734796978	1.688817221	1.240937790
53° 41′ 40″	0.80587088	0.59209132	1.361058416	0.734722322	1.688928658	1.240893586
53° 41′ 50″	0.80589958	0.59205225	1.361196717	0.734647673	1.689040113	1.240849388
53° 42′ 00″	0.80592828	0.59201318	1.361335036	0.734573028	1.689151586	1.240805196
53° 42′ 10″	0.80595698	0.59197411	1.361473374	0.734498389	1.689263078	1.240761010
53° 42′ 20″	0.80598568	0.59193503	1.361611730	0.734423755	1.689374589	1.240716830
53° 42′ 30″	0.80601438	0.59189596	1.361750104	0.734349127	1.689486119	1.240672656
53° 42′ 40″	0.80604307	0.59185688	1.361888497	0.734274504	1.689597668	1.240628489
53° 42′ 50″	0.80607177	0.59181780	1.362026908	0.734199886	1.689709235	1.240584327
53° 43′ 00″ 53° 43′ 10″	0.80610046	0.59177872	1.362165337	0.734125273	1.689820820	1.240540171
	0.80612915	0.59173964	1.362303784	0.734050666	1.689932425	1.240496022
53° 43′ 20″ 53° 43′ 30″	0.80615783	0.59170055	1.362442250	0.733976064	1.690044048	1.240451878
53° 43′ 30″ 53° 43′ 40″	0.80618652	0.59166147	1.362580734	0.733901467	1.690155690	1.240407741
53° 43′ 40″ 53° 43′ 50″	0.80621520 0.80624389	0.59162238	1.362719236 1.362857757	0.733826876 0.733752290	1.690267351 1.690379030	1.240363610 1.240319484
	0.00024309	0.59158330	1.30403//3/	0.733732270	1.0703/7030	1,240317404

403 53° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
53° 44′ 00″	0.80627257	0.59154421	1.362996296	0.733677709	1.690490728	1.240275365
53° 44′ 10″	0.80630124	0.59150512	1.363134853	0.733603134	1.690602445	1.240231252
53° 44′ 20″	0.80632992	0.59146603	1.363273429	0.733528564	1.690714181	1.240187145
53° 44′ 30″	0.80635859	0.59142693	1.363412023	0.733453999	1.690825935	1.240143044
53° 44′ 40″	0.80638727	0.59138784	1.363550635	0.733379439	1.690937708	1.240098949
53° 44′ 50″	0.80641594	0.59134875	1.363689265	0.733304885	1.691049500	1.240054860
53° 45′ 00″	0.80644460	0.59130965	1.363827914	0.733230336	1.691161311	1.240010777
53° 45′ 10″	0.80647327	0.59127055	1.363966581	0.733155793	1.691273140	1.239966700
53° 45′ 20″	0.80650194	0.59123145	1.364105267	0.733081254	1.691384988	1.239922629
53° 45′ 30″	0.80653060	0.59119235	1.364243971	0.733006721	1.691496855	1.239878564
53° 45′ 40″	0.80655926	0.59115325	1.364382693	0.732932194	1.691608741	1.239834505
53° 45′ 50″	0.80658792	0.59111414	1.364521433	0.732857671	1.691720645	1.239790453
53° 46′ 00″	0.80661658	0.59107504	1.364660192	0.732783154	1.691832569	1.239746406
53° 46′ 10″	0.80664523	0.59103593	1.364798970	0.732708642	1.691944511	1.239702365
53° 46′ 20″	0.80667388	0.59099682	1.364937765	0.732634136	1.692056472	1.239658331
53° 46′ 30″	0.80670253	0.59095771	1.365076579	0.732559635	1.692168451	1.239614302
53° 46′ 40″	0.80673118	0.59091860	1.365215412	0.732485139	1.692280450	1.239570280
53° 46′ 50″	0.80675983	0.59087949	1.365354262	0.732410648	1.692392467	1.239526263
53° 47′ 00″	0.80678848	0.59084038	1.365493131	0.732336163	1.692504503	1.239482253
53° 47′ 10″	0.80681712	0.59080126	1.365632019	0.732261683	1.692616558	1.239438248
53° 47′ 20″	0.80684576	0.59076215	1.365770925	0.732187208	1.692728631	1.239394250
53° 47′ 30″	0.80687440	0.59072303	1.365909849	0.732112738	1.692840724	1.239350258
53° 47′ 40″	0.80690304	0.59068391	1.366048792	0.732038274	1.692952835	1.239306272
53° 47′ 50″	0.80693168	0.59064479	1.366187753	0.731963815	1.693064965	1.239262291
53° 48′ 00″	0.80696031	0.59060567	1.366326733	0.731889362	1.693177114	1.239218317
53° 48′ 10″	0.80698894	0.59056654	1.366465731	0.731814913	1.693289282	1.239174349
53° 48′ 20″	0.80701758	0.59052742	1.366604747	0.731740470	1.693401469	1.239130387
53° 48′ 30″	0.80704620	0.59048829	1.366743782	0.731666032	1.693513674	1.239086431
53° 48′ 40″	0.80707483	0.59044917	1.366882835	0.731591600	1.693625899	1.239042481
53° 48′ 50″	0.80710346	0.59041004	1.367021907	0.731517173	1.693738142	1.238998537
53° 49′ 00″	0.80713208	0.59037091	1.367160997	0.731442751	1.693850404	1.238954599
53° 49′ 10″	0.80716070	0.59033178	1.367300105	0.731368334	1.693962685	1.238910667
53° 49′ 20″ 53° 49′ 30″	0.80718932	0.59029264	1.367439232	0.731293923	1.694074985	1.238866741
53° 49′ 40″	0.80721794 0.80724655	0.59025351 0.59021437	1.367578378 1.367717542	0.731219516 0.731145116	1.694187303 1.694299641	1.238822821 1.238778907
53° 49′ 40″ 53° 49′ 50″	0.80724633	0.59021437	1.367717342	0.731143116	1.694411997	1.238778907
53° 50′ 00″	0.80727318	0.59017524	1.367636724	0.731070720	1.694524373	1.238691097
53° 50′ 10″	0.80733239	0.59009696	1.367773723	0.730776330	1.694636767	1.238647201
53° 50′ 20″	0.80736099	0.59005782	1.368274382	0.730921943	1.694749180	1.238603311
53° 50′ 30″	0.80738960	0.59001867	1.368413638	0.730773190	1.694861612	1.238559428
53° 50′ 40″	0.80738780	0.58997953	1.368552913	0.730698821	1.694974063	1.238515550
53° 50′ 50″	0.80741820	0.58994038	1.368692206	0.730678821	1.695086533	1.238471678
53° 51′ 00″	0.80747541	0.58990124	1.368831517	0.730550099	1.695199022	1.238427812
53° 51′ 10″	0.80747341	0.58986209	1.368970848	0.730330077	1.695311529	1.238383953
53° 51′ 20″	0.80753260	0.58982294	1.369110196	0.730401397	1.695424056	1.238340099
53° 51′ 30″	0.80756119	0.58978379	1.369249563	0.730327054	1.695536601	1.238296251
53° 51′ 40″	0.80758979	0.58974464	1.369388949	0.730252717	1.695649166	1.238252410
53° 51′ 50″	0.80761838	0.58970548	1.369528353	0.730178384	1.695761749	1.238208574
	1.007.01000	2.00770010			.,0,0,01,17	

404 53° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
53° 52′ 00″	0.80764697	0.58966633	1.369667776	0.730104057	1.695874351	1.238164744
53° 52′ 10″	0.80767555	0.58962717	1.369807217	0.730029735	1.695986973	1.238120921
53° 52′ 20″	0.80770414	0.58958801	1.369946677	0.729955419	1.696099613	1.238077103
53° 52′ 30″	0.80773272	0.58954885	1.370086155	0.729881107	1.696212272	1.238033292
53° 52′ 40″	0.80776130	0.58950969	1.370225652	0.729806801	1.696324950	1.237989486
53° 52′ 50″	0.80778988	0.58947053	1.370365167	0.729732501	1.696437647	1.237945686
53° 53′ 00″	0.80781846	0.58943137	1.370504701	0.729658205	1.696550363	1.237901893
53° 53′ 10″	0.80784703	0.58939220	1.370644253	0.729583915	1.696663098	1.237858105
53° 53′ 20″	0.80787561	0.58935304	1.370783824	0.729509630	1.696775852	1.237814324
53° 53′ 30″	0.80790418	0.58931387	1.370923414	0.729435350	1.696888625	1.237770548
53° 53′ 40″	0.80793275	0.58927470	1.371063022	0.729361076	1.697001417	1.237726779
53° 53′ 50″	0.80796132	0.58923553	1.371202648	0.729286806	1.697114228	1.237683015
53° 54′ 00″	0.80798988	0.58919636	1.371342293	0.729212542	1.697227058	1.237639258
53° 54′ 10″	0.80801845	0.58915718	1.371481957	0.729138283	1.697339907	1.237595506
53° 54′ 20″	0.80804701	0.58911801	1.371621639	0.729064030	1.697452774	1.237551760
53° 54′ 30″	0.80807557	0.58907883	1.371761340	0.728989782	1.697565661	1.237508021
53° 54′ 40″	0.80810413	0.58903966	1.371901060	0.728915539	1.697678567	1.237464287
53° 54′ 50″	0.80813269	0.58900048	1.372040798	0.728841301	1.697791492	1.237420560
53° 55′ 00″	0.80816124	0.58896130	1.372180554	0.728767068	1.697904436	1.237376838
53° 55′ 10″	0.80818979	0.58892212	1.372320330	0.728692841	1.698017399	1.237333123
53° 55′ 20″	0.80821834	0.58888293	1.372460123	0.728618619	1.698130381	1.237289413
53° 55′ 30″	0.80824689	0.58884375	1.372599936	0.728544402	1.698243382	1.237245710
53° 55′ 40″	0.80827544	0.58880456	1.372739767	0.728470191	1.698356402	1.237202012
53° 55′ 50″	0.80830398	0.58876538	1.372879617	0.728395985	1.698469441	1.237158321
53° 56′ 00″	0.80833253	0.58872619	1.373019485	0.728321783	1.698582499	1.237114635
53° 56′ 10″	0.80836107	0.58868700	1.373159372	0.728247588	1.698695576	1.237070955
53° 56′ 20″	0.80838961	0.58864781	1.373299277	0.728173397	1.698808672	1.237027282
53° 56′ 30″	0.80841815	0.58860861	1.373439202	0.728099212	1.698921788	1.236983614
53° 56′ 40″	0.80844668	0.58856942	1.373579144	0.728025032	1.699034922	1.236939953
53° 56′ 50″	0.80847522	0.58853023	1.373719106	0.727950857	1.699148075	1.236896297
53° 57′ 00″	0.80850375	0.58849103	1.373859086	0.727876687	1.699261248	1.236852648
53° 57′ 10″	0.80853228	0.58845183	1.373999085	0.727802523	1.699374439	1.236809004
53° 57′ 20″	0.80856080	0.58841263	1.374139102	0.727728364	1.699487650	1.236765366
53° 57′ 30″	0.80858933	0.58837343	1.374279138	0.727654210	1.699600879	1.236721735
53° 57′ 40″	0.80861786	0.58833423	1.374419193	0.727580061	1.699714128	1.236678109
53° 57′ 50″	0.80864638	0.58829502	1.374559266	0.727505917	1.699827396	1.236634489
53° 58′ 00″	0.80867490	0.58825582	1.374699358	0.727431779	1.699940683	1.236590876
53° 58′ 10″	0.80870342	0.58821661	1.374839469	0.727357646	1.700053989	1.236547268
53° 58′ 20″	0.80873193	0.58817741	1.374979598	0.727283518	1.700167314	1.236503666
53° 58′ 30″	0.80876045	0.58813820	1.375119746	0.727209396	1.700280658	1.236460070
53° 58′ 40″ 53° 58′ 50″	0.80878896	0.58809899	1.375259913 1.375400099	0.727135279	1.700394022 1.700507404	1.236416481
53° 58′ 50″ 53° 59′ 00″	0.80881747 0.80884598	0.58805977 0.58802056		0.727061166		1.236372897
53° 59′ 00″ 53° 59′ 10″	0.80884598	0.58802056	1.375540303 1.375680526	0.726987060 0.726912958	1.700620806 1.700734226	1.236329319 1.236285747
53° 59′ 10″ 53° 59′ 20″	0.80887449	0.58794213	1.375820767	0.726912958	1.700734226	1.236285747
53° 59′ 30″	0.80890299	0.58794213	1.375961027	0.726838862	1.700847666	1.236242181
53° 59′ 40″	0.80896000	0.58786369	1.376101306	0.726764770	1.700961123	1.236198621
53° 59′ 50″	0.80898850	0.58782447	1.376241604	0.726616604	1.701074603	1.236133067
=======================================	0.000/0030	0.30/0244/	1.37 024 1004	0.7 200 10004	1.701100100	1,430111317

405 53° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
54° 00′ 00″	0.80901699	0.58778525	1.376381920	0.726542528	1.701301617	1.236067977
54° 00′ 10″	0.80904549	0.58774603	1.376522256	0.726468458	1.701415152	1.236024442
54° 00′ 20″	0.80907398	0.58770681	1.376662610	0.726394393	1.701528707	1.235980911
54° 00′ 30″	0.80910248	0.58766758	1.376802982	0.726320333	1.701642281	1.235937387
54° 00′ 40″	0.80913097	0.58762835	1.376943373	0.726246278	1.701755874	1.235893869
54° 00′ 50″	0.80915945	0.58758912	1.377083784	0.726172229	1.701869486	1.235850357
54° 01′ 00″	0.80918794	0.58754989	1.377224212	0.726098184	1.701983117	1.235806851
54° 01′ 10″	0.80921642	0.58751066	1.377364660	0.726024145	1.702096768	1.235763351
54° 01′ 20″	0.80924491	0.58747143	1.377505126	0.725950111	1.702210437	1.235719857
54° 01′ 30″	0.80927339	0.58743220	1.377645612	0.725876083	1.702324126	1.235676368
54° 01′ 40″	0.80930187	0.58739296	1.377786115	0.725802059	1.702437834	1.235632886
54° 01′ 50″	0.80933034	0.58735372	1.377926638	0.725728041	1.702551562	1.235589410
54° 02′ 00″	0.80935882	0.58731449	1.378067180	0.725654028	1.702665308	1.235545940
54° 02′ 10″	0.80938729	0.58727525	1.378207740	0.725580020	1.702779074	1.235502475
54° 02′ 20″	0.80941576	0.58723601	1.378348319	0.725506018	1.702892859	1.235459017
54° 02′ 30″	0.80944423	0.58719676	1.378488917	0.725432020	1.703006663	1.235415564
54° 02′ 40″	0.80947270	0.58715752	1.378629533	0.725358028	1.703120486	1.235372118
54° 02′ 50″	0.80950116	0.58711827	1.378770169	0.725284041	1.703234329	1.235328677
54° 03′ 00″	0.80952963	0.58707903	1.378910823	0.725210060	1.703348190	1.235285243
54° 03′ 10″	0.80955809	0.58703978	1.379051496	0.725136083	1.703462071	1.235241814
54° 03′ 20″	0.80958655	0.58700053	1.379192188	0.725062112	1.703575971	1.235198391
54° 03′ 30″	0.80961500	0.58696128	1.379332898	0.724988146	1.703689891	1.235154975
54° 03′ 40″	0.80964346	0.58692203	1.379473628	0.724914185	1.703803830	1.235111564
54° 03′ 50″	0.80967191	0.58688278	1.379614376	0.724840229	1.703917788	1.235068159
54° 04′ 00″	0.80970037	0.58684352	1.379755143	0.724766278	1.704031765	1.235024760
54° 04′ 10″	0.80972882	0.58680426	1.379895929	0.724692333	1.704145761	1.234981367
54° 04′ 20″	0.80975726	0.58676501	1.380036734	0.724618393	1.704259777	1.234937980
54° 04′ 30″	0.80978571	0.58672575	1.380177557	0.724544458	1.704373812	1.234894599
54° 04′ 40″	0.80981415	0.58668649	1.380318400	0.724470528	1.704487866	1.234851224
54° 04′ 50″	0.80984260	0.58664723	1.380459261	0.724396603	1.704601939	1.234807855
54° 05′ 00″	0.80987104	0.58660796	1.380600141	0.724322684	1.704716032	1.234764492
54° 05′ 10″	0.80989948	0.58656870	1.380741041	0.724248770	1.704830144	1.234721135
54° 05′ 20″	0.80992791	0.58652943	1.380881958	0.724174861	1.704944276	1.234677783
54° 05′ 30″	0.80995635	0.58649017	1.381022895	0.724100957	1.705058426	1.234634438
54° 05′ 40″	0.80998478	0.58645090	1.381163851	0.724027058	1.705172596	1.234591099
54° 05′ 50″	0.81001321	0.58641163	1.381304825	0.723953165	1.705286785	1.234547765
54° 06′ 00″	0.81004164	0.58637236	1.381445819	0.723879277	1.705400994	1.234504438
54° 06′ 10″	0.81007007	0.58633308	1.381586831	0.723805394	1.705515222	1.234461116
54° 06′ 20″	0.81009849	0.58629381	1.381727862	0.723731516	1.705629469	1.234417801
54° 06′ 30″ 54° 06′ 40″	0.81012692 0.81015534	0.58625453	1.381868912	0.723657643	1.705743735	1.234374491
54° 06′ 40″ 54° 06′ 50″		0.58621526	1.382009981	0.723583775	1.705858021	1.234331187
54° 06′ 50″ 54° 07′ 00″	0.81018376 0.81021217	0.58617598	1.382151069	0.723509913	1.705972326	1.234287890 1.234244598
54° 07′ 10″	0.81021217	0.58613670 0.58609742	1.382292176 1.382433302	0.723436056 0.723362204	1.706086651 1.706200994	1.234244598
54° 07′ 10″ 54° 07′ 20″	0.81024059	0.58605814	1.382433302	0.723288357	1.706200994	1.234201312
54° 07′ 30″	0.81026900	0.58603814	1.382574446	0.723214516	1.706313338	1.234138032
54° 07′ 40″	0.81029742	0.58597957	1.382713610	0.723214316	1.706429740	1.234114/38
54° 07′ 50″	0.81035423	0.58594028	1.382997994	0.723140679	1.706544142	1.234071470
=======================================	0.01033423	0.303/4020	1,304////4	0.7 43000040	1.7 00030303	1,434040440

406 54° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
54° 08′ 00″	0.81038264	0.58590099	1.383139214	0.722993022	1.706773004	1.233984971
54° 08′ 10″	0.81041105	0.58586171	1.383280453	0.722919201	1.706887463	1.233941721
54° 08′ 20″	0.81043945	0.58582241	1.383421712	0.722845385	1.707001943	1.233898477
54° 08′ 30″	0.81046785	0.58578312	1.383562989	0.722771575	1.707116441	1.233855238
54° 08′ 40″	0.81049625	0.58574383	1.383704285	0.722697769	1.707230959	1.233812006
54° 08′ 50″	0.81052464	0.58570453	1.383845600	0.722623969	1.707345497	1.233768779
54° 09′ 00″	0.81055304	0.58566524	1.383986934	0.722550174	1.707460053	1.233725559
54° 09′ 10″	0.81058143	0.58562594	1.384128287	0.722476384	1.707574629	1.233682344
54° 09′ 20″	0.81060982	0.58558664	1.384269659	0.722402599	1.707689225	1.233639135
54° 09′ 30″	0.81063821	0.58554734	1.384411050	0.722328820	1.707803840	1.233595932
54° 09′ 40″	0.81066660	0.58550804	1.384552460	0.722255045	1.707918474	1.233552735
54° 09′ 50″	0.81069498	0.58546874	1.384693889	0.722181276	1.708033128	1.233509544
54° 10′ 00″	0.81072337	0.58542943	1.384835337	0.722107512	1.708147801	1.233466359
54° 10′ 10″	0.81075175	0.58539013	1.384976804	0.722033753	1.708262494	1.233423180
54° 10′ 20″	0.81078013	0.58535082	1.385118290	0.721960000	1.708377206	1.233380007
54° 10′ 30″	0.81080851	0.58531151	1.385259795	0.721886251	1.708491937	1.233336839
54° 10′ 40″	0.81083688	0.58527220	1.385401319	0.721812508	1.708606688	1.233293678
54° 10′ 50″	0.81086526	0.58523289	1.385542862	0.721738769	1.708721458	1.233250523
54° 11′ 00″	0.81089363	0.58519358	1.385684424	0.721665036	1.708836248	1.233207373
54° 11′ 10″	0.81092200	0.58515427	1.385826005	0.721591309	1.708951057	1.233164229
54° 11′ 20″	0.81095037	0.58511495	1.385967605	0.721517586	1.709065885	1.233121092
54° 11′ 30″	0.81097873	0.58507563	1.386109224	0.721443868	1.709180734	1.233077960
54° 11′ 40″	0.81100710	0.58503632	1.386250862	0.721370156	1.709295601	1.233034834
54° 11′ 50″	0.81103546	0.58499700	1.386392519	0.721296448	1.709410488	1.232991714
54° 12′ 00″	0.81106382	0.58495767	1.386534195	0.721222746	1.709525394	1.232948600
54° 12′ 10″	0.81109218	0.58491835	1.386675890	0.721149049	1.709640320	1.232905492
54° 12′ 20″	0.81112053	0.58487903	1.386817604	0.721075358	1.709755266	1.232862389
54° 12′ 30″	0.81114889	0.58483970	1.386959338	0.721001671	1.709870230	1.232819293
54° 12′ 40″	0.81117724	0.58480038	1.387101090	0.720927989	1.709985215	1.232776203
54° 12′ 50″	0.81120559	0.58476105	1.387242862	0.720854313	1.710100218	1.232733118
54° 13′ 00″	0.81123394	0.58472172	1.387384652	0.720780642	1.710215242	1.232690040
54° 13′ 10″	0.81126229	0.58468239	1.387526462	0.720706976	1.710330284	1.232646967
54° 13′ 20″	0.81129063	0.58464306	1.387668290	0.720633315	1.710445347	1.232603900
54° 13′ 30″	0.81131898	0.58460373	1.387810138	0.720559659	1.710560429	1.232560839
54° 13′ 40″	0.81134732	0.58456439	1.387952005	0.720486008	1.710675530	1.232517784
54° 13′ 50″	0.81137566	0.58452506	1.388093891	0.720412363	1.710790651	1.232474735
54° 14′ 00″	0.81140400	0.58448572	1.388235796	0.720338723	1.710905791	1.232431692
54° 14′ 10″	0.81143233	0.58444638	1.388377720	0.720265087	1.711020951	1.232388655
54° 14′ 20″	0.81146067	0.58440704	1.388519663	0.720191457	1.711136130	1.232345623
54° 14′ 30″	0.81148900	0.58436770	1.388661626	0.720117832	1.711251329	1.232302598
54° 14′ 40″	0.81151733	0.58432836	1.388803607	0.720044213	1.711366547	1.232259578
54° 14′ 50″	0.81154566	0.58428901	1.388945608	0.719970598	1.711481785	1.232216565
54° 15′ 00″	0.81157398	0.58424967	1.389087628	0.719896989	1.711597043	1.232173557
54° 15′ 10″	0.81160231	0.58421032	1.389229666	0.719823384	1.711712320	1.232130555
54° 15′ 20″	0.81163063	0.58417097	1.389371724	0.719749785	1.711827617	1.232087559
54° 15′ 30″	0.81165895	0.58413162	1.389513802	0.719676191	1.711942933	1.232044569
54° 15′ 40″	0.81168727	0.58409227	1.389655898	0.719602602	1.712058268	1.232001585
54° 15′ 50″	0.81171558	0.58405292	1.389798013	0.719529018	1.712173624	1.231958606

407 54° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
54° 16′ 00″	0.81174390	0.58401356	1.389940148	0.719455440	1.712288999	1.231915634
54° 16′ 10″	0.81177221	0.58397421	1.390082302	0.719381866	1.712404393	1.231872668
54° 16′ 20″	0.81180052	0.58393485	1.390224474	0.719308298	1.712519807	1.231829707
54° 16′ 30″	0.81182883	0.58389549	1.390366667	0.719234734	1.712635241	1.231786752
54° 16′ 40″	0.81185714	0.58385613	1.390508878	0.719161176	1.712750694	1.231743803
54° 16′ 50″	0.81188544	0.58381677	1.390651108	0.719087623	1.712866167	1.231700861
54° 17′ 00″	0.81191375	0.58377741	1.390793358	0.719014075	1.712981659	1.231657923
54° 17′ 10″	0.81194205	0.58373805	1.390935627	0.718940532	1.713097171	1.231614992
54° 17′ 20″	0.81197035	0.58369868	1.391077914	0.718866995	1.713212703	1.231572067
54° 17′ 30″	0.81199865	0.58365932	1.391220222	0.718793462	1.713328254	1.231529148
54° 17′ 40″	0.81202694	0.58361995	1.391362548	0.718719935	1.713443825	1.231486234
54° 17′ 50″	0.81205524	0.58358058	1.391504894	0.718646413	1.713559415	1.231443327
54° 18′ 00″	0.81208353	0.58354121	1.391647258	0.718572896	1.713675025	1.231400425
54° 18′ 10″	0.81211182	0.58350184	1.391789642	0.718499384	1.713790655	1.231357529
54° 18′ 20″	0.81214010	0.58346247	1.391932045	0.718425877	1.713906304	1.231314639
54° 18′ 30″	0.81216839	0.58342309	1.392074468	0.718352375	1.714021973	1.231271755
54° 18′ 40″	0.81219668	0.58338372	1.392216910	0.718278878	1.714137662	1.231228877
54° 18′ 50″	0.81222496	0.58334434	1.392359370	0.718205387	1.714253370	1.231186004
54° 19′ 00″	0.81225324	0.58330496	1.392501850	0.718131900	1.714369098	1.231143138
54° 19′ 10″	0.81228152	0.58326558	1.392644350	0.718058419	1.714484845	1.231100277
54° 19′ 20″	0.81230979	0.58322620	1.392786868	0.717984943	1.714600613	1.231057423
54° 19′ 30″	0.81233807	0.58318682	1.392929406	0.717911472	1.714716400	1.231014574
54° 19′ 40″	0.81236634	0.58314743	1.393071963	0.717838006	1.714832206	1.230971731
54° 19′ 50″	0.81239461	0.58310805	1.393214540	0.717764545	1.714948032	1.230928894
54° 20′ 00″	0.81242288	0.58306866	1.393357135	0.717691089	1.715063878	1.230886063
54° 20′ 10″	0.81245115	0.58302927	1.393499750	0.717617639	1.715179744	1.230843237
54° 20′ 20″	0.81247941	0.58298988	1.393642384	0.717544193	1.715295629	1.230800418
54° 20′ 30″	0.81250768	0.58295049	1.393785038	0.717470753	1.715411534	1.230757604
54° 20′ 40″	0.81253594	0.58291110	1.393927710	0.717397317	1.715527459	1.230714797
54° 20′ 50″	0.81256420	0.58287171	1.394070402	0.717323887	1.715643403	1.230671995
54° 21′ 00″	0.81259245	0.58283231	1.394213114	0.717250462	1.715759367	1.230629199
54° 21′ 10″	0.81262071	0.58279292	1.394355844	0.717177042	1.715875351	1.230586409
54° 21′ 20″	0.81264896	0.58275352	1.394498594	0.717103627	1.715991355	1.230543625
54° 21′ 30″	0.81267721	0.58271412	1.394641363	0.717030218	1.716107378	1.230500846
54° 21′ 40″	0.81270546	0.58267472	1.394784152	0.716956813	1.716223421	1.230458074
54° 21′ 50″	0.81273371	0.58263532	1.394926959	0.716883413	1.716339483	1.230415307
54° 22′ 00″ 54° 22′ 10″	0.81276196	0.58259591	1.395069787	0.716810019	1.716455566	1.230372546
54° 22′ 10″ 54° 22′ 20″	0.81279020	0.58255651	1.395212633	0.716736629	1.716571668	1.230329792
54° 22′ 30″	0.81281844	0.58251710	1.395355499	0.716663245	1.716687790	1.230287043
	0.81284668	0.58247770	1.395498384	0.716589866	1.716803932	1.230244299
54° 22′ 40″ 54° 22′ 50″	0.81287492	0.58243829	1.395641288	0.716516492	1.716920093	1.230201562
54° 22′ 50″ 54° 23′ 00″	0.81290316	0.58239888	1.395784212 1.395927155	0.716443123 0.716369759	1.717036274	1.230158831
54° 23′ 10″	0.81293139 0.81295963	0.58235947 0.58232005	1.395927155	0.716369759	1.717152475 1.717268696	1.230116105 1.230073385
54° 23′ 20″	0.81293963	0.58232005	1.396070118	0.716296400	1.717268696	1.230073383
54° 23′ 30″	0.81298786	0.58224122	1.396213099	0.716223047	1.717384936	1.230030671
54° 23′ 40″	0.81304431	0.58224122	1.396499121	0.716149698	1.717617476	1.229945261
54° 23′ 50″	0.81307254	0.58216239	1.376477121	0.716076333	1.717733776	1.229902565
	0.01307234	0.30210237	1.5/0044101	0.7 10003010	1./ 1// 33//0	1.22//02303

408 54° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
54° 24′ 00″	0.81310076	0.58212297	1.396785220	0.715929683	1.717850096	1.229859875
54° 24′ 10″	0.81312898	0.58208355	1.396928299	0.715856355	1.717966435	1.229817190
54° 24′ 20″	0.81315720	0.58204413	1.397071397	0.715783032	1.718082794	1.229774511
54° 24′ 30″	0.81318542	0.58200470	1.397214514	0.715709714	1.718199173	1.229731838
54° 24′ 40″	0.81321363	0.58196528	1.397357651	0.715636401	1.718315572	1.229689171
54° 24′ 50″	0.81324185	0.58192585	1.397500807	0.715563093	1.718431991	1.229646510
54° 25′ 00″	0.81327006	0.58188642	1.397643983	0.715489790	1.718548429	1.229603855
54° 25′ 10″	0.81329827	0.58184699	1.397787178	0.715416492	1.718664887	1.229561205
54° 25′ 20″	0.81332648	0.58180756	1.397930392	0.715343200	1.718781365	1.229518562
54° 25′ 30″	0.81335468	0.58176813	1.398073626	0.715269912	1.718897863	1.229475924
54° 25′ 40″	0.81338289	0.58172870	1.398216879	0.715196630	1.719014381	1.229433292
54° 25′ 50″	0.81341109	0.58168926	1.398360152	0.715123353	1.719130918	1.229390666
54° 26′ 00″	0.81343929	0.58164983	1.398503444	0.715050080	1.719247476	1.229348046
54° 26′ 10″	0.81346749	0.58161039	1.398646756	0.714976813	1.719364053	1.229305431
54° 26′ 20″	0.81349568	0.58157095	1.398790087	0.714903551	1.719480650	1.229262823
54° 26′ 30″	0.81352388	0.58153151	1.398933437	0.714830294	1.719597267	1.229220220
54° 26′ 40″	0.81355207	0.58149207	1.399076807	0.714757042	1.719713904	1.229177623
54° 26′ 50″	0.81358026	0.58145263	1.399220196	0.714683795	1.719830561	1.229135032
54° 27′ 00″	0.81360845	0.58141318	1.399363605	0.714610553	1.719947237	1.229092447
54° 27′ 10″	0.81363664	0.58137374	1.399507033	0.714537317	1.720063934	1.229049868
54° 27′ 20″	0.81366482	0.58133429	1.399650481	0.714464085	1.720180650	1.229007294
54° 27′ 30″	0.81369300	0.58129484	1.399793948	0.714390858	1.720297386	1.228964726
54° 27′ 40″	0.81372119	0.58125539	1.399937434	0.714317637	1.720414142	1.228922164
54° 27′ 50″	0.81374936	0.58121594	1.400080941	0.714244420	1.720530918	1.228879608
54° 28′ 00″	0.81377754	0.58117649	1.400224466	0.714171209	1.720647714	1.228837058
54° 28′ 10″	0.81380572	0.58113704	1.400368011	0.714098003	1.720764530	1.228794514
54° 28′ 20″	0.81383389	0.58109758	1.400511576	0.714024802	1.720881365	1.228751975
54° 28′ 30″	0.81386206	0.58105813	1.400655160	0.713951605	1.720998221	1.228709443
54° 28′ 40″	0.81389023	0.58101867	1.400798763	0.713878414	1.721115097	1.228666916
54° 28′ 50″	0.81391840	0.58097921	1.400942386	0.713805228	1.721231992	1.228624395
54° 29′ 00″	0.81394656	0.58093975	1.401086029	0.713732047	1.721348907	1.228581880
54° 29′ 10″	0.81397473	0.58090029	1.401229691	0.713658871	1.721465843	1.228539370
54° 29′ 20″	0.81400289	0.58086082	1.401373373	0.713585701	1.721582798	1.228496867
54° 29′ 30″	0.81403105	0.58082136	1.401517074	0.713512535	1.721699773	1.228454369
54° 29′ 40″	0.81405921	0.58078189	1.401660795	0.713439374	1.721816768	1.228411877
54° 29′ 50″	0.81408736	0.58074242	1.401804535	0.713366218	1.721933783	1.228369391
54° 30′ 00″	0.81411552	0.58070296	1.401948294	0.713293068	1.722050818	1.228326911
54° 30′ 10″	0.81414367	0.58066349	1.402092074	0.713219922	1.722167873	1.228284437
54° 30′ 20″	0.81417182	0.58062401	1.402235873	0.713146782	1.722284948	1.228241968
54° 30′ 30″	0.81419997	0.58058454	1.402379691	0.713073646	1.722402043	1.228199506
54° 30′ 40″	0.81422812	0.58054507	1.402523529	0.713000516	1.722519158	1.228157049
54° 30′ 50″	0.81425626	0.58050559	1.402667386	0.712927391	1.722636293	1.228114598
54° 31′ 00″	0.81428440	0.58046611	1.402811263	0.712854271	1.722753448	1.228072152
54° 31′ 10″	0.81431254	0.58042664	1.402955160	0.712781155	1.722870622	1.228029713
54° 31′ 20″	0.81434068	0.58038716	1.403099076	0.712708045	1.722987817	1.227987279
54° 31′ 30″	0.81436882	0.58034768	1.403243012	0.712634940	1.723105032	1.227944851
54° 31′ 40″	0.81439696	0.58030819	1.403386968	0.712561840	1.723222267	1.227902429
54° 31′ 50″	0.81442509	0.58026871	1.403530943	0.712488745	1.723339522	1.227860013

409 54° 31′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
54° 32′ 00″	0.81445322	0.58022922	1.403674937	0.712415655	1.723456796	1.227817603
54° 32′ 10″	0.81448135	0.58018974	1.403818951	0.712342570	1.723574091	1.227775198
54° 32′ 20″	0.81450948	0.58015025	1.403962985	0.712269490	1.723691406	1.227732800
54° 32′ 30″	0.81453760	0.58011076	1.404107038	0.712196416	1.723808741	1.227690407
54° 32′ 40″	0.81456573	0.58007127	1.404251111	0.712123346	1.723926096	1.227648020
54° 32′ 50″	0.81459385	0.58003178	1.404395204	0.712050281	1.724043471	1.227605638
54° 33′ 00″	0.81462197	0.57999228	1.404539316	0.711977222	1.724160866	1.227563263
54° 33′ 10″	0.81465009	0.57995279	1.404683448	0.711904167	1.724278281	1.227520893
54° 33′ 20″	0.81467820	0.57991329	1.404827600	0.711831117	1.724395716	1.227478529
54° 33′ 30″	0.81470632	0.57987380	1.404971771	0.711758073	1.724513171	1.227436171
54° 33′ 40″	0.81473443	0.57983430	1.405115962	0.711685033	1.724630646	1.227393819
54° 33′ 50″	0.81476254	0.57979480	1.405260172	0.711611999	1.724748141	1.227351472
54° 34′ 00″	0.81479065	0.57975530	1.405404402	0.711538970	1.724865657	1.227309132
54° 34′ 10″	0.81481875	0.57971579	1.405548652	0.711465945	1.724983192	1.227266797
54° 34′ 20″	0.81484686	0.57967629	1.405692921	0.711392926	1.725100747	1.227224468
54° 34′ 30″	0.81487496	0.57963678	1.405837210	0.711319912	1.725218323	1.227182145
54° 34′ 40″	0.81490306	0.57959728	1.405981519	0.711246902	1.725335918	1.227139827
54° 34′ 50″	0.81493116	0.57955777	1.406125847	0.711173898	1.725453534	1.227097516
54° 35′ 00″	0.81495926	0.57951826	1.406270195	0.711100899	1.725571170	1.227055210
54° 35′ 10″	0.81498735	0.57947875	1.406414563	0.711027905	1.725688826	1.227012910
54° 35′ 20″	0.81501544	0.57943924	1.406558951	0.710954916	1.725806502	1.226970616
54° 35′ 30″	0.81504353	0.57939972	1.406703358	0.710881931	1.725924198	1.226928327
54° 35′ 40″	0.81507162	0.57936021	1.406847785	0.710808952	1.726041914	1.226886045
54° 35′ 50″	0.81509971	0.57932069	1.406992231	0.710735978	1.726159650	1.226843768
54° 36′ 00″	0.81512780	0.57928117	1.407136697	0.710663009	1.726277407	1.226801497
54° 36′ 10″	0.81515588	0.57924165	1.407281183	0.710590045	1.726395183	1.226759232
54° 36′ 20″	0.81518396	0.57920213	1.407425689	0.710517086	1.726512980	1.226716972
54° 36′ 30″	0.81521204	0.57916261	1.407570214	0.710444133	1.726630797	1.226674719
54° 36′ 40″	0.81524012	0.57912309	1.407714760	0.710371184	1.726748634	1.226632471
54° 36′ 50″	0.81526819	0.57908356	1.407859324	0.710298240	1.726866491	1.226590229
54° 37′ 00″	0.81529627	0.57904404	1.408003909	0.710225301	1.726984368	1.226547993
54° 37′ 10″	0.81532434	0.57900451	1.408148513	0.710152367	1.727102266	1.226505762
54° 37′ 20″	0.81535241	0.57896498	1.408293137	0.710079438	1.727220183	1.226463537
54° 37′ 30″	0.81538048	0.57892545	1.408437781	0.710006514	1.727338121	1.226421319
54° 37′ 40″	0.81540854	0.57888592	1.408582445	0.709933596	1.727456079	1.226379105
54° 37′ 50″	0.81543661	0.57884639	1.408727128	0.709860682	1.727574057	1.226336898
54° 38′ 00″	0.81546467	0.57880685	1.408871831	0.709787773	1.727692055	1.226294697
54° 38′ 10″	0.81549273	0.57876732	1.409016554	0.709714870	1.727810074	1.226252501
54° 38′ 20″	0.81552079	0.57872778	1.409161297	0.709641971	1.727928112	1.226210311
54° 38′ 30″	0.81554885	0.57868824	1.409306059	0.709569077	1.728046171	1.226168127
54° 38′ 40″	0.81557690	0.57864870	1.409450842	0.709496189	1.728164250	1.226125948
54° 38′ 50″	0.81560495	0.57860916	1.409595644	0.709423305	1.728282349	1.226083776
54° 39′ 00″	0.81563300	0.57856962	1.409740465	0.709350426	1.728400469	1.226041609
54° 39′ 10″	0.81566105	0.57853007	1.409885307	0.709277553	1.728518608	1.225999448
54° 39′ 20″	0.81568910	0.57849053	1.410030168	0.709204684	1.728636768	1.225957293
54° 39′ 30″	0.81571714	0.57845098	1.410175050	0.709131820	1.728754948	1.225915143
54° 39′ 40″	0.81574519	0.57841144	1.410319951	0.709058962	1.728873148	1.225873000
54° 39′ 50″	0.81577323	0.57837189	1.410464871	0.708986108	1.728991369	1.225830862

410 54° 39′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
54° 40′ 00″	0.81580127	0.57833234	1.410609812	0.708913260	1.729109610	1.225788730
54° 40′ 10″	0.81582931	0.57829278	1.410754773	0.708840416	1.729227871	1.225746603
54° 40′ 20″	0.81585734	0.57825323	1.410899753	0.708767578	1.729346152	1.225704483
54° 40′ 30″	0.81588537	0.57821368	1.411044753	0.708694744	1.729464453	1.225662368
54° 40′ 40″	0.81591341	0.57817412	1.411189773	0.708621915	1.729582775	1.225620259
54° 40′ 50″	0.81594144	0.57813456	1.411334813	0.708549092	1.729701117	1.225578156
54° 41′ 00″	0.81596946	0.57809500	1.411479873	0.708476273	1.729819479	1.225536058
54° 41′ 10″	0.81599749	0.57805544	1.411624952	0.708403460	1.729937862	1.225493966
54° 41′ 20″	0.81602551	0.57801588	1.411770051	0.708330651	1.730056264	1.225451881
54° 41′ 30″	0.81605354	0.57797632	1.411915171	0.708257848	1.730174687	1.225409800
54° 41′ 40″	0.81608156	0.57793676	1.412060310	0.708185049	1.730293131	1.225367726
54° 41′ 50″	0.81610957	0.57789719	1.412205469	0.708112256	1.730411594	1.225325657
54° 42′ 00″	0.81613759	0.57785762	1.412350648	0.708039467	1.730530078	1.225283595
54° 42′ 10″	0.81616560	0.57781806	1.412495846	0.707966684	1.730648583	1.225241537
54° 42′ 20″	0.81619362	0.57777849	1.412641065	0.707893905	1.730767107	1.225199486
54° 42′ 30″	0.81622163	0.57773892	1.412786304	0.707821131	1.730885652	1.225157441
54° 42′ 40″	0.81624964	0.57769934	1.412931562	0.707748363	1.731004217	1.225115401
54° 42′ 50″	0.81627764	0.57765977	1.413076840	0.707675599	1.731122802	1.225073367
54° 43′ 00″	0.81630565	0.57762020	1.413222139	0.707602841	1.731241408	1.225031338
54° 43′ 10″	0.81633365	0.57758062	1.413367457	0.707530087	1.731360034	1.224989316
54° 43′ 20″	0.81636165	0.57754104	1.413512795	0.707457339	1.731478681	1.224947299
54° 43′ 30″	0.81638965	0.57750146	1.413658153	0.707384595	1.731597347	1.224905288
54° 43′ 40″	0.81641765	0.57746188	1.413803531	0.707311856	1.731716034	1.224863283
54° 43′ 50″	0.81644564	0.57742230	1.413948929	0.707239123	1.731834742	1.224821284
54° 44′ 00″	0.81647364	0.57738272	1.414094346	0.707166394	1.731953470	1.224779290
54° 44′ 10″	0.81650163	0.57734313	1.414239784	0.707093671	1.732072218	1.224737302
54° 44′ 20″	0.81652962	0.57730355	1.414385242	0.707020952	1.732190986	1.224695320
54° 44′ 30″	0.81655760	0.57726396	1.414530719	0.706948238	1.732309775	1.224653343
54° 44′ 40″	0.81658559	0.57722437	1.414676217	0.706875529	1.732428584	1.224611373
54° 44′ 50″	0.81661357	0.57718478	1.414821735	0.706802826	1.732547414	1.224569408
54° 45′ 00″	0.81664156	0.57714519	1.414967272	0.706730127	1.732666264	1.224527449
54° 45′ 10″	0.81666953	0.57710560	1.415112830	0.706657433	1.732785134	1.224485495
54° 45′ 20″	0.81669751	0.57706600	1.415258407	0.706584745	1.732904025	1.224443548
54° 45′ 30″	0.81672549	0.57702641	1.415404004	0.706512061	1.733022936	1.224401606
54° 45′ 40″	0.81675346	0.57698681	1.415549622	0.706439382	1.733141867	1.224359670
54° 45′ 50″	0.81678144	0.57694721	1.415695259	0.706366708	1.733260819	1.224317739
54° 46′ 00″	0.81680941	0.57690761	1.415840917	0.706294039	1.733379791	1.224275814
54° 46′ 10″	0.81683737	0.57686801	1.415986594	0.706221375	1.733498784	1.224233896
54° 46′ 20″	0.81686534	0.57682841	1.416132291	0.706148717	1.733617797	1.224191982
54° 46′ 30″	0.81689330	0.57678881	1.416278009	0.706076063	1.733736831	1.224150075
54° 46′ 40″	0.81692127	0.57674920	1.416423746	0.706003414	1.733855885	1.224108173
54° 46′ 50″	0.81694923	0.57670960	1.416569504	0.705930770	1.733974959	1.224066277
54° 47′ 00″	0.81697719	0.57666999	1.416715281	0.705858131	1.734094054	1.224024387
54° 47′ 10″	0.81700514	0.57663038	1.416861079	0.705785497	1.734213169	1.223982503
54° 47′ 20″	0.81703310	0.57659077	1.417006896	0.705712868	1.734332305	1.223940624
54° 47′ 30″	0.81706105	0.57655116	1.417152734	0.705640243	1.734451461	1.223898751
54° 47′ 40″	0.81708900	0.57651155	1.417298591	0.705567624	1.734570638	1.223856884
54° 47′ 50″	0.81711695	0.57647193	1.417444469	0.705495010	1.734689835	1.223815023

411 54° 47′ 50″

54° 48′ 10″ 0.81717284 0. 54° 48′ 20″ 0.81720079 0. 54° 48′ 30″ 0.81722873 0. 54° 48′ 40″ 0.81725667 0.	57643232 57639270 57635308	1.417590366 1.417736284	0.705422401	1.734809052	1.223773167
54° 48′ 10″ 0.81717284 0. 54° 48′ 20″ 0.81720079 0. 54° 48′ 30″ 0.81722873 0. 54° 48′ 40″ 0.81725667 0.	57639270				
54° 48′ 30″ 0.81722873 0. 54° 48′ 40″ 0.81725667 0.	57635308	1.41//30204	0.705349797	1.734928290	1.223731317
54° 48′ 40″ 0.81725667 0.		1.417882222	0.705277198	1.735047548	1.223689473
	57631346	1.418028180	0.705204603	1.735166827	1.223647634
	57627384	1.418174158	0.705132014	1.735286127	1.223605801
54° 48′ 50″ 0.81728461 0.	57623422	1.418320156	0.705059430	1.735405447	1.223563974
54° 49′ 00″ 0.81731254 0.	57619459	1.418466174	0.704986850	1.735524787	1.223522153
54° 49′ 10″ 0.81734047 0.	57615497	1.418612212	0.704914276	1.735644148	1.223480337
54° 49′ 20″ 0.81736841 0.	57611534	1.418758270	0.704841706	1.735763529	1.223438528
54° 49′ 30″ 0.81739634 0.	57607571	1.418904349	0.704769142	1.735882931	1.223396724
54° 49′ 40″ 0.81742426 0.	57603609	1.419050447	0.704696582	1.736002354	1.223354925
54° 49′ 50″ 0.81745219 0.	57599645	1.419196566	0.704624028	1.736121796	1.223313133
54° 50′ 00″ 0.81748011 0.	57595682	1.419342704	0.704551478	1.736241260	1.223271346
54° 50′ 10″ 0.81750804 0.	57591719	1.419488863	0.704478933	1.736360744	1.223229564
54° 50′ 20″ 0.81753596 0.	57587756	1.419635042	0.704406393	1.736480248	1.223187789
54° 50′ 30″ 0.81756388 0.	57583792	1.419781241	0.704333859	1.736599773	1.223146019
54° 50′ 40″ 0.81759179 0.	57579828	1.419927460	0.704261329	1.736719319	1.223104255
54° 50′ 50″ 0.81761971 0.	57575864	1.420073699	0.704188804	1.736838885	1.223062497
54° 51′ 00″ 0.81764762 0.	57571900	1.420219959	0.704116284	1.736958471	1.223020745
54° 51′ 10″ 0.81767553 0.	57567936	1.420366238	0.704043769	1.737078079	1.222978998
54° 51′ 20″ 0.81770344 0.	57563972	1.420512538	0.703971259	1.737197706	1.222937257
54° 51′ 30″ 0.81773135 0.	57560008	1.420658858	0.703898754	1.737317355	1.222895521
54° 51′ 40″ 0.81775925 0.	57556043	1.420805198	0.703826254	1.737437024	1.222853792
54° 51′ 50″ 0.81778715 0.	57552078	1.420951558	0.703753759	1.737556713	1.222812068
54° 52′ 00″ 0.81781505 0.	57548113	1.421097939	0.703681268	1.737676423	1.222770349
54° 52′ 10″ 0.81784295 0.	57544149	1.421244339	0.703608783	1.737796154	1.222728637
54° 52′ 20″ 0.81787085 0.	57540183	1.421390760	0.703536303	1.737915905	1.222686930
54° 52′ 30″ 0.81789875 0.	57536218	1.421537201	0.703463827	1.738035676	1.222645229
54° 52′ 40″ 0.81792664 0.	57532253	1.421683662	0.703391357	1.738155469	1.222603534
54° 52′ 50″ 0.81795453 0.	57528287	1.421830143	0.703318891	1.738275282	1.222561844
	57524322	1.421976644	0.703246431	1.738395115	1.222520160
	57520356	1.422123166	0.703173975	1.738514970	1.222478482
	57516390	1.422269708	0.703101525	1.738634844	1.222436810
	57512424	1.422416270	0.703029079	1.738754740	1.222395143
	57508458	1.422562852	0.702956638	1.738874656	1.222353482
	57504492	1.422709455	0.702884202	1.738994592	1.222311827
	57500525	1.422856077	0.702811771	1.739114550	1.222270177
	57496559	1.423002720	0.702739345	1.739234528	1.222228533
	57492592	1.423149384	0.702666924	1.739354526	1.222186895
	57488625	1.423296067	0.702594508	1.739474545	1.222145263
	57484658	1.423442771	0.702522097	1.739594585	1.222103636
	57480691	1.423589495	0.702449691	1.739714646	1.222062015
	57476724	1.423736239	0.702377289	1.739834727	1.222020399
	57472756	1.423883003	0.702304893	1.739954829	1.221978790
	57468789	1.424029788	0.702232501	1.740074952	1.221937186
	57464821	1.424176593	0.702160115	1.740195095	1.221895588
	57460853	1.424323418	0.702087733	1.740315259	1.221853995
54° 55′ 50″ 0.81845625 0.	57456886	1.424470264	0.702015357	1.740435443	1.221812408

412 54° 55′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
54° 56′ 00″	0.81848410	0.57452917	1.424617129	0.701942985	1.740555649	1.221770827
54° 56′ 10″	0.81851196	0.57448949	1.424764016	0.701870618	1.740675874	1.221729252
54° 56′ 20″	0.81853981	0.57444981	1.424910922	0.701798256	1.740796121	1.221687682
54° 56′ 30″	0.81856766	0.57441012	1.425057849	0.701725899	1.740916389	1.221646118
54° 56′ 40″	0.81859550	0.57437044	1.425204796	0.701653547	1.741036677	1.221604560
54° 56′ 50″	0.81862335	0.57433075	1.425351763	0.701581200	1.741156985	1.221563007
54° 57′ 00″	0.81865119	0.57429106	1.425498751	0.701508858	1.741277315	1.221521460
54° 57′ 10″	0.81867903	0.57425137	1.425645758	0.701436520	1.741397665	1.221479919
54° 57′ 20″	0.81870687	0.57421168	1.425792787	0.701364188	1.741518036	1.221438383
54° 57′ 30″	0.81873471	0.57417199	1.425939835	0.701291860	1.741638428	1.221396853
54° 57′ 40″	0.81876255	0.57413229	1.426086904	0.701219538	1.741758840	1.221355329
54° 57′ 50″	0.81879038	0.57409260	1.426233993	0.701147220	1.741879274	1.221313811
54° 58′ 00″	0.81881821	0.57405290	1.426381103	0.701074908	1.741999728	1.221272298
54° 58′ 10″	0.81884604	0.57401320	1.426528233	0.701002600	1.742120202	1.221230791
54° 58′ 20″	0.81887387	0.57397351	1.426675383	0.700930297	1.742240698	1.221189290
54° 58′ 30″	0.81890170	0.57393380	1.426822554	0.700857999	1.742361214	1.221147794
54° 58′ 40″	0.81892952	0.57389410	1.426969745	0.700785706	1.742481751	1.221106304
54° 58′ 50″	0.81895734	0.57385440	1.427116956	0.700713418	1.742602309	1.221064820
54° 59′ 00″	0.81898516	0.57381469	1.427264188	0.700641134	1.742722888	1.221023341
54° 59′ 10″	0.81901298	0.57377499	1.427411440	0.700568856	1.742843487	1.220981868
54° 59′ 20″	0.81904080	0.57373528	1.427558713	0.700496583	1.742964107	1.220940401
54° 59′ 30″	0.81906861	0.57369557	1.427706006	0.700424314	1.743084748	1.220898939
54° 59′ 40″	0.81909642	0.57365586	1.427853319	0.700352051	1.743205410	1.220857483
54° 59′ 50″	0.81912424	0.57361615	1.428000653	0.700279792	1.743326092	1.220816033
55° 00′ 00″	0.81915204	0.57357644	1.428148007	0.700207538	1.743446796	1.220774589
55° 00′ 10″	0.81917985	0.57353672	1.428295381	0.700135289	1.743567520	1.220733150
55° 00′ 20″	0.81920766	0.57349701	1.428442776	0.700063045	1.743688265	1.220691717
55° 00′ 30″	0.81923546	0.57345729	1.428590191	0.699990806	1.743809031	1.220650289
55° 00′ 40″	0.81926326	0.57341757	1.428737627	0.699918572	1.743929817	1.220608868
55° 00′ 50″ 55° 01′ 00″	0.81929106	0.57337785	1.428885083	0.699846343	1.744050625	1.220567451
	0.81931886	0.57333813	1.429032560	0.699774119	1.744171453	1.220526041
55° 01′ 10″ 55° 01′ 20″	0.81934665	0.57329841 0.57325868	1.429180057 1.429327575	0.699701899 0.699629684	1.744292302 1.744413172	1.220484636 1.220443237
55° 01′ 30″	0.81737444	0.57321896	1.427327373	0.699557475	1.744534063	1.220443237
55° 01′ 40″	0.81740224	0.57317923	1.429622671	0.699485270	1.744554065	1.220360456
55° 01′ 50″	0.81743003	0.57317723	1.427622671	0.677483270	1.744634773	1.220319074
55° 02′ 00″	0.81743781	0.57313731	1.429770230	0.699340875	1.744896861	1.220277698
55° 02′ 10″	0.81748380	0.57306005	1.430065469	0.699268685	1.745017835	1.220277678
55° 02′ 20″	0.81751338	0.57302031	1.430003407	0.699196500	1.745138830	1.220236327
55° 02′ 30″	0.81754116	0.57302031	1.430213107	0.699124320	1.745158836	1.220174762
55° 02′ 40″	0.81758874	0.57294085	1.430508451	0.699052144	1.745380883	1.220133603
55° 02′ 50″	0.81757672	0.57290111	1.430656153	0.698979974	1.745501941	1.220070901
55° 03′ 00″	0.81762430	0.57286137	1.430803875	0.698907808	1.745623020	1.220070701
55° 03′ 10″	0.81763227	0.57282163	1.430951617	0.698835647	1.745744120	1.219988222
55° 03′ 20″	0.81700004	0.57278189	1.431099380	0.698763492	1.745865240	1.217766222
55° 03′ 30″	0.81973558	0.57274215	1.431247164	0.698691341	1.745986382	1.219905566
55° 03′ 40″	0.81976335	0.57274213	1.431394968	0.698619195	1.746107544	1.217763366
55° 03′ 50″	0.81979111	0.57266267	1.431542793	0.698547053	1.746228727	1.219822932
	1 3.6.7,7,7111	3.0.200201	,0,0,12,7,0	2,0,001,000		.,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

413 55° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
55° 04′ 00″	0.81981888	0.57262292	1.431690638	0.698474917	1.746349932	1.219781624
55° 04′ 10″	0.81984664	0.57258317	1.431838504	0.698402786	1.746471157	1.219740321
55° 04′ 20″	0.81987440	0.57254343	1.431986390	0.698330659	1.746592403	1.219699024
55° 04′ 30″	0.81990215	0.57250368	1.432134297	0.698258538	1.746713670	1.219657733
55° 04′ 40″	0.81992991	0.57246393	1.432282224	0.698186421	1.746834958	1.219616447
55° 04′ 50″	0.81995766	0.57242418	1.432430172	0.698114309	1.746956267	1.219575167
55° 05′ 00″	0.81998541	0.57238442	1.432578141	0.698042202	1.747077597	1.219533893
55° 05′ 10″	0.82001316	0.57234467	1.432726130	0.697970100	1.747198948	1.219492624
55° 05′ 20″	0.82004091	0.57230491	1.432874139	0.697898003	1.747320320	1.219451361
55° 05′ 30″	0.82006865	0.57226515	1.433022169	0.697825910	1.747441712	1.219410104
55° 05′ 40″	0.82009640	0.57222539	1.433170220	0.697753823	1.747563126	1.219368852
55° 05′ 50″	0.82012414	0.57218563	1.433318291	0.697681740	1.747684561	1.219327606
55° 06′ 00″	0.82015188	0.57214587	1.433466383	0.697609663	1.747806017	1.219286366
55° 06′ 10″	0.82017961	0.57210611	1.433614496	0.697537590	1.747927493	1.219245131
55° 06′ 20″	0.82020735	0.57206635	1.433762629	0.697465522	1.748048991	1.219203902
55° 06′ 30″	0.82023508	0.57202658	1.433910782	0.697393459	1.748170510	1.219162678
55° 06′ 40″	0.82026281	0.57198681	1.434058956	0.697321401	1.748292050	1.219121461
55° 06′ 50″	0.82029054	0.57194705	1.434207151	0.697249347	1.748413610	1.219080248
55° 07′ 00″	0.82031827	0.57190728	1.434355367	0.697177299	1.748535192	1.219039042
55° 07′ 10″	0.82034600	0.57186751	1.434503603	0.697105255	1.748656795	1.218997841
55° 07′ 20″	0.82037372	0.57182773	1.434651859	0.697033216	1.748778419	1.218956646
55° 07′ 30″	0.82040144	0.57178796	1.434800137	0.696961183	1.748900064	1.218915456
55° 07′ 40″	0.82042916	0.57174819	1.434948435	0.696889154	1.749021729	1.218874273
55° 07′ 50″	0.82045688	0.57170841	1.435096753	0.696817129	1.749143416	1.218833094
55° 08′ 00″	0.82048460	0.57166863	1.435245092	0.696745110	1.749265124	1.218791922
55° 08′ 10″	0.82051231	0.57162885	1.435393452	0.696673096	1.749386853	1.218750755
55° 08′ 20″	0.82054002	0.57158907	1.435541833	0.696601086	1.749508603	1.218709594
55° 08′ 30″	0.82056774	0.57154929	1.435690234	0.696529082	1.749630375	1.218668438
55° 08′ 40″	0.82059544	0.57150951	1.435838656	0.696457082	1.749752167	1.218627288
55° 08′ 50″	0.82062315	0.57146972	1.435987098	0.696385087	1.749873980	1.218586143
55° 09′ 00″	0.82065085	0.57142994	1.436135561	0.696313097	1.749995814	1.218545005
55° 09′ 10″	0.82067856	0.57139015	1.436284045	0.696241111	1.750117670	1.218503872
55° 09′ 20″	0.82070626	0.57135036	1.436432550	0.696169131	1.750239546	1.218462744
55° 09′ 30″	0.82073396	0.57131057	1.436581075	0.696097156	1.750361444	1.218421622
55° 09′ 40″	0.82076165	0.57127078	1.436729621	0.696025185	1.750483363	1.218380506
55° 09′ 50″	0.82078935	0.57123099	1.436878187	0.695953219	1.750605302	1.218339396
55° 10′ 00″	0.82081704	0.57119120	1.437026775	0.695881258	1.750727263	1.218298291
55° 10′ 10″	0.82084473	0.57115140	1.437175383	0.695809302	1.750849245	1.218257192
55° 10′ 20″	0.82087242	0.57111160	1.437324011	0.695737351	1.750971249	1.218216098
55° 10′ 30″	0.82090011	0.57107181	1.437472661	0.695665405	1.751093273	1.218175010
55° 10′ 40″	0.82092780	0.57103201	1.437621331	0.695593463	1.751215318	1.218133928
55° 10′ 50″	0.82095548	0.57099221	1.437770022	0.695521526	1.751337385	1.218092851
55° 11′ 00″	0.82098316	0.57095241	1.437918733	0.695449595	1.751459472	1.218051780
55° 11′ 10″ 55° 11′ 20″	0.82101084	0.57091260	1.438067465	0.695377668	1.751581581	1.218010714
55° 11′ 20″ 55° 11′ 30″	0.82103852 0.82106619	0.57087280 0.57083299	1.438216219 1.438364992	0.695305746	1.751703711	1.217969655
55° 11′ 40″				0.695233828	1.751825862	1.217928601
55° 11′ 50″	0.82109387 0.82112154	0.57079319 0.57075338	1.438513787 1.438662602	0.695161916 0.695090008	1.751948034 1.752070228	1.217887552 1.217846509
=======================================	0.04114134	0.37073336	1.430002002	0.073070000	1./ 320/ 0220	1.41/040307

414 55° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
55° 12′ 00″	0.82114921	0.57071357	1.438811438	0.695018106	1.752192442	1.217805472
55° 12′ 10″	0.82117688	0.57067376	1.438960295	0.694946208	1.752314678	1.217764440
55° 12′ 20″	0.82120454	0.57063394	1.439109173	0.694874315	1.752436935	1.217723414
55° 12′ 30″	0.82123221	0.57059413	1.439258071	0.694802426	1.752559213	1.217682394
55° 12′ 40″	0.82125987	0.57055432	1.439406990	0.694730543	1.752681512	1.217641379
55° 12′ 50″	0.82128753	0.57051450	1.439555930	0.694658665	1.752803833	1.217600370
55° 13′ 00″	0.82131519	0.57047468	1.439704891	0.694586791	1.752926174	1.217559366
55° 13′ 10″	0.82134284	0.57043486	1.439853872	0.694514922	1.753048537	1.217518368
55° 13′ 20″	0.82137050	0.57039504	1.440002875	0.694443058	1.753170921	1.217477376
55° 13′ 30″	0.82139815	0.57035522	1.440151898	0.694371199	1.753293327	1.217436389
55° 13′ 40″	0.82142580	0.57031540	1.440300942	0.694299345	1.753415753	1.217395408
55° 13′ 50″	0.82145345	0.57027557	1.440450007	0.694227495	1.753538201	1.217354433
55° 14′ 00″	0.82148110	0.57023575	1.440599092	0.694155651	1.753660670	1.217313463
55° 14′ 10″	0.82150874	0.57019592	1.440748199	0.694083811	1.753783160	1.217272499
55° 14′ 20″	0.82153639	0.57015609	1.440897326	0.694011976	1.753905671	1.217231540
55° 14′ 30″	0.82156403	0.57011626	1.441046474	0.693940146	1.754028204	1.217190587
55° 14′ 40″	0.82159167	0.57007643	1.441195643	0.693868320	1.754150758	1.217149640
55° 14′ 50″	0.82161930	0.57003660	1.441344833	0.693796500	1.754273333	1.217108698
55° 15′ 00″	0.82164694	0.56999676	1.441494043	0.693724684	1.754395929	1.217067762
55° 15′ 10″	0.82167457	0.56995693	1.441643275	0.693652873	1.754518547	1.217026832
55° 15′ 20″	0.82170220	0.56991709	1.441792527	0.693581067	1.754641186	1.216985907
55° 15′ 30″	0.82172983	0.56987725	1.441941800	0.693509266	1.754763846	1.216944987
55° 15′ 40″	0.82175746	0.56983741	1.442091094	0.693437470	1.754886527	1.216904074
55° 15′ 50″	0.82178508	0.56979757	1.442240409	0.693365679	1.755009230	1.216863166
55° 16′ 00″	0.82181271	0.56975773	1.442389745	0.693293892	1.755131954	1.216822263
55° 16′ 10″	0.82184033	0.56971789	1.442539102	0.693222110	1.755254700	1.216781366
55° 16′ 20″	0.82186795	0.56967804	1.442688479	0.693150333	1.755377466	1.216740475
55° 16′ 30″	0.82189557	0.56963820	1.442837878	0.693078561	1.755500254	1.216699590
55° 16′ 40″	0.82192318	0.56959835	1.442987297	0.693006793	1.755623063	1.216658710
55° 16′ 50″	0.82195080	0.56955850	1.443136738	0.692935031	1.755745894	1.216617835
55° 17′ 00″	0.82197841	0.56951865	1.443286199	0.692863273	1.755868746	1.216576966
55° 17′ 10″	0.82200602	0.56947880	1.443435681	0.692791520	1.755991619	1.216536103
55° 17′ 20″	0.82203363	0.56943895	1.443585184	0.692719772	1.756114513	1.216495246
55° 17′ 30″	0.82206123	0.56939909	1.443734708	0.692648029	1.756237429	1.216454394
55° 17′ 40″	0.82208884	0.56935924	1.443884253	0.692576291	1.756360366	1.216413547
55° 17′ 50″	0.82211644	0.56931938	1.444033819	0.692504557	1.756483325	1.216372707
55° 18′ 00″	0.82214404	0.56927952	1.444183406	0.692432828	1.756606305	1.216331871
55° 18′ 10″	0.82217164	0.56923966	1.444333014	0.692361104	1.756729306	1.216291042
55° 18′ 20″	0.82219924	0.56919980	1.444482642	0.692289385	1.756852328	1.216250218
55° 18′ 30″	0.82222683	0.56915994	1.444632292	0.692217671	1.756975372	1.216209399
55° 18′ 40″	0.82225442	0.56912008	1.444781963	0.692145961	1.757098438	1.216168587
55° 18′ 50″	0.82228201	0.56908021	1.444931654	0.692074256	1.757221524	1.216127780
55° 19′ 00″	0.82230960	0.56904035	1.445081367	0.692002556	1.757344632	1.216086978
55° 19′ 10″	0.82233719	0.56900048	1.445231100	0.691930861	1.757467762	1.216046182
55° 19′ 20″	0.82236477	0.56896061	1.445380855	0.691859171	1.757590913	1.216005392
55° 19′ 30″	0.82239236	0.56892074	1.445530631	0.691787485	1.757714085	1.215964607
55° 19′ 40″	0.82241994	0.56888087	1.445680427	0.691715805	1.757837278	1.215923828
55° 19′ 50″	0.82244752	0.56884100	1.445830245	0.691644129	1.757960493	1.215883054

415 55° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
55° 20′ 00″	0.82247510	0.56880112	1.445980083	0.691572458	1.758083730	1.215842286
55° 20′ 10″	0.82250267	0.56876125	1.446129943	0.691500792	1.758206988	1.215801524
55° 20′ 20″	0.82253024	0.56872137	1.446279823	0.691429130	1.758330267	1.215760767
55° 20′ 30″	0.82255782	0.56868149	1.446429725	0.691357473	1.758453567	1.215720015
55° 20′ 40″	0.82258538	0.56864161	1.446579647	0.691285822	1.758576890	1.215679270
55° 20′ 50″	0.82261295	0.56860173	1.446729591	0.691214174	1.758700233	1.215638530
55° 21′ 00″	0.82264052	0.56856185	1.446879556	0.691142532	1.758823598	1.215597795
55° 21′ 10″	0.82266808	0.56852197	1.447029541	0.691070895	1.758946984	1.215557066
55° 21′ 20″	0.82269564	0.56848208	1.447179548	0.690999262	1.759070392	1.215516343
55° 21′ 30″	0.82272320	0.56844220	1.447329576	0.690927634	1.759193822	1.215475625
55° 21′ 40″	0.82275076	0.56840231	1.447479625	0.690856011	1.759317272	1.215434913
55° 21′ 50″	0.82277832	0.56836242	1.447629695	0.690784393	1.759440745	1.215394207
55° 22′ 00″	0.82280587	0.56832253	1.447779786	0.690712780	1.759564238	1.215353506
55° 22′ 10″	0.82283342	0.56828264	1.447929898	0.690641171	1.759687753	1.215312810
55° 22′ 20″	0.82286097	0.56824275	1.448080031	0.690569567	1.759811290	1.215272120
55° 22′ 30″	0.82288852	0.56820285	1.448230185	0.690497968	1.759934848	1.215231436
55° 22′ 40″	0.82291607	0.56816296	1.448380361	0.690426374	1.760058428	1.215190758
55° 22′ 50″	0.82294361	0.56812306	1.448530557	0.690354784	1.760182029	1.215150085
55° 23′ 00″	0.82297115	0.56808316	1.448680775	0.690283199	1.760305651	1.215109417
55° 23′ 10″	0.82299870	0.56804326	1.448831013	0.690211620	1.760429296	1.215068755
55° 23′ 20″	0.82302623	0.56800336	1.448981273	0.690140044	1.760552961	1.215028099
55° 23′ 30″	0.82305377	0.56796346	1.449131554	0.690068474	1.760676648	1.214987448
55° 23′ 40″	0.82308130	0.56792356	1.449281856	0.689996909	1.760800357	1.214946803
55° 23′ 50″	0.82310884	0.56788365	1.449432179	0.689925348	1.760924087	1.214906163
55° 24′ 00″	0.82313637	0.56784375	1.449582523	0.689853792	1.761047839	1.214865529
55° 24′ 10″	0.82316390	0.56780384	1.449732888	0.689782241	1.761171612	1.214824901
55° 24′ 20″	0.82319142	0.56776393	1.449883275	0.689710694	1.761295407	1.214784278
55° 24′ 30″	0.82321895	0.56772402	1.450033682	0.689639153	1.761419223	1.214743661
55° 24′ 40″	0.82324647	0.56768411	1.450184111	0.689567616	1.761543061	1.214703049
55° 24′ 50″	0.82327399	0.56764419	1.450334561	0.689496084	1.761666920	1.214662443
55° 25′ 00″	0.82330151	0.56760428	1.450485032	0.689424557	1.761790801	1.214621842
55° 25′ 10″	0.82332903	0.56756436	1.450635524	0.689353034	1.761914704	1.214581247
55° 25′ 20″	0.82335655	0.56752445	1.450786038	0.689281516	1.762038628	1.214540658
55° 25′ 30″	0.82338406	0.56748453	1.450936572	0.689210004	1.762162574	1.214500074
55° 25′ 40″	0.82341157	0.56744461	1.451087128	0.689138495	1.762286541	1.214459495
55° 25′ 50″	0.82343908	0.56740469	1.451237705	0.689066992	1.762410530	1.214418923
55° 26′ 00″	0.82346659	0.56736477	1.451388303	0.688995493	1.762534540	1.214378355
55° 26′ 10″	0.82349409	0.56732484	1.451538922	0.688924000	1.762658572	1.214337794
55° 26′ 20″	0.82352160	0.56728492	1.451689563	0.688852511	1.762782626	1.214297238
55° 26′ 30″	0.82354910	0.56724499	1.451840225	0.688781026	1.762906701	1.214256687
55° 26′ 40″	0.82357660	0.56720507	1.451990908	0.688709547	1.763030798	1.214216142
55° 26′ 50″	0.82360410	0.56716514	1.452141612	0.688638072	1.763154917	1.214175603
55° 27′ 00″	0.82363159	0.56712521	1.452292337	0.688566602	1.763279057	1.214135069
55° 27′ 10″	0.82365909	0.56708528	1.452443084	0.688495137	1.763403219	1.214094541
55° 27′ 20″	0.82368658	0.56704534	1.452593852	0.688423677	1.763527402	1.214054018
55° 27′ 30″	0.82371407	0.56700541	1.452744641	0.688352221	1.763651607	1.214013501
55° 27′ 40″	0.82374156	0.56696547	1.452895451	0.688280770	1.763775834	1.213972989
55° 27′ 50″	0.82376904	0.56692554	1.453046282	0.688209324	1.763900082	1.213932483

416 55° 27′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
55° 28′ 00″	0.82379653	0.56688560	1.453197135	0.688137883	1.764024352	1.213891983
55° 28′ 10″	0.82382401	0.56684566	1.453348009	0.688066446	1.764148643	1.213851488
55° 28′ 20″	0.82385149	0.56680572	1.453498905	0.687995014	1.764272957	1.213810998
55° 28′ 30″	0.82387897	0.56676578	1.453649821	0.687923587	1.764397292	1.213770515
55° 28′ 40″	0.82390645	0.56672583	1.453800759	0.687852165	1.764521648	1.213730036
55° 28′ 50″	0.82393392	0.56668589	1.453951718	0.687780748	1.764646027	1.213689564
55° 29′ 00″	0.82396139	0.56664594	1.454102699	0.687709335	1.764770427	1.213649097
55° 29′ 10″	0.82398886	0.56660599	1.454253701	0.687637927	1.764894848	1.213608635
55° 29′ 20″	0.82401633	0.56656605	1.454404724	0.687566524	1.765019292	1.213568179
55° 29′ 30″	0.82404380	0.56652610	1.454555768	0.687495125	1.765143757	1.213527728
55° 29′ 40″	0.82407126	0.56648614	1.454706833	0.687423732	1.765268243	1.213487283
55° 29′ 50″	0.82409873	0.56644619	1.454857920	0.687352343	1.765392752	1.213446844
55° 30′ 00″	0.82412619	0.56640624	1.455009029	0.687280959	1.765517282	1.213406410
55° 30′ 10″	0.82415365	0.56636628	1.455160158	0.687209579	1.765641834	1.213365982
55° 30′ 20″	0.82418111	0.56632632	1.455311309	0.687138205	1.765766408	1.213325559
55° 30′ 30″	0.82420856	0.56628637	1.455462481	0.687066835	1.765891003	1.213285142
55° 30′ 40″	0.82423601	0.56624641	1.455613675	0.686995469	1.766015620	1.213244730
55° 30′ 50″	0.82426347	0.56620645	1.455764890	0.686924109	1.766140259	1.213204324
55° 31′ 00″	0.82429091	0.56616648	1.455916126	0.686852753	1.766264920	1.213163923
55° 31′ 10″	0.82431836	0.56612652	1.456067384	0.686781403	1.766389602	1.213123528
55° 31′ 20″	0.82434581	0.56608656	1.456218663	0.686710056	1.766514306	1.213083139
55° 31′ 30″	0.82437325	0.56604659	1.456369963	0.686638715	1.766639032	1.213042755
55° 31′ 40″	0.82440069	0.56600662	1.456521285	0.686567378	1.766763780	1.213002376
55° 31′ 50″	0.82442813	0.56596665	1.456672628	0.686496047	1.766888549	1.212962003
55° 32′ 00″	0.82445557	0.56592668	1.456823992	0.686424719	1.767013340	1.212921636
55° 32′ 10″	0.82448301	0.56588671	1.456975378	0.686353397	1.767138153	1.212881274
55° 32′ 20″	0.82451044	0.56584674	1.457126785	0.686282079	1.767262988	1.212840918
55° 32′ 30″	0.82453787	0.56580677	1.457278214	0.686210766	1.767387844	1.212800567
55° 32′ 40″	0.82456530	0.56576679	1.457429664	0.686139458	1.767512723	1.212760222
55° 32′ 50″	0.82459273	0.56572681	1.457581135	0.686068155	1.767637623	1.212719882
55° 33′ 00″	0.82462016	0.56568684	1.457732628	0.685996856	1.767762545	1.212679548
55° 33′ 10″	0.82464758	0.56564686	1.457884142	0.685925562	1.767887489	1.212639220
55° 33′ 20″	0.82467500	0.56560688	1.458035678	0.685854273	1.768012454	1.212598897
55° 33′ 30″	0.82470242	0.56556689	1.458187235	0.685782989	1.768137442	1.212558579
55° 33′ 40″	0.82472984	0.56552691	1.458338813	0.685711709	1.768262451	1.212518267
55° 33′ 50″	0.82475726	0.56548693	1.458490413	0.685640434	1.768387482	1.212477961
55° 34′ 00″	0.82478467	0.56544694	1.458642035	0.685569164	1.768512535	1.212437660
55° 34′ 10″	0.82481209	0.56540695	1.458793678	0.685497898	1.768637610	1.212397364
55° 34′ 20″	0.82483950	0.56536696	1.458945342	0.685426638	1.768762706	1.212357074
55° 34′ 30″	0.82486691	0.56532697	1.459097028	0.685355382	1.768887825	1.212316790
55° 34′ 40″	0.82489431	0.56528698	1.459248735	0.685284130	1.769012965	1.212276511
55° 34′ 50″	0.82492172	0.56524699	1.459400463	0.685212884	1.769138127	1.212236238
55° 35′ 00″	0.82494912	0.56520700	1.459552214	0.685141642	1.769263311	1.212195970
55° 35′ 10″	0.82497652	0.56516700	1.459703985	0.685070405	1.769388517	1.212155708
55° 35′ 20″	0.82500392	0.56512700	1.459855778	0.684999172	1.769513745	1.212115451
55° 35′ 30″	0.82503132	0.56508701	1.460007593	0.684927945	1.769638995	1.212075200
55° 35′ 40″	0.82505871	0.56504701	1.460159429	0.684856722	1.769764266	1.212034954
_55° 35′ 50″	0.82508611	0.56500701	1.460311287	0.684785504	1.769889560	1.211994714

417 55° 35′ 50″

	$\sin(x)$	$\cos(x)$	$\tan(x)$	cot(x)	soc(x)	ese(v)
χ ====================================	. ,			$\cot(x)$	$\frac{\sec(x)}{1.770014975}$	$\frac{\csc(x)}{1.211054470}$
55° 36′ 00″ 55° 36′ 10″	0.82511350 0.82514089	0.56496700	1.460463166	0.684714290	1.770014875	1.211954479
55° 36′ 10″ 55° 36′ 20″		0.56492700	1.460615066	0.684643082	1.770140212	1.211914250
	0.82516828	0.56488700	1.460766988	0.684571878	1.770265572	1.211874026
55° 36′ 30″	0.82519566	0.56484699	1.460918932	0.684500678	1.770390953	1.211833808
55° 36′ 40″	0.82522304	0.56480698	1.461070897	0.684429484	1.770516356	1.211793596
55° 36′ 50″	0.82525043	0.56476697	1.461222884	0.684358294	1.770641781	1.211753389
55° 37′ 00″	0.82527781	0.56472696	1.461374892	0.684287109	1.770767228	1.211713187
55° 37′ 10″	0.82530518	0.56468695	1.461526922	0.684215929	1.770892697	1.211672991
55° 37′ 20″	0.82533256	0.56464694	1.461678973	0.684144753	1.771018187	1.211632800
55° 37′ 30″	0.82535993	0.56460693	1.461831046	0.684073582	1.771143700	1.211592615
55° 37′ 40″	0.82538731	0.56456691	1.461983140	0.684002416	1.771269235	1.211552436
55° 37′ 50″	0.82541468	0.56452689	1.462135256	0.683931254	1.771394792	1.211512262
55° 38′ 00″	0.82544204	0.56448688	1.462287394	0.683860098	1.771520370	1.211472093
55° 38′ 10″	0.82546941	0.56444686	1.462439553	0.683788946	1.771645971	1.211431931
55° 38′ 20″	0.82549677	0.56440684	1.462591734	0.683717798	1.771771593	1.211391773
55° 38′ 30″	0.82552414	0.56436681	1.462743936	0.683646656	1.771897238	1.211351621
55° 38′ 40″	0.82555150	0.56432679	1.462896160	0.683575518	1.772022904	1.211311475
55° 38′ 50″	0.82557885	0.56428677	1.463048405	0.683504385	1.772148593	1.211271334
55° 39′ 00″	0.82560621	0.56424674	1.463200672	0.683433256	1.772274304	1.211231198
55° 39′ 10″	0.82563357	0.56420671	1.463352961	0.683362133	1.772400036	1.211191068
55° 39′ 20″	0.82566092	0.56416669	1.463505271	0.683291014	1.772525791	1.211150944
55° 39′ 30″	0.82568827	0.56412666	1.463657603	0.683219899	1.772651567	1.211110825
55° 39′ 40″	0.82571562	0.56408662	1.463809956	0.683148790	1.772777366	1.211070712
55° 39′ 50″	0.82574296	0.56404659	1.463962332	0.683077685	1.772903186	1.211030604
55° 40′ 00″	0.82577031	0.56400656	1.464114728	0.683006585	1.773029029	1.210990501
55° 40′ 10″	0.82579765	0.56396652	1.464267147	0.682935489	1.773154894	1.210950405
55° 40′ 20″	0.82582499	0.56392649	1.464419587	0.682864398	1.773280780	1.210910313
55° 40′ 30″	0.82585233	0.56388645	1.464572049	0.682793312	1.773406689	1.210870227
55° 40′ 40″	0.82587967	0.56384641	1.464724532	0.682722231	1.773532620	1.210830147
55° 40′ 50″	0.82590700	0.56380637	1.464877037	0.682651154	1.773658573	1.210790072
55° 41′ 00″	0.82593434	0.56376633	1.465029563	0.682580082	1.773784548	1.210750003
55° 41′ 10″	0.82596167	0.56372628	1.465182112	0.682509015	1.773910545	1.210709939
55° 41′ 20″	0.82598900	0.56368624	1.465334682	0.682437953	1.774036564	1.210669880
55° 41′ 30″ 55° 41′ 40″	0.82601632	0.56364619	1.465487274	0.682366895	1.774162605	1.210629827
	0.82604365	0.56360615	1.465639887	0.682295842	1.774288668	1.210589780
55° 41′ 50″	0.82607097	0.56356610	1.465792522	0.682224793	1.774414753	1.210549738
55° 42′ 00″	0.82609829	0.56352605	1.465945179	0.682153749	1.774540861	1.210509702
55° 42′ 10″	0.82612561	0.56348600	1.466097857	0.682082710	1.774666990	1.210469671
55° 42′ 20″	0.82615293	0.56344595	1.466250557	0.682011676	1.774793142	1.210429645
55° 42′ 30″	0.82618025	0.56340589	1.466403279	0.681940646	1.774919316	1.210389625
55° 42′ 40″	0.82620756	0.56336584	1.466556023	0.681869621	1.775045511	1.210349611
55° 42′ 50″	0.82623487	0.56332578	1.466708788	0.681798601	1.775171729	1.210309602
55° 43′ 00″	0.82626218	0.56328572	1.466861575	0.681727586	1.775297969	1.210269598
55° 43′ 10″	0.82628949	0.56324566	1.467014384	0.681656575	1.775424232	1.210229600
55° 43′ 20″	0.82631680	0.56320560	1.467167214	0.681585569	1.775550516	1.210189608
55° 43′ 30″	0.82634410	0.56316554	1.467320067	0.681514567	1.775676822	1.210149621
55° 43′ 40″	0.82637140	0.56312548	1.467472941	0.681443570	1.775803151	1.210109639
55° 43′ 50″	0.82639870	0.56308541	1.467625836	0.681372578	1.775929502	1.210069663

418 55° 43′ 50″

55° 44′ 10″	0.82642600			$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
	0.02042000	0.56304535	1.467778754	0.681301591	1.776055875	1.210029693
	0.82645330	0.56300528	1.467931693	0.681230608	1.776182270	1.209989728
55° 44′ 20″	0.82648059	0.56296521	1.468084654	0.681159630	1.776308687	1.209949768
55° 44′ 30″	0.82650788	0.56292514	1.468237637	0.681088657	1.776435126	1.209909814
55° 44′ 40″	0.82653517	0.56288507	1.468390642	0.681017688	1.776561588	1.209869866
55° 44′ 50″	0.82656246	0.56284500	1.468543668	0.680946724	1.776688072	1.209829922
55° 45′ 00″	0.82658975	0.56280493	1.468696716	0.680875765	1.776814578	1.209789985
55° 45′ 10″	0.82661703	0.56276485	1.468849786	0.680804810	1.776941106	1.209750053
55° 45′ 20″	0.82664432	0.56272478	1.469002878	0.680733860	1.777067656	1.209710126
55° 45′ 30″	0.82667160	0.56268470	1.469155991	0.680662915	1.777194229	1.209670205
55° 45′ 40″	0.82669888	0.56264462	1.469309127	0.680591975	1.777320824	1.209630289
55° 45′ 50″	0.82672615	0.56260454	1.469462284	0.680521039	1.777447441	1.209590379
55° 46′ 00″	0.82675343	0.56256446	1.469615463	0.680450108	1.777574080	1.209550474
55° 46′ 10″	0.82678070	0.56252438	1.469768664	0.680379181	1.777700741	1.209510575
55° 46′ 20″	0.82680797	0.56248429	1.469921887	0.680308259	1.777827425	1.209470681
55° 46′ 30″	0.82683524	0.56244421	1.470075131	0.680237342	1.777954131	1.209430792
55° 46′ 40″	0.82686251	0.56240412	1.470228398	0.680166430	1.778080859	1.209390910
55° 46′ 50″	0.82688977	0.56236403	1.470381686	0.680095522	1.778207609	1.209351032
55° 47′ 00″	0.82691704	0.56232394	1.470534996	0.680024619	1.778334382	1.209311160
55° 47′ 10″	0.82694430	0.56228385	1.470688328	0.679953720	1.778461177	1.209271294
55° 47′ 20″	0.82697156	0.56224376	1.470841682	0.679882827	1.778587994	1.209231433
55° 47′ 30″	0.82699881	0.56220367	1.470995057	0.679811937	1.778714834	1.209191577
55° 47′ 40″	0.82702607	0.56216357	1.471148455	0.679741053	1.778841695	1.209151727
55° 47′ 50″	0.82705332	0.56212348	1.471301874	0.679670173	1.778968579	1.209111883
55° 48′ 00″	0.82708057	0.56208338	1.471455316	0.679599298	1.779095485	1.209072043
55° 48′ 10″	0.82710782	0.56204328	1.471608779	0.679528428	1.779222414	1.209032210
55° 48′ 20″	0.82713507	0.56200318	1.471762264	0.679457562	1.779349365	1.208992382
55° 48′ 30″	0.82716232	0.56196308	1.471915771	0.679386701	1.779476338	1.208952559
55° 48′ 40″	0.82718956	0.56192298	1.472069300	0.679315845	1.779603333	1.208912742
55° 48′ 50″	0.82721680	0.56188287	1.472222851	0.679244993	1.779730351	1.208872930
55° 49′ 00″	0.82724404	0.56184277	1.472376424	0.679174146	1.779857391	1.208833123
55° 49′ 10″	0.82727128	0.56180266	1.472530019	0.679103303	1.779984454	1.208793323
55° 49′ 20″	0.82729852	0.56176255	1.472683635	0.679032466	1.780111538	1.208753527
55° 49′ 30″	0.82732575	0.56172244	1.472837274	0.678961633	1.780238646	1.208713737
55° 49′ 40″	0.82735298	0.56168233	1.472990934	0.678890804	1.780365775	1.208673953
55° 49′ 50″	0.82738021	0.56164222	1.473144617	0.678819980	1.780492927	1.208634174
	0.82740744	0.56160211	1.473298321	0.678749161	1.780620101	1.208594400
55° 50′ 10″	0.82743467	0.56156199	1.473452048	0.678678347	1.780747297	1.208554632
55° 50′ 20″	0.82746189	0.56152188	1.473605796	0.678607537	1.780874516	1.208514869
	0.82748911	0.56148176	1.473759566	0.678536732	1.781001757	1.208475112
55° 50′ 40″	0.82751633	0.56144164	1.473913359	0.678465932	1.781129021	1.208435360
	0.82754355	0.56140152	1.474067173	0.678395136	1.781256307	1.208395614
	0.82757077	0.56136140	1.474221009	0.678324345	1.781383615	1.208355873
	0.82759798	0.56132128	1.474374867	0.678253558	1.781510946	1.208316138
1	0.82762520	0.56128115	1.474528748	0.678182776	1.781638299	1.208276408
1	0.82765241	0.56124103	1.474682650	0.678111999	1.781765674	1.208236684
	0.82767962	0.56120090	1.474836574	0.678041227	1.781893072	1.208196965
	0.82770682	0.56116077	1.474990521	0.677970459	1.782020492	1.208157251

419 55° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
55° 52′ 00″	0.82773403	0.56112065	1.475144489	0.677899696	1.782147935	1.208117543
55° 52′ 10″	0.82776123	0.56108052	1.475298479	0.677828937	1.782275400	1.208077840
55° 52′ 20″	0.82778843	0.56104038	1.475452491	0.677758183	1.782402888	1.208038143
55° 52′ 30″	0.82781563	0.56100025	1.475606526	0.677687434	1.782530398	1.207998451
55° 52′ 40″	0.82784283	0.56096012	1.475760582	0.677616689	1.782657930	1.207958765
55° 52′ 50″	0.82787002	0.56091998	1.475914661	0.677545949	1.782785485	1.207919084
55° 53′ 00″	0.82789722	0.56087984	1.476068761	0.677475214	1.782913062	1.207879409
55° 53′ 10″	0.82792441	0.56083971	1.476222884	0.677404483	1.783040662	1.207839739
55° 53′ 20″	0.82795160	0.56079957	1.476377029	0.677333757	1.783168284	1.207800074
55° 53′ 30″	0.82797878	0.56075943	1.476531195	0.677263036	1.783295929	1.207760415
55° 53′ 40″	0.82800597	0.56071928	1.476685384	0.677192319	1.783423596	1.207720761
55° 53′ 50″	0.82803315	0.56067914	1.476839595	0.677121607	1.783551286	1.207681113
55° 54′ 00″	0.82806033	0.56063899	1.476993828	0.677050900	1.783678998	1.207641470
55° 54′ 10″	0.82808751	0.56059885	1.477148083	0.676980197	1.783806732	1.207601833
55° 54′ 20″	0.82811469	0.56055870	1.477302360	0.676909499	1.783934490	1.207562201
55° 54′ 30″	0.82814187	0.56051855	1.477456659	0.676838805	1.784062269	1.207522575
55° 54′ 40″	0.82816904	0.56047840	1.477610981	0.676768116	1.784190071	1.207482954
55° 54′ 50″	0.82819621	0.56043825	1.477765324	0.676697432	1.784317896	1.207443338
55° 55′ 00″	0.82822338	0.56039810	1.477919690	0.676626752	1.784445743	1.207403728
55° 55′ 10″	0.82825055	0.56035794	1.478074077	0.676556077	1.784573612	1.207364123
55° 55′ 20″	0.82827772	0.56031779	1.478228487	0.676485407	1.784701505	1.207324524
55° 55′ 30″	0.82830488	0.56027763	1.478382919	0.676414741	1.784829419	1.207284930
55° 55′ 40″	0.82833204	0.56023747	1.478537373	0.676344080	1.784957356	1.207245342
55° 55′ 50″	0.82835920	0.56019731	1.478691849	0.676273424	1.785085316	1.207205759
55° 56′ 00″	0.82838636	0.56015715	1.478846348	0.676202772	1.785213298	1.207166181
55° 56′ 10″	0.82841352	0.56011699	1.479000868	0.676132125	1.785341303	1.207126609
55° 56′ 20″	0.82844067	0.56007683	1.479155411	0.676061482	1.785469330	1.207087042
55° 56′ 30″	0.82846782	0.56003666	1.479309976	0.675990845	1.785597380	1.207047481
55° 56′ 40″	0.82849497	0.55999650	1.479464563	0.675920211	1.785725453	1.207007925
55° 56′ 50″	0.82852212	0.55995633	1.479619172	0.675849583	1.785853548	1.206968375
55° 57′ 00″	0.82854927	0.55991616	1.479773804	0.675778959	1.785981666	1.206928830
55° 57′ 10″ 55° 57′ 20″	0.82857641	0.55987599	1.479928457	0.675708339	1.786109806	1.206889291
55° 57′ 30″	0.82860356	0.55983582	1.480083133	0.675637724	1.786237969	1.206849756 1.206810228
55° 57′ 40″	0.82865784	0.55979565 0.55975547	1.480237831 1.480392551	0.675567114 0.675496509	1.786366154 1.786494362	1.206770705
55° 57′ 50″	0.82868497	0.55971530	1.480547294	0.675425908	1.786622593	1.206770703
55° 58′ 00″	0.82871211	0.55967512	1.480702058	0.675355312	1.786750846	1.206691674
55° 58′ 10″	0.82873924	0.55963495	1.480856845	0.675284720	1.786879122	1.206671674
55° 58′ 20″	0.82876637	0.55755477	1.481011654	0.675214133	1.787007420	1.206612666
55° 58′ 30″	0.82879350	0.55955459	1.481166485	0.675143551	1.787135741	1.206573170
55° 58′ 40″	0.82882063	0.55951440	1.481321339	0.675072973	1.787264085	1.206533679
55° 58′ 50″	0.82884775	0.55947422	1.481476215	0.675002400	1.787392451	1.206393077
55° 59′ 00″	0.82887487	0.55943404	1.481631113	0.674931831	1.787520840	1.206454714
55° 59′ 10″	0.82890200	0.55939385	1.481786033	0.674861267	1.787649252	1.206415239
55° 59′ 20″	0.82892912	0.55935366	1.481940976	0.674790708	1.787777686	1.206375770
55° 59′ 30″	0.82895623	0.55931348	1.482095940	0.674720153	1.787906143	1.206336307
55° 59′ 40″	0.82898335	0.55927329	1.482250928	0.674649603	1.788034623	1.206296849
55° 59′ 50″	0.82901046	0.55923310	1.482405937	0.674579058	1.788163125	1.206257396
	1					

420 55° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
56° 00′ 00″	0.82903757	0.55919290	1.482560969	0.674508517	1.788291650	1.206217949
56° 00′ 10″	0.82906468	0.55915271	1.482716022	0.674437981	1.788420198	1.206178507
56° 00′ 20″	0.82909179	0.55911252	1.482871099	0.674367449	1.788548768	1.206139070
56° 00′ 30″	0.82911890	0.55907232	1.483026197	0.674296922	1.788677361	1.206099639
56° 00′ 40″	0.82914600	0.55903212	1.483181318	0.674226400	1.788805977	1.206060213
56° 00′ 50″	0.82917310	0.55899192	1.483336461	0.674155882	1.788934615	1.206020793
56° 01′ 00″	0.82920020	0.55895172	1.483491627	0.674085369	1.789063276	1.205981378
56° 01′ 10″	0.82922730	0.55891152	1.483646814	0.674014860	1.789191960	1.205941969
56° 01′ 20″	0.82925439	0.55887132	1.483802024	0.673944356	1.789320667	1.205902565
56° 01′ 30″	0.82928149	0.55883111	1.483957257	0.673873857	1.789449396	1.205863166
56° 01′ 40″	0.82930858	0.55879091	1.484112512	0.673803362	1.789578148	1.205823773
56° 01′ 50″	0.82933567	0.55875070	1.484267789	0.673732872	1.789706923	1.205784385
56° 02′ 00″	0.82936276	0.55871049	1.484423088	0.673662386	1.789835720	1.205745002
56° 02′ 10″	0.82938984	0.55867029	1.484578410	0.673591905	1.789964540	1.205705625
56° 02′ 20″	0.82941693	0.55863007	1.484733754	0.673521429	1.790093383	1.205666254
56° 02′ 30″	0.82944401	0.55858986	1.484889121	0.673450957	1.790222249	1.205626888
56° 02′ 40″	0.82947109	0.55854965	1.485044510	0.673380490	1.790351138	1.205587527
56° 02′ 50″	0.82949817	0.55850943	1.485199921	0.673310028	1.790480049	1.205548171
56° 03′ 00″	0.82952524	0.55846922	1.485355355	0.673239570	1.790608983	1.205508821
56° 03′ 10″	0.82955232	0.55842900	1.485510811	0.673169116	1.790737940	1.205469477
56° 03′ 20″	0.82957939	0.55838878	1.485666289	0.673098668	1.790866919	1.205430138
56° 03′ 30″	0.82960646	0.55834856	1.485821790	0.673028224	1.790995922	1.205390804
56° 03′ 40″	0.82963353	0.55830834	1.485977313	0.672957784	1.791124947	1.205351475
56° 03′ 50″	0.82966060	0.55826812	1.486132859	0.672887349	1.791253995	1.205312152
56° 04′ 00″	0.82968766	0.55822790	1.486288427	0.672816919	1.791383066	1.205272835
56° 04′ 10″	0.82971472	0.55818767	1.486444018	0.672746493	1.791512159	1.205233523
56° 04′ 20″	0.82974179	0.55814744	1.486599631	0.672676072	1.791641276	1.205194216
56° 04′ 30″	0.82976884	0.55810722	1.486755266	0.672605655	1.791770415	1.205154914
56° 04′ 40″	0.82979590	0.55806699	1.486910924	0.672535243	1.791899577	1.205115618
56° 04′ 50″	0.82982296	0.55802676	1.487066604	0.672464836	1.792028762	1.205076328
56° 05′ 00″	0.82985001	0.55798653	1.487222307	0.672394433	1.792157970	1.205037043
56° 05′ 10″	0.82987706	0.55794629	1.487378032	0.672324035	1.792287201	1.204997763
56° 05′ 20″	0.82990411	0.55790606	1.487533779	0.672253641	1.792416454	1.204958488
56° 05′ 30″	0.82993116	0.55786582	1.487689549	0.672183252	1.792545730	1.204919219
56° 05′ 40″	0.82995820	0.55782559	1.487845342	0.672112868	1.792675030	1.204879956
56° 05′ 50″	0.82998524	0.55778535	1.488001157	0.672042488	1.792804352	1.204840697
56° 06′ 00″	0.83001229	0.55774511	1.488156995	0.671972113	1.792933697	1.204801444
56° 06′ 10″	0.83003932	0.55770487	1.488312855	0.671901742	1.793063064	1.204762197
56° 06′ 20″	0.83006636	0.55766463	1.488468737	0.671831376	1.793192455	1.204722955
56° 06′ 30″	0.83009340	0.55762438	1.488624642	0.671761015	1.793321869	1.204683718
56° 06′ 40″	0.83012043	0.55758414	1.488780570	0.671690658	1.793451305	1.204644487
56° 06′ 50″	0.83014746	0.55754389	1.488936520	0.671620305	1.793580765	1.204605261
56° 07′ 00″	0.83017449	0.55750364	1.489092492	0.671549958	1.793710247	1.204566040
56° 07′ 10″	0.83020152	0.55746340	1.489248487	0.671479615	1.793839752	1.204526825
56° 07′ 20″	0.83022854	0.55742315	1.489404505	0.671409276	1.793969280	1.204487615
56° 07′ 30″	0.83025557	0.55738289	1.489560545	0.671338942	1.794098831	1.204448411
56° 07′ 40″	0.83028259	0.55734264	1.489716607	0.671268612	1.794228405	1.204409212
56° 07′ 50″	0.83030961	0.55730239	1.489872693	0.671198288	1.794358002	1.204370018

421 56° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
56° 08′ 00″	0.83033663	0.55726213	1.490028800	0.671127967	1.794487622	1.204330830
56° 08′ 10″	0.83036364	0.55722188	1.490184931	0.671057652	1.794617265	1.204291647
56° 08′ 20″	0.83039066	0.55718162	1.490341083	0.670987340	1.794746931	1.204252470
56° 08′ 30″	0.83041767	0.55714136	1.490497259	0.670917034	1.794876619	1.204213298
56° 08′ 40″	0.83044468	0.55710110	1.490653457	0.670846732	1.795006331	1.204174131
56° 08′ 50″	0.83047169	0.55706084	1.490809677	0.670776435	1.795136066	1.204134970
56° 09′ 00″	0.83049869	0.55702057	1.490965921	0.670706142	1.795265823	1.204095814
56° 09′ 10″	0.83052570	0.55698031	1.491122186	0.670635853	1.795395604	1.204056663
56° 09′ 20″	0.83055270	0.55694004	1.491278475	0.670565570	1.795525408	1.204017518
56° 09′ 30″	0.83057970	0.55689978	1.491434786	0.670495291	1.795655234	1.203978378
56° 09′ 40″	0.83060670	0.55685951	1.491591119	0.670425016	1.795785084	1.203939244
56° 09′ 50″	0.83063369	0.55681924	1.491747475	0.670354746	1.795914956	1.203900114
56° 10′ 00″	0.83066069	0.55677897	1.491903854	0.670284481	1.796044852	1.203860991
56° 10′ 10″	0.83068768	0.55673870	1.492060256	0.670214220	1.796174770	1.203821872
56° 10′ 20″	0.83071467	0.55669842	1.492216680	0.670143963	1.796304712	1.203782759
56° 10′ 30″	0.83074166	0.55665815	1.492373126	0.670073712	1.796434677	1.203743652
56° 10′ 40″	0.83076865	0.55661787	1.492529596	0.670003465	1.796564664	1.203704550
56° 10′ 50″	0.83079563	0.55657759	1.492686087	0.669933222	1.796694675	1.203665453
56° 11′ 00″	0.83082261	0.55653732	1.492842602	0.669862984	1.796824709	1.203626361
56° 11′ 10″	0.83084959	0.55649704	1.492999139	0.669792750	1.796954766	1.203587275
56° 11′ 20″	0.83087657	0.55645675	1.493155699	0.669722522	1.797084846	1.203548194
56° 11′ 30″	0.83090355	0.55641647	1.493312282	0.669652297	1.797214948	1.203509119
56° 11′ 40″	0.83093053	0.55637619	1.493468887	0.669582077	1.797345074	1.203470049
56° 11′ 50″	0.83095750	0.55633590	1.493625515	0.669511862	1.797475224	1.203430984
56° 12′ 00″	0.83098447	0.55629562	1.493782166	0.669441652	1.797605396	1.203391925
56° 12′ 10″	0.83101144	0.55625533	1.493938839	0.669371445	1.797735591	1.203352871
56° 12′ 20″	0.83103841	0.55621504	1.494095535	0.669301244	1.797865809	1.203313822
56° 12′ 30″	0.83106537	0.55617475	1.494252254	0.669231047	1.797996051	1.203274779
56° 12′ 40″	0.83109233	0.55613446	1.494408995	0.669160854	1.798126315	1.203235741
56° 12′ 50″	0.83111929	0.55609416	1.494565759	0.669090666	1.798256603	1.203196709
56° 13′ 00″	0.83114625	0.55605387	1.494722546	0.669020483	1.798386913	1.203157682
56° 13′ 10″	0.83117321	0.55601357	1.494879356	0.668950304	1.798517247	1.203118660
56° 13′ 20″	0.83120017	0.55597328	1.495036188	0.668880130	1.798647604	1.203079643
56° 13′ 30″	0.83122712	0.55593298	1.495193043	0.668809960	1.798777984	1.203040632
56° 13′ 40″	0.83125407	0.55589268	1.495349921	0.668739795	1.798908387	1.203001627
56° 13′ 50″ 56° 14′ 00″	0.83128102	0.55585238	1.495506821	0.668669635	1.799038814	1.202962626
56° 14′ 10″	0.83130797	0.55581207	1.495663745 1.495820691	0.668599479	1.799169263	1.202923631
56° 14′ 10″ 56° 14′ 20″	0.83133491	0.55577177	1.495977660	0.668529327	1.799299736	1.202884642
56° 14′ 30″	0.83136186	0.55573147		0.668459180	1.799430232	1.202845657 1.202806679
56° 14′ 40″	0.83138880	0.55569116	1.496134651	0.668389038	1.799560750 1.799691293	
56° 14′ 40″ 56° 14′ 50″	0.83141574 0.83144268	0.55565085 0.55561054	1.496291666 1.496448703	0.668318900 0.668248767	1.799821858	1.202767705 1.202728737
56° 15′ 00″	0.83144268	0.55557023	1.496448703	0.668178638	1.799821838	1.202/28/3/
56° 15′ 10″	0.83146961	0.55552992	1.496603763	0.668108514	1.799932446	1.202659774
56° 15′ 20″	0.83152348	0.55548961	1.496919951	0.668038394	1.800213693	1.202630816
56° 15′ 30″	0.83155041	0.55544929	1.496919931	0.667968279	1.800344351	1.2025772917
56° 15′ 40″	0.83157734	0.55540898	1.497234230	0.667898168	1.800344331	1.202572717
56° 15′ 50″	0.83157734	0.55536866	1.497391404	0.667828062	1.800473032	1.202333776
	0.03100420	V.33330000	1,7/13/1404	0.007020002	1.000003730	1.2027/3040

422 56° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
56° 16′ 00″	0.83163119	0.55532834	1.497548601	0.667757961	1.800736464	1.202456109
56° 16′ 10″	0.83165811	0.55528803	1.497705821	0.667687864	1.800867215	1.202417184
56° 16′ 20″	0.83168503	0.55524770	1.497863063	0.667617771	1.800997989	1.202378264
56° 16′ 30″	0.83171195	0.55520738	1.498020328	0.667547683	1.801128786	1.202339349
56° 16′ 40″	0.83173886	0.55516706	1.498177617	0.667477600	1.801259607	1.202300439
56° 16′ 50″	0.83176578	0.55512674	1.498334928	0.667407521	1.801390451	1.202261535
56° 17′ 00″	0.83179269	0.55508641	1.498492261	0.667337447	1.801521318	1.202222637
56° 17′ 10″	0.83181960	0.55504608	1.498649618	0.667267377	1.801652208	1.202183743
56° 17′ 20″	0.83184651	0.55500575	1.498806998	0.667197312	1.801783121	1.202144855
56° 17′ 30″	0.83187341	0.55496542	1.498964400	0.667127251	1.801914058	1.202105973
56° 17′ 40″	0.83190032	0.55492509	1.499121825	0.667057195	1.802045018	1.202067095
56° 17′ 50″	0.83192722	0.55488476	1.499279274	0.666987143	1.802176002	1.202028223
56° 18′ 00″	0.83195412	0.55484443	1.499436745	0.666917096	1.802307008	1.201989357
56° 18′ 10″	0.83198102	0.55480409	1.499594239	0.666847054	1.802438038	1.201950495
56° 18′ 20″	0.83200792	0.55476376	1.499751756	0.666777016	1.802569091	1.201911639
56° 18′ 30″	0.83203481	0.55472342	1.499909295	0.666706982	1.802700168	1.201872789
56° 18′ 40″	0.83206170	0.55468308	1.500066858	0.666636953	1.802831267	1.201833943
56° 18′ 50″	0.83208860	0.55464274	1.500224444	0.666566929	1.802962391	1.201795103
56° 19′ 00″	0.83211548	0.55460240	1.500382052	0.666496909	1.803093537	1.201756269
56° 19′ 10″	0.83214237	0.55456206	1.500539684	0.666426893	1.803224707	1.201717439
56° 19′ 20″	0.83216926	0.55452171	1.500697338	0.666356883	1.803355900	1.201678616
56° 19′ 30″	0.83219614	0.55448137	1.500855016	0.666286876	1.803487116	1.201639797
56° 19′ 40″	0.83222302	0.55444102	1.501012716	0.666216874	1.803618356	1.201600984
56° 19′ 50″	0.83224990	0.55440067	1.501170439	0.666146877	1.803749619	1.201562176
56° 20′ 00″	0.83227678	0.55436032	1.501328185	0.666076884	1.803880905	1.201523373
56° 20′ 10″	0.83230365	0.55431997	1.501485955	0.666006896	1.804012215	1.201484576
56° 20′ 20″	0.83233053	0.55427962	1.501643747	0.665936912	1.804143548	1.201445784
56° 20′ 30″	0.83235740	0.55423927	1.501801562	0.665866933	1.804274905	1.201406997
56° 20′ 40″	0.83238427	0.55419891	1.501959400	0.665796958	1.804406284	1.201368216
56° 20′ 50″	0.83241113	0.55415856	1.502117261	0.665726988	1.804537688	1.201329440
56° 21′ 00″	0.83243800	0.55411820	1.502275145	0.665657022	1.804669114	1.201290669
56° 21′ 10″	0.83246486	0.55407784	1.502433052	0.665587061	1.804800564	1.201251904
56° 21′ 20″	0.83249172	0.55403748	1.502590982	0.665517105	1.804932038	1.201213144
56° 21′ 30″	0.83251858	0.55399712	1.502748936	0.665447152	1.805063534	1.201174389
56° 21′ 40″	0.83254544	0.55395676	1.502906912	0.665377205	1.805195055	1.201135640
56° 21′ 50″	0.83257230	0.55391639	1.503064911	0.665307262	1.805326598	1.201096896
56° 22′ 00″	0.83259915	0.55387603	1.503222933	0.665237323	1.805458165	1.201058157
56° 22′ 10″	0.83262600	0.55383566	1.503380978	0.665167389	1.805589756	1.201019423
56° 22′ 20″	0.83265285	0.55379530	1.503539047	0.665097459	1.805721370	1.200980695
56° 22′ 30″	0.83267970	0.55375493	1.503697138	0.665027534	1.805853007	1.200941973
56° 22′ 40″	0.83270654	0.55371456	1.503855252	0.664957614	1.805984668	1.200903255
56° 22′ 50″	0.83273339	0.55367419	1.504013390	0.664887698	1.806116352	1.200864543
56° 23′ 00″	0.83276023	0.55363381	1.504171550	0.664817786	1.806248059	1.200825836
56° 23′ 10″	0.83278707	0.55359344	1.504329734	0.664747879	1.806379791	1.200787135
56° 23′ 20″	0.83281391	0.55355306	1.504487940	0.664677977	1.806511545	1.200748439
56° 23′ 30″	0.83284074	0.55351269	1.504646170	0.664608079	1.806643323	1.200709748
56° 23′ 40″	0.83286758	0.55347231	1.504804423	0.664538185	1.806775125	1.200671062
56° 23′ 50″	0.83289441	0.55343193	1.504962699	0.664468296	1.806906950	1.200632382

423 56° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
56° 24′ 00″	0.83292124	0.55339155	1.505120998	0.664398412	1.807038798	1.200593707
56° 24′ 10″	0.83294807	0.55335117	1.505279320	0.664328531	1.807170670	1.200555037
56° 24′ 20″	0.83297490	0.55331078	1.505437665	0.664258656	1.807302565	1.200516373
56° 24′ 30″	0.83300172	0.55327040	1.505596033	0.664188785	1.807434484	1.200477714
56° 24′ 40″	0.83302854	0.55323001	1.505754425	0.664118918	1.807566427	1.200439060
56° 24′ 50″	0.83305536	0.55318963	1.505912839	0.664049056	1.807698393	1.200400412
56° 25′ 00″	0.83308218	0.55314924	1.506071277	0.663979199	1.807830382	1.200361769
56° 25′ 10″	0.83310900	0.55310885	1.506229738	0.663909346	1.807962395	1.200323131
56° 25′ 20″	0.83313581	0.55306846	1.506388222	0.663839497	1.808094432	1.200284499
56° 25′ 30″	0.83316262	0.55302807	1.506546729	0.663769653	1.808226492	1.200245872
56° 25′ 40″	0.83318943	0.55298767	1.506705259	0.663699814	1.808358576	1.200207250
56° 25′ 50″	0.83321624	0.55294728	1.506863813	0.663629979	1.808490683	1.200168633
56° 26′ 00″	0.83324305	0.55290688	1.507022389	0.663560148	1.808622814	1.200130022
56° 26′ 10″	0.83326985	0.55286648	1.507180989	0.663490322	1.808754968	1.200091416
56° 26′ 20″	0.83329666	0.55282609	1.507339612	0.663420501	1.808887146	1.200052816
56° 26′ 30″	0.83332346	0.55278569	1.507498258	0.663350684	1.809019347	1.200014220
56° 26′ 40″	0.83335026	0.55274528	1.507656928	0.663280871	1.809151572	1.199975630
56° 26′ 50″	0.83337705	0.55270488	1.507815620	0.663211063	1.809283821	1.199937046
56° 27′ 00″	0.83340385	0.55266448	1.507974336	0.663141259	1.809416093	1.199898466
56° 27′ 10″	0.83343064	0.55262407	1.508133075	0.663071460	1.809548389	1.199859892
56° 27′ 20″	0.83345743	0.55258367	1.508291837	0.663001666	1.809680708	1.199821324
56° 27′ 30″	0.83348422	0.55254326	1.508450622	0.662931875	1.809813051	1.199782760
56° 27′ 40″	0.83351101	0.55250285	1.508609431	0.662862090	1.809945418	1.199744202
56° 27′ 50″	0.83353779	0.55246244	1.508768263	0.662792309	1.810077808	1.199705649
56° 28′ 00″	0.83356458	0.55242203	1.508927118	0.662722532	1.810210222	1.199667101
56° 28′ 10″	0.83359136	0.55238161	1.509085996	0.662652760	1.810342659	1.199628559
56° 28′ 20″	0.83361814	0.55234120	1.509244898	0.662582992	1.810475120	1.199590022
56° 28′ 30″	0.83364491	0.55230078	1.509403823	0.662513229	1.810607605	1.199551490
56° 28′ 40″	0.83367169	0.55226037	1.509562771	0.662443470	1.810740114	1.199512964
56° 28′ 50″	0.83369846	0.55221995	1.509721742	0.662373716	1.810872646	1.199474443
56° 29′ 00″	0.83372523	0.55217953	1.509880737	0.662303966	1.811005201	1.199435927
56° 29′ 10″	0.83375200	0.55213911	1.510039755	0.662234221	1.811137781	1.199397417
56° 29′ 20″	0.83377877	0.55209869	1.510198796	0.662164480	1.811270384	1.199358911
56° 29′ 30″	0.83380554	0.55205826	1.510357860	0.662094743	1.811403010	1.199320411
56° 29′ 40″	0.83383230	0.55201784	1.510516948	0.662025012	1.811535661	1.199281917
56° 29′ 50″	0.83385906	0.55197741	1.510676059	0.661955284	1.811668335	1.199243427
56° 30′ 00″	0.83388582	0.55193699	1.510835194	0.661885561	1.811801033	1.199204943
56° 30′ 10″	0.83391258	0.55189656	1.510994351	0.661815843	1.811933754	1.199166465
56° 30′ 20″	0.83393934	0.55185613	1.511153532	0.661746129	1.812066499	1.199127991
56° 30′ 30″	0.83396609	0.55181570	1.511312737	0.661676419	1.812199268	1.199089523
56° 30′ 40″	0.83399284	0.55177526	1.511471964	0.661606714	1.812332061	1.199051060
56° 30′ 50″	0.83401959	0.55173483	1.511631215	0.661537014	1.812464877	1.199012602
56° 31′ 00″	0.83404634	0.55169439	1.511790490	0.661467318	1.812597717	1.198974150
56° 31′ 10″	0.83407308	0.55165396	1.511949788	0.661397626	1.812730581	1.198935703
56° 31′ 20″	0.83409983	0.55161352	1.512109109	0.661327939	1.812863469	1.198897261
56° 31′ 30″	0.83412657	0.55157308	1.512268453	0.661258256	1.812996380	1.198858825
56° 31′ 40″	0.83415331	0.55153264	1.512427821	0.661188578	1.813129315	1.198820393
56° 31′ 50″	0.83418005	0.55149220	1.512587212	0.661118904	1.813262274	1.198781967

424 56° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
56° 32′ 00″	0.83420678	0.55145176	1.512746627	0.661049235	1.813395256	1.198743547
56° 32′ 10″	0.83423352	0.55141131	1.512906064	0.660979570	1.813528263	1.198705131
56° 32′ 20″	0.83426025	0.55137087	1.513065526	0.660909910	1.813661293	1.198666721
56° 32′ 30″	0.83428698	0.55133042	1.513225011	0.660840254	1.813794347	1.198628316
56° 32′ 40″	0.83431371	0.55128997	1.513384519	0.660770602	1.813927425	1.198589917
56° 32′ 50″	0.83434044	0.55124952	1.513544050	0.660700955	1.814060526	1.198551523
56° 33′ 00″	0.83436716	0.55120907	1.513703605	0.660631313	1.814193651	1.198513134
56° 33′ 10″	0.83439388	0.55116862	1.513863184	0.660561675	1.814326800	1.198474750
56° 33′ 20″	0.83442060	0.55112817	1.514022785	0.660492041	1.814459973	1.198436372
56° 33′ 30″	0.83444732	0.55108771	1.514182411	0.660422412	1.814593170	1.198397998
56° 33′ 40″	0.83447404	0.55104726	1.514342059	0.660352787	1.814726390	1.198359630
56° 33′ 50″	0.83450075	0.55100680	1.514501731	0.660283167	1.814859635	1.198321268
56° 34′ 00″	0.83452747	0.55096634	1.514661427	0.660213552	1.814992903	1.198282911
56° 34′ 10″	0.83455418	0.55092588	1.514821146	0.660143940	1.815126195	1.198244558
56° 34′ 20″	0.83458088	0.55088542	1.514980888	0.660074333	1.815259511	1.198206212
56° 34′ 30″	0.83460759	0.55084496	1.515140654	0.660004731	1.815392851	1.198167870
56° 34′ 40″	0.83463430	0.55080450	1.515300444	0.659935133	1.815526214	1.198129534
56° 34′ 50″	0.83466100	0.55076403	1.515460257	0.659865540	1.815659602	1.198091203
56° 35′ 00″	0.83468770	0.55072356	1.515620093	0.659795951	1.815793013	1.198052877
56° 35′ 10″	0.83471440	0.55068310	1.515779953	0.659726366	1.815926448	1.198014557
56° 35′ 20″	0.83474110	0.55064263	1.515939836	0.659656786	1.816059907	1.197976241
56° 35′ 30″	0.83476779	0.55060216	1.516099743	0.659587210	1.816193390	1.197937932
56° 35′ 40″	0.83479448	0.55056169	1.516259674	0.659517639	1.816326897	1.197899627
56° 35′ 50″	0.83482117	0.55052121	1.516419627	0.659448072	1.816460428	1.197861328
56° 36′ 00″	0.83484786	0.55048074	1.516579605	0.659378510	1.816593983	1.197823033
56° 36′ 10″	0.83487455	0.55044026	1.516739606	0.659308952	1.816727561	1.197784745
56° 36′ 20″	0.83490124	0.55039979	1.516899630	0.659239399	1.816861164	1.197746461
56° 36′ 30″	0.83492792	0.55035931	1.517059678	0.659169850	1.816994790	1.197708183
56° 36′ 40″	0.83495460	0.55031883	1.517219750	0.659100305	1.817128440	1.197669910
56° 36′ 50″	0.83498128	0.55027835	1.517379845	0.659030765	1.817262115	1.197631642
56° 37′ 00″	0.83500796	0.55023787	1.517539964	0.658961229	1.817395813	1.197593379
56° 37′ 10″	0.83503463	0.55019739	1.517700106	0.658891698	1.817529535	1.197555122
56° 37′ 20″	0.83506130	0.55015690	1.517860272	0.658822171	1.817663281	1.197516870
56° 37′ 30″	0.83508798	0.55011642	1.518020461	0.658752649	1.817797051	1.197478623
56° 37′ 40″	0.83511465	0.55007593	1.518180674	0.658683131	1.817930845	1.197440382
56° 37′ 50″	0.83514131	0.55003544	1.518340910	0.658613618	1.818064663	1.197402145
56° 38′ 00″	0.83516798	0.54999495	1.518501171	0.658544109	1.818198505	1.197363914
56° 38′ 10″	0.83519464	0.54995446	1.518661454	0.658474604	1.818332371	1.197325688
56° 38′ 20″	0.83522130	0.54991397	1.518821762	0.658405104	1.818466261	1.197287468
56° 38′ 30″	0.83524796	0.54987348	1.518982093	0.658335608	1.818600175	1.197249253
56° 38′ 40″	0.83527462	0.54983298	1.519142447	0.658266117	1.818734113	1.197211043
56° 38′ 50″	0.83530128	0.54979249	1.519302825	0.658196630	1.818868075	1.197172838
56° 39′ 00″	0.83532793	0.54975199	1.519463227	0.658127148	1.819002061	1.197134639
56° 39′ 10″	0.83535458	0.54971149	1.519623653	0.658057670	1.819136071	1.197096444
56° 39′ 20″	0.83538123	0.54967099	1.519784102	0.657988196	1.819270105	1.197058255
56° 39′ 30″	0.83540788	0.54963049	1.519944574	0.657918727	1.819404163	1.197020072
56° 39′ 40″	0.83543453	0.54958999	1.520105071	0.657849263	1.819538245	1.196981893
56° 39′ 50″	0.83546117	0.54954948	1.520265591	0.657779802	1.819672351	1.196943720

425 56° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
56° 40′ 00″	0.83548781	0.54950898	1.520426135	0.657710347	1.819806482	1.196905552
56° 40′ 10″	0.83551445	0.54946847	1.520586702	0.657640895	1.819940636	1.196867389
56° 40′ 20″	0.83554109	0.54942796	1.520747293	0.657571448	1.820074814	1.196829232
56° 40′ 30″	0.83556773	0.54938746	1.520907908	0.657502006	1.820209016	1.196791079
56° 40′ 40″	0.83559436	0.54934695	1.521068546	0.657432568	1.820343243	1.196752932
56° 40′ 50″	0.83562099	0.54930643	1.521229208	0.657363134	1.820477493	1.196714791
56° 41′ 00″	0.83564762	0.54926592	1.521389894	0.657293705	1.820611768	1.196676654
56° 41′ 10″	0.83567425	0.54922541	1.521550604	0.657224280	1.820746067	1.196638523
56° 41′ 20″	0.83570088	0.54918489	1.521711337	0.657154860	1.820880389	1.196600397
56° 41′ 30″	0.83572750	0.54914438	1.521872094	0.657085444	1.821014736	1.196562276
56° 41′ 40″	0.83575412	0.54910386	1.522032874	0.657016032	1.821149107	1.196524160
56° 41′ 50″	0.83578074	0.54906334	1.522193679	0.656946625	1.821283502	1.196486050
56° 42′ 00″	0.83580736	0.54902282	1.522354507	0.656877222	1.821417921	1.196447945
56° 42′ 10″	0.83583398	0.54898230	1.522515359	0.656807824	1.821552365	1.196409845
56° 42′ 20″	0.83586059	0.54894177	1.522676234	0.656738430	1.821686832	1.196371751
56° 42′ 30″	0.83588720	0.54890125	1.522837134	0.656669041	1.821821324	1.196333661
56° 42′ 40″	0.83591382	0.54886072	1.522998057	0.656599656	1.821955840	1.196295577
56° 42′ 50″	0.83594042	0.54882020	1.523159004	0.656530275	1.822090379	1.196257498
56° 43′ 00″	0.83596703	0.54877967	1.523319974	0.656460899	1.822224943	1.196219425
56° 43′ 10″	0.83599363	0.54873914	1.523480969	0.656391527	1.822359532	1.196181356
56° 43′ 20″	0.83602024	0.54869861	1.523641987	0.656322160	1.822494144	1.196143293
56° 43′ 30″	0.83604684	0.54865808	1.523803029	0.656252797	1.822628781	1.196105235
56° 43′ 40″	0.83607344	0.54861754	1.523964095	0.656183438	1.822763441	1.196067182
56° 43′ 50″	0.83610003	0.54857701	1.524125185	0.656114084	1.822898126	1.196029135
56° 44′ 00″	0.83612663	0.54853647	1.524286298	0.656044735	1.823032835	1.195991093
56° 44′ 10″	0.83615322	0.54849593	1.524447435	0.655975389	1.823167569	1.195953056
56° 44′ 20″	0.83617981	0.54845540	1.524608596	0.655906049	1.823302326	1.195915024
56° 44′ 30″	0.83620640	0.54841486	1.524769781	0.655836712	1.823437108	1.195876997
56° 44′ 40″	0.83623299	0.54837432	1.524930990	0.655767380	1.823571914	1.195838976
56° 44′ 50″	0.83625957	0.54833377	1.525092223	0.655698052	1.823706744	1.195800960
56° 45′ 00″	0.83628616	0.54829323	1.525253479	0.655628729	1.823841598	1.195762949
56° 45′ 10″	0.83631274	0.54825268	1.525414759	0.655559410	1.823976477	1.195724943
56° 45′ 20″	0.83633932	0.54821214	1.525576063	0.655490096	1.824111380	1.195686943
56° 45′ 30″	0.83636589	0.54817159	1.525737391	0.655420786	1.824246307	1.195648948
56° 45′ 40″	0.83639247	0.54813104	1.525898743	0.655351480	1.824381258	1.195610958
56° 45′ 50″	0.83641904	0.54809049	1.526060119	0.655282179	1.824516234	1.195572973
56° 46′ 00″	0.83644561	0.54804994	1.526221519	0.655212882	1.824651233	1.195534994
56° 46′ 10″	0.83647218	0.54800939	1.526382942	0.655143590	1.824786258	1.195497019
56° 46′ 20″	0.83649875	0.54796883	1.526544389	0.655074302	1.824921306	1.195459050
56° 46′ 30″	0.83652531	0.54792828	1.526705861	0.655005018	1.825056379	1.195421086
56° 46′ 40″	0.83655188	0.54788772	1.526867356	0.654935739	1.825191476	1.195383128
56° 46′ 50″	0.83657844	0.54784716	1.527028875	0.654866464	1.825326597	1.195345174
56° 47′ 00″	0.83660500	0.54780661	1.527190418	0.654797194	1.825461742	1.195307226
56° 47′ 10″	0.83663156	0.54776604	1.527351985	0.654727928	1.825596912	1.195269283
56° 47′ 20″	0.83665811	0.54772548	1.527513576	0.654658666	1.825732106	1.195231345
56° 47′ 30″	0.83668466	0.54768492	1.527675191	0.654589409	1.825867325	1.195193413
56° 47′ 40″	0.83671122	0.54764436	1.527836829	0.654520156	1.826002568	1.195155486
56° 47′ 50″	0.83673777	0.54760379	1.527998492	0.654450908	1.826137835	1.195117563

426 56° 47′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
56° 48′ 00″	0.83676431	0.54756322	1.528160179	0.654381664	1.826273126	1.195079647
56° 48′ 10″	0.83679086	0.54752266	1.528321889	0.654312424	1.826408442	1.195041735
56° 48′ 20″	0.83681740	0.54748209	1.528483624	0.654243189	1.826543782	1.195003828
56° 48′ 30″	0.83684394	0.54744152	1.528645382	0.654173958	1.826679147	1.194965927
56° 48′ 40″	0.83687048	0.54740094	1.528807165	0.654104731	1.826814536	1.194928031
56° 48′ 50″	0.83689702	0.54736037	1.528968971	0.654035509	1.826949949	1.194890140
56° 49′ 00″	0.83692356	0.54731980	1.529130802	0.653966292	1.827085386	1.194852255
56° 49′ 10″	0.83695009	0.54727922	1.529292656	0.653897078	1.827220848	1.194814374
56° 49′ 20″	0.83697662	0.54723864	1.529454535	0.653827869	1.827356335	1.194776499
56° 49′ 30″	0.83700315	0.54719806	1.529616437	0.653758665	1.827491846	1.194738629
56° 49′ 40″	0.83702968	0.54715748	1.529778364	0.653689465	1.827627381	1.194700764
56° 49′ 50″	0.83705621	0.54711690	1.529940314	0.653620269	1.827762940	1.194662905
56° 50′ 00″	0.83708273	0.54707632	1.530102289	0.653551078	1.827898524	1.194625050
56° 50′ 10″	0.83710925	0.54703574	1.530264288	0.653481891	1.828034133	1.194587201
56° 50′ 20″	0.83713577	0.54699515	1.530426310	0.653412708	1.828169765	1.194549357
56° 50′ 30″	0.83716229	0.54695457	1.530588357	0.653343530	1.828305423	1.194511519
56° 50′ 40″	0.83718881	0.54691398	1.530750428	0.653274356	1.828441104	1.194473685
56° 50′ 50″	0.83721532	0.54687339	1.530912522	0.653205187	1.828576810	1.194435857
56° 51′ 00″	0.83724183	0.54683280	1.531074641	0.653136022	1.828712541	1.194398034
56° 51′ 10″	0.83726834	0.54679221	1.531236784	0.653066861	1.828848296	1.194360216
56° 51′ 20″	0.83729485	0.54675162	1.531398951	0.652997705	1.828984075	1.194322403
56° 51′ 30″	0.83732136	0.54671102	1.531561142	0.652928553	1.829119879	1.194284595
56° 51′ 40″	0.83734786	0.54667043	1.531723357	0.652859405	1.829255708	1.194246793
56° 51′ 50″	0.83737437	0.54662983	1.531885597	0.652790262	1.829391560	1.194208996
56° 52′ 00″	0.83740087	0.54658923	1.532047860	0.652721123	1.829527438	1.194171204
56° 52′ 10″	0.83742736	0.54654863	1.532210148	0.652651989	1.829663340	1.194133417
56° 52′ 20″	0.83745386	0.54650803	1.532372459	0.652582859	1.829799266	1.194095636
56° 52′ 30″	0.83748035	0.54646743	1.532534795	0.652513733	1.829935217	1.194057859
56° 52′ 40″	0.83750685	0.54642683	1.532697155	0.652444612	1.830071192	1.194020088
56° 52′ 50″	0.83753334	0.54638623	1.532859539	0.652375495	1.830207192	1.193982322
56° 53′ 00″	0.83755983	0.54634562	1.533021947	0.652306382	1.830343216	1.193944562
56° 53′ 10″	0.83758631	0.54630501	1.533184379	0.652237274	1.830479265	1.193906806
56° 53′ 20″ 56° 53′ 30″	0.83761280	0.54626441	1.533346835	0.652168170	1.830615338	1.193869056
	0.83763928	0.54622380	1.533509316	0.652099071	1.830751436	1.193831311
56° 53′ 40″	0.83766576	0.54618319	1.533671821	0.652029976	1.830887559	1.193793571
56° 53′ 50″ 56° 54′ 00″	0.83769224 0.83771872	0.54614257	1.533834349	0.651960885	1.831023706	1.193755836
56° 54′ 10″	0.83771872	0.54610196	1.533996902	0.651891799	1.831159877	1.193718106
56° 54′ 20″		0.54606135	1.534159480	0.651822717	1.831296074	1.193680382 1.193642663
56° 54′ 30″	0.83777166	0.54602073	1.534322081	0.651753639	1.831432294	
56° 54′ 40″	0.83779814 0.83782460	0.54598011 0.54593950	1.534484707 1.534647356	0.651684566 0.651615497	1.831568540 1.831704809	1.193604949 1.193567240
56° 54′ 50″	0.83785107	0.54589888	1.534647336	0.651546433	1.831704809	1.193567240
56° 55′ 00″	0.83787754	0.54585826	1.534810030	0.651346433	1.831977423	1.193329336
56° 55′ 10″	0.83790400	0.54581763	1.535135451	0.651477372	1.832113766	1.193451144
56° 55′ 20″	0.83793046	0.54577701	1.535153431	0.651339265	1.832250135	1.193434144
56° 55′ 30″	0.83795692	0.54577701	1.535460969	0.651270218	1.832386528	1.193378773
56° 55′ 40″	0.83798338	0.54569576	1.535623764	0.651201175	1.832522945	1.173376773
56° 55′ 50″	0.83800983	0.54565513	1.535786583	0.651201173	1.832522745	1.193303423
	0.03000703	0.07000010	1.5557 00505	0.031132137	1.032037307	1.173303423

427 56° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
56° 56′ 00″	0.83803628	0.54561450	1.535949427	0.651063103	1.832795854	1.193265756
56° 56′ 10″	0.83806274	0.54557387	1.536112295	0.650994073	1.832932345	1.193228094
56° 56′ 20″	0.83808918	0.54553324	1.536275187	0.650925048	1.833068861	1.193190437
56° 56′ 30″	0.83811563	0.54549261	1.536438103	0.650856027	1.833205402	1.193152785
56° 56′ 40″	0.83814208	0.54545198	1.536601044	0.650787011	1.833341967	1.193115138
56° 56′ 50″	0.83816852	0.54541134	1.536764009	0.650717999	1.833478557	1.193077497
56° 57′ 00″	0.83819496	0.54537071	1.536926998	0.650648991	1.833615171	1.193039861
56° 57′ 10″	0.83822140	0.54533007	1.537090011	0.650579987	1.833751811	1.193002230
56° 57′ 20″	0.83824784	0.54528943	1.537253049	0.650510988	1.833888475	1.192964604
56° 57′ 30″	0.83827427	0.54524879	1.537416111	0.650441993	1.834025163	1.192926983
56° 57′ 40″	0.83830071	0.54520815	1.537579198	0.650373003	1.834161877	1.192889367
56° 57′ 50″	0.83832714	0.54516751	1.537742309	0.650304017	1.834298615	1.192851757
56° 58′ 00″	0.83835357	0.54512686	1.537905444	0.650235035	1.834435377	1.192814152
56° 58′ 10″	0.83838000	0.54508622	1.538068603	0.650166058	1.834572165	1.192776552
56° 58′ 20″	0.83840642	0.54504557	1.538231787	0.650097085	1.834708977	1.192738957
56° 58′ 30″	0.83843284	0.54500492	1.538394995	0.650028116	1.834845814	1.192701367
56° 58′ 40″	0.83845927	0.54496427	1.538558227	0.649959152	1.834982675	1.192663783
56° 58′ 50″	0.83848569	0.54492362	1.538721484	0.649890192	1.835119562	1.192626203
56° 59′ 00″	0.83851210	0.54488297	1.538884765	0.649821236	1.835256473	1.192588629
56° 59′ 10″	0.83853852	0.54484232	1.539048071	0.649752285	1.835393408	1.192551060
56° 59′ 20″	0.83856493	0.54480166	1.539211401	0.649683338	1.835530369	1.192513496
56° 59′ 30″	0.83859134	0.54476101	1.539374755	0.649614395	1.835667354	1.192475938
56° 59′ 40″	0.83861775	0.54472035	1.539538133	0.649545457	1.835804364	1.192438384
56° 59′ 50″	0.83864416	0.54467969	1.539701536	0.649476523	1.835941399	1.192400836
57° 00′ 00″	0.83867057	0.54463904	1.539864964	0.649407593	1.836078459	1.192363293
57° 00′ 10″	0.83869697	0.54459837	1.540028416	0.649338668	1.836215543	1.192325755
57° 00′ 20″	0.83872337	0.54455771	1.540191892	0.649269747	1.836352652	1.192288222
57° 00′ 30″	0.83874977	0.54451705	1.540355393	0.649200830	1.836489786	1.192250694
57° 00′ 40″	0.83877617	0.54447639	1.540518918	0.649131918	1.836626945	1.192213172
57° 00′ 50″	0.83880257	0.54443572	1.540682467	0.649063010	1.836764129	1.192175655
57° 01′ 00″	0.83882896	0.54439505	1.540846041	0.648994107	1.836901337	1.192138142
57° 01′ 10″	0.83885535	0.54435438	1.541009639	0.648925208	1.837038570	1.192100635
57° 01′ 20″	0.83888174	0.54431371	1.541173262	0.648856313	1.837175828	1.192063134
57° 01′ 30″	0.83890813	0.54427304	1.541336909	0.648787422	1.837313111	1.192025637
57° 01′ 40″	0.83893452	0.54423237	1.541500581	0.648718536	1.837450419	1.191988145
57° 01′ 50″	0.83896090	0.54419170	1.541664277	0.648649654	1.837587751	1.191950659
57° 02′ 00″	0.83898728	0.54415102	1.541827998	0.648580776	1.837725109	1.191913178
57° 02′ 10″	0.83901366	0.54411035	1.541991743	0.648511903	1.837862491	1.191875702
57° 02′ 20″	0.83904004	0.54406967	1.542155513	0.648443034	1.837999898	1.191838231
57° 02′ 30″	0.83906642	0.54402899	1.542319307	0.648374170	1.838137330	1.191800765
57° 02′ 40″	0.83909279	0.54398831	1.542483126	0.648305309	1.838274787	1.191763305
57° 02′ 50″	0.83911917	0.54394763	1.542646969	0.648236454	1.838412269	1.191725849
57° 03′ 00″	0.83914554	0.54390695	1.542810836	0.648167602	1.838549775	1.191688399
57° 03′ 10″	0.83917190	0.54386627	1.542974728	0.648098755	1.838687307	1.191650954
57° 03′ 20″	0.83919827	0.54382558	1.543138645	0.648029912	1.838824863	1.191613514
57° 03′ 30″	0.83922463	0.54378490	1.543302586	0.647961073	1.838962445	1.191576079
57° 03′ 40″	0.83925100	0.54374421	1.543466552	0.647892239	1.839100051	1.191538649
57° 03′ 50″	0.83927736	0.54370352	1.543630542	0.647823409	1.839237682	1.191501225
	1 3.00.27.00	3.0.0,0002				

428 57° 03′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
57° 04′ 00″	0.83930372	0.54366283	1.543794557	0.647754583	1.839375338	1.191463806
57° 04′ 10″	0.83933007	0.54362214	1.543958596	0.647685762	1.839513019	1.191426391
57° 04′ 20″	0.83935643	0.54358145	1.544122660	0.647616945	1.839650725	1.191388982
57° 04′ 30″	0.83938278	0.54354075	1.544286749	0.647548132	1.839788456	1.191351579
57° 04′ 40″	0.83940913	0.54350006	1.544450862	0.647479324	1.839926212	1.191314180
57° 04′ 50″	0.83943548	0.54345936	1.544615000	0.647410520	1.840063993	1.191276786
57° 05′ 00″	0.83946183	0.54341866	1.544779162	0.647341720	1.840201798	1.191239398
57° 05′ 10″	0.83948817	0.54337796	1.544943349	0.647272925	1.840339629	1.191202014
57° 05′ 20″	0.83951451	0.54333726	1.545107560	0.647204134	1.840477485	1.191164636
57° 05′ 30″	0.83954085	0.54329656	1.545271796	0.647135347	1.840615366	1.191127263
57° 05′ 40″	0.83956719	0.54325586	1.545436057	0.647066565	1.840753271	1.191089895
57° 05′ 50″	0.83959353	0.54321516	1.545600342	0.646997786	1.840891202	1.191052533
57° 06′ 00″	0.83961986	0.54317445	1.545764652	0.646929013	1.841029158	1.191015175
57° 06′ 10″	0.83964620	0.54313374	1.545928986	0.646860243	1.841167138	1.190977823
57° 06′ 20″	0.83967253	0.54309304	1.546093346	0.646791478	1.841305144	1.190940475
57° 06′ 30″	0.83969886	0.54305233	1.546257729	0.646722717	1.841443175	1.190903133
57° 06′ 40″	0.83972518	0.54301162	1.546422138	0.646653961	1.841581230	1.190865796
57° 06′ 50″	0.83975151	0.54297090	1.546586571	0.646585208	1.841719311	1.190828464
57° 07′ 00″	0.83977783	0.54293019	1.546751029	0.646516460	1.841857417	1.190791138
57° 07′ 10″	0.83980415	0.54288948	1.546915511	0.646447717	1.841995548	1.190753816
57° 07′ 20″	0.83983047	0.54284876	1.547080018	0.646378977	1.842133704	1.190716500
57° 07′ 30″	0.83985679	0.54280804	1.547244550	0.646310242	1.842271885	1.190679188
57° 07′ 40″	0.83988310	0.54276733	1.547409106	0.646241512	1.842410091	1.190641882
57° 07′ 50″	0.83990942	0.54272661	1.547573687	0.646172785	1.842548322	1.190604581
57° 08′ 00″	0.83993573	0.54268589	1.547738293	0.646104063	1.842686578	1.190567285
57° 08′ 10″	0.83996204	0.54264517	1.547902924	0.646035345	1.842824859	1.190529994
57° 08′ 20″	0.83998834	0.54260444	1.548067579	0.645966632	1.842963165	1.190492709
57° 08′ 30″	0.84001465	0.54256372	1.548232259	0.645897923	1.843101497	1.190455428
57° 08′ 40″	0.84004095	0.54252299	1.548396964	0.645829218	1.843239853	1.190418153
57° 08′ 50″	0.84006725	0.54248226	1.548561693	0.645760517	1.843378235	1.190380883
57° 09′ 00″	0.84009355	0.54244154	1.548726447	0.645691821	1.843516642	1.190343618
57° 09′ 10″	0.84011985	0.54240081	1.548891226	0.645623129	1.843655074	1.190306358
57° 09′ 20″	0.84014615	0.54236008	1.549056030	0.645554441	1.843793531	1.190269103
57° 09′ 30″	0.84017244	0.54231934	1.549220858	0.645485758	1.843932013	1.190231853
57° 09′ 40″	0.84019873	0.54227861	1.549385711	0.645417079	1.844070520	1.190194608
57° 09′ 50″	0.84022502	0.54223788	1.549550589	0.645348404	1.844209052	1.190157369
57° 10′ 00″	0.84025131	0.54219714	1.549715492	0.645279734	1.844347610	1.190120135
57° 10′ 10″	0.84027759	0.54215640	1.549880419	0.645211068	1.844486193	1.190082905
57° 10′ 20″	0.84030388	0.54211566	1.550045372	0.645142406	1.844624800	1.190045681
57° 10′ 30″	0.84033016	0.54207493	1.550210349	0.645073748	1.844763434	1.190008462
57° 10′ 40″	0.84035644	0.54203418	1.550375351	0.645005095	1.844902092	1.189971249
57° 10′ 50″	0.84038272	0.54199344	1.550540377	0.644936446	1.845040775	1.189934040
57° 11′ 00″	0.84040899	0.54195270	1.550705429	0.644867801	1.845179484	1.189896836
57° 11′ 10″	0.84043527	0.54191195	1.550870505	0.644799161	1.845318217	1.189859638
57° 11′ 20″	0.84046154	0.54187121	1.551035606	0.644730525	1.845456976	1.189822444
57° 11′ 30″	0.84048781	0.54183046	1.551200732	0.644661893	1.845595761	1.189785256
57° 11′ 40″	0.84051407	0.54178971	1.551365883	0.644593265	1.845734570	1.189748073
57° 11′ 50″	0.84054034	0.54174896	1.551531059	0.644524642	1.845873405	1.189710895

429 57° 11′ 50″

57° 12′ 00″ 0.84056660 0.54170821 1.551696259 0.644456023 1.846012265 1.18* 57° 12′ 10″ 0.84059287 0.54166746 1.551861485 0.644387408 1.846151150 1.18* 57° 12′ 20″ 0.84061913 0.54162670 1.552026735 0.644318798 1.846290060 1.18* 57° 12′ 30″ 0.84064538 0.54158595 1.552192010 0.644250192 1.846428996 1.18* 57° 12′ 40″ 0.84067164 0.54154519 1.552357310 0.644181590 1.846567956 1.18* 57° 12′ 50″ 0.84069789 0.54150444 1.552522635 0.644112992 1.846706942 1.18* 57° 13′ 00″ 0.84075039 0.54146368 1.552853359 0.643975810 1.846984990 1.18* 57° 13′ 20″ 0.84080289 0.54138215 1.553018759 0.643907225 1.847124052 1.18* 57° 13′ 30″ 0.84080289 0.54134139 1.553184183 0.643870405 1.847263140 1.18* 57° 13′ 40″ 0.84088537 0.54125986 1.553515107<	9673722 9636555 9599392 9562234 9525082 9487935 9450793 9413656 9376524 9339397 9302275
57° 12′ 10″ 0.84059287 0.54166746 1.551861485 0.644387408 1.846151150 1.18' 57° 12′ 20″ 0.84061913 0.54162670 1.552026735 0.644318798 1.846290060 1.18' 57° 12′ 30″ 0.84064538 0.54158595 1.552192010 0.644250192 1.846428996 1.18' 57° 12′ 40″ 0.84067164 0.54154519 1.552357310 0.644181590 1.846567956 1.18' 57° 12′ 50″ 0.84069789 0.54150444 1.552522635 0.644112992 1.846706942 1.18' 57° 13′ 00″ 0.84072414 0.54146368 1.552687984 0.644044399 1.846845954 1.18' 57° 13′ 10″ 0.84077664 0.54138215 1.553018759 0.643907225 1.847124052 1.18' 57° 13′ 30″ 0.84080289 0.54134139 1.553184183 0.643838645 1.847263140 1.18' 57° 13′ 40″ 0.84082513 0.54125986 1.553184183 0.643770069 1.847402252 1.18' 57° 14′ 00″ 0.84085537 0.54125986 1.553515107<	9599392 9562234 9525082 9487935 9450793 9413656 9376524 9339397
57° 12′ 30″ 0.84064538 0.54158595 1.552192010 0.644250192 1.846428996 1.18* 57° 12′ 40″ 0.84067164 0.54154519 1.552357310 0.644181590 1.846567956 1.18* 57° 12′ 50″ 0.84069789 0.54150444 1.552522635 0.644112992 1.846706942 1.18* 57° 13′ 00″ 0.84072414 0.54146368 1.552687984 0.644044399 1.846845954 1.18* 57° 13′ 10″ 0.84077664 0.54138215 1.552853359 0.643975810 1.846984990 1.18* 57° 13′ 20″ 0.84080289 0.54138215 1.553018759 0.643977225 1.847124052 1.18* 57° 13′ 30″ 0.84080289 0.54134139 1.553184183 0.643838645 1.847263140 1.18* 57° 13′ 40″ 0.84085537 0.54125986 1.553515107 0.643770069 1.847402252 1.18* 57° 14′ 00″ 0.84088161 0.54121910 1.553680606 0.643632930 1.847680553 1.18* 57° 14′ 20″ 0.84093409 0.54117833 1.554011679<	9562234 9525082 9487935 9450793 9413656 9376524 9339397
57° 12′ 40″ 0.84067164 0.54154519 1.552357310 0.644181590 1.846567956 1.18° 57° 12′ 50″ 0.84069789 0.54150444 1.552522635 0.644112992 1.846706942 1.18° 57° 13′ 00″ 0.84072414 0.54146368 1.552687984 0.644044399 1.846845954 1.18° 57° 13′ 10″ 0.84075039 0.54142292 1.552853359 0.643975810 1.846984990 1.18° 57° 13′ 20″ 0.84077664 0.54138215 1.553018759 0.643907225 1.847124052 1.18° 57° 13′ 30″ 0.84080289 0.54134139 1.553184183 0.643838645 1.847263140 1.18° 57° 13′ 40″ 0.84082913 0.54130063 1.553349632 0.643770069 1.847402252 1.18° 57° 14′ 00″ 0.84085537 0.54125986 1.553515107 0.643701497 1.847541390 1.18° 57° 14′ 10″ 0.84090785 0.54117833 1.553846130 0.643564366 1.847819741 1.18° 57° 14′ 20″ 0.84093409 0.54113756 1.554071679<	9525082 9487935 9450793 9413656 9376524 9339397
57° 12′ 40″ 0.84067164 0.54154519 1.552357310 0.644181590 1.846567956 1.18° 57° 12′ 50″ 0.84069789 0.54150444 1.552522635 0.644112992 1.846706942 1.18° 57° 13′ 00″ 0.84072414 0.54146368 1.552687984 0.644044399 1.846845954 1.18° 57° 13′ 10″ 0.84075039 0.54142292 1.552853359 0.643975810 1.846984990 1.18° 57° 13′ 20″ 0.84077664 0.54138215 1.553018759 0.643907225 1.847124052 1.18° 57° 13′ 30″ 0.84080289 0.54134139 1.553184183 0.643838645 1.847263140 1.18° 57° 13′ 40″ 0.84082913 0.54130063 1.553349632 0.643770069 1.847402252 1.18° 57° 14′ 00″ 0.84088161 0.54121910 1.553680606 0.643701497 1.847541390 1.18° 57° 14′ 10″ 0.84093409 0.54113756 1.554011679 0.643495807 1.847958955 1.18° 57° 14′ 30″ 0.84096032 0.54105602 1.554342852<	9487935 9450793 9413656 9376524 9339397
57° 13′ 00″ 0.84072414 0.54146368 1.552687984 0.644044399 1.846845954 1.18657° 13′ 10″ 57° 13′ 10″ 0.84075039 0.54142292 1.552853359 0.643975810 1.846984990 1.18657° 13′ 20″ 57° 13′ 20″ 0.84080289 0.54138215 1.553018759 0.643907225 1.847124052 1.18657° 13′ 40″ 57° 13′ 40″ 0.8408289 0.54134139 1.553349632 0.643770069 1.847402252 1.18657° 13′ 50″ 57° 13′ 50″ 0.84085537 0.54125986 1.553515107 0.643701497 1.847541390 1.18657° 14′ 00″ 57° 14′ 10″ 0.84090785 0.54121910 1.553680606 0.643632930 1.847819741 1.18657° 14′ 20″ 57° 14′ 20″ 0.84093409 0.54117833 1.5534011679 0.643495807 1.847958955 1.18657° 14′ 30″ 57° 14′ 30″ 0.84096032 0.54105602 1.554177253 0.643227253 1.848098194 1.18657° 14′ 40″ 57° 15′ 00″ 0.84103901 0.54097447 1.55408476 0.6432290156 1.848376748 1.18657° 15′ 40″ <t< td=""><td>9450793 9413656 9376524 9339397</td></t<>	9450793 9413656 9376524 9339397
57° 13′ 10″ 0.84075039 0.54142292 1.552853359 0.643975810 1.846984990 1.189 57° 13′ 20″ 0.84077664 0.54138215 1.553018759 0.643907225 1.847124052 1.189 57° 13′ 30″ 0.84080289 0.54134139 1.553184183 0.643838645 1.847263140 1.189 57° 13′ 40″ 0.84082913 0.54130063 1.553349632 0.643770069 1.847402252 1.189 57° 13′ 50″ 0.84085537 0.54125986 1.553515107 0.643701497 1.847541390 1.189 57° 14′ 00″ 0.84088161 0.54121910 1.553680606 0.643632930 1.847680553 1.189 57° 14′ 10″ 0.8409785 0.54117833 1.553846130 0.643564366 1.847819741 1.189 57° 14′ 30″ 0.84098409 0.54113756 1.554011679 0.643495807 1.848098194 1.189 57° 14′ 40″ 0.84098655 0.54105602 1.554342852 0.643358702 1.848237458 1.189 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 </td <td>9413656 9376524 9339397</td>	9413656 9376524 9339397
57° 13′ 20″ 0.84077664 0.54138215 1.553018759 0.643907225 1.847124052 1.189 57° 13′ 30″ 0.84080289 0.54134139 1.553184183 0.643838645 1.847263140 1.189 57° 13′ 40″ 0.84082913 0.54130063 1.553349632 0.643770069 1.847402252 1.189 57° 13′ 50″ 0.84085537 0.54125986 1.553515107 0.643701497 1.847541390 1.189 57° 14′ 00″ 0.84088161 0.54121910 1.553680606 0.643632930 1.847680553 1.189 57° 14′ 10″ 0.84090785 0.54117833 1.553846130 0.643564366 1.847819741 1.189 57° 14′ 20″ 0.84093409 0.54113756 1.554011679 0.643495807 1.847958955 1.189 57° 14′ 30″ 0.84096032 0.54109679 1.554177253 0.643427253 1.848098194 1.189 57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643229156 1.848376748 1.189 57° 15′ 10″ 0.84106524 0.54093370 1.554674125<	9376524 9339397
57° 13′ 30″ 0.84080289 0.54134139 1.553184183 0.643838645 1.847263140 1.189 57° 13′ 40″ 0.84082913 0.54130063 1.553349632 0.643770069 1.847402252 1.189 57° 13′ 50″ 0.84085537 0.54125986 1.553515107 0.643701497 1.847541390 1.189 57° 14′ 00″ 0.84088161 0.54121910 1.553680606 0.643632930 1.847680553 1.189 57° 14′ 10″ 0.84090785 0.54117833 1.553846130 0.643564366 1.847819741 1.189 57° 14′ 20″ 0.84093409 0.54113756 1.554011679 0.643495807 1.847958955 1.189 57° 14′ 30″ 0.84096032 0.54105602 1.554177253 0.643427253 1.848098194 1.189 57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643290156 1.848237458 1.189 57° 15′ 00″ 0.84103901 0.54097347 1.554674125 0.643221614 1.848516063 1.189 57° 15′ 20″ 0.84109146 0.54089292 1.555005498<	9339397
57° 13′ 40″ 0.84082913 0.54130063 1.553349632 0.643770069 1.847402252 1.189 57° 13′ 50″ 0.84085537 0.54125986 1.553515107 0.643701497 1.847541390 1.189 57° 14′ 00″ 0.84088161 0.54121910 1.553680606 0.643632930 1.847680553 1.189 57° 14′ 10″ 0.84090785 0.54117833 1.553846130 0.643564366 1.847819741 1.189 57° 14′ 20″ 0.84093409 0.54113756 1.554011679 0.643495807 1.847958955 1.189 57° 14′ 30″ 0.84096032 0.54109679 1.554177253 0.643427253 1.848098194 1.189 57° 14′ 40″ 0.84098655 0.54105602 1.554342852 0.643358702 1.848237458 1.189 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.189 57° 15′ 10″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.189 57° 15′ 30″ 0.84111769 0.54085214 1.555171222<	
57° 13′ 50″ 0.84085537 0.54125986 1.553515107 0.643701497 1.847541390 1.189 57° 14′ 00″ 0.84088161 0.54121910 1.553680606 0.643632930 1.847680553 1.189 57° 14′ 10″ 0.84090785 0.54117833 1.553846130 0.643564366 1.847819741 1.189 57° 14′ 20″ 0.84093409 0.54113756 1.554011679 0.643495807 1.847958955 1.189 57° 14′ 30″ 0.84096032 0.54109679 1.554177253 0.643427253 1.848098194 1.189 57° 14′ 40″ 0.84098655 0.54105602 1.554342852 0.643358702 1.848237458 1.189 57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643290156 1.848376748 1.189 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.189 57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.189 57° 15′ 30″ 0.84111769 0.54085214 1.555171222<	9302275
57° 14′ 00″ 0.84088161 0.54121910 1.553680606 0.643632930 1.847680553 1.189 57° 14′ 10″ 0.84090785 0.54117833 1.553846130 0.643564366 1.847819741 1.189 57° 14′ 20″ 0.84093409 0.54113756 1.554011679 0.643495807 1.847958955 1.189 57° 14′ 30″ 0.84096032 0.54109679 1.554177253 0.643427253 1.848098194 1.189 57° 14′ 40″ 0.84098655 0.54105602 1.554342852 0.643358702 1.848237458 1.189 57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643290156 1.848376748 1.189 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.189 57° 15′ 10″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.189 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.189	1302213
57° 14′ 10″ 0.84090785 0.54117833 1.553846130 0.643564366 1.847819741 1.189 57° 14′ 20″ 0.84093409 0.54113756 1.554011679 0.643495807 1.847958955 1.189 57° 14′ 30″ 0.84096032 0.54109679 1.554177253 0.643427253 1.848098194 1.189 57° 14′ 40″ 0.84098655 0.54105602 1.554342852 0.643358702 1.848237458 1.189 57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643290156 1.848376748 1.189 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.189 57° 15′ 10″ 0.84106524 0.54093370 1.554839799 0.643153076 1.848655403 1.189 57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643016014 1.848934160 1.189 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.189	9265159
57° 14′ 20″ 0.84093409 0.54113756 1.554011679 0.643495807 1.847958955 1.184 57° 14′ 30″ 0.84096032 0.54109679 1.554177253 0.643427253 1.848098194 1.184 57° 14′ 40″ 0.84098655 0.54105602 1.554342852 0.643358702 1.848237458 1.184 57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643290156 1.848376748 1.184 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.184 57° 15′ 10″ 0.84106524 0.54093370 1.554839799 0.643153076 1.848655403 1.184 57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.184 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.184	9228047
57° 14′ 30″ 0.84096032 0.54109679 1.554177253 0.643427253 1.848098194 1.18′ 57° 14′ 40″ 0.84098655 0.54105602 1.554342852 0.643358702 1.848237458 1.18′ 57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643290156 1.848376748 1.18′ 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.18′ 57° 15′ 10″ 0.84106524 0.54093370 1.554839799 0.643153076 1.848655403 1.18′ 57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.18′ 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.18′	9190941
57° 14′ 40″ 0.84098655 0.54105602 1.554342852 0.643358702 1.848237458 1.18′ 57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643290156 1.848376748 1.18′ 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.18′ 57° 15′ 10″ 0.84106524 0.54093370 1.554839799 0.643153076 1.848655403 1.18′ 57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.18′ 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.18′	9153839
57° 14′ 50″ 0.84101278 0.54101525 1.554508476 0.643290156 1.848376748 1.184 57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.184 57° 15′ 10″ 0.84106524 0.54093370 1.554839799 0.643153076 1.848655403 1.184 57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.184 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.184	9116743
57° 15′ 00″ 0.84103901 0.54097447 1.554674125 0.643221614 1.848516063 1.189 57° 15′ 10″ 0.84106524 0.54093370 1.554839799 0.643153076 1.848655403 1.189 57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.189 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.189	9079652
57° 15′ 10″ 0.84106524 0.54093370 1.554839799 0.643153076 1.848655403 1.186 57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.186 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.186	9042566
57° 15′ 20″ 0.84109146 0.54089292 1.555005498 0.643084543 1.848794769 1.186 57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.186	9005486
57° 15′ 30″ 0.84111769 0.54085214 1.555171222 0.643016014 1.848934160 1.186	8968410
	8931339
57° 15′ 40′′ 0 84114391 0 54081136 1 555334971 0 647947489 1 849073577 1 185	8894274
	8857213
	8820158
	8783108
	8746063 8709023
	8671988
	8634958
	8597934
	8560914
	8523900
	8486890
	8449886
	8412887
	8375893
	8338904
	8301920
	8264941
	8227967
	8190999
	8154035
	8117077
57° 19′ 10″ 0.84169407 0.53995471 1.558823481 0.641509454 1.852007193 1.188	8080123
	8043175
	8006232
57° 19′ 50″ 0.84179877 0.53979147 1.559488833 0.641235756 1.852567251 1.183	7969294

430 57° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
57° 20′ 00″	0.84182494	0.53975066	1.559655234	0.641167342	1.852707329	1.187895433
57° 20′ 10″	0.84185111	0.53970984	1.559821660	0.641098932	1.852847433	1.187858510
57° 20′ 20″	0.84187727	0.53966903	1.559988111	0.641030526	1.852987562	1.187821593
57° 20′ 30″	0.84190343	0.53962821	1.560154587	0.640962125	1.853127717	1.187784680
57° 20′ 40″	0.84192959	0.53958740	1.560321089	0.640893728	1.853267898	1.187747772
57° 20′ 50″	0.84195575	0.53954658	1.560487616	0.640825336	1.853408104	1.187710870
57° 21′ 00″	0.84198191	0.53950576	1.560654168	0.640756947	1.853548335	1.187673973
57° 21′ 10″	0.84200807	0.53946494	1.560820745	0.640688563	1.853688593	1.187637080
57° 21′ 20″	0.84203422	0.53942411	1.560987347	0.640620183	1.853828875	1.187600193
57° 21′ 30″	0.84206037	0.53938329	1.561153975	0.640551807	1.853969184	1.187563311
57° 21′ 40″	0.84208652	0.53934247	1.561320628	0.640483436	1.854109518	1.187526434
57° 21′ 50″	0.84211267	0.53930164	1.561487306	0.640415068	1.854249877	1.187489562
57° 22′ 00″	0.84213881	0.53926081	1.561654009	0.640346705	1.854390262	1.187452695
57° 22′ 10″	0.84216495	0.53921998	1.561820738	0.640278347	1.854530673	1.187415833
57° 22′ 20″	0.84219109	0.53917915	1.561987492	0.640209992	1.854671110	1.187378977
57° 22′ 30″	0.84221723	0.53913832	1.562154271	0.640141642	1.854811572	1.187342125
57° 22′ 40″	0.84224337	0.53909749	1.562321075	0.640073296	1.854952059	1.187305278
57° 22′ 50″	0.84226951	0.53905666	1.562487905	0.640004954	1.855092573	1.187268437
57° 23′ 00″	0.84229564	0.53901582	1.562654760	0.639936617	1.855233112	1.187231601
57° 23′ 10″	0.84232177	0.53897499	1.562821640	0.639868283	1.855373676	1.187194769
57° 23′ 20″	0.84234790	0.53893415	1.562988545	0.639799954	1.855514266	1.187157943
57° 23′ 30″	0.84237403	0.53889331	1.563155476	0.639731630	1.855654882	1.187121122
57° 23′ 40″	0.84240015	0.53885247	1.563322432	0.639663309	1.855795524	1.187084306
57° 23′ 50″	0.84242628	0.53881163	1.563489414	0.639594993	1.855936191	1.187047495
57° 24′ 00″	0.84245240	0.53877079	1.563656420	0.639526681	1.856076884	1.187010689
57° 24′ 10″	0.84247852	0.53872994	1.563823452	0.639458373	1.856217603	1.186973888
57° 24′ 20″	0.84250463	0.53868910	1.563990510	0.639390069	1.856358347	1.186937092
57° 24′ 30″	0.84253075	0.53864825	1.564157592	0.639321770	1.856499118	1.186900301
57° 24′ 40″	0.84255686	0.53860740	1.564324700	0.639253475	1.856639913	1.186863516
57° 24′ 50″ 57° 25′ 00″	0.84258297	0.53856655	1.564491834	0.639185184	1.856780735 1.856921582	1.186826735
57° 25′ 10″	0.84260908 0.84263519	0.53852570	1.564658992	0.639116897	1.857062455	1.186789960 1.186753189
57° 25′ 20″	0.84263319	0.53848485 0.53844400	1.564826176 1.564993386	0.639048614 0.638980336	1.857062455	1.186733189
57° 25′ 30″	0.84268740	0.53840314	1.565160621	0.638912062	1.857344278	1.186679663
57° 25′ 40″	0.84271350	0.53836229	1.565327881	0.638843793	1.857485229	1.186642908
57° 25′ 50″	0.84271330	0.53832143	1.565495167	0.638775527	1.857626205	1.186606158
57° 26′ 00″	0.84276570	0.53828057	1.565662478	0.638707266	1.857767207	1.186569413
57° 26′ 10″	0.84279179	0.53823972	1.565829814	0.638639009	1.857908234	1.186532673
57° 26′ 20″	0.84281789	0.53819886	1.565997176	0.638570756	1.858049287	1.186495938
57° 26′ 30″	0.84284398	0.53815799	1.566164563	0.638502507	1.858190367	1.186459208
57° 26′ 40″	0.84287007	0.53811713	1.566331976	0.638434263	1.858331471	1.186422483
57° 26′ 50″	0.84289616	0.53807627	1.566499414	0.638366023	1.858472602	1.186385763
57° 27′ 00″	0.84292224	0.53803540	1.566666877	0.638297787	1.858613759	1.186349048
57° 27′ 10″	0.84294833	0.53799453	1.566834366	0.638229555	1.858754941	1.186312339
57° 27′ 20″	0.84297441	0.53795367	1.567001881	0.638161327	1.858896149	1.186275634
57° 27′ 30″	0.84300049	0.53791280	1.567169420	0.638093104	1.859037383	1.186238934
57° 27′ 40″	0.84302657	0.53787193	1.567336986	0.638024885	1.859178643	1.186202240
57° 27′ 50″	0.84305264	0.53783106	1.567504576	0.637956670	1.859319929	1.186165550

431 57° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
57° 28′ 00″	0.84307871	0.53779018	1.567672193	0.637888459	1.859461240	1.186128866
57° 28′ 10″	0.84310479	0.53774931	1.567839834	0.637820253	1.859602578	1.186092187
57° 28′ 20″	0.84313086	0.53770843	1.568007502	0.637752051	1.859743941	1.186055512
57° 28′ 30″	0.84315692	0.53766756	1.568175194	0.637683853	1.859885330	1.186018843
57° 28′ 40″	0.84318299	0.53762668	1.568342913	0.637615659	1.860026745	1.185982179
57° 28′ 50″	0.84320905	0.53758580	1.568510656	0.637547470	1.860168186	1.185945520
57° 29′ 00″	0.84323512	0.53754492	1.568678426	0.637479284	1.860309652	1.185908866
57° 29′ 10″	0.84326118	0.53750404	1.568846220	0.637411103	1.860451145	1.185872217
57° 29′ 20″	0.84328723	0.53746315	1.569014041	0.637342926	1.860592664	1.185835573
57° 29′ 30″	0.84331329	0.53742227	1.569181886	0.637274754	1.860734208	1.185798934
57° 29′ 40″	0.84333934	0.53738138	1.569349758	0.637206585	1.860875778	1.185762300
57° 29′ 50″	0.84336540	0.53734050	1.569517655	0.637138421	1.861017375	1.185725671
57° 30′ 00″	0.84339145	0.53729961	1.569685577	0.637070261	1.861158997	1.185689047
57° 30′ 10″	0.84341749	0.53725872	1.569853525	0.637002105	1.861300645	1.185652429
57° 30′ 20″	0.84344354	0.53721783	1.570021499	0.636933953	1.861442319	1.185615815
57° 30′ 30″	0.84346958	0.53717694	1.570189498	0.636865806	1.861584019	1.185579206
57° 30′ 40″	0.84349563	0.53713604	1.570357523	0.636797663	1.861725745	1.185542603
57° 30′ 50″	0.84352167	0.53709515	1.570525573	0.636729524	1.861867497	1.185506004
57° 31′ 00″	0.84354770	0.53705425	1.570693649	0.636661389	1.862009275	1.185469411
57° 31′ 10″	0.84357374	0.53701336	1.570861750	0.636593258	1.862151078	1.185432822
57° 31′ 20″	0.84359977	0.53697246	1.571029877	0.636525132	1.862292908	1.185396239
57° 31′ 30″	0.84362581	0.53693156	1.571198030	0.636457010	1.862434764	1.185359661
57° 31′ 40″	0.84365184	0.53689066	1.571366209	0.636388892	1.862576646	1.185323087
57° 31′ 50″	0.84367787	0.53684976	1.571534413	0.636320778	1.862718554	1.185286519
57° 32′ 00″	0.84370389	0.53680885	1.571702642	0.636252668	1.862860487	1.185249956
57° 32′ 10″	0.84372992	0.53676795	1.571870897	0.636184563	1.863002447	1.185213398
57° 32′ 20″	0.84375594	0.53672704	1.572039178	0.636116462	1.863144433	1.185176845
57° 32′ 30″	0.84378196	0.53668613	1.572207485	0.636048365	1.863286445	1.185140297
57° 32′ 40″	0.84380798	0.53664523	1.572375817	0.635980272	1.863428483	1.185103753
57° 32′ 50″	0.84383399	0.53660432	1.572544175	0.635912184	1.863570547	1.185067215
57° 33′ 00″	0.84386001	0.53656341	1.572712558	0.635844099	1.863712637	1.185030682
57° 33′ 10″	0.84388602	0.53652249	1.572880968	0.635776019	1.863854753	1.184994155
57° 33′ 20″	0.84391203	0.53648158	1.573049403	0.635707943	1.863996895	1.184957632
57° 33′ 30″	0.84393804	0.53644067	1.573217863	0.635639871	1.864139063	1.184921114
57° 33′ 40″	0.84396404	0.53639975	1.573386350	0.635571804	1.864281257	1.184884601
57° 33′ 50″	0.84399005	0.53635883	1.573554862	0.635503740	1.864423477	1.184848093
57° 34′ 00″	0.84401605	0.53631791	1.573723399	0.635435681	1.864565724	1.184811590
57° 34′ 10″	0.84404205	0.53627699	1.573891963	0.635367626	1.864707996	1.184775093
57° 34′ 20″	0.84406805	0.53623607	1.574060552	0.635299575	1.864850294	1.184738600
57° 34′ 30″	0.84409405	0.53619515	1.574229167	0.635231529	1.864992619	1.184702112
57° 34′ 40″ 57° 34′ 50″	0.84412004	0.53615423	1.574397807	0.635163486	1.865134970	1.184665630 1.184629152
57° 34′ 50″ 57° 35′ 00″	0.84414603	0.53611330	1.574566474	0.635095448	1.865277347	1.184629152
57° 35′ 00″ 57° 35′ 10″	0.84417202	0.53607238	1.574735166	0.635027414	1.865419750	
57° 35′ 10″ 57° 35′ 20″	0.84419801	0.53603145 0.53599052	1.574903884	0.634959384	1.865562179	1.184556212
57° 35′ 20″ 57° 35′ 30″	0.84422400		1.575072627	0.634891358	1.865704634	1.184519749 1.184483292
57° 35′ 30″ 57° 35′ 40″	0.84424998	0.53594959 0.53590866	1.575241397 1.575410192	0.634823337 0.634755320	1.865847116 1.865989623	1.184483292
57° 35′ 50″	0.84430195	0.53586773	1.575579013	0.634687306	1.866132157	1.184410392
=======================================	0.04430173	0.33300//3	1.3/33/7013	0.03400/300	1.00013413/	1.104410372

432 57° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
57° 36′ 00″	0.84432793	0.53582679	1.575747860	0.634619298	1.866274717	1.184373950
57° 36′ 10″	0.84435390	0.53578586	1.575916733	0.634551293	1.866417303	1.184337512
57° 36′ 20″	0.84437988	0.53574492	1.576085631	0.634483292	1.866559915	1.184301080
57° 36′ 30″	0.84440585	0.53570399	1.576254555	0.634415296	1.866702553	1.184264653
57° 36′ 40″	0.84443182	0.53566305	1.576423505	0.634347304	1.866845218	1.184228230
57° 36′ 50″	0.84445779	0.53562211	1.576592481	0.634279316	1.866987909	1.184191813
57° 37′ 00″	0.84448376	0.53558117	1.576761483	0.634211332	1.867130626	1.184155401
57° 37′ 10″	0.84450972	0.53554022	1.576930510	0.634143352	1.867273369	1.184118994
57° 37′ 20″	0.84453568	0.53549928	1.577099564	0.634075377	1.867416138	1.184082591
57° 37′ 30″	0.84456164	0.53545834	1.577268643	0.634007405	1.867558934	1.184046194
57° 37′ 40″	0.84458760	0.53541739	1.577437748	0.633939438	1.867701756	1.184009802
57° 37′ 50″	0.84461356	0.53537644	1.577606879	0.633871475	1.867844604	1.183973415
57° 38′ 00″	0.84463951	0.53533549	1.577776036	0.633803517	1.867987478	1.183937033
57° 38′ 10″	0.84466547	0.53529454	1.577945219	0.633735562	1.868130379	1.183900656
57° 38′ 20″	0.84469142	0.53525359	1.578114427	0.633667612	1.868273306	1.183864284
57° 38′ 30″	0.84471737	0.53521264	1.578283662	0.633599665	1.868416259	1.183827917
57° 38′ 40″	0.84474331	0.53517169	1.578452922	0.633531723	1.868559238	1.183791554
57° 38′ 50″	0.84476926	0.53513073	1.578622208	0.633463785	1.868702244	1.183755197
57° 39′ 00″	0.84479520	0.53508978	1.578791521	0.633395852	1.868845276	1.183718845
57° 39′ 10″	0.84482114	0.53504882	1.578960859	0.633327922	1.868988334	1.183682498
57° 39′ 20″	0.84484708	0.53500786	1.579130223	0.633259997	1.869131419	1.183646156
57° 39′ 30″	0.84487302	0.53496690	1.579299613	0.633192076	1.869274530	1.183609819
57° 39′ 40″	0.84489895	0.53492594	1.579469029	0.633124159	1.869417667	1.183573487
57° 39′ 50″	0.84492489	0.53488498	1.579638471	0.633056246	1.869560830	1.183537161
57° 40′ 00″	0.84495082	0.53484401	1.579807939	0.632988337	1.869704020	1.183500839
57° 40′ 10″	0.84497675	0.53480305	1.579977432	0.632920433	1.869847236	1.183464522
57° 40′ 20″	0.84500267	0.53476208	1.580146952	0.632852532	1.869990479	1.183428210
57° 40′ 30″	0.84502860	0.53472111	1.580316498	0.632784636	1.870133748	1.183391903
57° 40′ 40″	0.84505452	0.53468014	1.580486070	0.632716744	1.870277043	1.183355601
57° 40′ 50″	0.84508044	0.53463917	1.580655667	0.632648856	1.870420364	1.183319304
57° 41′ 00″	0.84510636	0.53459820	1.580825291	0.632580972	1.870563712	1.183283012
57° 41′ 10″	0.84513228	0.53455723	1.580994941	0.632513093	1.870707086	1.183246725
57° 41′ 20″	0.84515819	0.53451626	1.581164617	0.632445218	1.870850487	1.183210443
57° 41′ 30″	0.84518411	0.53447528	1.581334318	0.632377346	1.870993914	1.183174166
57° 41′ 40″	0.84521002	0.53443431	1.581504046	0.632309479	1.871137367	1.183137895
57° 41′ 50″ 57° 42′ 00″	0.84523593	0.53439333	1.581673800	0.632241616	1.871280847	1.183101628
57° 42′ 10″	0.84526183	0.53435235	1.581843580	0.632173758	1.871424354	1.183065366
57° 42′ 10″ 57° 42′ 20″	0.84528774	0.53431137	1.582013386	0.632105903	1.871567886 1.871711445	1.183029109
57° 42′ 30″	0.84531364 0.84533954	0.53427039 0.53422941	1.582183218	0.632038053 0.631970207	1.871711445	1.182992857 1.182956610
57° 42′ 40″	0.84536544	0.53422741	1.582353076 1.582522960	0.631970207	1.871998643	1.182920368
57° 42′ 40″ 57° 42′ 50″	0.84539134	0.53414744	1.582522760	0.631702364	1.872142281	1.182884132
57° 43′ 00″	0.84541723	0.53414744	1.582862806	0.631766693	1.872285946	1.182847900
57° 43′ 10″	0.84544313	0.53410645	1.583032768	0.631766673	1.872429637	1.182811673
57° 43′ 20″	0.84546902	0.53406346	1.583202757	0.631631038	1.872573355	1.182775451
57° 43′ 30″	0.84549491	0.53398348	1.583372771	0.631563216	1.872717099	1.182773431
57° 43′ 40″	0.84552080	0.53378348	1.583542812	0.631495399	1.872860869	1.182737234
57° 43′ 50″	0.84554668	0.53374247	1.583712878	0.631427586	1.873004667	1.182666816
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433 57° 43′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
57° 44′ 00″	0.84557256	0.53386051	1.583882971	0.631359777	1.873148490	1.182630614
57° 44′ 10″	0.84559845	0.53381951	1.584053090	0.631291973	1.873292340	1.182594417
57° 44′ 20″	0.84562432	0.53377851	1.584223235	0.631224172	1.873436217	1.182558225
57° 44′ 30″	0.84565020	0.53373752	1.584393406	0.631156376	1.873580120	1.182522038
57° 44′ 40″	0.84567608	0.53369652	1.584563604	0.631088583	1.873724050	1.182485856
57° 44′ 50″	0.84570195	0.53365552	1.584733827	0.631020795	1.873868006	1.182449679
57° 45′ 00″	0.84572782	0.53361452	1.584904077	0.630953011	1.874011988	1.182413507
57° 45′ 10″	0.84575369	0.53357351	1.585074353	0.630885232	1.874155998	1.182377341
57° 45′ 20″	0.84577956	0.53353251	1.585244655	0.630817456	1.874300033	1.182341179
57° 45′ 30″	0.84580542	0.53349150	1.585414983	0.630749684	1.874444096	1.182305022
57° 45′ 40″	0.84583129	0.53345050	1.585585337	0.630681917	1.874588184	1.182268870
57° 45′ 50″	0.84585715	0.53340949	1.585755718	0.630614154	1.874732300	1.182232723
57° 46′ 00″	0.84588301	0.53336848	1.585926124	0.630546395	1.874876442	1.182196581
57° 46′ 10″	0.84590887	0.53332747	1.586096557	0.630478640	1.875020610	1.182160444
57° 46′ 20″	0.84593472	0.53328646	1.586267017	0.630410889	1.875164805	1.182124312
57° 46′ 30″	0.84596057	0.53324545	1.586437502	0.630343142	1.875309027	1.182088185
57° 46′ 40″	0.84598643	0.53320443	1.586608014	0.630275400	1.875453275	1.182052063
57° 46′ 50″	0.84601228	0.53316342	1.586778551	0.630207661	1.875597550	1.182015946
57° 47′ 00″	0.84603812	0.53312240	1.586949115	0.630139927	1.875741852	1.181979834
57° 47′ 10″	0.84606397	0.53308138	1.587119706	0.630072197	1.875886180	1.181943727
57° 47′ 20″	0.84608981	0.53304036	1.587290322	0.630004471	1.876030535	1.181907625
57° 47′ 30″	0.84611565	0.53299934	1.587460965	0.629936749	1.876174916	1.181871528
57° 47′ 40″	0.84614149	0.53295832	1.587631634	0.629869032	1.876319324	1.181835436
57° 47′ 50″	0.84616733	0.53291730	1.587802330	0.629801318	1.876463759	1.181799349
57° 48′ 00″	0.84619317	0.53287628	1.587973051	0.629733609	1.876608220	1.181763266
57° 48′ 10″	0.84621900	0.53283525	1.588143799	0.629665903	1.876752708	1.181727189
57° 48′ 20″	0.84624483	0.53279422	1.588314574	0.629598202	1.876897223	1.181691117
57° 48′ 30″	0.84627066	0.53275320	1.588485374	0.629530505	1.877041764	1.181655050
57° 48′ 40″	0.84629649	0.53271217	1.588656201	0.629462812	1.877186332	1.181618988
57° 48′ 50″	0.84632231	0.53267114	1.588827054	0.629395123	1.877330927	1.181582930
57° 49′ 00″	0.84634814	0.53263011	1.588997934	0.629327439	1.877475548	1.181546878
57° 49′ 10″	0.84637396	0.53258907	1.589168840	0.629259758	1.877620196	1.181510831
57° 49′ 20″	0.84639978	0.53254804	1.589339772	0.629192082	1.877764871	1.181474789
57° 49′ 30″	0.84642560	0.53250700	1.589510730	0.629124410	1.877909572	1.181438751
57° 49′ 40″	0.84645141	0.53246597	1.589681715	0.629056742	1.878054300	1.181402719
57° 49′ 50″	0.84647723	0.53242493	1.589852726	0.628989078	1.878199055	1.181366692
57° 50′ 00″	0.84650304	0.53238389	1.590023764	0.628921418	1.878343837	1.181330669
57° 50′ 10″	0.84652885	0.53234285	1.590194828	0.628853762	1.878488645	1.181294652
57° 50′ 20″	0.84655466	0.53230181	1.590365918	0.628786110	1.878633481	1.181258639
57° 50′ 30″	0.84658046	0.53226077	1.590537035	0.628718463	1.878778342	1.181222632
57° 50′ 40″	0.84660626	0.53221972	1.590708178	0.628650820	1.878923231	1.181186629
57° 50′ 50″	0.84663207	0.53217868	1.590879348	0.628583180	1.879068146	1.181150632
57° 51′ 00″	0.84665787	0.53213763	1.591050544	0.628515545	1.879213089	1.181114639
57° 51′ 10″	0.84668366	0.53209658	1.591221766	0.628447914	1.879358058	1.181078651
57° 51′ 20″	0.84670946	0.53205553	1.591393015	0.628380287	1.879503053	1.181042669
57° 51′ 30″	0.84673525	0.53201448	1.591564290	0.628312665	1.879648076	1.181006691
57° 51′ 40″	0.84676105	0.53197343	1.591735591	0.628245046	1.879793125	1.180970718
57° 51′ 50″	0.84678684	0.53193238	1.591906920	0.628177432	1.879938201	1.180934751

434 57° 51′ 50″

x sin(x) cos(x) tan(x) cot(x) sec(x) csc(x) 57° 52′ 10″ 0.84681262 0.53189133 1.5922749655 0.628042215 1.880033304 1.18088788 57° 52′ 20″ 0.8468841 0.5318921 1.592241062 0.62774613 1.880373591 1.180826837 57° 52′ 30″ 0.84688997 0.53176816 1.592529446 0.627707015 1.88018774 1.180780795 57° 52′ 40″ 0.84691575 0.53168604 1.592529446 0.627707015 1.88018774 1.180780795 57° 52′ 50″ 0.84694153 0.53164497 1.593106957 0.627734245 1.880063984 1.180739497 57° 53′ 00″ 0.84704462 0.53152178 1.5936063 0.627636664 1.881099776 1.180647188 57° 53′ 50″ 0.84709616 0.53143965 1.593964921 0.627366678 1.88181208 1.180575346 57° 54′ 20″ 0.8471746 0.53133985 1.593936921 0.627433944 1.881326634 1.180575346 57° 54′ 20″ 0.84717468 0.53135251 1.594							
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57° 58′ 10″0.847765370.530371451.5984370470.6256111261.8854710271.17957165157° 58′ 20″0.847791080.530330351.5986094120.6255436711.8856171541.17953587757° 58′ 30″0.847816790.530289241.5987818030.6254762211.8857633081.17950010757° 58′ 40″0.847842500.530248141.5989542210.6254087751.8859094891.17946434357° 58′ 50″0.847868210.530207041.5991266660.6253413321.8860556971.17942858357° 59′ 00″0.847893910.530165931.5992991380.6252738941.8862019331.17939282857° 59′ 10″0.847919620.530124821.5994716360.6252064601.8863481951.17935707857° 59′ 20″0.847945320.530083711.5996441610.6251390311.8864944851.17932133357° 59′ 30″0.847971010.530042601.5998167130.6250716051.8866408021.17928559457° 59′ 40″0.847996710.530001491.5999892910.6250041831.8867871461.179249859							
57° 58′ 20″ 0.84779108 0.53033035 1.598609412 0.625543671 1.885617154 1.179535877 57° 58′ 30″ 0.84781679 0.53028924 1.598781803 0.625476221 1.885763308 1.179500107 57° 58′ 40″ 0.84784250 0.53024814 1.598954221 0.625408775 1.885909489 1.179464343 57° 58′ 50″ 0.84786821 0.53020704 1.599126666 0.625341332 1.886055697 1.179428583 57° 59′ 00″ 0.84789391 0.53016593 1.599299138 0.625273894 1.886201933 1.179392828 57° 59′ 10″ 0.84791962 0.53012482 1.599471636 0.625206460 1.886348195 1.179357078 57° 59′ 20″ 0.84794532 0.53008371 1.599644161 0.625139031 1.886494485 1.179321333 57° 59′ 30″ 0.84797101 0.530004260 1.599816713 0.625004183 1.886787146 1.179249859 57° 59′ 40″ 0.84799671 0.53000149 1.599989291 0.625004183 1.886787146 1.179249859							
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57° 58′ 50″ 0.84786821 0.53020704 1.599126666 0.625341332 1.886055697 1.179428583 57° 59′ 00″ 0.84789391 0.53016593 1.599299138 0.625273894 1.886201933 1.179392828 57° 59′ 10″ 0.84791962 0.53012482 1.599471636 0.625206460 1.886348195 1.179357078 57° 59′ 20″ 0.84794532 0.53008371 1.599644161 0.625139031 1.886494485 1.179321333 57° 59′ 30″ 0.84797101 0.53004260 1.599816713 0.625071605 1.886640802 1.179285594 57° 59′ 40″ 0.84799671 0.53000149 1.599989291 0.625004183 1.886787146 1.179249859							
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57° 59′ 10″ 0.84791962 0.53012482 1.599471636 0.625206460 1.886348195 1.179357078 57° 59′ 20″ 0.84794532 0.53008371 1.599644161 0.625139031 1.886494485 1.179321333 57° 59′ 30″ 0.84797101 0.53004260 1.599816713 0.625071605 1.886640802 1.179285594 57° 59′ 40″ 0.84799671 0.53000149 1.599989291 0.625004183 1.886787146 1.179249859							
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57° 59′ 40″ 0.84799671 0.53000149 1.599989291 0.625004183 1.886787146 1.179249859							
57~ 59′ 50′′ 0.84802240 0.52996038 1.60016189/ 0.624936/65 1.886933517 1.179214128							
	57° 59′ 50″	0.84802240	0.52996038	1.60016189/	0.624936/65	1.88693351/	1.1/9/141/28

435 57° 59′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
58° 00′ 00″	0.84804810	0.52991926	1.600334529	0.624869352	1.887079915	1.179178403
58° 00′ 10″	0.84807379	0.52987815	1.600507188	0.624801942	1.887226340	1.179142683
58° 00′ 20″	0.84809947	0.52983703	1.600679874	0.624734537	1.887372793	1.179106968
58° 00′ 30″	0.84812516	0.52979592	1.600852586	0.624667136	1.887519272	1.179071258
58° 00′ 40″	0.84815085	0.52975480	1.601025326	0.624599739	1.887665779	1.179035552
58° 00′ 50″	0.84817653	0.52971368	1.601198092	0.624532346	1.887812313	1.178999852
58° 01′ 00″	0.84820221	0.52967255	1.601370885	0.624464956	1.887958874	1.178964156
58° 01′ 10″	0.84822789	0.52963143	1.601543705	0.624397572	1.888105463	1.178928466
58° 01′ 20″	0.84825356	0.52959031	1.601716552	0.624330191	1.888252078	1.178892780
58° 01′ 30″	0.84827924	0.52954918	1.601889425	0.624262814	1.888398721	1.178857099
58° 01′ 40″	0.84830491	0.52950806	1.602062325	0.624195441	1.888545391	1.178821424
58° 01′ 50″	0.84833058	0.52946693	1.602235253	0.624128073	1.888692088	1.178785753
58° 02′ 00″	0.84835625	0.52942580	1.602408207	0.624060708	1.888838813	1.178750087
58° 02′ 10″	0.84838191	0.52938467	1.602581188	0.623993347	1.888985565	1.178714426
58° 02′ 20″	0.84840758	0.52934354	1.602754196	0.623925991	1.889132344	1.178678770
58° 02′ 30″	0.84843324	0.52930241	1.602927230	0.623858639	1.889279150	1.178643119
58° 02′ 40″	0.84845890	0.52926127	1.603100292	0.623791290	1.889425983	1.178607472
58° 02′ 50″	0.84848456	0.52922014	1.603273381	0.623723946	1.889572844	1.178571831
58° 03′ 00″	0.84851021	0.52917900	1.603446496	0.623656606	1.889719732	1.178536195
58° 03′ 10″	0.84853587	0.52913786	1.603619639	0.623589270	1.889866648	1.178500563
58° 03′ 20″	0.84856152	0.52909672	1.603792808	0.623521938	1.890013590	1.178464937
58° 03′ 30″	0.84858717	0.52905558	1.603966004	0.623454610	1.890160560	1.178429315
58° 03′ 40″	0.84861282	0.52901444	1.604139227	0.623387286	1.890307557	1.178393699
58° 03′ 50″	0.84863847	0.52897330	1.604312478	0.623319967	1.890454582	1.178358087
58° 04′ 00″	0.84866411	0.52893216	1.604485755	0.623252651	1.890601634	1.178322480
58° 04′ 10″	0.84868975	0.52889101	1.604659059	0.623185339	1.890748713	1.178286878
58° 04′ 20″	0.84871539	0.52884987	1.604832390	0.623118032	1.890895819	1.178251281
58° 04′ 30″	0.84874103	0.52880872	1.605005748	0.623050728	1.891042953	1.178215689
58° 04′ 40″	0.84876667	0.52876757	1.605179133	0.622983429	1.891190114	1.178180102
58° 04′ 50″	0.84879230	0.52872642	1.605352545	0.622916134	1.891337303	1.178144520
58° 05′ 00″	0.84881794	0.52868527	1.605525984	0.622848842	1.891484519	1.178108942
58° 05′ 10″	0.84884357	0.52864412	1.605699449	0.622781555	1.891631762	1.178073370
58° 05′ 20″	0.84886919	0.52860296	1.605872942	0.622714272	1.891779032	1.178037803
58° 05′ 30″	0.84889482	0.52856181	1.606046462	0.622646993	1.891926330	1.178002240
58° 05′ 40″	0.84892044	0.52852065	1.606220009	0.622579718	1.892073656	1.177966682
58° 05′ 50″	0.84894607	0.52847949	1.606393583	0.622512447	1.892221009	1.177931130
58° 06′ 00″	0.84897169	0.52843833	1.606567185	0.622445180	1.892368389	1.177895582
58° 06′ 10″	0.84899731	0.52839717	1.606740813	0.622377917	1.892515796	1.177860039
58° 06′ 20″	0.84902292	0.52835601	1.606914468	0.622310658	1.892663231	1.177824501
58° 06′ 30″	0.84904854	0.52831485	1.607088150	0.622243403	1.892810694	1.177788968
58° 06′ 40″	0.84907415	0.52827369	1.607261859	0.622176153	1.892958184	1.177753440
58° 06′ 50″	0.84909976	0.52823252	1.607435596	0.622108906	1.893105701	1.177717917
58° 07′ 00″	0.84912537	0.52819136	1.607609359	0.622041663	1.893253246	1.177682398
58° 07′ 10″	0.84915097	0.52815019	1.607783150	0.621974425	1.893400818	1.177646885
58° 07′ 20″	0.84917658	0.52810902	1.607956967	0.621907190	1.893548417	1.177611376
58° 07′ 30″	0.84920218	0.52806785	1.608130812	0.621839960	1.893696044	1.177575873
58° 07′ 40″	0.84922778	0.52802668	1.608304684	0.621772734	1.893843699	1.177540374
58° 07′ 50″	0.84925338	0.52798551	1.608478583	0.621705511	1.893991381	1.177504880

436 58° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
58° 08′ 00″	0.84927898	0.52794433	1.608652509	0.621638293	1.894139091	1.177469391
58° 08′ 10″	0.84930457	0.52790316	1.608826462	0.621571079	1.894286828	1.177433907
58° 08′ 20″	0.84933016	0.52786198	1.609000443	0.621503869	1.894434592	1.177398428
58° 08′ 30″	0.84935575	0.52782081	1.609174450	0.621436663	1.894582384	1.177362954
58° 08′ 40″	0.84938134	0.52777963	1.609348485	0.621369461	1.894730204	1.177327485
58° 08′ 50″	0.84940693	0.52773845	1.609522547	0.621302263	1.894878051	1.177292021
58° 09′ 00″	0.84943251	0.52769727	1.609696636	0.621235069	1.895025926	1.177256561
58° 09′ 10″	0.84945810	0.52765608	1.609870752	0.621167879	1.895173828	1.177221107
58° 09′ 20″	0.84948368	0.52761490	1.610044895	0.621100693	1.895321757	1.177185657
58° 09′ 30″	0.84950926	0.52757372	1.610219066	0.621033511	1.895469715	1.177150212
58° 09′ 40″	0.84953483	0.52753253	1.610393263	0.620966333	1.895617699	1.177114772
58° 09′ 50″	0.84956041	0.52749134	1.610567488	0.620899160	1.895765712	1.177079337
58° 10′ 00″	0.84958598	0.52745015	1.610741740	0.620831990	1.895913752	1.177043907
58° 10′ 10″	0.84961155	0.52740896	1.610916020	0.620764824	1.896061819	1.177008482
58° 10′ 20″	0.84963712	0.52736777	1.611090326	0.620697663	1.896209914	1.176973062
58° 10′ 30″	0.84966268	0.52732658	1.611264660	0.620630505	1.896358037	1.176937647
58° 10′ 40″	0.84968825	0.52728539	1.611439021	0.620563352	1.896506187	1.176902236
58° 10′ 50″	0.84971381	0.52724419	1.611613409	0.620496202	1.896654365	1.176866831
58° 11′ 00″	0.84973937	0.52720300	1.611787825	0.620429057	1.896802571	1.176831430
58° 11′ 10″	0.84976493	0.52716180	1.611962268	0.620361915	1.896950804	1.176796034
58° 11′ 20″	0.84979049	0.52712060	1.612136738	0.620294778	1.897099065	1.176760643
58° 11′ 30″	0.84981604	0.52707940	1.612311235	0.620227645	1.897247353	1.176725257
58° 11′ 40″	0.84984159	0.52703820	1.612485760	0.620160515	1.897395669	1.176689876
58° 11′ 50″	0.84986714	0.52699700	1.612660312	0.620093390	1.897544013	1.176654500
58° 12′ 00″	0.84989269	0.52695580	1.612834891	0.620026269	1.897692384	1.176619129
58° 12′ 10″	0.84991824	0.52691459	1.613009498	0.619959152	1.897840783	1.176583762
58° 12′ 20″	0.84994378	0.52687339	1.613184131	0.619892039	1.897989210	1.176548401
58° 12′ 30″	0.84996933	0.52683218	1.613358792	0.619824930	1.898137664	1.176513044
58° 12′ 40″	0.84999487	0.52679097	1.613533481	0.619757825	1.898286147	1.176477693
58° 12′ 50″	0.85002041	0.52674976	1.613708197	0.619690724	1.898434656	1.176442346
58° 13′ 00″	0.85004594	0.52670855	1.613882940	0.619623627	1.898583194	1.176407004
58° 13′ 10″	0.85007148	0.52666734	1.614057710	0.619556534	1.898731759	1.176371667
58° 13′ 20″	0.85009701	0.52662612	1.614232508	0.619489445	1.898880352	1.176336335
58° 13′ 30″	0.85012254	0.52658491	1.614407333	0.619422360	1.899028972	1.176301007
58° 13′ 40″	0.85014807	0.52654369	1.614582186	0.619355279	1.899177621	1.176265685
58° 13′ 50″	0.85017360	0.52650248	1.614757066	0.619288202	1.899326297	1.176230367
58° 14′ 00″	0.85019912	0.52646126	1.614931973	0.619221129	1.899475001	1.176195055
58° 14′ 10″	0.85022464	0.52642004	1.615106908	0.619154060	1.899623732	1.176159747
58° 14′ 20″	0.85025016	0.52637882	1.615281870	0.619086996	1.899772492	1.176124444
58° 14′ 30″	0.85027568	0.52633760	1.615456860	0.619019935	1.899921279	1.176089146
58° 14′ 40″	0.85030120	0.52629637	1.615631877	0.618952878	1.900070094	1.176053853
58° 14′ 50″	0.85032671	0.52625515	1.615806921	0.618885825	1.900218936	1.176018565
58° 15′ 00″	0.85035222	0.52621392	1.615981993	0.618818777	1.900367807	1.175983282
58° 15′ 10″	0.85037774	0.52617270	1.616157092	0.618751732	1.900516705	1.175948003
58° 15′ 20″	0.85040324	0.52613147	1.616332219	0.618684691	1.900665631	1.175912730
58° 15′ 30″	0.85042875	0.52609024	1.616507373	0.618617655	1.900814585	1.175877461
58° 15′ 40″	0.85045426	0.52604901	1.616682554	0.618550622	1.900963567	1.175842197
58° 15′ 50″	0.85047976	0.52600778	1.616857763	0.618483594	1.901112576	1.175806938
	1 23230					

437 58° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
58° 16′ 00″	0.85050526	0.52596654	1.617033000	0.618416569	1.901261613	1.175771684
58° 16′ 10″	0.85053076	0.52592531	1.617208264	0.618349549	1.901410679	1.175736435
58° 16′ 20″	0.85055625	0.52588407	1.617383555	0.618282532	1.901559772	1.175701191
58° 16′ 30″	0.85058175	0.52584284	1.617558874	0.618215520	1.901708893	1.175665951
58° 16′ 40″	0.85060724	0.52580160	1.617734221	0.618148511	1.901858041	1.175630717
58° 16′ 50″	0.85063273	0.52576036	1.617909595	0.618081507	1.902007218	1.175595487
58° 17′ 00″	0.85065822	0.52571912	1.618084996	0.618014506	1.902156422	1.175560262
58° 17′ 10″	0.85068371	0.52567788	1.618260425	0.617947510	1.902305655	1.175525042
58° 17′ 20″	0.85070919	0.52563664	1.618435882	0.617880517	1.902454915	1.175489827
58° 17′ 30″	0.85073467	0.52559539	1.618611366	0.617813529	1.902604203	1.175454617
58° 17′ 40″	0.85076015	0.52555415	1.618786877	0.617746545	1.902753519	1.175419412
58° 17′ 50″	0.85078563	0.52551290	1.618962417	0.617679564	1.902902863	1.175384211
58° 18′ 00″	0.85081111	0.52547165	1.619137983	0.617612588	1.903052235	1.175349016
58° 18′ 10″	0.85083658	0.52543040	1.619313578	0.617545616	1.903201635	1.175313825
58° 18′ 20″	0.85086206	0.52538915	1.619489199	0.617478647	1.903351063	1.175278639
58° 18′ 30″	0.85088753	0.52534790	1.619664849	0.617411683	1.903500518	1.175243458
58° 18′ 40″	0.85091300	0.52530665	1.619840526	0.617344723	1.903650002	1.175208282
58° 18′ 50″	0.85093846	0.52526539	1.620016231	0.617277766	1.903799513	1.175173111
58° 19′ 00″	0.85096393	0.52522414	1.620191963	0.617210814	1.903949053	1.175137945
58° 19′ 10″	0.85098939	0.52518288	1.620367723	0.617143866	1.904098620	1.175102783
58° 19′ 20″	0.85101485	0.52514162	1.620543510	0.617076921	1.904248216	1.175067626
58° 19′ 30″	0.85104031	0.52510036	1.620719325	0.617009981	1.904397839	1.175032475
58° 19′ 40″	0.85106577	0.52505910	1.620895168	0.616943045	1.904547491	1.174997328
58° 19′ 50″	0.85109122	0.52501784	1.621071038	0.616876112	1.904697170	1.174962186
58° 20′ 00″	0.85111667	0.52497658	1.621246936	0.616809184	1.904846878	1.174927049
58° 20′ 10″	0.85114212	0.52493532	1.621422862	0.616742260	1.904996613	1.174891916
58° 20′ 20″	0.85116757	0.52489405	1.621598815	0.616675340	1.905146377	1.174856789
58° 20′ 30″	0.85119302	0.52485278	1.621774796	0.616608423	1.905296168	1.174821666
58° 20′ 40″	0.85121846	0.52481152	1.621950805	0.616541511	1.905445988	1.174786549
58° 20′ 50″	0.85124391	0.52477025	1.622126841	0.616474603	1.905595836	1.174751436
58° 21′ 00″	0.85126935	0.52472898	1.622302905	0.616407698	1.905745711	1.174716328
58° 21′ 10″	0.85129478	0.52468771	1.622478997	0.616340798	1.905895615	1.174681225
58° 21′ 20″	0.85132022	0.52464643	1.622655116	0.616273902	1.906045547	1.174646126
58° 21′ 30″	0.85134566	0.52460516	1.622831263	0.616207010	1.906195507	1.174611033
58° 21′ 40″	0.85137109	0.52456389	1.623007438	0.616140121	1.906345495	1.174575944
58° 21′ 50″	0.85139652	0.52452261	1.623183641	0.616073237	1.906495511	1.174540861
58° 22′ 00″	0.85142195	0.52448133	1.623359871	0.616006357	1.906645555	1.174505782
58° 22′ 10″	0.85144737	0.52444005	1.623536129	0.615939481	1.906795627	1.174470708
58° 22′ 20″	0.85147280	0.52439877	1.623712415	0.615872608	1.906945727	1.174435639
58° 22′ 30″	0.85149822	0.52435749	1.623888729	0.615805740	1.907095856	1.174400574
58° 22′ 40″	0.85152364	0.52431621	1.624065070	0.615738876	1.907246012	1.174365515
58° 22′ 50″ 58° 23′ 00″	0.85154906	0.52427493	1.624241439	0.615672015	1.907396197	1.174330460
	0.85157448	0.52423364	1.624417836	0.615605159	1.907546410	1.174295411
58° 23′ 10″	0.85159989	0.52419236	1.624594261	0.615538307	1.907696651	1.174260366
58° 23′ 20″ 58° 23′ 30″	0.85162530	0.52415107	1.624770713	0.615471458	1.907846920	1.174225326
58° 23′ 40″	0.85165071	0.52410978	1.624947193	0.615404614	1.907997217	1.174190291
58° 23′ 40″ 58° 23′ 50″	0.85167612 0.85170153	0.52406849 0.52402720	1.625123701 1.625300237	0.615337773 0.615270937	1.908147543 1.908297896	1.174155260 1.174120235
<u> </u>	0.031/0133	0.32402720	1.043300437	0.0134/073/	1.70047/076	1.1/4120233

438 58° 23′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(\mathbf{x})$
58° 24′ 00″	0.85172693	0.52398591	1.625476801	0.615204105	1.908448278	1.174085214
58° 24′ 10″	0.85175234	0.52394461	1.625653392	0.615137276	1.908598688	1.174050199
58° 24′ 20″	0.85177774	0.52390332	1.625830012	0.615070452	1.908749126	1.174015188
58° 24′ 30″	0.85180314	0.52386202	1.626006659	0.615003631	1.908899593	1.173980182
58° 24′ 40″	0.85182853	0.52382072	1.626183334	0.614936815	1.909050087	1.173945180
58° 24′ 50″	0.85185393	0.52377943	1.626360037	0.614870002	1.909200610	1.173910184
58° 25′ 00″	0.85187932	0.52373813	1.626536768	0.614803194	1.909351161	1.173875192
58° 25′ 10″	0.85190471	0.52369683	1.626713526	0.614736389	1.909501741	1.173840206
58° 25′ 20″	0.85193010	0.52365552	1.626890313	0.614669589	1.909652348	1.173805224
58° 25′ 30″	0.85195549	0.52361422	1.627067127	0.614602792	1.909802984	1.173770247
58° 25′ 40″	0.85198087	0.52357292	1.627243970	0.614536000	1.909953648	1.173735275
58° 25′ 50″	0.85200625	0.52353161	1.627420840	0.614469211	1.910104340	1.173700307
58° 26′ 00″	0.85203163	0.52349030	1.627597738	0.614402427	1.910255061	1.173665345
58° 26′ 10″	0.85205701	0.52344899	1.627774664	0.614335646	1.910405810	1.173630387
58° 26′ 20″	0.85208239	0.52340768	1.627951618	0.614268869	1.910556587	1.173595435
58° 26′ 30″	0.85210776	0.52336637	1.628128600	0.614202097	1.910707392	1.173560487
58° 26′ 40″	0.85213313	0.52332506	1.628305610	0.614135328	1.910858226	1.173525543
58° 26′ 50″	0.85215851	0.52328375	1.628482648	0.614068563	1.911009088	1.173490605
58° 27′ 00″	0.85218387	0.52324243	1.628659714	0.614001803	1.911159978	1.173455672
58° 27′ 10″	0.85220924	0.52320112	1.628836808	0.613935046	1.911310897	1.173420743
58° 27′ 20″	0.85223460	0.52315980	1.629013929	0.613868293	1.911461844	1.173385819
58° 27′ 30″	0.85225997	0.52311848	1.629191079	0.613801544	1.911612820	1.173350900
58° 27′ 40″	0.85228533	0.52307716	1.629368257	0.613734799	1.911763823	1.173315986
58° 27′ 50″	0.85231069	0.52303584	1.629545462	0.613668058	1.911914855	1.173281077
58° 28′ 00″	0.85233604	0.52299452	1.629722696	0.613601322	1.912065916	1.173246173
58° 28′ 10″	0.85236140	0.52295320	1.629899958	0.613534589	1.912217004	1.173211273
58° 28′ 20″	0.85238675	0.52291187	1.630077247	0.613467860	1.912368122	1.173176378
58° 28′ 30″	0.85241210	0.52287055	1.630254565	0.613401135	1.912519267	1.173141488
58° 28′ 40″	0.85243745	0.52282922	1.630431911	0.613334414	1.912670441	1.173106603
58° 28′ 50″	0.85246280	0.52278789	1.630609285	0.613267697	1.912821643	1.173071723
58° 29′ 00″	0.85248814	0.52274657	1.630786687	0.613200983	1.912972874	1.173036848
58° 29′ 10″	0.85251348	0.52270524	1.630964117	0.613134274	1.913124133	1.173001977
58° 29′ 20″	0.85253882	0.52266390	1.631141574	0.613067569	1.913275421	1.172967111
58° 29′ 30″	0.85256416	0.52262257	1.631319061	0.613000868	1.913426737	1.172932250
58° 29′ 40″	0.85258950	0.52258124	1.631496575	0.612934171	1.913578081	1.172897394
58° 29′ 50″ 58° 30′ 00″	0.85261483	0.52253990	1.631674117	0.612867477	1.913729454	1.172862543
58° 30′ 10″	0.85264016	0.52249856	1.631851687	0.612800788	1.913880855	1.172827697
58° 30′ 20″	0.85266549	0.52245723	1.632029286	0.612734103	1.914032285	1.172792855
58° 30′ 30″		0.52241589 0.52237455	1.632206912	0.612667421	1.914183743	1.172758018
58° 30′ 40″	0.85271615		1.632384567 1.632562249	0.612600744	1.914335230 1.914486745	1.172723186 1.172688359
58° 30′ 50″	0.85274147	0.52233321		0.612534071		
58° 31′ 00″	0.85276680 0.85279212	0.52229186 0.52225052	1.632739960 1.632917699	0.612467401 0.612400735	1.914638289 1.914789861	1.172653537 1.172618719
58° 31′ 10″	0.85279212	0.52225052		0.612400735	1.914789861	1.172518719
58° 31′ 20″	0.85284275	0.52220917	1.633095466 1.633273262	0.612334074	1.915093091	1.172549099
58° 31′ 30″	0.85286807	0.52212648	1.633451085	0.612200763	1.915244749	1.172549099
58° 31′ 40″	0.85289338	0.52212648	1.633628937	0.612134113	1.915396435	1.172314276
58° 31′ 50″	0.85291869	0.52208313	1.633806817	0.612134113	1.915548150	1.172444704
	0.032/100/	0.32204370	1.033000017	0.01200/40/	1.713340130	1.17277704

439 58° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
58° 32′ 00″	0.85294400	0.52200243	1.633984724	0.612000825	1.915699893	1.172409916
58° 32′ 10″	0.85296930	0.52196108	1.634162661	0.611934188	1.915851665	1.172375132
58° 32′ 20″	0.85299461	0.52191972	1.634340625	0.611867554	1.916003465	1.172340353
58° 32′ 30″	0.85301991	0.52187837	1.634518618	0.611800924	1.916155294	1.172305579
58° 32′ 40″	0.85304521	0.52183701	1.634696638	0.611734298	1.916307152	1.172270810
58° 32′ 50″	0.85307051	0.52179566	1.634874687	0.611667676	1.916459038	1.172236045
58° 33′ 00″	0.85309581	0.52175430	1.635052765	0.611601058	1.916610952	1.172201285
58° 33′ 10″	0.85312110	0.52171294	1.635230870	0.611534443	1.916762896	1.172166531
58° 33′ 20″	0.85314639	0.52167158	1.635409004	0.611467833	1.916914868	1.172131781
58° 33′ 30″	0.85317168	0.52163021	1.635587166	0.611401227	1.917066868	1.172097035
58° 33′ 40″	0.85319697	0.52158885	1.635765356	0.611334625	1.917218897	1.172062295
58° 33′ 50″	0.85322226	0.52154749	1.635943574	0.611268026	1.917370955	1.172027559
58° 34′ 00″	0.85324754	0.52150612	1.636121821	0.611201432	1.917523041	1.171992829
58° 34′ 10″	0.85327282	0.52146475	1.636300096	0.611134842	1.917675156	1.171958103
58° 34′ 20″	0.85329810	0.52142338	1.636478399	0.611068255	1.917827300	1.171923382
58° 34′ 30″	0.85332338	0.52138201	1.636656731	0.611001673	1.917979472	1.171888665
58° 34′ 40″	0.85334866	0.52134064	1.636835091	0.610935094	1.918131673	1.171853954
58° 34′ 50″	0.85337393	0.52129927	1.637013479	0.610868519	1.918283903	1.171819247
58° 35′ 00″	0.85339921	0.52125790	1.637191896	0.610801949	1.918436161	1.171784545
58° 35′ 10″	0.85342448	0.52121652	1.637370341	0.610735382	1.918588448	1.171749848
58° 35′ 20″	0.85344974	0.52117515	1.637548814	0.610668819	1.918740763	1.171715156
58° 35′ 30″	0.85347501	0.52113377	1.637727315	0.610602260	1.918893108	1.171680468
58° 35′ 40″	0.85350027	0.52109239	1.637905845	0.610535705	1.919045481	1.171645786
58° 35′ 50″	0.85352554	0.52105101	1.638084403	0.610469154	1.919197883	1.171611108
58° 36′ 00″	0.85355080	0.52100963	1.638262990	0.610402607	1.919350313	1.171576435
58° 36′ 10″	0.85357606	0.52096825	1.638441605	0.610336064	1.919502772	1.171541767
58° 36′ 20″	0.85360131	0.52092687	1.638620248	0.610269525	1.919655260	1.171507103
58° 36′ 30″	0.85362657	0.52088548	1.638798920	0.610202989	1.919807777	1.171472445
58° 36′ 40″	0.85365182	0.52084410	1.638977620	0.610136458	1.919960322	1.171437791
58° 36′ 50″	0.85367707	0.52080271	1.639156349	0.610069931	1.920112897	1.171403142
58° 37′ 00″	0.85370232	0.52076132	1.639335106	0.610003407	1.920265500	1.171368497
58° 37′ 10″	0.85372756	0.52071993	1.639513891	0.609936888	1.920418131	1.171333858
58° 37′ 20″ 58° 37′ 30″	0.85375281	0.52067854	1.639692705	0.609870372	1.920570792	1.171299223
58° 37′ 40″	0.85377805 0.85380329	0.52063715 0.52059576	1.639871547 1.640050418	0.609803860 0.609737353	1.920723481 1.920876199	1.171264594 1.171229969
58° 37′ 40″ 58° 37′ 50″	0.85382853		1.640030418	0.609737333	1.920876199	1.171229969
58° 38′ 00″	0.85385376	0.52055436 0.52051297	1.640408244	0.609604349	1.921028946	1.171160733
58° 38′ 10″	0.85387900	0.52031277	1.640587200	0.609537853	1.921334526	1.171126122
58° 38′ 20″	0.85390423	0.52047137	1.640766185	0.607337833	1.921487360	1.171126122
58° 38′ 30″	0.85370423	0.52038877	1.640945198	0.609404873	1.921640222	1.171071317
58° 38′ 40″	0.85372746	0.52034737	1.641124239	0.609338389	1.921793113	1.171036716
58° 38′ 50″	0.85397991	0.52030597	1.641303309	0.609271909	1.921946033	1.170987728
58° 39′ 00″	0.85400514	0.52026457	1.641482408	0.609205432	1.922098981	1.170767728
58° 39′ 10″	0.85403036	0.52022317	1.641661535	0.609138960	1.922251959	1.170733141
58° 39′ 20″	0.85405558	0.52018176	1.641840690	0.609072492	1.922404965	1.170883982
58° 39′ 30″	0.85408080	0.52014035	1.642019874	0.609006027	1.922558001	1.170849410
58° 39′ 40″	0.85410602	0.52009895	1.642199087	0.608939567	1.922711065	1.170814843
58° 39′ 50″	0.85413123	0.52005754	1.642378328	0.608873110	1.922864158	1.170780280
	1.00 113123	3.02000701		2.000075110	, 22301130	0.00200

440 **58° 39′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
58° 40′ 00″	0.85415644	0.52001613	1.642557597	0.608806657	1.923017280	1.170745722
58° 40′ 10″	0.85418165	0.51997472	1.642736895	0.608740208	1.923170431	1.170711169
58° 40′ 20″	0.85420686	0.51993330	1.642916222	0.608673764	1.923323611	1.170676621
58° 40′ 30″	0.85423207	0.51989189	1.643095577	0.608607323	1.923476820	1.170642077
58° 40′ 40″	0.85425727	0.51985048	1.643274961	0.608540885	1.923630057	1.170607539
58° 40′ 50″	0.85428247	0.51980906	1.643454374	0.608474452	1.923783324	1.170573005
58° 41′ 00″	0.85430767	0.51976764	1.643633815	0.608408023	1.923936620	1.170538476
58° 41′ 10″	0.85433287	0.51972622	1.643813284	0.608341598	1.924089944	1.170503951
58° 41′ 20″	0.85435807	0.51968480	1.643992783	0.608275177	1.924243298	1.170469432
58° 41′ 30″	0.85438326	0.51964338	1.644172309	0.608208759	1.924396680	1.170434917
58° 41′ 40″	0.85440845	0.51960196	1.644351865	0.608142346	1.924550092	1.170400407
58° 41′ 50″	0.85443364	0.51956054	1.644531449	0.608075936	1.924703532	1.170365902
58° 42′ 00″	0.85445883	0.51951911	1.644711062	0.608009530	1.924857002	1.170331401
58° 42′ 10″	0.85448402	0.51947769	1.644890703	0.607943128	1.925010500	1.170296906
58° 42′ 20″	0.85450920	0.51943626	1.645070373	0.607876731	1.925164028	1.170262415
58° 42′ 30″	0.85453438	0.51939483	1.645250072	0.607810337	1.925317584	1.170227929
58° 42′ 40″	0.85455956	0.51935340	1.645429799	0.607743947	1.925471170	1.170193447
58° 42′ 50″	0.85458474	0.51931197	1.645609555	0.607677560	1.925624784	1.170158971
58° 43′ 00″	0.85460992	0.51927054	1.645789340	0.607611178	1.925778428	1.170124499
58° 43′ 10″	0.85463509	0.51922910	1.645969154	0.607544800	1.925932100	1.170090032
58° 43′ 20″	0.85466026	0.51918767	1.646148996	0.607478425	1.926085802	1.170055570
58° 43′ 30″	0.85468543	0.51914623	1.646328867	0.607412055	1.926239533	1.170021113
58° 43′ 40″	0.85471060	0.51910480	1.646508766	0.607345688	1.926393292	1.169986660
58° 43′ 50″	0.85473577	0.51906336	1.646688694	0.607279326	1.926547081	1.169952212
58° 44′ 00″	0.85476093	0.51902192	1.646868652	0.607212967	1.926700899	1.169917769
58° 44′ 10″	0.85478609	0.51898048	1.647048637	0.607146612	1.926854746	1.169883331
58° 44′ 20″	0.85481125	0.51893904	1.647228652	0.607080261	1.927008623	1.169848898
58° 44′ 30″ 58° 44′ 40″	0.85483641	0.51889759	1.647408695	0.607013914	1.927162528	1.169814469
58° 44′ 50″	0.85486156 0.85488672	0.51885615 0.51881470	1.647588767 1.647768868	0.606947571 0.606881232	1.927316462 1.927470426	1.169780045 1.169745626
58° 45′ 00″	0.85491187	0.51877326	1.647766666	0.606814896	1.927624418	1.169743626
58° 45′ 10″	0.85493702	0.51873181	1.647746777	0.606748565	1.927624416	1.169676802
58° 45′ 20″	0.85496217	0.51869036	1.648309343	0.606748383	1.927932491	1.169642397
58° 45′ 30″	0.85498731	0.51864891	1.648489559	0.606615914	1.928086571	1.169607997
58° 45′ 40″	0.85501246	0.51860746	1.648669804	0.606549594	1.928240680	1.169573602
58° 45′ 50″	0.85503760	0.51856601	1.648850077	0.606483278	1.928394819	1.169539211
58° 46′ 00″	0.85506274	0.51852455	1.649030380	0.606416966	1.928548986	1.169504826
58° 46′ 10″	0.85508788	0.51848310	1.649210711	0.606350658	1.928703183	1.169470445
58° 46′ 20″	0.85511301	0.51844164	1.649391071	0.606284354	1.928857409	1.169436068
58° 46′ 30″	0.85513815	0.51840018	1.649571460	0.606218054	1.929011664	1.169401697
58° 46′ 40″	0.85516328	0.51835872	1.649751878	0.606151757	1.929165949	1.169367330
58° 46′ 50″	0.85518841	0.51831726	1.649932324	0.606085465	1.929320262	1.169332968
58° 47′ 00″	0.85521354	0.51827580	1.650112800	0.606019176	1.929474605	1.169298611
58° 47′ 10″	0.85523866	0.51823434	1.650293304	0.605952892	1.929628977	1.169264259
58° 47′ 20″	0.85526379	0.51819288	1.650473837	0.605886611	1.929783378	1.169229911
58° 47′ 30″	0.85528891	0.51815141	1.650654400	0.605820334	1.929937809	1.169195568
58° 47′ 40″	0.85531403	0.51810995	1.650834991	0.605754061	1.930092269	1.169161230
58° 47′ 50″	0.85533914	0.51806848	1.651015611	0.605687792	1.930246758	1.169126897

441 58° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
58° 48′ 00″	0.85536426	0.51802701	1.651196259	0.605621527	1.930401276	1.169092569
58° 48′ 10″	0.85538937	0.51798554	1.651376937	0.605555266	1.930555824	1.169058245
58° 48′ 20″	0.85541449	0.51794407	1.651557644	0.605489008	1.930710401	1.169023926
58° 48′ 30″	0.85543960	0.51790260	1.651738380	0.605422755	1.930865007	1.168989612
58° 48′ 40″	0.85546470	0.51786112	1.651919144	0.605356505	1.931019642	1.168955302
58° 48′ 50″	0.85548981	0.51781965	1.652099938	0.605290259	1.931174307	1.168920997
58° 49′ 00″	0.85551491	0.51777817	1.652280760	0.605224018	1.931329001	1.168886697
58° 49′ 10″	0.85554001	0.51773669	1.652461612	0.605157780	1.931483725	1.168852402
58° 49′ 20″	0.85556511	0.51769522	1.652642492	0.605091546	1.931638478	1.168818112
58° 49′ 30″	0.85559021	0.51765374	1.652823402	0.605025315	1.931793260	1.168783826
58° 49′ 40″	0.85561531	0.51761226	1.653004340	0.604959089	1.931948071	1.168749545
58° 49′ 50″	0.85564040	0.51757077	1.653185308	0.604892867	1.932102912	1.168715269
58° 50′ 00″	0.85566549	0.51752929	1.653366304	0.604826648	1.932257782	1.168680998
58° 50′ 10″	0.85569058	0.51748781	1.653547330	0.604760433	1.932412682	1.168646731
58° 50′ 20″	0.85571567	0.51744632	1.653728385	0.604694223	1.932567611	1.168612469
58° 50′ 30″	0.85574075	0.51740483	1.653909468	0.604628016	1.932722569	1.168578212
58° 50′ 40″	0.85576584	0.51736335	1.654090581	0.604561813	1.932877557	1.168543960
58° 50′ 50″	0.85579092	0.51732186	1.654271722	0.604495614	1.933032574	1.168509712
58° 51′ 00″	0.85581600	0.51728037	1.654452893	0.604429418	1.933187620	1.168475469
58° 51′ 10″	0.85584108	0.51723887	1.654634093	0.604363227	1.933342696	1.168441231
58° 51′ 20″	0.85586615	0.51719738	1.654815322	0.604297040	1.933497802	1.168406998
58° 51′ 30″	0.85589122	0.51715589	1.654996580	0.604230856	1.933652937	1.168372769
58° 51′ 40″	0.85591630	0.51711439	1.655177867	0.604164676	1.933808101	1.168338545
58° 51′ 50″	0.85594137	0.51707290	1.655359183	0.604098500	1.933963295	1.168304326
58° 52′ 00″	0.85596643	0.51703140	1.655540528	0.604032328	1.934118518	1.168270112
58° 52′ 10″	0.85599150	0.51698990	1.655721903	0.603966160	1.934273770	1.168235902
58° 52′ 20″	0.85601656	0.51694840	1.655903306	0.603899996	1.934429052	1.168201697
58° 52′ 30″	0.85604162	0.51690690	1.656084739	0.603833836	1.934584364	1.168167497
58° 52′ 40″	0.85606668	0.51686539	1.656266200	0.603767679	1.934739705	1.168133302
58° 52′ 50″	0.85609174	0.51682389	1.656447691	0.603701527	1.934895076	1.168099111
58° 53′ 00″	0.85611679	0.51678239	1.656629211	0.603635378	1.935050476	1.168064925
58° 53′ 10″	0.85614185	0.51674088	1.656810761	0.603569233	1.935205905	1.168030744
58° 53′ 20″	0.85616690	0.51669937	1.656992339	0.603503092	1.935361365	1.167996568
58° 53′ 30″	0.85619195	0.51665786	1.657173946	0.603436955	1.935516853	1.167962396
58° 53′ 40″	0.85621700	0.51661635	1.657355583	0.603370822	1.935672371	1.167928229
58° 53′ 50″	0.85624204	0.51657484	1.657537249	0.603304692	1.935827919	1.167894067
58° 54′ 00″	0.85626708	0.51653333	1.657718944	0.603238567	1.935983496	1.167859910
58° 54′ 10″	0.85629213	0.51649182	1.657900669	0.603172445	1.936139103	1.167825757
58° 54′ 20″	0.85631717	0.51645030	1.658082422	0.603106327	1.936294740	1.167791609
58° 54′ 30″	0.85634220	0.51640878	1.658264205	0.603040213	1.936450406	1.167757466
58° 54′ 40″	0.85636724	0.51636727	1.658446017	0.602974103	1.936606101	1.167723327
58° 54′ 50″	0.85639227	0.51632575	1.658627858	0.602907997	1.936761826	1.167689194
58° 55′ 00″	0.85641730	0.51628423	1.658809729	0.602841895	1.936917581	1.167655065
58° 55′ 10″	0.85644233	0.51624271	1.658991628	0.602775796	1.937073365	1.167620941
58° 55′ 20″	0.85646736	0.51620119	1.659173557	0.602709702	1.937229179	1.167586821
58° 55′ 30″	0.85649238	0.51615966	1.659355516	0.602643611	1.937385023	1.167552706
58° 55′ 40″ 58° 55′ 50″	0.85651741	0.51611814	1.659537503	0.602577524	1.937540896	1.167518596
<u> </u>	0.85654243	0.51607661	1.659719520	0.602511441	1.937696799	1.167484491

442 58° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
58° 56′ 00″	0.85656745	0.51603509	1.659901566	0.602445362	1.937852732	1.167450390
58° 56′ 10″	0.85659246	0.51599356	1.660083642	0.602379287	1.938008694	1.167416295
58° 56′ 20″	0.85661748	0.51595203	1.660265746	0.602313215	1.938164686	1.167382204
58° 56′ 30″	0.85664249	0.51591050	1.660447880	0.602247148	1.938320707	1.167348117
58° 56′ 40″	0.85666750	0.51586897	1.660630044	0.602181084	1.938476758	1.167314036
58° 56′ 50″	0.85669251	0.51582743	1.660812237	0.602115024	1.938632839	1.167279959
58° 57′ 00″	0.85671752	0.51578590	1.660994459	0.602048968	1.938788950	1.167245887
58° 57′ 10″	0.85674252	0.51574436	1.661176710	0.601982916	1.938945090	1.167211819
58° 57′ 20″	0.85676753	0.51570283	1.661358991	0.601916868	1.939101260	1.167177757
58° 57′ 30″	0.85679253	0.51566129	1.661541301	0.601850823	1.939257460	1.167143699
58° 57′ 40″	0.85681753	0.51561975	1.661723640	0.601784783	1.939413689	1.167109646
58° 57′ 50″	0.85684252	0.51557821	1.661906009	0.601718746	1.939569948	1.167075597
58° 58′ 00″	0.85686752	0.51553667	1.662088408	0.601652713	1.939726237	1.167041553
58° 58′ 10″	0.85689251	0.51549512	1.662270835	0.601586684	1.939882556	1.167007514
58° 58′ 20″	0.85691750	0.51545358	1.662453292	0.601520659	1.940038904	1.166973480
58° 58′ 30″	0.85694249	0.51541204	1.662635779	0.601454638	1.940195282	1.166939451
58° 58′ 40″	0.85696748	0.51537049	1.662818295	0.601388620	1.940351690	1.166905426
58° 58′ 50″	0.85699246	0.51532894	1.663000840	0.601322607	1.940508128	1.166871406
58° 59′ 00″	0.85701745	0.51528739	1.663183415	0.601256597	1.940664595	1.166837390
58° 59′ 10″	0.85704243	0.51524584	1.663366019	0.601190591	1.940821093	1.166803380
58° 59′ 20″	0.85706741	0.51520429	1.663548653	0.601124589	1.940977620	1.166769374
58° 59′ 30″	0.85709238	0.51516274	1.663731316	0.601058591	1.941134177	1.166735372
58° 59′ 40″	0.85711736	0.51512119	1.663914009	0.600992596	1.941290763	1.166701376
58° 59′ 50″	0.85714233	0.51507963	1.664096731	0.600926606	1.941447380	1.166667384
59° 00′ 00″	0.85716730	0.51503807	1.664279482	0.600860619	1.941604026	1.166633397
59° 00′ 10″	0.85719227	0.51499652	1.664462263	0.600794636	1.941760703	1.166599415
59° 00′ 20″	0.85721724	0.51495496	1.664645074	0.600728657	1.941917409	1.166565437
59° 00′ 30″	0.85724220	0.51491340	1.664827914	0.600662682	1.942074145	1.166531464
59° 00′ 40″	0.85726716	0.51487184	1.665010784	0.600596711	1.942230911	1.166497496
59° 00′ 50″	0.85729212	0.51483028	1.665193683	0.600530743	1.942387706	1.166463533
59° 01′ 00″	0.85731708	0.51478871	1.665376612	0.600464780	1.942544532	1.166429574
59° 01′ 10″	0.85734204	0.51474715	1.665559570	0.600398820	1.942701387	1.166395620
59° 01′ 20″	0.85736699	0.51470558	1.665742557	0.600332864	1.942858273	1.166361671
59° 01′ 30″	0.85739195	0.51466402	1.665925575	0.600266912	1.943015188	1.166327726
59° 01′ 40″	0.85741690	0.51462245	1.666108622	0.600200963	1.943172133	1.166293787
59° 01′ 50″	0.85744185	0.51458088	1.666291698	0.600135019	1.943329108	1.166259851
59° 02′ 00″	0.85746679	0.51453931	1.666474804	0.600069078	1.943486113	1.166225921
59° 02′ 10″	0.85749174	0.51449774	1.666657940	0.600003142	1.943643148	1.166191995
59° 02′ 20″	0.85751668	0.51445616	1.666841105	0.599937209	1.943800213	1.166158074
59° 02′ 30″	0.85754162	0.51441459	1.667024300	0.599871280	1.943957308	1.166124158
59° 02′ 40″	0.85756656	0.51437301	1.667207524	0.599805354	1.944114433	1.166090247
59° 02′ 50″	0.85759150	0.51433144	1.667390778	0.599739433	1.944271588	1.166056340
59° 03′ 00″	0.85761643	0.51428986	1.667574062	0.599673515	1.944428773	1.166022438
59° 03′ 10″	0.85764136	0.51424828	1.667757375	0.599607602	1.944585988	1.165988540
59° 03′ 20″	0.85766629	0.51420670	1.667940718	0.599541692	1.944743232	1.165954648
59° 03′ 30″	0.85769122	0.51416512	1.668124091	0.599475786	1.944900507	1.165920760
59° 03′ 40″	0.85771615	0.51412354	1.668307493	0.599409883	1.945057812	1.165886876
59° 03′ 50″	0.85774107	0.51408195	1.668490925	0.599343985	1.945215147	1.165852998

443 59° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
59° 04′ 00″	0.85776599	0.51404037	1.668674387	0.599278090	1.945372512	1.165819124
59° 04′ 10″	0.85779091	0.51399878	1.668857878	0.599212200	1.945529907	1.165785255
59° 04′ 20″	0.85781583	0.51395719	1.669041399	0.599146313	1.945687332	1.165751390
59° 04′ 30″	0.85784075	0.51391560	1.669224950	0.599080430	1.945844787	1.165717531
59° 04′ 40″	0.85786566	0.51387401	1.669408530	0.599014550	1.946002272	1.165683676
59° 04′ 50″	0.85789058	0.51383242	1.669592141	0.598948675	1.946159787	1.165649825
59° 05′ 00″	0.85791549	0.51379083	1.669775780	0.598882803	1.946317332	1.165615980
59° 05′ 10″	0.85794039	0.51374924	1.669959450	0.598816935	1.946474907	1.165582139
59° 05′ 20″	0.85796530	0.51370764	1.670143149	0.598751071	1.946632513	1.165548302
59° 05′ 30″	0.85799021	0.51366605	1.670326879	0.598685211	1.946790148	1.165514471
59° 05′ 40″	0.85801511	0.51362445	1.670510637	0.598619355	1.946947814	1.165480644
59° 05′ 50″	0.85804001	0.51358285	1.670694426	0.598553502	1.947105510	1.165446822
59° 06′ 00″	0.85806491	0.51354125	1.670878245	0.598487654	1.947263235	1.165413005
59° 06′ 10″	0.85808980	0.51349965	1.671062093	0.598421809	1.947420991	1.165379192
59° 06′ 20″	0.85811470	0.51345805	1.671245971	0.598355968	1.947578778	1.165345384
59° 06′ 30″	0.85813959	0.51341645	1.671429878	0.598290130	1.947736594	1.165311581
59° 06′ 40″	0.85816448	0.51337484	1.671613816	0.598224297	1.947894440	1.165277782
59° 06′ 50″	0.85818937	0.51333324	1.671797783	0.598158467	1.948052317	1.165243988
59° 07′ 00″	0.85821425	0.51329163	1.671981781	0.598092642	1.948210224	1.165210199
59° 07′ 10″	0.85823914	0.51325002	1.672165808	0.598026820	1.948368160	1.165176415
59° 07′ 20″	0.85826402	0.51320841	1.672349865	0.597961002	1.948526128	1.165142635
59° 07′ 30″	0.85828890	0.51316680	1.672533951	0.597895187	1.948684125	1.165108860
59° 07′ 40″	0.85831378	0.51312519	1.672718068	0.597829377	1.948842152	1.165075089
59° 07′ 50″	0.85833865	0.51308358	1.672902215	0.597763570	1.949000210	1.165041324
59° 08′ 00″	0.85836353	0.51304196	1.673086391	0.597697767	1.949158298	1.165007563
59° 08′ 10″	0.85838840	0.51300035	1.673270597	0.597631968	1.949316416	1.164973806
59° 08′ 20″	0.85841327	0.51295873	1.673454833	0.597566173	1.949474565	1.164940055
59° 08′ 30″	0.85843814	0.51291711	1.673639099	0.597500381	1.949632744	1.164906308
59° 08′ 40″	0.85846300	0.51287550	1.673823395	0.597434594	1.949790952	1.164872565
59° 08′ 50″	0.85848787	0.51283387	1.674007721	0.597368810	1.949949192	1.164838828
59° 09′ 00″	0.85851273	0.51279225	1.674192077	0.597303030	1.950107461	1.164805095
59° 09′ 10″	0.85853759	0.51275063	1.674376462	0.597237254	1.950265761	1.164771367
59° 09′ 20″	0.85856245	0.51270901	1.674560878	0.597171481	1.950424091	1.164737643
59° 09′ 30″	0.85858730	0.51266738	1.674745324	0.597105713	1.950582451	1.164703925
59° 09′ 40″	0.85861216	0.51262576	1.674929799	0.597039948	1.950740842	1.164670211
59° 09′ 50″	0.85863701	0.51258413	1.675114305	0.596974187	1.950899263	1.164636501
59° 10′ 00″	0.85866186	0.51254250	1.675298840	0.596908430	1.951057714	1.164602796
59° 10′ 10″	0.85868670	0.51250087	1.675483406	0.596842676	1.951216196	1.164569096
59° 10′ 20″	0.85871155	0.51245924	1.675668001	0.596776927	1.951374708	1.164535401
59° 10′ 30″	0.85873639	0.51241761	1.675852626	0.596711181	1.951533250	1.164501710
59° 10′ 40″	0.85876124	0.51237597	1.676037282	0.596645439	1.951691823	1.164468024
59° 10′ 50″	0.85878608	0.51233434	1.676221967	0.596579701	1.951850426	1.164434343
59° 11′ 00″	0.85881091	0.51229270	1.676406683	0.596513967	1.952009059	1.164400667
59° 11′ 10″	0.85883575	0.51225107	1.676591428	0.596448236	1.952167723	1.164366995
59° 11′ 20″	0.85886058	0.51220943	1.676776204	0.596382509	1.952326417	1.164333327
59° 11′ 30″	0.85888541	0.51216779	1.676961009	0.596316786	1.952485141	1.164299665
59° 11′ 40″ 59° 11′ 50″	0.85891024 0.85893507	0.51212615	1.677145845	0.596251067	1.952643896	1.164266007
<u> </u>	0.0307330/	0.51208451	1.677330711	0.596185352	1.952802681	1.164232354

444 59° 11′ 50″

x	sin(x)	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
59° 12′ 00″	0.85895990	0.51204286	1.677515606	0.596119640	1.952961497	1.164198705
59° 12′ 10″	0.85898472	0.51200122	1.677700532	0.596053933	1.953120343	1.164165062
59° 12′ 20″	0.85900954	0.51195958	1.677885488	0.595988229	1.953279220	1.164131422
59° 12′ 30″	0.85903436	0.51191793	1.678070474	0.595922529	1.953438127	1.164097788
59° 12′ 40″	0.85905918	0.51187628	1.678255490	0.595856832	1.953597064	1.164064158
59° 12′ 50″	0.85908399	0.51183463	1.678440536	0.595791140	1.953756032	1.164030533
59° 13′ 00″	0.85910881	0.51179298	1.678625613	0.595725451	1.953915031	1.163996913
59° 13′ 10″	0.85913362	0.51175133	1.678810719	0.595659766	1.954074060	1.163963297
59° 13′ 20″	0.85915843	0.51170968	1.678995856	0.595594085	1.954233119	1.163929686
59° 13′ 30″	0.85918324	0.51166802	1.679181022	0.595528407	1.954392209	1.163896080
59° 13′ 40″	0.85920804	0.51162637	1.679366219	0.595462734	1.954551329	1.163862478
59° 13′ 50″	0.85923284	0.51158471	1.679551446	0.595397064	1.954710480	1.163828881
59° 14′ 00″	0.85925765	0.51154306	1.679736704	0.595331398	1.954869661	1.163795288
59° 14′ 10″	0.85928245	0.51150140	1.679921991	0.595265736	1.955028873	1.163761701
59° 14′ 20″	0.85930724	0.51145974	1.680107309	0.595200077	1.955188116	1.163728118
59° 14′ 30″	0.85933204	0.51141808	1.680292656	0.595134423	1.955347389	1.163694539
59° 14′ 40″	0.85935683	0.51137641	1.680478034	0.595068772	1.955506692	1.163660966
59° 14′ 50″	0.85938162	0.51133475	1.680663442	0.595003125	1.955666026	1.163627397
59° 15′ 00″	0.85940641	0.51129309	1.680848881	0.594937482	1.955825391	1.163593832
59° 15′ 10″	0.85943120	0.51125142	1.681034349	0.594871842	1.955984786	1.163560273
59° 15′ 20″	0.85945598	0.51120975	1.681219848	0.594806206	1.956144212	1.163526718
59° 15′ 30″	0.85948077	0.51116809	1.681405377	0.594740574	1.956303668	1.163493168
59° 15′ 40″	0.85950555	0.51112642	1.681590937	0.594674946	1.956463155	1.163459622
59° 15′ 50″	0.85953033	0.51108475	1.681776526	0.594609322	1.956622673	1.163426081
59° 16′ 00″	0.85955510	0.51104307	1.681962146	0.594543701	1.956782221	1.163392545
59° 16′ 10″	0.85957988	0.51100140	1.682147796	0.594478085	1.956941800	1.163359013
59° 16′ 20″	0.85960465	0.51095973	1.682333477	0.594412472	1.957101409	1.163325486
59° 16′ 30″	0.85962942	0.51091805	1.682519187	0.594346862	1.957261050	1.163291964
59° 16′ 40″	0.85965419	0.51087637	1.682704928	0.594281257	1.957420720	1.163258446
59° 16′ 50″	0.85967896	0.51083470	1.682890700	0.594215655	1.957580422	1.163224933
59° 17′ 00″	0.85970372	0.51079302	1.683076501	0.594150057	1.957740154	1.163191425
59° 17′ 10″	0.85972849	0.51075134	1.683262333	0.594084463	1.957899916	1.163157921
59° 17′ 20″	0.85975325	0.51070966	1.683448196	0.594018873	1.958059710	1.163124422
59° 17′ 30″	0.85977801	0.51066797	1.683634088	0.593953287	1.958219534	1.163090928
59° 17′ 40″	0.85980276	0.51062629	1.683820011	0.593887704	1.958379389	1.163057438
59° 17′ 50″	0.85982752	0.51058460	1.684005965	0.593822125	1.958539274	1.163023953
59° 18′ 00″	0.85985227	0.51054292	1.684191948	0.593756550	1.958699190	1.162990473
59° 18′ 10″	0.85987702	0.51050123	1.684377962	0.593690978	1.958859137	1.162956997
59° 18′ 20″	0.85990177	0.51045954	1.684564007	0.593625410	1.959019115	1.162923526
59° 18′ 30″	0.85992652	0.51041785	1.684750082	0.593559847	1.959179123	1.162890060
59° 18′ 40″	0.85995126	0.51037616	1.684936187	0.593494286	1.959339163	1.162856598
59° 18′ 50″	0.85997601	0.51033447	1.685122323	0.593428730	1.959499232	1.162823141
59° 19′ 00″	0.86000075	0.51029278	1.685308489	0.593363178	1.959659333	1.162789689
59° 19′ 10″	0.86002548	0.51025108	1.685494685	0.593297629	1.959819465	1.162756241
59° 19′ 20″	0.86005022	0.51020939	1.685680912	0.593232084	1.959979627	1.162722798
59° 19′ 30″	0.86007496	0.51016769	1.685867169	0.593166542	1.960139820	1.162689360
59° 19′ 40″	0.86009969	0.51012599	1.686053457	0.593101005	1.960300044	1.162655926
59° 19′ 50″	0.86012442	0.51008429	1.686239776	0.593035471	1.960460298	1.162622497

445 59° 19′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
59° 20′ 00″	0.86014915	0.51004259	1.686426124	0.592969941	1.960620584	1.162589072
59° 20′ 10″	0.86017387	0.51000089	1.686612504	0.592904415	1.960780900	1.162555653
59° 20′ 20″	0.86019860	0.50995918	1.686798913	0.592838893	1.960941247	1.162522238
59° 20′ 30″	0.86022332	0.50991748	1.686985353	0.592773374	1.961101625	1.162488827
59° 20′ 40″	0.86024804	0.50987578	1.687171824	0.592707859	1.961262034	1.162455421
59° 20′ 50″	0.86027276	0.50983407	1.687358325	0.592642348	1.961422473	1.162422020
59° 21′ 00″	0.86029748	0.50979236	1.687544857	0.592576841	1.961582944	1.162388624
59° 21′ 10″	0.86032219	0.50975065	1.687731419	0.592511337	1.961743445	1.162355232
59° 21′ 20″	0.86034690	0.50970894	1.687918012	0.592445837	1.961903977	1.162321844
59° 21′ 30″	0.86037161	0.50966723	1.688104635	0.592380341	1.962064540	1.162288462
59° 21′ 40″	0.86039632	0.50962552	1.688291289	0.592314849	1.962225134	1.162255084
59° 21′ 50″	0.86042103	0.50958380	1.688477974	0.592249360	1.962385759	1.162221711
59° 22′ 00″	0.86044573	0.50954209	1.688664689	0.592183876	1.962546415	1.162188342
59° 22′ 10″	0.86047044	0.50950037	1.688851434	0.592118395	1.962707102	1.162154978
59° 22′ 20″	0.86049514	0.50945866	1.689038210	0.592052917	1.962867819	1.162121619
59° 22′ 30″	0.86051983	0.50941694	1.689225017	0.591987444	1.963028568	1.162088264
59° 22′ 40″	0.86054453	0.50937522	1.689411854	0.591921974	1.963189347	1.162054914
59° 22′ 50″	0.86056922	0.50933350	1.689598722	0.591856508	1.963350158	1.162021569
59° 23′ 00″	0.86059392	0.50929177	1.689785621	0.591791046	1.963510999	1.161988228
59° 23′ 10″	0.86061861	0.50925005	1.689972550	0.591725587	1.963671872	1.161954892
59° 23′ 20″	0.86064329	0.50920833	1.690159510	0.591660133	1.963832775	1.161921560
59° 23′ 30″	0.86066798	0.50916660	1.690346500	0.591594682	1.963993710	1.161888234
59° 23′ 40″	0.86069266	0.50912487	1.690533522	0.591529235	1.964154675	1.161854911
59° 23′ 50″	0.86071735	0.50908315	1.690720573	0.591463791	1.964315671	1.161821594
59° 24′ 00″	0.86074203	0.50904142	1.690907656	0.591398351	1.964476699	1.161788281
59° 24′ 10″	0.86076671	0.50899969	1.691094769	0.591332915	1.964637757	1.161754973
59° 24′ 20″	0.86079138	0.50895795	1.691281913	0.591267483	1.964798847	1.161721669
59° 24′ 30″	0.86081605	0.50891622	1.691469087	0.591202055	1.964959967	1.161688370
59° 24′ 40″	0.86084073	0.50887449	1.691656292	0.591136630	1.965121119	1.161655076
59° 24′ 50″	0.86086540	0.50883275	1.691843528	0.591071209	1.965282301	1.161621786
59° 25′ 00″	0.86089006	0.50879101	1.692030795	0.591005792	1.965443515	1.161588501
59° 25′ 10″	0.86091473	0.50874928	1.692218092	0.590940379	1.965604760	1.161555221
59° 25′ 20″	0.86093939	0.50870754	1.692405420	0.590874969	1.965766036	1.161521945
59° 25′ 30″	0.86096406	0.50866580	1.692592779	0.590809563	1.965927343	1.161488674
59° 25′ 40″	0.86098872	0.50862406	1.692780169	0.590744161	1.966088681	1.161455407
59° 25′ 50″	0.86101337	0.50858231	1.692967589	0.590678762	1.966250050	1.161422146
59° 26′ 00″	0.86103803	0.50854057	1.693155040	0.590613368	1.966411450	1.161388888
59° 26′ 10″	0.86106268	0.50849883	1.693342522	0.590547977	1.966572881	1.161355636
59° 26′ 20″	0.86108734	0.50845708	1.693530035	0.590482589	1.966734344	1.161322388
59° 26′ 30″	0.86111198	0.50841533	1.693717578	0.590417206	1.966895837	1.161289144
59° 26′ 40″	0.86113663	0.50837358	1.693905152	0.590351826	1.967057362	1.161255906
59° 26′ 50″	0.86116128	0.50833183	1.694092758	0.590286450	1.967218918	1.161222672
59° 27′ 00″	0.86118592	0.50829008	1.694280393	0.590221078	1.967380505	1.161189442
59° 27′ 10″	0.86121056	0.50824833	1.694468060	0.590155709	1.967542123	1.161156217
59° 27′ 20″	0.86123520	0.50820658	1.694655758	0.590090345	1.967703773	1.161122997
59° 27′ 30″	0.86125984	0.50816482	1.694843486	0.590024984	1.967865453	1.161089782
59° 27′ 40″	0.86128448	0.50812307	1.695031245	0.589959626	1.968027165	1.161056571
59° 27′ 50″	0.86130911	0.50808131	1.695219036	0.589894273	1.968188908	1.161023365
	1					

446 59° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
59° 28′ 00″	0.86133374	0.50803955	1.695406856	0.589828923	1.968350682	1.160990163
59° 28′ 10″	0.86135837	0.50799779	1.695594708	0.589763577	1.968512488	1.160956966
59° 28′ 20″	0.86138300	0.50795603	1.695782591	0.589698234	1.968674325	1.160923773
59° 28′ 30″	0.86140762	0.50791427	1.695970505	0.589632896	1.968836193	1.160890586
59° 28′ 40″	0.86143225	0.50787251	1.696158449	0.589567561	1.968998092	1.160857403
59° 28′ 50″	0.86145687	0.50783074	1.696346425	0.589502230	1.969160022	1.160824224
59° 29′ 00″	0.86148149	0.50778898	1.696534431	0.589436902	1.969321984	1.160791050
59° 29′ 10″	0.86150610	0.50774721	1.696722468	0.589371579	1.969483977	1.160757881
59° 29′ 20″	0.86153072	0.50770545	1.696910537	0.589306259	1.969646001	1.160724716
59° 29′ 30″	0.86155533	0.50766368	1.697098636	0.589240943	1.969808057	1.160691556
59° 29′ 40″	0.86157994	0.50762191	1.697286766	0.589175630	1.969970144	1.160658401
59° 29′ 50″	0.86160455	0.50758014	1.697474927	0.589110321	1.970132262	1.160625250
59° 30′ 00″	0.86162916	0.50753836	1.697663119	0.589045016	1.970294411	1.160592104
59° 30′ 10″	0.86165377	0.50749659	1.697851342	0.588979715	1.970456592	1.160558962
59° 30′ 20″	0.86167837	0.50745481	1.698039596	0.588914418	1.970618804	1.160525825
59° 30′ 30″	0.86170297	0.50741304	1.698227882	0.588849124	1.970781048	1.160492693
59° 30′ 40″	0.86172757	0.50737126	1.698416198	0.588783834	1.970943322	1.160459565
59° 30′ 50″	0.86175217	0.50732948	1.698604545	0.588718547	1.971105629	1.160426442
59° 31′ 00″	0.86177676	0.50728770	1.698792923	0.588653265	1.971267966	1.160393324
59° 31′ 10″	0.86180135	0.50724592	1.698981332	0.588587986	1.971430335	1.160360210
59° 31′ 20″	0.86182594	0.50720414	1.699169772	0.588522711	1.971592735	1.160327101
59° 31′ 30″	0.86185053	0.50716236	1.699358243	0.588457439	1.971755167	1.160293996
59° 31′ 40″	0.86187512	0.50712057	1.699546746	0.588392171	1.971917630	1.160260896
59° 31′ 50″	0.86189971	0.50707879	1.699735279	0.588326907	1.972080125	1.160227801
59° 32′ 00″	0.86192429	0.50703700	1.699923843	0.588261647	1.972242651	1.160194710
59° 32′ 10″	0.86194887	0.50699521	1.700112439	0.588196390	1.972405208	1.160161624
59° 32′ 20″	0.86197345	0.50695342	1.700301066	0.588131138	1.972567797	1.160128542
59° 32′ 30″	0.86199802	0.50691163	1.700489723	0.588065889	1.972730417	1.160095466
59° 32′ 40″	0.86202260	0.50686984	1.700678412	0.588000643	1.972893069	1.160062393
59° 32′ 50″	0.86204717	0.50682805	1.700867132	0.587935401	1.973055752	1.160029326
59° 33′ 00″	0.86207174	0.50678626	1.701055883	0.587870163	1.973218467	1.159996263
59° 33′ 10″	0.86209631	0.50674446	1.701244665	0.587804929	1.973381213	1.159963204
59° 33′ 20″	0.86212088	0.50670267	1.701433479	0.587739699	1.973543990	1.159930150
59° 33′ 30″	0.86214544	0.50666087	1.701622323	0.587674472	1.973706799	1.159897101
59° 33′ 40″	0.86217001	0.50661907	1.701811199	0.587609249	1.973869640	1.159864056
59° 33′ 50″	0.86219457	0.50657727	1.702000106	0.587544029	1.974032512	1.159831016
59° 34′ 00″	0.86221912	0.50653547	1.702189044	0.587478814	1.974195416	1.159797981
59° 34′ 10″	0.86224368	0.50649367	1.702378013	0.587413602	1.974358351	1.159764950
59° 34′ 20″	0.86226824	0.50645186	1.702567013	0.587348394	1.974521318	1.159731924
59° 34′ 30″	0.86229279	0.50641006	1.702756045	0.587283189	1.974684316	1.159698902
59° 34′ 40″	0.86231734	0.50636825	1.702945107	0.587217988	1.974847346	1.159665885
59° 34′ 50″	0.86234189	0.50632645	1.703134201	0.587152791	1.975010407	1.159632873
59° 35′ 00″	0.86236643	0.50628464	1.703323327	0.587087598	1.975173500	1.159599865
59° 35′ 10″	0.86239098	0.50624283	1.703512483	0.587022408	1.975336625	1.159566862
59° 35′ 20″	0.86241552	0.50620102	1.703701671	0.586957222	1.975499781	1.159533863
59° 35′ 30″	0.86244006	0.50615921	1.703890890	0.586892040	1.975662968	1.159500870
59° 35′ 40″ 59° 35′ 50″	0.86246460	0.50611739	1.704080140	0.586826861	1.975826188	1.159467880
<u> </u>	0.86248913	0.50607558	1.704269422	0.586761686	1.975989439	1.159434895

447 59° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
59° 36′ 00″	0.86251367	0.50603376	1.704458734	0.586696515	1.976152721	1.159401915
59° 36′ 10″	0.86253820	0.50599195	1.704648079	0.586631348	1.976316035	1.159368940
59° 36′ 20″	0.86256273	0.50595013	1.704837454	0.586566184	1.976479381	1.159335969
59° 36′ 30″	0.86258726	0.50590831	1.705026861	0.586501024	1.976642759	1.159303002
59° 36′ 40″	0.86261179	0.50586649	1.705216299	0.586435868	1.976806168	1.159270041
59° 36′ 50″	0.86263631	0.50582467	1.705405768	0.586370715	1.976969609	1.159237083
59° 37′ 00″	0.86266083	0.50578285	1.705595269	0.586305566	1.977133081	1.159204131
59° 37′ 10″	0.86268535	0.50574102	1.705784801	0.586240421	1.977296585	1.159171183
59° 37′ 20″	0.86270987	0.50569920	1.705974364	0.586175280	1.977460121	1.159138240
59° 37′ 30″	0.86273439	0.50565737	1.706163959	0.586110142	1.977623689	1.159105301
59° 37′ 40″	0.86275890	0.50561555	1.706353585	0.586045008	1.977787288	1.159072367
59° 37′ 50″	0.86278341	0.50557372	1.706543242	0.585979877	1.977950919	1.159039437
59° 38′ 00″	0.86280792	0.50553189	1.706732931	0.585914751	1.978114582	1.159006512
59° 38′ 10″	0.86283243	0.50549006	1.706922652	0.585849628	1.978278276	1.158973592
59° 38′ 20″	0.86285694	0.50544823	1.707112403	0.585784508	1.978442002	1.158940676
59° 38′ 30″	0.86288144	0.50540639	1.707302186	0.585719393	1.978605760	1.158907765
59° 38′ 40″	0.86290594	0.50536456	1.707492001	0.585654281	1.978769550	1.158874858
59° 38′ 50″	0.86293044	0.50532272	1.707681847	0.585589173	1.978933372	1.158841956
59° 39′ 00″	0.86295494	0.50528089	1.707871724	0.585524068	1.979097225	1.158809059
59° 39′ 10″	0.86297943	0.50523905	1.708061633	0.585458968	1.979261110	1.158776166
59° 39′ 20″	0.86300393	0.50519721	1.708251573	0.585393870	1.979425027	1.158743278
59° 39′ 30″	0.86302842	0.50515537	1.708441545	0.585328777	1.979588975	1.158710394
59° 39′ 40″	0.86305291	0.50511353	1.708631548	0.585263687	1.979752956	1.158677515
59° 39′ 50″	0.86307740	0.50507169	1.708821583	0.585198601	1.979916968	1.158644640
59° 40′ 00″	0.86310188	0.50502984	1.709011649	0.585133519	1.980081012	1.158611771
59° 40′ 10″	0.86312637	0.50498800	1.709201746	0.585068440	1.980245088	1.158578905
59° 40′ 20″	0.86315085	0.50494615	1.709391876	0.585003365	1.980409196	1.158546045
59° 40′ 30″	0.86317533	0.50490430	1.709582036	0.584938294	1.980573336	1.158513189
59° 40′ 40″	0.86319980	0.50486245	1.709772229	0.584873227	1.980737507	1.158480337
59° 40′ 50″	0.86322428	0.50482060	1.709962452	0.584808163	1.980901711	1.158447490
59° 41′ 00″	0.86324875	0.50477875	1.710152708	0.584743103	1.981065946	1.158414648
59° 41′ 10″	0.86327322	0.50473690	1.710342994	0.584678046	1.981230213	1.158381810
59° 41′ 20″	0.86329769	0.50469505	1.710533313	0.584612993	1.981394512	1.158348977
59° 41′ 30″	0.86332216	0.50465319	1.710723663	0.584547944	1.981558843	1.158316148
59° 41′ 40″	0.86334663	0.50461134	1.710914044	0.584482899	1.981723206	1.158283324
59° 41′ 50″	0.86337109	0.50456948	1.711104457	0.584417857	1.981887601	1.158250505
59° 42′ 00″ 59° 42′ 10″	0.86339555	0.50452762	1.711294902	0.584352819	1.982052028	1.158217690
	0.86342001	0.50448576	1.711485378	0.584287785	1.982216487	1.158184880
59° 42′ 20″	0.86344447	0.50444390	1.711675886	0.584222754	1.982380978	1.158152074
59° 42′ 30″ 59° 42′ 40″	0.86346892	0.50440204	1.711866426	0.584157727	1.982545500	1.158119273
	0.86349338	0.50436018	1.712056997	0.584092704	1.982710055	1.158086476
59° 42′ 50″ 59° 43′ 00″	0.86351783	0.50431832	1.712247600	0.584027684 0.583962668	1.982874641	1.158053684
59° 43′ 10″	0.86354228	0.50427645	1.712438234		1.983039260	1.158020897
59° 43′ 10″ 59° 43′ 20″	0.86356672	0.50423458	1.712628901 1.712819598	0.583897656	1.983203911	1.157988114
59° 43′ 20″ 59° 43′ 30″	0.86359117	0.50419272	1.712819398	0.583832647 0.583767642	1.983368593	1.157955336
59° 43′ 30″ 59° 43′ 40″	0.86364005	0.50415085 0.50410898	1.713010328	0.583767642	1.983533308 1.983698054	1.157922562 1.157889793
59° 43′ 50″	0.86366449	0.50410878	1.713201089	0.583637643	1.983862833	1.157857029
=======================================	0.00300447	0.50400/11	1./ 133/1004	0.30303/043	1./03002033	1.13/03/04/

448 59° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
59° 44′ 00″	0.86368893	0.50402524	1.713582706	0.583572649	1.984027644	1.157824269
59° 44′ 10″	0.86371336	0.50398336	1.713773563	0.583507659	1.984192487	1.157791513
59° 44′ 20″	0.86373779	0.50394149	1.713964451	0.583442673	1.984357361	1.157758763
59° 44′ 30″	0.86376223	0.50389961	1.714155370	0.583377690	1.984522268	1.157726016
59° 44′ 40″	0.86378665	0.50385773	1.714346322	0.583312711	1.984687207	1.157693275
59° 44′ 50″	0.86381108	0.50381586	1.714537305	0.583247735	1.984852178	1.157660538
59° 45′ 00″	0.86383551	0.50377398	1.714728320	0.583182763	1.985017181	1.157627805
59° 45′ 10″	0.86385993	0.50373210	1.714919366	0.583117795	1.985182217	1.157595077
59° 45′ 20″	0.86388435	0.50369021	1.715110445	0.583052831	1.985347284	1.157562354
59° 45′ 30″	0.86390877	0.50364833	1.715301555	0.582987870	1.985512384	1.157529635
59° 45′ 40″	0.86393318	0.50360645	1.715492697	0.582922913	1.985677515	1.157496921
59° 45′ 50″	0.86395760	0.50356456	1.715683871	0.582857959	1.985842679	1.157464211
59° 46′ 00″	0.86398201	0.50352268	1.715875077	0.582793010	1.986007875	1.157431506
59° 46′ 10″	0.86400642	0.50348079	1.716066314	0.582728063	1.986173103	1.157398806
59° 46′ 20″	0.86403083	0.50343890	1.716257583	0.582663121	1.986338363	1.157366110
59° 46′ 30″	0.86405524	0.50339701	1.716448884	0.582598182	1.986503655	1.157333419
59° 46′ 40″	0.86407964	0.50335512	1.716640217	0.582533247	1.986668980	1.157300732
59° 46′ 50″	0.86410404	0.50331323	1.716831582	0.582468316	1.986834337	1.157268050
59° 47′ 00″	0.86412844	0.50327133	1.717022979	0.582403388	1.986999726	1.157235372
59° 47′ 10″	0.86415284	0.50322944	1.717214407	0.582338464	1.987165147	1.157202699
59° 47′ 20″	0.86417724	0.50318754	1.717405868	0.582273543	1.987330600	1.157170030
59° 47′ 30″	0.86420163	0.50314564	1.717597360	0.582208627	1.987496086	1.157137366
59° 47′ 40″	0.86422602	0.50310375	1.717788884	0.582143713	1.987661604	1.157104707
59° 47′ 50″	0.86425041	0.50306185	1.717980440	0.582078804	1.987827154	1.157072052
59° 48′ 00″	0.86427480	0.50301995	1.718172028	0.582013898	1.987992736	1.157039402
59° 48′ 10″	0.86429919	0.50297804	1.718363648	0.581948996	1.988158351	1.157006756
59° 48′ 20″	0.86432357	0.50293614	1.718555300	0.581884098	1.988323998	1.156974115
59° 48′ 30″	0.86434795	0.50289424	1.718746984	0.581819203	1.988489677	1.156941479
59° 48′ 40″	0.86437233	0.50285233	1.718938700	0.581754312	1.988655388	1.156908847
59° 48′ 50″	0.86439671	0.50281043	1.719130447	0.581689424	1.988821132	1.156876219
59° 49′ 00″	0.86442109	0.50276852	1.719322227	0.581624540	1.988986908	1.156843596
59° 49′ 10″	0.86444546	0.50272661	1.719514038	0.581559660	1.989152716	1.156810978
59° 49′ 20″	0.86446983	0.50268470	1.719705882	0.581494784	1.989318557	1.156778364
59° 49′ 30″	0.86449420	0.50264279	1.719897758	0.581429911	1.989484430	1.156745755
59° 49′ 40″	0.86451857	0.50260088	1.720089665	0.581365042	1.989650335	1.156713150
59° 49′ 50″	0.86454294	0.50255896	1.720281605	0.581300176	1.989816273	1.156680550
59° 50′ 00″	0.86456730	0.50251705	1.720473576	0.581235314	1.989982243	1.156647954
59° 50′ 10″	0.86459166	0.50247513	1.720665580	0.581170456	1.990148245	1.156615363
59° 50′ 20″	0.86461602	0.50243321	1.720857616	0.581105602	1.990314280	1.156582777
59° 50′ 30″	0.86464038	0.50239130	1.721049684	0.581040751	1.990480347	1.156550195
59° 50′ 40″	0.86466474	0.50234938	1.721241783	0.580975903	1.990646447	1.156517618
59° 50′ 50″	0.86468909	0.50230746	1.721433915	0.580911060	1.990812579	1.156485045
59° 51′ 00″	0.86471344	0.50226553	1.721626079	0.580846220	1.990978743	1.156452477
59° 51′ 10″	0.86473779	0.50222361	1.721818275	0.580781384	1.991144940	1.156419913
59° 51′ 20″	0.86476214	0.50218169	1.722010503	0.580716551	1.991311169	1.156387354
59° 51′ 30″	0.86478648	0.50213976	1.722202763	0.580651722	1.991477431	1.156354799
59° 51′ 40″	0.86481083	0.50209783	1.722395056	0.580586897	1.991643725	1.156322249
59° 51′ 50″	0.86483517	0.50205591	1.722587380	0.580522075	1.991810052	1.156289704
	0.00 1033 17	0.00200071	22301300	2.300322073	1.771010032	

449 59° 51′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
59° 52′ 00″	0.86485951	0.50201398	1.722779737	0.580457257	1.991976411	1.156257163
59° 52′ 10″	0.86488384	0.50197205	1.722972125	0.580392442	1.992142802	1.156224627
59° 52′ 20″	0.86490818	0.50193012	1.723164546	0.580327632	1.992309226	1.156192095
59° 52′ 30″	0.86493251	0.50188818	1.723356999	0.580262825	1.992475683	1.156159567
59° 52′ 40″	0.86495684	0.50184625	1.723549484	0.580198021	1.992642172	1.156127045
59° 52′ 50″	0.86498117	0.50180431	1.723742002	0.580133221	1.992808693	1.156094527
59° 53′ 00″	0.86500550	0.50176238	1.723934551	0.580068425	1.992975247	1.156062013
59° 53′ 10″	0.86502983	0.50172044	1.724127133	0.580003633	1.993141834	1.156029504
59° 53′ 20″	0.86505415	0.50167850	1.724319747	0.579938844	1.993308453	1.155996999
59° 53′ 30″	0.86507847	0.50163656	1.724512393	0.579874058	1.993475105	1.155964499
59° 53′ 40″	0.86510279	0.50159462	1.724705071	0.579809277	1.993641789	1.155932004
59° 53′ 50″	0.86512711	0.50155268	1.724897782	0.579744499	1.993808506	1.155899513
59° 54′ 00″	0.86515142	0.50151074	1.725090524	0.579679725	1.993975255	1.155867027
59° 54′ 10″	0.86517573	0.50146879	1.725283299	0.579614954	1.994142037	1.155834545
59° 54′ 20″	0.86520004	0.50142685	1.725476107	0.579550187	1.994308851	1.155802067
59° 54′ 30″	0.86522435	0.50138490	1.725668946	0.579485423	1.994475698	1.155769595
59° 54′ 40″	0.86524866	0.50134295	1.725861818	0.579420664	1.994642578	1.155737126
59° 54′ 50″	0.86527296	0.50130100	1.726054722	0.579355908	1.994809491	1.155704663
59° 55′ 00″	0.86529727	0.50125905	1.726247658	0.579291155	1.994976435	1.155672204
59° 55′ 10″	0.86532157	0.50121710	1.726440627	0.579226406	1.995143413	1.155639749
59° 55′ 20″	0.86534587	0.50117515	1.726633628	0.579161661	1.995310423	1.155607299
59° 55′ 30″	0.86537016	0.50113320	1.726826661	0.579096919	1.995477466	1.155574854
59° 55′ 40″	0.86539446	0.50109124	1.727019727	0.579032182	1.995644542	1.155542413
59° 55′ 50″	0.86541875	0.50104928	1.727212825	0.578967447	1.995811650	1.155509976
59° 56′ 00″	0.86544304	0.50100733	1.727405955	0.578902717	1.995978791	1.155477544
59° 56′ 10″	0.86546733	0.50096537	1.727599118	0.578837990	1.996145964	1.155445117
59° 56′ 20″	0.86549162	0.50092341	1.727792313	0.578773266	1.996313171	1.155412694
59° 56′ 30″	0.86551590	0.50088145	1.727985540	0.578708546	1.996480410	1.155380276
59° 56′ 40″	0.86554018	0.50083949	1.728178800	0.578643830	1.996647681	1.155347862
59° 56′ 50″	0.86556446	0.50079752	1.728372092	0.578579118	1.996814986	1.155315453
59° 57′ 00″	0.86558874	0.50075556	1.728565416	0.578514409	1.996982323	1.155283048
59° 57′ 10″	0.86561302	0.50071359	1.728758773	0.578449704	1.997149693	1.155250648
59° 57′ 20″	0.86563729	0.50067163	1.728952163	0.578385002	1.997317096	1.155218252
59° 57′ 30″	0.86566156	0.50062966	1.729145584	0.578320304	1.997484531	1.155185861
59° 57′ 40″	0.86568583	0.50058769	1.729339039	0.578255610	1.997651999	1.155153475
59° 57′ 50″	0.86571010	0.50054572	1.729532525	0.578190919	1.997819500	1.155121093
59° 58′ 00″	0.86573437	0.50050375	1.729726044	0.578126232	1.997987034	1.155088715
59° 58′ 10″	0.86575863	0.50046178	1.729919596	0.578061548	1.998154601	1.155056342
59° 58′ 20″	0.86578290	0.50041980	1.730113180	0.577996868	1.998322200	1.155023974
59° 58′ 30″	0.86580716	0.50037783	1.730306796	0.577932192	1.998489832	1.154991610
59° 58′ 40″	0.86583141	0.50033585	1.730500445	0.577867520	1.998657497	1.154959250
59° 58′ 50″	0.86585567	0.50029387	1.730694127	0.577802851	1.998825195	1.154926896
59° 59′ 00″	0.86587992	0.50025190	1.730887841	0.577738185	1.998992926	1.154894545
59° 59′ 10″	0.86590417	0.50020992	1.731081587	0.577673524	1.999160689	1.154862199
59° 59′ 20″	0.86592842	0.50016793	1.731275366	0.577608865	1.999328486	1.154829858
59° 59′ 30″	0.86595267	0.50012595	1.731469178	0.577544211	1.999496315	1.154797521
59° 59′ 40″	0.86597692	0.50008397	1.731663022	0.577479560	1.999664177	1.154765189
59° 59′ 50″	0.86600116	0.50004199	1.731856898	0.577414913	1.999832072	1.154732862
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450 **59° 59′ 50″**

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
60° 00′ 00″	0.86602540	0.50000000	1.732050808	0.577350269	2.000000000	1.154700538
60° 00′ 10″	0.86604964	0.49995801	1.732244749	0.577285629	2.000167961	1.154668220
60° 00′ 20″	0.86607388	0.49991603	1.732438724	0.577220993	2.000335955	1.154635906
60° 00′ 30″	0.86609812	0.49987404	1.732632731	0.577156360	2.000503981	1.154603596
60° 00′ 40″	0.86612235	0.49983205	1.732826770	0.577091731	2.000672041	1.154571291
60° 00′ 50″	0.86614658	0.49979005	1.733020842	0.577027105	2.000840133	1.154538990
60° 01′ 00″	0.86617081	0.49974806	1.733214947	0.576962483	2.001008259	1.154506694
60° 01′ 10″	0.86619504	0.49970607	1.733409084	0.576897865	2.001176417	1.154474403
60° 01′ 20″	0.86621926	0.49966407	1.733603254	0.576833250	2.001344609	1.154442116
60° 01′ 30″	0.86624349	0.49962208	1.733797457	0.576768639	2.001512833	1.154409833
60° 01′ 40″	0.86626771	0.49958008	1.733991692	0.576704032	2.001681091	1.154377555
60° 01′ 50″	0.86629193	0.49953808	1.734185960	0.576639428	2.001849381	1.154345282
60° 02′ 00″	0.86631615	0.49949608	1.734380261	0.576574828	2.002017704	1.154313013
60° 02′ 10″	0.86634036	0.49945408	1.734574594	0.576510231	2.002186061	1.154280749
60° 02′ 20″	0.86636457	0.49941208	1.734768960	0.576445638	2.002354450	1.154248489
60° 02′ 30″	0.86638879	0.49937008	1.734963359	0.576381049	2.002522873	1.154216233
60° 02′ 40″	0.86641299	0.49932807	1.735157790	0.576316463	2.002691328	1.154183982
60° 02′ 50″	0.86643720	0.49928607	1.735352254	0.576251881	2.002859817	1.154151736
60° 03′ 00″	0.86646141	0.49924406	1.735546751	0.576187302	2.003028339	1.154119494
60° 03′ 10″	0.86648561	0.49920205	1.735741281	0.576122727	2.003196893	1.154087257
60° 03′ 20″	0.86650981	0.49916004	1.735935843	0.576058156	2.003365481	1.154055024
60° 03′ 30″	0.86653401	0.49911803	1.736130438	0.575993588	2.003534102	1.154022796
60° 03′ 40″	0.86655821	0.49907602	1.736325066	0.575929024	2.003702756	1.153990572
60° 03′ 50″	0.86658240	0.49903401	1.736519726	0.575864463	2.003871443	1.153958353
60° 04′ 00″	0.86660659	0.49899200	1.736714420	0.575799906	2.004040163	1.153926138
60° 04′ 10″	0.86663078	0.49894998	1.736909146	0.575735353	2.004208917	1.153893928
60° 04′ 20″	0.86665497	0.49890796	1.737103905	0.575670803	2.004377703	1.153861722
60° 04′ 30″	0.86667916	0.49886595	1.737298697	0.575606257	2.004546523	1.153829521
60° 04′ 40″	0.86670334	0.49882393	1.737493521	0.575541714	2.004715375	1.153797324
60° 04′ 50″	0.86672753	0.49878191	1.737688379	0.575477176	2.004884261	1.153765132
60° 05′ 00″	0.86675171	0.49873989	1.737883269	0.575412640	2.005053180	1.153732944
60° 05′ 10″	0.86677589	0.49869787	1.738078192	0.575348108	2.005222133	1.153700761
60° 05′ 20″	0.86680006	0.49865584	1.738273148	0.575283580	2.005391118	1.153668582
60° 05′ 30″	0.86682424	0.49861382	1.738468137	0.575219056	2.005560137	1.153636408
60° 05′ 40″	0.86684841	0.49857179	1.738663158	0.575154535	2.005729189	1.153604238
60° 05′ 50″	0.86687258	0.49852977	1.738858213	0.575090017	2.005898274	1.153572073
60° 06′ 00″	0.86689675	0.49848774	1.739053300	0.575025504	2.006067392	1.153539913
60° 06′ 10″	0.86692092	0.49844571	1.739248421	0.574960994	2.006236543	1.153507756
60° 06′ 20″	0.86694508	0.49840368	1.739443574	0.574896487	2.006405728	1.153475605
60° 06′ 30″	0.86696924	0.49836165	1.739638760	0.574831984	2.006574946	1.153443458
60° 06′ 40″	0.86699340	0.49831962	1.739833979	0.574767485	2.006744198	1.153411315
60° 06′ 50″	0.86701756	0.49827758	1.740029231	0.574702989	2.006913482	1.153379177
60° 07′ 00″	0.86704172	0.49823555	1.740224516	0.574638497	2.007082800	1.153347043
60° 07′ 10″	0.86706587	0.49819351	1.740419834	0.574574008	2.007252151	1.153314914
60° 07′ 20″	0.86709002	0.49815148	1.740615185	0.574509523	2.007421536	1.153282789
60° 07′ 30″	0.86711417	0.49810944	1.740810569	0.574445042	2.007590953	1.153250669
60° 07′ 40″	0.86713832	0.49806740	1.741005986	0.574380564	2.007760404	1.153218554
60° 07′ 50″	0.86716247	0.49802536	1.741201435	0.574316090	2.007929889	1.153186442

451 60° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
60° 08′ 00″	0.86718661	0.49798332	1.741396918	0.574251619	2.008099407	1.153154336
60° 08′ 10″	0.86721075	0.49794127	1.741592434	0.574187152	2.008268958	1.153134336
60° 08′ 20″	0.86723489	0.49789923	1.741787983	0.574122689	2.008438542	1.153090136
60° 08′ 30″	0.86725903	0.49785718	1.741787783	0.574058229	2.008608160	1.153058043
60° 08′ 40″	0.86728317	0.49781514	1.742179180	0.573993773	2.008777811	1.153035013
60° 08′ 50″	0.86730730	0.49777309	1.742374828	0.573773773	2.008947496	1.152993870
60° 09′ 00″	0.86733143	0.49773104	1.742570509	0.573864871	2.009117214	1.152961790
60° 09′ 10″	0.86735556	0.49768899	1.742766223	0.573800425	2.009286965	1.152929715
60° 09′ 20″	0.86737969	0.49764694	1.742961970	0.573735983	2.009456750	1.152897645
60° 09′ 30″	0.86740381	0.49760489	1.743157750	0.573671545	2.009626568	1.152865578
60° 09′ 40″	0.86742794	0.49756283	1.743353564	0.573607110	2.009796419	1.152833517
60° 09′ 50″	0.86745206	0.49752078	1.743549410	0.573542679	2.009966304	1.152801459
60° 10′ 00″	0.86747618	0.49747872	1.743745290	0.573478252	2.010136223	1.152769407
60° 10′ 10″	0.86750030	0.49743667	1.743941202	0.573413828	2.010306175	1.152737359
60° 10′ 20″	0.86752441	0.49739461	1.744137148	0.573349407	2.010476160	1.152705315
60° 10′ 30″	0.86754852	0.49735255	1.744333127	0.573284990	2.010646179	1.152673276
60° 10′ 40″	0.86757264	0.49731049	1.744529139	0.573220577	2.010816232	1.152641241
60° 10′ 50″	0.86759675	0.49726843	1.744725184	0.573156167	2.010986317	1.152609211
60° 11′ 00″	0.86762085	0.49722636	1.744921263	0.573091761	2.011156437	1.152577185
60° 11′ 10″	0.86764496	0.49718430	1.745117374	0.573027359	2.011326590	1.152545164
60° 11′ 20″	0.86766906	0.49714223	1.745313519	0.572962960	2.011496776	1.152513147
60° 11′ 30″	0.86769316	0.49710017	1.745509697	0.572898565	2.011666996	1.152481134
60° 11′ 40″	0.86771726	0.49705810	1.745705908	0.572834173	2.011837250	1.152449127
60° 11′ 50″	0.86774136	0.49701603	1.745902153	0.572769785	2.012007537	1.152417123
60° 12′ 00″	0.86776545	0.49697396	1.746098431	0.572705400	2.012177857	1.152385124
60° 12′ 10″	0.86778955	0.49693189	1.746294741	0.572641019	2.012348211	1.152353130
60° 12′ 20″	0.86781364	0.49688982	1.746491086	0.572576641	2.012518599	1.152321140
60° 12′ 30″	0.86783773	0.49684774	1.746687463	0.572512267	2.012689020	1.152289155
60° 12′ 40″	0.86786181	0.49680567	1.746883874	0.572447897	2.012859475	1.152257174
60° 12′ 50″	0.86788590	0.49676359	1.747080317	0.572383530	2.013029964	1.152225198
60° 13′ 00″	0.86790998	0.49672152	1.747276795	0.572319167	2.013200486	1.152193226
60° 13′ 10″	0.86793406	0.49667944	1.747473305	0.572254808	2.013371042	1.152161258
60° 13′ 20″	0.86795814	0.49663736	1.747669849	0.572190452	2.013541631	1.152129295
60° 13′ 30″	0.86798222	0.49659528	1.747866426	0.572126099	2.013712254	1.152097337
60° 13′ 40″	0.86800629	0.49655320	1.748063036	0.572061750	2.013882911	1.152065383
60° 13′ 50″	0.86803036	0.49651112	1.748259680	0.571997405	2.014053601	1.152033433
60° 14′ 00″	0.86805443	0.49646903	1.748456357	0.571933063	2.014224325	1.152001488
60° 14′ 10″	0.86807850	0.49642695	1.748653068	0.571868725	2.014395083	1.151969548
60° 14′ 20″	0.86810257	0.49638486	1.748849811	0.571804390	2.014565875	1.151937611
60° 14′ 30″	0.86812663	0.49634277	1.749046589	0.571740059	2.014736700	1.151905680
60° 14′ 40″	0.86815070	0.49630068	1.749243399	0.571675732	2.014907558	1.151873753
60° 14′ 50″	0.86817476	0.49625859	1.749440243	0.571611408	2.015078451	1.151841830
60° 15′ 00″	0.86819881	0.49621650	1.749637120	0.571547087	2.015249377	1.151809912
60° 15′ 10″	0.86822287	0.49617441	1.749834031	0.571482771	2.015420337	1.151777998
60° 15′ 20″	0.86824692	0.49613232	1.750030975	0.571418457	2.015591331	1.151746089
60° 15′ 30″	0.86827098	0.49609022	1.750227953	0.571354148	2.015762358	1.151714184
60° 15′ 40″	0.86829503	0.49604813	1.750424963	0.571289842	2.015933420	1.151682284
60° 15′ 50″	0.86831908	0.49600603	1.750622008	0.571225539	2.016104515	1.151650388

452 60° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
60° 16′ 00″	0.86834312	0.49596393	1.750819086	0.571161240	2.016275644	1.151618497
60° 16′ 10″	0.86836717	0.49592183	1.751016197	0.571096945	2.016446806	1.151586610
60° 16′ 20″	0.86839121	0.49587973	1.751213342	0.571032653	2.016618003	1.151554728
60° 16′ 30″	0.86841525	0.49583763	1.751410520	0.570968364	2.016789233	1.151522850
60° 16′ 40″	0.86843928	0.49579553	1.751607732	0.570904080	2.016960497	1.151490976
60° 16′ 50″	0.86846332	0.49575343	1.751804977	0.570839798	2.017131795	1.151459107
60° 17′ 00″	0.86848735	0.49571132	1.752002256	0.570775521	2.017303127	1.151427243
60° 17′ 10″	0.86851139	0.49566922	1.752199568	0.570711247	2.017474492	1.151395383
60° 17′ 20″	0.86853542	0.49562711	1.752396914	0.570646976	2.017645892	1.151363527
60° 17′ 30″	0.86855944	0.49558500	1.752594293	0.570582709	2.017817325	1.151331676
60° 17′ 40″	0.86858347	0.49554289	1.752791706	0.570518446	2.017988792	1.151299829
60° 17′ 50″	0.86860749	0.49550078	1.752989152	0.570454186	2.018160293	1.151267987
60° 18′ 00″	0.86863151	0.49545867	1.753186632	0.570389930	2.018331828	1.151236149
60° 18′ 10″	0.86865553	0.49541656	1.753384146	0.570325677	2.018503397	1.151204316
60° 18′ 20″	0.86867955	0.49537444	1.753581693	0.570261428	2.018675000	1.151172487
60° 18′ 30″	0.86870357	0.49533233	1.753779274	0.570197182	2.018846636	1.151140663
60° 18′ 40″	0.86872758	0.49529021	1.753976888	0.570132940	2.019018307	1.151108843
60° 18′ 50″	0.86875159	0.49524809	1.754174536	0.570068701	2.019190012	1.151077028
60° 19′ 00″	0.86877560	0.49520597	1.754372218	0.570004466	2.019361750	1.151045217
60° 19′ 10″	0.86879961	0.49516385	1.754569933	0.569940235	2.019533523	1.151013411
60° 19′ 20″	0.86882361	0.49512173	1.754767682	0.569876007	2.019705329	1.150981609
60° 19′ 30″	0.86884762	0.49507961	1.754965464	0.569811783	2.019877170	1.150949811
60° 19′ 40″	0.86887162	0.49503749	1.755163280	0.569747562	2.020049044	1.150918018
60° 19′ 50″	0.86889562	0.49499536	1.755361130	0.569683345	2.020220953	1.150886230
60° 20′ 00″	0.86891961	0.49495324	1.755559014	0.569619131	2.020392895	1.150854445
60° 20′ 10″	0.86894361	0.49491111	1.755756931	0.569554921	2.020564872	1.150822666
60° 20′ 20″	0.86896760	0.49486898	1.755954882	0.569490714	2.020736882	1.150790891
60° 20′ 30″	0.86899159	0.49482685	1.756152866	0.569426511	2.020908927	1.150759120
60° 20′ 40″	0.86901558	0.49478472	1.756350885	0.569362312	2.021081005	1.150727353
60° 20′ 50″	0.86903957	0.49474259	1.756548937	0.569298116	2.021253118	1.150695592
60° 21′ 00″	0.86906355	0.49470046	1.756747022	0.569233923	2.021425265	1.150663834
60° 21′ 10″	0.86908754	0.49465832	1.756945142	0.569169734	2.021597446	1.150632081
60° 21′ 20″	0.86911152	0.49461619	1.757143295	0.569105549	2.021769660	1.150600333
60° 21′ 30″	0.86913549	0.49457405	1.757341482	0.569041367	2.021941909	1.150568589
60° 21′ 40″	0.86915947	0.49453191	1.757539703	0.568977189	2.022114193	1.150536849
60° 21′ 50″	0.86918345	0.49448977	1.757737958	0.568913014	2.022286510	1.150505114
60° 22′ 00″	0.86920742	0.49444763	1.757936246	0.568848843	2.022458861	1.150473384
60° 22′ 10″	0.86923139	0.49440549	1.758134568	0.568784676	2.022631247	1.150441657
60° 22′ 20″	0.86925536	0.49436335	1.758332924	0.568720511	2.022803666	1.150409936
60° 22′ 30″	0.86927932	0.49432121	1.758531314	0.568656351	2.022976120	1.150378218
60° 22′ 40″	0.86930329	0.49427906	1.758729738	0.568592194	2.023148608	1.150346506
60° 22′ 50″	0.86932725	0.49423692	1.758928195	0.568528040	2.023321130	1.150314797
60° 23′ 00″	0.86935121	0.49419477	1.759126686	0.568463890	2.023493686	1.150283093
60° 23′ 10″	0.86937517	0.49415262	1.759325212	0.568399744	2.023666277	1.150251394
60° 23′ 20″	0.86939913	0.49411047	1.759523771	0.568335601	2.023838902	1.150219699
60° 23′ 30″	0.86942308	0.49406832	1.759722364	0.568271462	2.024011560	1.150188008
60° 23′ 40″	0.86944703	0.49402617	1.759920990	0.568207326	2.024184254	1.150156322
60° 23′ 50″	0.86947098	0.49398402	1.760119651	0.568143194	2.024356981	1.150124640

453 60° 23′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
60° 24′ 00″	0.86949493	0.49394187	1.760318346	0.568079065	2.024529743	1.150092963
60° 24′ 10″	0.86951888	0.49389971	1.760517074	0.568014940	2.024702538	1.150061290
60° 24′ 20″	0.86954282	0.49385756	1.760715837	0.567950818	2.024875369	1.150029622
60° 24′ 30″	0.86956676	0.49381540	1.760914633	0.567886700	2.025048233	1.149997958
60° 24′ 40″	0.86959070	0.49377324	1.761113464	0.567822585	2.025221132	1.149966299
60° 24′ 50″	0.86961464	0.49373108	1.761312328	0.567758474	2.025394064	1.149934644
60° 25′ 00″	0.86963857	0.49368892	1.761511226	0.567694367	2.025567032	1.149902993
60° 25′ 10″	0.86966251	0.49364676	1.761710158	0.567630263	2.025740033	1.149871347
60° 25′ 20″	0.86968644	0.49360460	1.761909125	0.567566162	2.025913069	1.149839706
60° 25′ 30″	0.86971037	0.49356243	1.762108125	0.567502065	2.026086139	1.149808068
60° 25′ 40″	0.86973430	0.49352027	1.762307159	0.567437972	2.026259244	1.149776436
60° 25′ 50″	0.86975822	0.49347810	1.762506227	0.567373882	2.026432383	1.149744807
60° 26′ 00″	0.86978215	0.49343593	1.762705330	0.567309795	2.026605556	1.149713183
60° 26′ 10″	0.86980607	0.49339376	1.762904466	0.567245713	2.026778763	1.149681564
60° 26′ 20″	0.86982999	0.49335159	1.763103636	0.567181633	2.026952005	1.149649949
60° 26′ 30″	0.86985390	0.49330942	1.763302841	0.567117557	2.027125282	1.149618338
60° 26′ 40″	0.86987782	0.49326725	1.763502079	0.567053485	2.027298592	1.149586732
60° 26′ 50″	0.86990173	0.49322508	1.763701352	0.566989416	2.027471938	1.149555131
60° 27′ 00″	0.86992564	0.49318290	1.763900658	0.566925351	2.027645317	1.149523533
60° 27′ 10″	0.86994955	0.49314073	1.764099999	0.566861289	2.027818731	1.149491941
60° 27′ 20″	0.86997346	0.49309855	1.764299374	0.566797231	2.027992180	1.149460352
60° 27′ 30″	0.86999737	0.49305637	1.764498783	0.566733176	2.028165662	1.149428768
60° 27′ 40″	0.87002127	0.49301419	1.764698226	0.566669125	2.028339180	1.149397189
60° 27′ 50″	0.87004517	0.49297201	1.764897703	0.566605078	2.028512731	1.149365614
60° 28′ 00″	0.87006907	0.49292983	1.765097214	0.566541034	2.028686318	1.149334043
60° 28′ 10″	0.87009297	0.49288765	1.765296760	0.566476993	2.028859938	1.149302477
60° 28′ 20″	0.87011686	0.49284546	1.765496339	0.566412956	2.029033594	1.149270915
60° 28′ 30″	0.87014075	0.49280328	1.765695953	0.566348922	2.029207283	1.149239358
60° 28′ 40″	0.87016464	0.49276109	1.765895601	0.566284892	2.029381008	1.149207805
60° 28′ 50″	0.87018853	0.49271890	1.766095283	0.566220866	2.029554766	1.149176257
60° 29′ 00″	0.87021242	0.49267672	1.766294999	0.566156843	2.029728559	1.149144713
60° 29′ 10″	0.87023630	0.49263453	1.766494750	0.566092823	2.029902387	1.149113173
60° 29′ 20″	0.87026019	0.49259233	1.766694535	0.566028807	2.030076250	1.149081638
60° 29′ 30″	0.87028407	0.49255014	1.766894354	0.565964795	2.030250147	1.149050107
60° 29′ 40″	0.87030795	0.49250795	1.767094207	0.565900786	2.030424078	1.149018581
60° 29′ 50″	0.87033182	0.49246576	1.767294095	0.565836780	2.030598044	1.148987059
60° 30′ 00″	0.87035570	0.49242356	1.767494016	0.565772778	2.030772045	1.148955542
60° 30′ 10″	0.87037957	0.49238136	1.767693972	0.565708780	2.030946080	1.148924029
60° 30′ 20″	0.87040344	0.49233917	1.767893963	0.565644785	2.031120150	1.148892520
60° 30′ 30″	0.87042731	0.49229697	1.768093987	0.565580793	2.031294254	1.148861016
60° 30′ 40″	0.87045117	0.49225477	1.768294046	0.565516805	2.031468393	1.148829516
60° 30′ 50″	0.87047504	0.49221257	1.768494139	0.565452821	2.031642567	1.148798021
60° 31′ 00″	0.87049890	0.49217036	1.768694267	0.565388840	2.031816775	1.148766530
60° 31′ 10″	0.87052276	0.49212816	1.768894428	0.565324863	2.031991018	1.148735044
60° 31′ 20″	0.87054662	0.49208595	1.769094624	0.565260889	2.032165296	1.148703562
60° 31′ 30″	0.87057047	0.49204375	1.769294855	0.565196919	2.032339608	1.148672084
60° 31′ 40″	0.87059433	0.49200154	1.769495120	0.565132952	2.032513955	1.148640611
60° 31′ 50″	0.87061818	0.49195933	1.769695419	0.565068988	2.032688337	1.148609142
	1 201010					

454 60° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
60° 32′ 00″	0.87064203	0.49191712	1.769895753	0.565005028	2.032862754	1.148577678
60° 32′ 10″	0.87066588	0.49187491	1.770096120	0.564941072	2.033037205	1.148546218
60° 32′ 20″	0.87068972	0.49183270	1.770296523	0.564877119	2.033211691	1.148514763
60° 32′ 30″	0.87071357	0.49179049	1.770496960	0.564813170	2.033386211	1.148483312
60° 32′ 40″	0.87073741	0.49174828	1.770697431	0.564749224	2.033560767	1.148451865
60° 32′ 50″	0.87076125	0.49170606	1.770897936	0.564685282	2.033735357	1.148420423
60° 33′ 00″	0.87078509	0.49166384	1.771098476	0.564621343	2.033909982	1.148388985
60° 33′ 10″	0.87080892	0.49162163	1.771299051	0.564557407	2.034084641	1.148357552
60° 33′ 20″	0.87083275	0.49157941	1.771499660	0.564493476	2.034259336	1.148326123
60° 33′ 30″	0.87085659	0.49153719	1.771700303	0.564429547	2.034434065	1.148294698
60° 33′ 40″	0.87088041	0.49149497	1.771900981	0.564365622	2.034608829	1.148263278
60° 33′ 50″	0.87090424	0.49145275	1.772101693	0.564301701	2.034783628	1.148231862
60° 34′ 00″	0.87092807	0.49141052	1.772302440	0.564237783	2.034958461	1.148200451
60° 34′ 10″	0.87095189	0.49136830	1.772503221	0.564173869	2.035133330	1.148169044
60° 34′ 20″	0.87097571	0.49132607	1.772704037	0.564109958	2.035308233	1.148137642
60° 34′ 30″	0.87099953	0.49128385	1.772904887	0.564046051	2.035483171	1.148106244
60° 34′ 40″	0.87102335	0.49124162	1.773105772	0.563982147	2.035658144	1.148074850
60° 34′ 50″	0.87104716	0.49119939	1.773306692	0.563918246	2.035833152	1.148043461
60° 35′ 00″	0.87107098	0.49115716	1.773507646	0.563854350	2.036008195	1.148012076
60° 35′ 10″	0.87109479	0.49111493	1.773708634	0.563790456	2.036183272	1.147980696
60° 35′ 20″	0.87111860	0.49107269	1.773909657	0.563726566	2.036358385	1.147949320
60° 35′ 30″	0.87114240	0.49103046	1.774110715	0.563662680	2.036533533	1.147917949
60° 35′ 40″	0.87116621	0.49098823	1.774311807	0.563598797	2.036708715	1.147886581
60° 35′ 50″	0.87119001	0.49094599	1.774512934	0.563534918	2.036883932	1.147855219
60° 36′ 00″	0.87121381	0.49090375	1.774714096	0.563471042	2.037059184	1.147823860
60° 36′ 10″	0.87123761	0.49086152	1.774915292	0.563407169	2.037234472	1.147792507
60° 36′ 20″	0.87126141	0.49081928	1.775116522	0.563343300	2.037409794	1.147761157
60° 36′ 30″ 60° 36′ 40″	0.87128520	0.49077704	1.775317788	0.563279435	2.037585151	1.147729812
60° 36′ 50″	0.87130899 0.87133278	0.49073479 0.49069255	1.775519088 1.775720422	0.563215573 0.563151714	2.037760543 2.037935970	1.147698471 1.147667135
60° 37′ 00″	0.87135657	0.49065031	1.775921792	0.563087859	2.03/733770	1.147667133
60° 37′ 10″	0.87138036	0.49060806	1.776123196	0.563024008	2.038111432	1.147633603
60° 37′ 20″	0.87138036	0.49056582	1.776324634	0.562960160	2.038462462	1.147573153
60° 37′ 30″	0.87142793	0.47050362	1.776526108	0.562896315	2.038638029	1.147541834
60° 37′ 40″	0.87145171	0.49048132	1.776727616	0.562832474	2.038813631	1.147510520
60° 37′ 50″	0.87147548	0.49043907	1.776929159	0.562768637	2.038989268	1.147479210
60° 38′ 00″	0.87149926	0.49039682	1.777130736	0.562704802	2.039164940	1.147447905
60° 38′ 10″	0.87152303	0.49035457	1.777332349	0.562640972	2.039340648	1.147416604
60° 38′ 20″	0.87154681	0.49031231	1.777533996	0.562577145	2.039516390	1.147385307
60° 38′ 30″	0.87157058	0.49027006	1.777735677	0.562513321	2.039692168	1.147354015
60° 38′ 40″	0.87159434	0.49022780	1.777937394	0.562449501	2.039867980	1.147322728
60° 38′ 50″	0.87161811	0.49018555	1.778139145	0.562385684	2.040043828	1.147291444
60° 39′ 00″	0.87164187	0.49014329	1.778340931	0.562321871	2.040219711	1.147260165
60° 39′ 10″	0.87166564	0.49010103	1.778542752	0.562258061	2.040395629	1.147228891
60° 39′ 20″	0.87168940	0.49005877	1.778744608	0.562194255	2.040571582	1.147197621
60° 39′ 30″	0.87171315	0.49001651	1.778946499	0.562130452	2.040747570	1.147166355
60° 39′ 40″	0.87173691	0.48997425	1.779148424	0.562066653	2.040923594	1.147135093
60° 39′ 50″	0.87176066	0.48993198	1.779350384	0.562002857	2.041099652	1.147103836
	1					

455 60° 39′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
60° 40′ 00″	0.87178441	0.48988972	1.779552379	0.561939065	2.041275746	1.147072584
60° 40′ 10″	0.87180816	0.48984745	1.779754409	0.561875276	2.041451875	1.147041336
60° 40′ 20″	0.87183191	0.48980519	1.779956474	0.561811491	2.041628039	1.147010092
60° 40′ 30″	0.87185566	0.48976292	1.780158574	0.561747709	2.041804238	1.146978853
60° 40′ 40″	0.87187940	0.48972065	1.780360708	0.561683930	2.041980473	1.146947618
60° 40′ 50″	0.87190314	0.48967838	1.780562878	0.561620155	2.042156743	1.146916387
60° 41′ 00″	0.87192688	0.48963611	1.780765082	0.561556384	2.042333048	1.146885161
60° 41′ 10″	0.87195062	0.48959383	1.780967321	0.561492616	2.042509388	1.146853939
60° 41′ 20″	0.87197435	0.48955156	1.781169596	0.561428851	2.042685763	1.146822722
60° 41′ 30″	0.87199809	0.48950928	1.781371905	0.561365090	2.042862174	1.146791509
60° 41′ 40″	0.87202182	0.48946701	1.781574249	0.561301333	2.043038620	1.146760300
60° 41′ 50″	0.87204555	0.48942473	1.781776628	0.561237579	2.043215102	1.146729096
60° 42′ 00″	0.87206927	0.48938245	1.781979042	0.561173828	2.043391618	1.146697896
60° 42′ 10″	0.87209300	0.48934017	1.782181491	0.561110081	2.043568170	1.146666701
60° 42′ 20″	0.87211672	0.48929789	1.782383975	0.561046337	2.043744757	1.146635510
60° 42′ 30″	0.87214044	0.48925561	1.782586494	0.560982597	2.043921380	1.146604323
60° 42′ 40″	0.87216416	0.48921333	1.782789048	0.560918860	2.044098038	1.146573141
60° 42′ 50″	0.87218788	0.48917104	1.782991637	0.560855127	2.044274731	1.146541963
60° 43′ 00″	0.87221159	0.48912876	1.783194261	0.560791397	2.044451460	1.146510790
60° 43′ 10″	0.87223530	0.48908647	1.783396920	0.560727670	2.044628224	1.146479620
60° 43′ 20″	0.87225901	0.48904418	1.783599614	0.560663947	2.044805023	1.146448456
60° 43′ 30″	0.87228272	0.48900189	1.783802343	0.560600228	2.044981858	1.146417296
60° 43′ 40″	0.87230643	0.48895960	1.784005107	0.560536512	2.045158728	1.146386140
60° 43′ 50″	0.87233013	0.48891731	1.784207907	0.560472799	2.045335634	1.146354988
60° 44′ 00″	0.87235384	0.48887502	1.784410741	0.560409090	2.045512575	1.146323841
60° 44′ 10″	0.87237754	0.48883273	1.784613610	0.560345385	2.045689551	1.146292698
60° 44′ 20″	0.87240123	0.48879043	1.784816515	0.560281682	2.045866563	1.146261560
60° 44′ 30″	0.87242493	0.48874814	1.785019455	0.560217984	2.046043610	1.146230426
60° 44′ 40″	0.87244862	0.48870584	1.785222430	0.560154289	2.046220693	1.146199296
60° 44′ 50″	0.87247232	0.48866354	1.785425440	0.560090597	2.046397811	1.146168171
60° 45′ 00″	0.87249601	0.48862124	1.785628485	0.560026908	2.046574965	1.146137050
60° 45′ 10″	0.87251970	0.48857894	1.785831565	0.559963224	2.046752154	1.146105934
60° 45′ 20″	0.87254338	0.48853664	1.786034681	0.559899542	2.046929378	1.146074822
60° 45′ 30″	0.87256706	0.48849434	1.786237831	0.559835864	2.047106639	1.146043714
60° 45′ 40″	0.87259075	0.48845203	1.786441017	0.559772190	2.047283934	1.146012611
60° 45′ 50″	0.87261443	0.48840973	1.786644238	0.559708519	2.047461265	1.145981512
60° 46′ 00″	0.87263810	0.48836742	1.786847494	0.559644851	2.047638632	1.145950418
60° 46′ 10″	0.87266178	0.48832511	1.787050786	0.559581187	2.047816034	1.145919327
60° 46′ 20″	0.87268545	0.48828281	1.787254112	0.559517526	2.047993472	1.145888242
60° 46′ 30″	0.87270913	0.48824050	1.787457474	0.559453869	2.048170946	1.145857160
60° 46′ 40″ 60° 46′ 50″	0.87273279	0.48819819	1.787660871	0.559390215	2.048348455	1.145826083
	0.87275646	0.48815587	1.787864304	0.559326565	2.048525999	1.145795011
60° 47′ 00″	0.87278013	0.48811356	1.788067772	0.559262918	2.048703579	1.145763942
60° 47′ 10″	0.87280379	0.48807125	1.788271275	0.559199275	2.048881195	1.145732879
60° 47′ 20″	0.87282745	0.48802893	1.788474813 1.788678386	0.559135635	2.049058846	1.145701819
60° 47′ 30″ 60° 47′ 40″	0.87285111	0.48798662		0.559071998	2.049236533	1.145670764
60° 47′ 50″	0.87287477 0.87289842	0.48794430 0.48790198	1.788881995 1.789085639	0.559008365 0.558944736	2.049414256 2.049592014	1.145639713 1.145608667
	0.07207042	0.40//01/0	1.707003037	0.330/44/30	2.04/3/2014	1.14300000/

456 60° 47′ 50″

	-: ()	(24)	A (a)	+(a)	(**)	()
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\frac{\csc(x)}{1.145577625}$
60° 48′ 00″	0.87292208	0.48785966	1.789289319	0.558881110	2.049769808	1.145577625
60° 48′ 10″	0.87294573	0.48781734	1.789493034	0.558817487	2.049947638	1.145546587
60° 48′ 20″	0.87296938	0.48777502	1.789696784	0.558753868	2.050125503	1.145515554
60° 48′ 30″	0.87299302	0.48773269	1.789900570	0.558690252	2.050303404	1.145484525
60° 48′ 40″	0.87301667	0.48769037	1.790104391	0.558626639	2.050481341	1.145453501
60° 48′ 50″	0.87304031	0.48764804	1.790308247	0.558563031	2.050659313	1.145422481
60° 49′ 00″	0.87306395	0.48760572	1.790512139	0.558499425	2.050837321	1.145391465
60° 49′ 10″	0.87308759	0.48756339	1.790716066	0.558435823	2.051015365	1.145360453
60° 49′ 20″	0.87311123	0.48752106	1.790920028	0.558372224	2.051193445	1.145329446
60° 49′ 30″	0.87313486	0.48747873	1.791124026	0.558308629	2.051371560	1.145298444
60° 49′ 40″	0.87315850	0.48743640	1.791328060	0.558245038	2.051549711	1.145267446
60° 49′ 50″	0.87318213	0.48739406	1.791532129	0.558181449	2.051727898	1.145236452
60° 50′ 00″	0.87320575	0.48735173	1.791736233	0.558117865	2.051906121	1.145205462
60° 50′ 10″	0.87322938	0.48730940	1.791940373	0.558054283	2.052084379	1.145174477
60° 50′ 20″	0.87325301	0.48726706	1.792144548	0.557990705	2.052262673	1.145143496
60° 50′ 30″	0.87327663	0.48722472	1.792348758	0.557927131	2.052441003	1.145112520
60° 50′ 40″	0.87330025	0.48718239	1.792553005	0.557863560	2.052619369	1.145081548
60° 50′ 50″	0.87332387	0.48714005	1.792757286	0.557799992	2.052797771	1.145050580
60° 51′ 00″	0.87334748	0.48709771	1.792961604	0.557736428	2.052976208	1.145019617
60° 51′ 10″	0.87337110	0.48705536	1.793165956	0.557672867	2.053154682	1.144988658
60° 51′ 20″	0.87339471	0.48701302	1.793370345	0.557609310	2.053333191	1.144957703
60° 51′ 30″	0.87341832	0.48697068	1.793574768	0.557545756	2.053511736	1.144926753
60° 51′ 40″	0.87344193	0.48692833	1.793779228	0.557482205	2.053690317	1.144895807
60° 51′ 50″	0.87346553	0.48688599	1.793983723	0.557418658	2.053868934	1.144864866
60° 52′ 00″	0.87348914	0.48684364	1.794188253	0.557355115	2.054047587	1.144833929
60° 52′ 10″	0.87351274	0.48680129	1.794392819	0.557291575	2.054226275	1.144802996
60° 52′ 20″	0.87353634	0.48675894	1.794597421	0.557228038	2.054405000	1.144772067
60° 52′ 30″	0.87355994	0.48671659	1.794802058	0.557164505	2.054583760	1.144741143
60° 52′ 40″	0.87358353	0.48667424	1.795006731	0.557100975	2.054762557	1.144710224
60° 52′ 50″	0.87360713	0.48663188	1.795211440	0.557037449	2.054941389	1.144679308
60° 53′ 00″	0.87363072	0.48658953	1.795416184	0.556973926	2.055120258	1.144648397
60° 53′ 10″	0.87365431	0.48654717	1.795620964	0.556910406	2.055299162	1.144617491
60° 53′ 20″	0.87367789	0.48650482	1.795825779	0.556846890	2.055478102	1.144586589
60° 53′ 30″	0.87370148	0.48646246	1.796030630	0.556783377	2.055657079	1.144555691
60° 53′ 40″	0.87372506	0.48642010	1.796235517	0.556719868	2.055836091	1.144524797
60° 53′ 50″	0.87374864	0.48637774	1.796440440	0.556656362	2.056015139	1.144493908
60° 54′ 00″	0.87377222	0.48633538	1.796645398	0.556592860	2.056194224	1.144463023
60° 54′ 10″	0.87379580	0.48629302	1.796850392	0.556529361	2.056373344	1.144432143
60° 54′ 20″	0.87381938	0.48625065	1.797055421	0.556465865	2.056552501	1.144401267
60° 54′ 30″	0.87384295	0.48620829	1.797260487	0.556402373	2.056731693	1.144370395
60° 54′ 40″	0.87386652	0.48616592	1.797465588	0.556338884	2.056910922	1.144339528
60° 54′ 50″	0.87389009	0.48612356	1.797670725	0.556275399	2.057090186	1.144308665
60° 55′ 00″	0.87391366	0.48608119	1.797875897	0.556211917	2.057269487	1.144277806
60° 55′ 10″	0.87393722	0.48603882	1.798081106	0.556148439	2.057448824	1.144246952
60° 55′ 20″	0.87396078	0.48599645	1.798286350	0.556084964	2.057628197	1.144216102
60° 55′ 30″	0.87398434	0.48595408	1.798491630	0.556021492	2.057807606	1.144185256
60° 55′ 40″	0.87400790	0.48591171	1.798696946	0.555958024	2.057987051	1.144154415
60° 55′ 50″	0.87403146	0.48586933	1.798902297	0.555894559	2.058166532	1.144123578

457 60° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
60° 56′ 00″	0.87405501	0.48582696	1.799107684	0.555831098	2.058346050	1.144092745
60° 56′ 10″	0.87407857	0.48578458	1.799313108	0.555767640	2.058525603	1.144061917
60° 56′ 20″	0.87410212	0.48574221	1.799518567	0.555704186	2.058705193	1.144031093
60° 56′ 30″	0.87412567	0.48569983	1.799724062	0.555640735	2.058884819	1.144000274
60° 56′ 40″	0.87414921	0.48565745	1.799929592	0.555577287	2.059064481	1.143969458
60° 56′ 50″	0.87417276	0.48561507	1.800135159	0.555513843	2.059244180	1.143938648
60° 57′ 00″	0.87419630	0.48557269	1.800340762	0.555450402	2.059423914	1.143907841
60° 57′ 10″	0.87421984	0.48553030	1.800546400	0.555386965	2.059603685	1.143877039
60° 57′ 20″	0.87424338	0.48548792	1.800752074	0.555323531	2.059783492	1.143846241
60° 57′ 30″	0.87426691	0.48544553	1.800957785	0.555260100	2.059963335	1.143815448
60° 57′ 40″	0.87429045	0.48540315	1.801163531	0.555196673	2.060143215	1.143784659
60° 57′ 50″	0.87431398	0.48536076	1.801369313	0.555133249	2.060323130	1.143753874
60° 58′ 00″	0.87433751	0.48531837	1.801575131	0.555069829	2.060503082	1.143723094
60° 58′ 10″	0.87436104	0.48527598	1.801780985	0.555006412	2.060683071	1.143692318
60° 58′ 20″	0.87438456	0.48523359	1.801986875	0.554942999	2.060863095	1.143661546
60° 58′ 30″	0.87440809	0.48519120	1.802192801	0.554879589	2.061043156	1.143630779
60° 58′ 40″	0.87443161	0.48514881	1.802398763	0.554816182	2.061223253	1.143600016
60° 58′ 50″	0.87445513	0.48510641	1.802604761	0.554752779	2.061403387	1.143569257
60° 59′ 00″	0.87447864	0.48506402	1.802810795	0.554689379	2.061583557	1.143538503
60° 59′ 10″	0.87450216	0.48502162	1.803016865	0.554625982	2.061763763	1.143507753
60° 59′ 20″	0.87452567	0.48497922	1.803222971	0.554562589	2.061944006	1.143477007
60° 59′ 30″	0.87454919	0.48493682	1.803429113	0.554499200	2.062124285	1.143446266
60° 59′ 40″	0.87457269	0.48489442	1.803635291	0.554435814	2.062304600	1.143415529
60° 59′ 50″	0.87459620	0.48485202	1.803841505	0.554372431	2.062484952	1.143384796
61° 00′ 00″	0.87461971	0.48480962	1.804047755	0.554309051	2.062665340	1.143354068
61° 00′ 10″	0.87464321	0.48476722	1.804254042	0.554245675	2.062845764	1.143323344
61° 00′ 20″	0.87466671	0.48472481	1.804460364	0.554182303	2.063026225	1.143292624
61° 00′ 30″	0.87469021	0.48468241	1.804666722	0.554118934	2.063206722	1.143261909
61° 00′ 40″	0.87471371	0.48464000	1.804873117	0.554055568	2.063387256	1.143231198
61° 00′ 50″	0.87473720	0.48459759	1.805079548	0.553992206	2.063567826	1.143200492
61° 01′ 00″	0.87476070	0.48455518	1.805286015	0.553928847	2.063748433	1.143169789
61° 01′ 10″	0.87478419	0.48451277	1.805492518	0.553865491	2.063929076	1.143139091
61° 01′ 20″	0.87480768	0.48447036	1.805699057	0.553802139	2.064109756	1.143108398
61° 01′ 30″	0.87483116	0.48442795	1.805905632	0.553738790	2.064290472	1.143077709
61° 01′ 40″	0.87485465	0.48438554	1.806112244	0.553675445	2.064471225	1.143047024
61° 01′ 50″	0.87487813	0.48434312	1.806318891	0.553612103	2.064652014	1.143016343
61° 02′ 00″	0.87490161	0.48430071	1.806525575	0.553548764	2.064832839	1.142985667
61° 02′ 10″	0.87492509	0.48425829	1.806732295	0.553485429	2.065013701	1.142954995
61° 02′ 20″	0.87494856	0.48421587	1.806939052	0.553422097	2.065194600	1.142924327
61° 02′ 30″	0.87497204	0.48417345	1.807145844	0.553358769	2.065375535	1.142893664
61° 02′ 40″	0.87499551	0.48413103	1.807352673	0.553295444	2.065556507	1.142863005
61° 02′ 50″	0.87501898	0.48408861	1.807559538	0.553232123	2.065737516	1.142832351
61° 03′ 00″	0.87504245	0.48404619	1.807766439	0.553168804	2.065918561	1.142801700
61° 03′ 10″	0.87506592	0.48400376	1.807973377	0.553105490	2.066099642	1.142771054
61° 03′ 20″	0.87508938	0.48396134	1.808180351	0.553042178	2.066280760	1.142740413
61° 03′ 30″	0.87511284	0.48391891	1.808387361	0.552978870	2.066461915	1.142709776
61° 03′ 40″ 61° 03′ 50″	0.87513630	0.48387648	1.808594407	0.552915566	2.066643107	1.142679143
01 05 50"	0.87515976	0.48383406	1.808801490	0.552852265	2.066824335	1.142648514

458 61° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
61° 04′ 00″	0.87518322	0.48379163	1.809008609	0.552788967	2.067005599	1.142617890
61° 04′ 10″	0.87520667	0.48374920	1.809215765	0.552725672	2.067186901	1.142587270
61° 04′ 20″	0.87523012	0.48370676	1.809422956	0.552662381	2.067368239	1.142556654
61° 04′ 30″	0.87525357	0.48366433	1.809630184	0.552599094	2.067549613	1.142526043
61° 04′ 40″	0.87527702	0.48362190	1.809837449	0.552535810	2.067731025	1.142495436
61° 04′ 50″	0.87530047	0.48357946	1.810044750	0.552472529	2.067912473	1.142464833
61° 05′ 00″	0.87532391	0.48353703	1.810252087	0.552409251	2.068093958	1.142434235
61° 05′ 10″	0.87534735	0.48349459	1.810459461	0.552345977	2.068275479	1.142403641
61° 05′ 20″	0.87537079	0.48345215	1.810666871	0.552282707	2.068457038	1.142373051
61° 05′ 30″	0.87539423	0.48340971	1.810874317	0.552219439	2.068638633	1.142342466
61° 05′ 40″	0.87541766	0.48336727	1.811081800	0.552156175	2.068820264	1.142311885
61° 05′ 50″	0.87544110	0.48332483	1.811289319	0.552092915	2.069001933	1.142281308
61° 06′ 00″	0.87546453	0.48328238	1.811496875	0.552029658	2.069183638	1.142250736
61° 06′ 10″	0.87548796	0.48323994	1.811704467	0.551966404	2.069365380	1.142220168
61° 06′ 20″	0.87551138	0.48319749	1.811912096	0.551903154	2.069547159	1.142189604
61° 06′ 30″	0.87553481	0.48315505	1.812119761	0.551839907	2.069728975	1.142159044
61° 06′ 40″	0.87555823	0.48311260	1.812327463	0.551776663	2.069910827	1.142128489
61° 06′ 50″	0.87558165	0.48307015	1.812535201	0.551713423	2.070092716	1.142097938
61° 07′ 00″	0.87560507	0.48302770	1.812742976	0.551650186	2.070274643	1.142067392
61° 07′ 10″	0.87562849	0.48298525	1.812950787	0.551586953	2.070456606	1.142036850
61° 07′ 20″	0.87565190	0.48294280	1.813158635	0.551523723	2.070638605	1.142006312
61° 07′ 30″	0.87567532	0.48290034	1.813366519	0.551460496	2.070820642	1.141975779
61° 07′ 40″	0.87569873	0.48285789	1.813574440	0.551397273	2.071002716	1.141945249
61° 07′ 50″	0.87572213	0.48281543	1.813782397	0.551334053	2.071184826	1.141914724
61° 08′ 00″	0.87574554	0.48277298	1.813990391	0.551270836	2.071366973	1.141884204
61° 08′ 10″	0.87576895	0.48273052	1.814198422	0.551207623	2.071549158	1.141853688
61° 08′ 20″	0.87579235	0.48268806	1.814406489	0.551144413	2.071731379	1.141823176
61° 08′ 30″	0.87581575	0.48264560	1.814614593	0.551081207	2.071913637	1.141792668
61° 08′ 40″	0.87583915	0.48260314	1.814822733	0.551018004	2.072095932	1.141762165
61° 08′ 50″	0.87586254	0.48256068	1.815030910	0.550954804	2.072278264	1.141731666
61° 09′ 00″	0.87588594	0.48251821	1.815239124	0.550891608	2.072460633	1.141701171
61° 09′ 10″	0.87590933	0.48247575	1.815447374	0.550828415	2.072643039	1.141670681
61° 09′ 20″	0.87593272	0.48243328	1.815655661	0.550765226	2.072825482	1.141640195
61° 09′ 30″	0.87595611	0.48239081	1.815863985	0.550702040	2.073007962	1.141609713
61° 09′ 40″	0.87597949	0.48234835	1.816072345	0.550638857	2.073190479	1.141579235
61° 09′ 50″	0.87600288	0.48230588	1.816280742	0.550575677	2.073373033	1.141548762
61° 10′ 00″	0.87602626	0.48226341	1.816489176	0.550512501	2.073555624	1.141518293
61° 10′ 10″	0.87604964	0.48222094	1.816697646	0.550449329	2.073738252	1.141487829
61° 10′ 20″	0.87607302	0.48217846	1.816906153	0.550386160	2.073920917	1.141457369
61° 10′ 30″	0.87609639	0.48213599	1.817114697	0.550322994	2.074103619	1.141426913
61° 10′ 40″	0.87611977	0.48209351	1.817323278	0.550259831	2.074286358	1.141396461
61° 10′ 50″ 61° 11′ 00″	0.87614314	0.48205104 0.48200856	1.817531895	0.550196672	2.074469135	1.141366014
	0.87616651		1.817740549	0.550133516	2.074651948	1.141335571
61° 11′ 10″ 61° 11′ 20″	0.87618987	0.48196608	1.817949240	0.550070364 0.550007215	2.074834798	1.141305132
61° 11′ 30″	0.87621324	0.48192360	1.818157968		2.075017686	1.141274698
61° 11′ 40″	0.87623660 0.87625996	0.48188112 0.48183864	1.818366733 1.818575534	0.549944069 0.549880927	2.075200611 2.075383573	1.141244268 1.141213842
61° 11′ 50″	0.87628332	0.48179616	1.818784372	0.549817788	2.075566572	1.141213642
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459 61° 11′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
61° 12′ 00″	0.87630668	0.48175367	1.818993247	0.549754652	2.075749608	1.141153004
61° 12′ 10″	0.87633004	0.48171119	1.819202159	0.549691520	2.075932681	1.141122591
61° 12′ 20″	0.87635339	0.48166870	1.817202137	0.549628391	2.076115791	1.141092182
61° 12′ 30″	0.87637674	0.48162622	1.819620093	0.549565266	2.076298939	1.1410/2182
61° 12′ 40″	0.87640009	0.48158373	1.817829116	0.549502144	2.076482124	1.141031378
61° 12′ 50″	0.87642343	0.48154124	1.820038175	0.549439025	2.076665346	1.141000982
61° 13′ 00″	0.87644678	0.48149875	1.820247271	0.549375909	2.076848605	1.140970591
61° 13′ 10″	0.87647012	0.48145625	1.820456405	0.549312797	2.077031902	1.140940204
61° 13′ 20″	0.87649346	0.48141376	1.820665575	0.549249689	2.077215236	1.140909821
61° 13′ 30″	0.87651680	0.48137127	1.820874782	0.549186583	2.077398607	1.140879443
61° 13′ 40″	0.87654014	0.48132877	1.821084026	0.549123481	2.077582015	1.140849069
61° 13′ 50″	0.87656347	0.48128628	1.821293307	0.549060383	2.077765460	1.140818699
61° 14′ 00″	0.87658680	0.48124378	1.821502624	0.548997288	2.077948943	1.140788333
61° 14′ 10″	0.87661013	0.48120128	1.821711979	0.548934196	2.078132463	1.140757972
61° 14′ 20″	0.87663346	0.48115878	1.821921371	0.548871107	2.078316021	1.140727615
61° 14′ 30″	0.87665679	0.48111628	1.822130800	0.548808022	2.078499615	1.140697263
61° 14′ 40″	0.87668011	0.48107378	1.822340266	0.548744940	2.078683248	1.140666914
61° 14′ 50″	0.87670344	0.48103127	1.822549768	0.548681862	2.078866917	1.140636570
61° 15′ 00″	0.87672676	0.48098877	1.822759308	0.548618787	2.079050624	1.140606230
61° 15′ 10″	0.87675007	0.48094626	1.822968885	0.548555715	2.079234368	1.140575895
61° 15′ 20″	0.87677339	0.48090376	1.823178499	0.548492647	2.079418149	1.140545564
61° 15′ 30″	0.87679670	0.48086125	1.823388150	0.548429581	2.079601968	1.140515237
61° 15′ 40″	0.87682002	0.48081874	1.823597838	0.548366520	2.079785824	1.140484914
61° 15′ 50″	0.87684332	0.48077623	1.823807563	0.548303461	2.079969718	1.140454596
61° 16′ 00″	0.87686663	0.48073372	1.824017325	0.548240407	2.080153649	1.140424282
61° 16′ 10″	0.87688994	0.48069121	1.824227125	0.548177355	2.080337618	1.140393972
61° 16′ 20″	0.87691324	0.48064869	1.824436961	0.548114307	2.080521623	1.140363667
61° 16′ 30″	0.87693654	0.48060618	1.824646835	0.548051262	2.080705667	1.140333366
61° 16′ 40″	0.87695984	0.48056366	1.824856746	0.547988220	2.080889748	1.140303069
61° 16′ 50″	0.87698314	0.48052115	1.825066693	0.547925182	2.081073866	1.140272777
61° 17′ 00″	0.87700644	0.48047863	1.825276678	0.547862147	2.081258022	1.140242488
61° 17′ 10″	0.87702973	0.48043611	1.825486701	0.547799116	2.081442215	1.140212204
61° 17′ 20″	0.87705302	0.48039359	1.825696760	0.547736087	2.081626446	1.140181925
61° 17′ 30″	0.87707631	0.48035107	1.825906856	0.547673063	2.081810714	1.140151649
61° 17′ 40″	0.87709960	0.48030855	1.826116990	0.547610041	2.081995020	1.140121378
61° 17′ 50″	0.87712288	0.48026602	1.826327161	0.547547023	2.082179363	1.140091111
61° 18′ 00″	0.87714616	0.48022350	1.826537369	0.547484008	2.082363744	1.140060849
61° 18′ 10″	0.87716944	0.48018097	1.826747615	0.547420997	2.082548162	1.140030591
61° 18′ 20″	0.87719272	0.48013844	1.826957897	0.547357989	2.082732618	1.140000337
61° 18′ 30″ 61° 18′ 40″	0.87721600 0.87723927	0.48009592	1.827168217	0.547294984	2.082917112	1.139970087 1.139939842
61° 18′ 50″		0.48005339	1.827378574	0.547231982	2.083101643	
61° 19′ 00″	0.87726255 0.87728582	0.48001086 0.47996833	1.827588969 1.827799401	0.547168984 0.547105990	2.083286212 2.083470818	1.139909601 1.139879364
61° 19′ 10″	0.87728382	0.47996833	1.827799401	0.547105990	2.083655462	1.139849131
61° 19′ 20″	0.87733235	0.47972379	1.828220376	0.546980010	2.083840143	1.137847131
61° 19′ 30″	0.87735562	0.47788328	1.828430920	0.546917026	2.084024863	1.139788679
61° 19′ 40″	0.87737888	0.477784072	1.828641501	0.546854044	2.084209619	1.139758459
61° 19′ 50″	0.87740214	0.47975565	1.828852119	0.546791066	2.084394414	1.139728244
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460 61° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
61° 20′ 00″	0.87742540	0.47971311	1.829062775	0.546728091	2.084579246	1.139698033
61° 20′ 10″	0.87744865	0.47967057	1.829273468	0.546665120	2.084764116	1.139667826
61° 20′ 20″	0.87747191	0.47962803	1.829484198	0.546602152	2.084949024	1.139637623
61° 20′ 30″	0.87749516	0.47958549	1.829694966	0.546539187	2.085133969	1.139607425
61° 20′ 40″	0.87751841	0.47954295	1.829905771	0.546476226	2.085318952	1.139577231
61° 20′ 50″	0.87754166	0.47950041	1.830116614	0.546413268	2.085503973	1.139547041
61° 21′ 00″	0.87756490	0.47945786	1.830327494	0.546350313	2.085689031	1.139516856
61° 21′ 10″	0.87758815	0.47941531	1.830538411	0.546287362	2.085874127	1.139486675
61° 21′ 20″	0.87761139	0.47937277	1.830749366	0.546224414	2.086059261	1.139456498
61° 21′ 30″	0.87763463	0.47933022	1.830960358	0.546161470	2.086244433	1.139426325
61° 21′ 40″	0.87765787	0.47928767	1.831171388	0.546098528	2.086429643	1.139396157
61° 21′ 50″	0.87768110	0.47924512	1.831382456	0.546035590	2.086614890	1.139365993
61° 22′ 00″	0.87770434	0.47920257	1.831593560	0.545972656	2.086800175	1.139335833
61° 22′ 10″	0.87772757	0.47916001	1.831804703	0.545909724	2.086985498	1.139305678
61° 22′ 20″	0.87775080	0.47911746	1.832015882	0.545846796	2.087170859	1.139275526
61° 22′ 30″	0.87777402	0.47907490	1.832227100	0.545783872	2.087356257	1.139245379
61° 22′ 40″	0.87779725	0.47903235	1.832438354	0.545720950	2.087541694	1.139215237
61° 22′ 50″	0.87782047	0.47898979	1.832649647	0.545658032	2.087727168	1.139185098
61° 23′ 00″	0.87784369	0.47894723	1.832860977	0.545595118	2.087912680	1.139154964
61° 23′ 10″	0.87786691	0.47890467	1.833072344	0.545532206	2.088098230	1.139124834
61° 23′ 20″	0.87789013	0.47886211	1.833283749	0.545469298	2.088283818	1.139094709
61° 23′ 30″	0.87791334	0.47881955	1.833495192	0.545406393	2.088469444	1.139064587
61° 23′ 40″	0.87793656	0.47877699	1.833706672	0.545343492	2.088655108	1.139034470
61° 23′ 50″	0.87795977	0.47873442	1.833918190	0.545280594	2.088840809	1.139004357
61° 24′ 00″	0.87798298	0.47869186	1.834129745	0.545217699	2.089026549	1.138974249
61° 24′ 10″	0.87800618	0.47864929	1.834341338	0.545154808	2.089212326	1.138944145
61° 24′ 20″	0.87802939	0.47860672	1.834552969	0.545091920	2.089398142	1.138914045
61° 24′ 30″	0.87805259	0.47856416	1.834764637	0.545029035	2.089583995	1.138883949
61° 24′ 40″	0.87807579	0.47852159	1.834976343	0.544966154	2.089769887	1.138853857
61° 24′ 50″	0.87809899	0.47847901	1.835188087	0.544903276	2.089955816	1.138823770
61° 25′ 00″	0.87812218	0.47843644	1.835399868	0.544840401	2.090141784	1.138793687
61° 25′ 10″	0.87814538	0.47839387	1.835611687	0.544777529	2.090327789	1.138763609
61° 25′ 20″	0.87816857	0.47835130	1.835823544	0.544714661	2.090513833	1.138733534
61° 25′ 30″	0.87819176	0.47830872	1.836035439	0.544651796	2.090699914	1.138703464
61° 25′ 40″	0.87821495	0.47826614	1.836247371	0.544588935	2.090886034	1.138673398
61° 25′ 50″	0.87823813	0.47822357	1.836459341	0.544526077	2.091072191	1.138643337
61° 26′ 00″	0.87826132	0.47818099	1.836671348	0.544463222	2.091258387	1.138613279
61° 26′ 10″	0.87828450	0.47813841	1.836883394	0.544400370	2.091444621	1.138583226
61° 26′ 20″	0.87830768	0.47809583	1.837095477	0.544337522	2.091630893	1.138553178
61° 26′ 30″	0.87833086	0.47805324	1.837307598	0.544274677	2.091817203	1.138523133
61° 26′ 40″	0.87835403	0.47801066	1.837519757	0.544211836	2.092003551	1.138493093
61° 26′ 50″	0.87837721	0.47796808	1.837731953	0.544148997	2.092189937	1.138463057
61° 27′ 00″	0.87840038	0.47792549	1.837944188	0.544086162	2.092376361	1.138433025
61° 27′ 10″	0.87842355	0.47788290	1.838156460	0.544023331	2.092562824	1.138402997
61° 27′ 20″	0.87844672	0.47784032	1.838368770	0.543960503	2.092749324	1.138372974
61° 27′ 30″	0.87846988	0.47779773	1.838581118	0.543897678	2.092935863	1.138342955
61° 27′ 40″	0.87849304	0.47775514	1.838793504	0.543834856	2.093122440	1.138312940
61° 27′ 50″	0.87851621	0.47771255	1.839005927	0.543772037	2.093309055	1.138282930

461 61° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
61° 28′ 00″	0.87853936	0.47766995	1.839218389	0.543709222	2.093495709	1.138252924
61° 28′ 10″	0.87856252	0.47762736	1.839430888	0.543646411	2.093682400	1.138222922
61° 28′ 20″	0.87858568	0.47758477	1.839643426	0.543583602	2.093869130	1.138192924
61° 28′ 30″	0.87860883	0.47754217	1.839856001	0.543520797	2.094055898	1.138162931
61° 28′ 40″	0.87863198	0.47749957	1.840068614	0.543457995	2.094242704	1.138132942
61° 28′ 50″	0.87865513	0.47745698	1.840281265	0.543395197	2.094429549	1.138102957
61° 29′ 00″	0.87867828	0.47741438	1.840493954	0.543332401	2.094616432	1.138072976
61° 29′ 10″	0.87870142	0.47737178	1.840706681	0.543269610	2.094803353	1.138042999
61° 29′ 20″	0.87872456	0.47732918	1.840919446	0.543206821	2.094990312	1.138013027
61° 29′ 30″	0.87874770	0.47728657	1.841132249	0.543144036	2.095177310	1.137983059
61° 29′ 40″	0.87877084	0.47724397	1.841345090	0.543081254	2.095364346	1.137953096
61° 29′ 50″	0.87879398	0.47720137	1.841557969	0.543018475	2.095551420	1.137923136
61° 30′ 00″	0.87881711	0.47715876	1.841770886	0.542955700	2.095738533	1.137893181
61° 30′ 10″	0.87884024	0.47711615	1.841983841	0.542892928	2.095925683	1.137863230
61° 30′ 20″	0.87886338	0.47707355	1.842196834	0.542830159	2.096112873	1.137833284
61° 30′ 30″	0.87888650	0.47703094	1.842409865	0.542767393	2.096300100	1.137803341
61° 30′ 40″	0.87890963	0.47698833	1.842622934	0.542704631	2.096487367	1.137773403
61° 30′ 50″	0.87893275	0.47694571	1.842836042	0.542641872	2.096674671	1.137743469
61° 31′ 00″	0.87895588	0.47690310	1.843049187	0.542579117	2.096862014	1.137713540
61° 31′ 10″	0.87897900	0.47686049	1.843262370	0.542516365	2.097049395	1.137683614
61° 31′ 20″	0.87900211	0.47681787	1.843475592	0.542453616	2.097236815	1.137653693
61° 31′ 30″	0.87902523	0.47677526	1.843688851	0.542390870	2.097424273	1.137623776
61° 31′ 40″	0.87904834	0.47673264	1.843902149	0.542328128	2.097611769	1.137593863
61° 31′ 50″	0.87907145	0.47669002	1.844115485	0.542265389	2.097799305	1.137563955
61° 32′ 00″	0.87909456	0.47664740	1.844328859	0.542202653	2.097986878	1.137534051
61° 32′ 10″	0.87911767	0.47660478	1.844542271	0.542139920	2.098174490	1.137504151
61° 32′ 20″	0.87914078	0.47656216	1.844755722	0.542077191	2.098362140	1.137474255
61° 32′ 30″	0.87916388	0.47651954	1.844969210	0.542014465	2.098549829	1.137444364
61° 32′ 40″	0.87918698	0.47647692	1.845182737	0.541951743	2.098737557	1.137414477
61° 32′ 50″	0.87921008	0.47643429	1.845396302	0.541889024	2.098925323	1.137384594
61° 33′ 00″	0.87923318	0.47639167	1.845609905	0.541826308	2.099113127	1.137354715
61° 33′ 10″	0.87925627	0.47634904	1.845823546	0.541763595	2.099300970	1.137324840
61° 33′ 20″	0.87927937	0.47630641	1.846037226	0.541700885	2.099488852	1.137294970
61° 33′ 30″	0.87930246	0.47626378	1.846250944	0.541638179	2.099676772	1.137265104
61° 33′ 40″	0.87932555	0.47622115	1.846464700	0.541575477	2.099864731	1.137235243
61° 33′ 50″	0.87934863	0.47617852	1.846678495	0.541512777	2.100052728	1.137205385
61° 34′ 00″	0.87937172	0.47613589	1.846892327	0.541450081	2.100240764	1.137175532
61° 34′ 10″ 61° 34′ 20″	0.87939480	0.47609325	1.847106198	0.541387388	2.100428839	1.137145683
	0.87941788	0.47605062	1.847320108	0.541324698	2.100616952	1.137115838
61° 34′ 30″ 61° 34′ 40″	0.87944096	0.47600798	1.847534055	0.541262012	2.100805104	1.137085997
	0.87946404	0.47596535	1.847748041	0.541199329	2.100993295	1.137056161
61° 34′ 50″ 61° 35′ 00″	0.87948711	0.47592271	1.847962066 1.848176128	0.541136649	2.101181524	1.137026329
61° 35′ 00″	0.87951018	0.47588007	1.848176128	0.541073973	2.101369792	1.136996501
61° 35′ 10″	0.87953325	0.47583743 0.47579479		0.541011300	2.101558098	1.136966678
61° 35′ 30″	0.87955632		1.848604369	0.540948630 0.540885963	2.101746443	1.136936858 1.136907043
61° 35′ 40″	0.87957939 0.87960245	0.47575214 0.47570950	1.848818546 1.849032763	0.540885963	2.101934827 2.102123250	1.136907043
61° 35′ 50″	0.87962551	0.475766686	1.849247017	0.540825500	2.102123230	1.136847426
=======================================	0.07/02331	0.77,00000	1.07/44/01/	0.540/00040	2.104311/11	1.13004/420

462 61° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
61° 36′ 00″	0.87964857	0.47562421	1.849461310	0.540697983	2.102500211	1.136817623
61° 36′ 10″	0.87967163	0.47558156	1.849675642	0.540635330	2.102688750	1.136787825
61° 36′ 20″	0.87969469	0.47553891	1.849890012	0.540572679	2.102877328	1.136758031
61° 36′ 30″	0.87971774	0.47549626	1.850104420	0.540510032	2.103065944	1.136728242
61° 36′ 40″	0.87974079	0.47545361	1.850318867	0.540447389	2.103254599	1.136698456
61° 36′ 50″	0.87976384	0.47541096	1.850533352	0.540384748	2.103443293	1.136668675
61° 37′ 00″	0.87978689	0.47536831	1.850747876	0.540322111	2.103632026	1.136638898
61° 37′ 10″	0.87980993	0.47532566	1.850962438	0.540259478	2.103820797	1.136609125
61° 37′ 20″	0.87983298	0.47528300	1.851177039	0.540196847	2.104009608	1.136579357
61° 37′ 30″	0.87985602	0.47524034	1.851391678	0.540134220	2.104198457	1.136549592
61° 37′ 40″	0.87987906	0.47519769	1.851606356	0.540071596	2.104387345	1.136519832
61° 37′ 50″	0.87990210	0.47515503	1.851821072	0.540008975	2.104576272	1.136490076
61° 38′ 00″	0.87992513	0.47511237	1.852035827	0.539946358	2.104765238	1.136460325
61° 38′ 10″	0.87994816	0.47506971	1.852250621	0.539883744	2.104954242	1.136430577
61° 38′ 20″	0.87997119	0.47502705	1.852465453	0.539821133	2.105143286	1.136400834
61° 38′ 30″	0.87999422	0.47498438	1.852680324	0.539758526	2.105332369	1.136371095
61° 38′ 40″	0.88001725	0.47494172	1.852895233	0.539695921	2.105521490	1.136341360
61° 38′ 50″	0.88004028	0.47489906	1.853110181	0.539633320	2.105710650	1.136311630
61° 39′ 00″	0.88006330	0.47485639	1.853325167	0.539570723	2.105899850	1.136281904
61° 39′ 10″	0.88008632	0.47481372	1.853540193	0.539508128	2.106089088	1.136252182
61° 39′ 20″	0.88010934	0.47477105	1.853755256	0.539445537	2.106278365	1.136222464
61° 39′ 30″	0.88013235	0.47472838	1.853970359	0.539382949	2.106467681	1.136192750
61° 39′ 40″	0.88015537	0.47468571	1.854185500	0.539320365	2.106657036	1.136163041
61° 39′ 50″	0.88017838	0.47464304	1.854400680	0.539257783	2.106846431	1.136133336
61° 40′ 00″	0.88020139	0.47460037	1.854615899	0.539195205	2.107035864	1.136103635
61° 40′ 10″	0.88022440	0.47455770	1.854831156	0.539132630	2.107225336	1.136073938
61° 40′ 20″	0.88024741	0.47451502	1.855046452	0.539070059	2.107414847	1.136044246
61° 40′ 30″	0.88027041	0.47447234	1.855261786	0.539007491	2.107604397	1.136014558
61° 40′ 40″	0.88029341	0.47442967	1.855477160	0.538944926	2.107793987	1.135984874
61° 40′ 50″	0.88031641	0.47438699	1.855692572	0.538882364	2.107983615	1.135955194
61° 41′ 00″	0.88033941	0.47434431	1.855908023	0.538819806	2.108173283	1.135925518
61° 41′ 10″	0.88036241	0.47430163	1.856123513	0.538757250	2.108362989	1.135895847
61° 41′ 20″ 61° 41′ 30″	0.88038540	0.47425895	1.856339041	0.538694698	2.108552735	1.135866180
61° 41′ 40″	0.88040839 0.88043138	0.47421626 0.47417358	1.856554609 1.856770215	0.538632150 0.538569604	2.108742520 2.108932344	1.135836517 1.135806858
61° 41′ 50″	0.88045437	0.47417338	1.856985860	0.538507062	2.108732344	1.135777204
61° 42′ 00″	0.88047735	0.47413070	1.857201543	0.538444523	2.109122207	1.135777204
61° 42′ 10″	0.88050034	0.47404552	1.857417266	0.538381988	2.109502050	1.135747333
61° 42′ 20″	0.88052332	0.47404332	1.857633027	0.538319456	2.109302030	1.135/1/90/
61° 42′ 30″	0.88054630	0.47400283	1.857848828	0.538256927	2.109882050	1.135658628
61° 42′ 40″	0.88056927	0.47376014	1.858064667	0.538194401	2.1107882030	1.135628994
61° 42′ 50″	0.88059225	0.47371743	1.858280545	0.538131878	2.110072107	1.135599365
61° 43′ 00″	0.88061522	0.47383207	1.858496462	0.538069359	2.110262267	1.135569740
61° 43′ 10″	0.88063819	0.47378937	1.858712418	0.538007337	2.110432543	1.135540120
61° 43′ 20″	0.88066116	0.47374668	1.858928413	0.537944330	2.110832737	1.135510503
61° 43′ 30″	0.88068413	0.47374008	1.859144447	0.537881821	2.111022992	1.135480891
61° 43′ 40″	0.88070709	0.47366129	1.859360519	0.537819315	2.111213286	1.135451283
61° 43′ 50″	0.88073006	0.47361859	1.859576631	0.537756812	2.111403620	1.135421679
	1.0007.0000	2.17.001007	.,007070001	2.007,700012	2	

463 61° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
61° 44′ 00″	0.88075302	0.47357589	1.859792782	0.537694312	2.111593993	1.135392079
61° 44′ 10″	0.88077598	0.47353319	1.860008971	0.537631815	2.111784405	1.135362484
61° 44′ 20″	0.88079893	0.47349049	1.860225200	0.537569322	2.111974856	1.135332892
61° 44′ 30″	0.88082189	0.47344778	1.860441467	0.537506832	2.112165347	1.135303305
61° 44′ 40″	0.88084484	0.47340508	1.860657774	0.537444346	2.112355877	1.135273722
61° 44′ 50″	0.88086779	0.47336237	1.860874120	0.537381862	2.112546447	1.135244144
61° 45′ 00″	0.88089074	0.47331967	1.861090505	0.537319382	2.112737056	1.135214569
61° 45′ 10″	0.88091368	0.47327696	1.861306928	0.537256905	2.112927704	1.135184999
61° 45′ 20″	0.88093663	0.47323425	1.861523391	0.537194432	2.113118391	1.135155433
61° 45′ 30″	0.88095957	0.47319154	1.861739893	0.537131961	2.113309118	1.135125871
61° 45′ 40″	0.88098251	0.47314883	1.861956434	0.537069494	2.113499885	1.135096314
61° 45′ 50″	0.88100545	0.47310612	1.862173014	0.537007030	2.113690690	1.135066760
61° 46′ 00″	0.88102838	0.47306341	1.862389633	0.536944570	2.113881536	1.135037211
61° 46′ 10″	0.88105132	0.47302069	1.862606292	0.536882112	2.114072420	1.135007666
61° 46′ 20″	0.88107425	0.47297798	1.862822989	0.536819658	2.114263344	1.134978125
61° 46′ 30″	0.88109718	0.47293526	1.863039726	0.536757207	2.114454308	1.134948589
61° 46′ 40″	0.88112011	0.47289254	1.863256501	0.536694760	2.114645311	1.134919057
61° 46′ 50″	0.88114303	0.47284983	1.863473316	0.536632315	2.114836353	1.134889528
61° 47′ 00″	0.88116596	0.47280711	1.863690170	0.536569874	2.115027435	1.134860004
61° 47′ 10″	0.88118888	0.47276438	1.863907064	0.536507436	2.115218557	1.134830485
61° 47′ 20″	0.88121180	0.47272166	1.864123996	0.536445002	2.115409718	1.134800969
61° 47′ 30″	0.88123471	0.47267894	1.864340968	0.536382570	2.115600918	1.134771458
61° 47′ 40″	0.88125763	0.47263622	1.864557979	0.536320142	2.115792158	1.134741951
61° 47′ 50″	0.88128054	0.47259349	1.864775029	0.536257717	2.115983438	1.134712448
61° 48′ 00″	0.88130345	0.47255076	1.864992118	0.536195295	2.116174757	1.134682949
61° 48′ 10″	0.88132636	0.47250804	1.865209247	0.536132877	2.116366116	1.134653455
61° 48′ 20″	0.88134927	0.47246531	1.865426415	0.536070462	2.116557514	1.134623964
61° 48′ 30″	0.88137217	0.47242258	1.865643622	0.536008050	2.116748952	1.134594478
61° 48′ 40″	0.88139508	0.47237985	1.865860869	0.535945641	2.116940430	1.134564996
61° 48′ 50″	0.88141798	0.47233712	1.866078155	0.535883236	2.117131947	1.134535518
61° 49′ 00″	0.88144087	0.47229438	1.866295480	0.535820834	2.117323503	1.134506045
61° 49′ 10″	0.88146377	0.47225165	1.866512844	0.535758435	2.117515100	1.134476576
61° 49′ 20″ 61° 49′ 30″	0.88148667	0.47220891	1.866730248	0.535696039	2.117706736	1.134447110
61° 49′ 40″	0.88150956	0.47216618 0.47212344	1.866947691 1.867165174	0.535633647 0.535571257	2.117898412 2.118090127	1.134417649 1.134388193
61° 49′ 50″	0.88155534	0.47212344	1.867382696	0.535508871	2.118281882	
61° 50′ 00″	0.88157822	0.47203070	1.867600257	0.535446489	2.118473677	1.134358740 1.134329292
61° 50′ 10″	0.88160111	0.47203776	1.867817858	0.535384109	2.118665512	1.134327272
61° 50′ 20″	0.88162399	0.47195248	1.868035498	0.535364107	2.118857386	1.134277646
61° 50′ 30″	0.88164687	0.47173248	1.868253178	0.535259360	2.119049300	1.134240972
61° 50′ 40″	0.88166975	0.47170774	1.868470897	0.535196990	2.119049300	1.134240772
61° 50′ 50″	0.88169262	0.47182425	1.868688655	0.535176770	2.119433247	1.134211340
61° 51′ 00″	0.88171549	0.47178150	1.868906453	0.535072260	2.117433247	1.134152690
61° 51′ 10″	0.88171347	0.47173130	1.869124290	0.535072280	2.117823281	1.134123271
61° 51′ 20″	0.88176124	0.47173876	1.869342167	0.534947543	2.120009467	1.134123271
61° 51′ 30″	0.88178410	0.47165326	1.869560084	0.534885190	2.120201619	1.134064445
61° 51′ 40″	0.88180697	0.47161051	1.869778039	0.534822839	2.120393812	1.134035039
61° 51′ 50″	0.88182983	0.47156775	1.869996035	0.534760492	2.120586044	1.134005637
	0.00102703	3.17 130773		2.33 17 00 17 2		

464 61° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
61° 52′ 00″	0.88185269	0.47152500	1.870214070	0.534698148	2.120778316	1.133976239
61° 52′ 10″	0.88187555	0.47148225	1.870432144	0.534635808	2.120970628	1.133946845
61° 52′ 20″	0.88189841	0.47143949	1.870650258	0.534573470	2.121162980	1.133917455
61° 52′ 30″	0.88192126	0.47139674	1.870868412	0.534511136	2.121355372	1.133888070
61° 52′ 40″	0.88194412	0.47135398	1.871086605	0.534448805	2.121547804	1.133858688
61° 52′ 50″	0.88196697	0.47131122	1.871304838	0.534386477	2.121740275	1.133829311
61° 53′ 00″	0.88198982	0.47126846	1.871523110	0.534324153	2.121932787	1.133799938
61° 53′ 10″	0.88201266	0.47122570	1.871741422	0.534261831	2.122125338	1.133770570
61° 53′ 20″	0.88203551	0.47118294	1.871959774	0.534199513	2.122317929	1.133741205
61° 53′ 30″	0.88205835	0.47114018	1.872178165	0.534137198	2.122510561	1.133711845
61° 53′ 40″	0.88208119	0.47109741	1.872396596	0.534074887	2.122703232	1.133682489
61° 53′ 50″	0.88210403	0.47105465	1.872615066	0.534012578	2.122895943	1.133653137
61° 54′ 00″	0.88212687	0.47101188	1.872833576	0.533950273	2.123088695	1.133623789
61° 54′ 10″	0.88214970	0.47096911	1.873052126	0.533887971	2.123281486	1.133594445
61° 54′ 20″	0.88217253	0.47092635	1.873270716	0.533825673	2.123474317	1.133565106
61° 54′ 30″	0.88219536	0.47088358	1.873489345	0.533763377	2.123667188	1.133535770
61° 54′ 40″	0.88221819	0.47084081	1.873708014	0.533701085	2.123860099	1.133506439
61° 54′ 50″	0.88224102	0.47079803	1.873926723	0.533638796	2.124053051	1.133477112
61° 55′ 00″	0.88226384	0.47075526	1.874145471	0.533576510	2.124246042	1.133447790
61° 55′ 10″	0.88228666	0.47071249	1.874364260	0.533514227	2.124439074	1.133418471
61° 55′ 20″	0.88230948	0.47066971	1.874583088	0.533451948	2.124632145	1.133389157
61° 55′ 30″	0.88233230	0.47062694	1.874801955	0.533389672	2.124825257	1.133359847
61° 55′ 40″	0.88235512	0.47058416	1.875020863	0.533327399	2.125018408	1.133330541
61° 55′ 50″	0.88237793	0.47054138	1.875239810	0.533265129	2.125211600	1.133301239
61° 56′ 00″	0.88240074	0.47049860	1.875458797	0.533202863	2.125404832	1.133271941
61° 56′ 10″	0.88242355	0.47045582	1.875677825	0.533140600	2.125598104	1.133242648
61° 56′ 20″	0.88244636	0.47041304	1.875896891	0.533078340	2.125791417	1.133213359
61° 56′ 30″	0.88246916	0.47037026	1.876115998	0.533016083	2.125984769	1.133184073
61° 56′ 40″	0.88249197	0.47032747	1.876335145	0.532953829	2.126178162	1.133154793
61° 56′ 50″	0.88251477	0.47028469	1.876554331	0.532891579	2.126371594	1.133125516
61° 57′ 00″	0.88253757	0.47024190	1.876773557	0.532829332	2.126565067	1.133096243
61° 57′ 10″	0.88256036	0.47019911	1.876992824	0.532767088	2.126758581	1.133066975
61° 57′ 20″ 61° 57′ 30″	0.88258316	0.47015633	1.877212130	0.532704847	2.126952134	1.133037711
	0.88260595	0.47011354	1.877431476	0.532642609	2.127145728	1.133008451
61° 57′ 40″	0.88262874	0.47007075	1.877650862	0.532580375	2.127339361	1.132979195
61° 57′ 50″ 61° 58′ 00″	0.88265153	0.47002795	1.877870288	0.532518144	2.127533036	1.132949943
61° 58′ 10″	0.88267432	0.46998516	1.878089754	0.532455916	2.127726750	1.132920696
61° 58′ 20″		0.46994237	1.878309259	0.532393691	2.127920505 2.128114300	1.132891452 1.132862213
61° 58′ 30″	0.88271988	0.46989957 0.46985678	1.878528805 1.878748391	0.532331470 0.532269252	2.128114300	1.132862213
61° 58′ 40″	0.88276544	0.46783678	1.878968017	0.532207036	2.128502011	1.132832778
61° 58′ 50″	0.88278822	0.4677118	1.879187683	0.532207036	2.128695926	1.132774521
61° 59′ 00″	0.88281099	0.46977118	1.879407389	0.532144825	2.128889883	1.132774321
61° 59′ 10″	0.88283376	0.46972636	1.879627135	0.532082616	2.120007003	1.132743278
61° 59′ 20″	0.88285653	0.46768338	1.879846921	0.532020411	2.129063877	1.132716080
61° 59′ 30″	0.88287930	0.46764278	1.880066747	0.531736208	2.129471994	1.132657656
61° 59′ 40″	0.88290207	0.46757778	1.880286613	0.531833814	2.129471974	1.132628450
61° 59′ 50″	0.88292483	0.46753717	1.880506519	0.531771621	2.127860270	1.132529430
	0.002/2703	0.10/3173/	1.000300317	0.001771021	2.12/0002/0	1,1323//270

465 61° 59′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
62° 00′ 00″	0.88294759	0.46947156	1.880726465	0.531709432	2.130054468	1.132570051
62° 00′ 10″	0.88297035	0.46942876	1.880946452	0.531647245	2.130248707	1.132540857
62° 00′ 20″	0.88299311	0.46938595	1.881166478	0.531585063	2.130442987	1.132511668
62° 00′ 30″	0.88301587	0.46934314	1.881386545	0.531522883	2.130637306	1.132482483
62° 00′ 40″	0.88303862	0.46930033	1.881606652	0.531460706	2.130831667	1.132453302
62° 00′ 50″	0.88306137	0.46925752	1.881826799	0.531398533	2.131026068	1.132424126
62° 01′ 00″	0.88308412	0.46921470	1.882046986	0.531336363	2.131220509	1.132394953
62° 01′ 10″	0.88310687	0.46917189	1.882267213	0.531274196	2.131414991	1.132365785
62° 01′ 20″	0.88312961	0.46912908	1.882487481	0.531212032	2.131609513	1.132336621
62° 01′ 30″	0.88315235	0.46908626	1.882707789	0.531149871	2.131804076	1.132307461
62° 01′ 40″	0.88317510	0.46904344	1.882928137	0.531087714	2.131998679	1.132278305
62° 01′ 50″	0.88319783	0.46900062	1.883148525	0.531025560	2.132193323	1.132249153
62° 02′ 00″	0.88322057	0.46895781	1.883368953	0.530963409	2.132388008	1.132220006
62° 02′ 10″	0.88324331	0.46891498	1.883589422	0.530901261	2.132582733	1.132190863
62° 02′ 20″	0.88326604	0.46887216	1.883809931	0.530839117	2.132777498	1.132161723
62° 02′ 30″	0.88328877	0.46882934	1.884030480	0.530776975	2.132972304	1.132132588
62° 02′ 40″	0.88331150	0.46878652	1.884251070	0.530714837	2.133167151	1.132103458
62° 02′ 50″	0.88333422	0.46874369	1.884471700	0.530652702	2.133362039	1.132074331
62° 03′ 00″	0.88335695	0.46870087	1.884692370	0.530590571	2.133556967	1.132045208
62° 03′ 10″	0.88337967	0.46865804	1.884913081	0.530528442	2.133751935	1.132016090
62° 03′ 20″	0.88340239	0.46861521	1.885133831	0.530466317	2.133946945	1.131986976
62° 03′ 30″	0.88342511	0.46857238	1.885354623	0.530404195	2.134141995	1.131957866
62° 03′ 40″	0.88344782	0.46852955	1.885575454	0.530342076	2.134337085	1.131928760
62° 03′ 50″	0.88347054	0.46848672	1.885796326	0.530279960	2.134532217	1.131899658
62° 04′ 00″	0.88349325	0.46844389	1.886017239	0.530217847	2.134727389	1.131870560
62° 04′ 10″	0.88351596	0.46840106	1.886238191	0.530155738	2.134922601	1.131841467
62° 04′ 20″	0.88353867	0.46835822	1.886459184	0.530093632	2.135117855	1.131812378
62° 04′ 30″	0.88356137	0.46831539	1.886680218	0.530031529	2.135313149	1.131783293
62° 04′ 40″	0.88358408	0.46827255	1.886901292	0.529969429	2.135508484	1.131754212
62° 04′ 50″	0.88360678	0.46822971	1.887122407	0.529907332	2.135703860	1.131725135
62° 05′ 00″	0.88362948	0.46818687	1.887343562	0.529845239	2.135899276	1.131696062
62° 05′ 10″	0.88365217	0.46814403	1.887564757	0.529783149	2.136094734	1.131666994
62° 05′ 20″	0.88367487	0.46810119	1.887785993	0.529721061	2.136290232	1.131637929
62° 05′ 30″	0.88369756	0.46805835	1.888007269	0.529658978	2.136485771	1.131608869
62° 05′ 40″	0.88372025	0.46801550	1.888228586	0.529596897	2.136681351	1.131579813
62° 05′ 50″	0.88374294	0.46797266	1.888449944	0.529534819	2.136876971	1.131550761
62° 06′ 00″	0.88376563	0.46792981	1.888671342	0.529472745	2.137072633	1.131521713
62° 06′ 10″	0.88378831	0.46788697	1.888892780	0.529410674	2.137268335	1.131492670
62° 06′ 20″	0.88381100	0.46784412	1.889114259	0.529348606	2.137464078	1.131463630
62° 06′ 30″	0.88383368	0.46780127	1.889335779	0.529286541	2.137659862	1.131434595
62° 06′ 40″	0.88385636	0.46775842	1.889557339	0.529224480	2.137855687	1.131405564
62° 06′ 50″	0.88387903	0.46771557	1.889778940	0.529162421	2.138051553	1.131376537
62° 07′ 00″	0.88390171	0.46767272	1.890000581	0.529100366	2.138247460	1.131347514
62° 07′ 10″	0.88392438	0.46762986	1.890222264	0.529038314	2.138443407	1.131318495
62° 07′ 20″	0.88394705	0.46758701	1.890443986	0.528976265	2.138639396	1.131289481
62° 07′ 30″	0.88396972	0.46754415	1.890665750	0.528914220	2.138835425	1.131260470
62° 07′ 40″	0.88399238	0.46750130	1.890887554	0.528852177	2.139031496	1.131231464
62° 07′ 50″	0.88401505	0.46745844	1.891109398	0.528790138	2.139227607	1.131202462
<u> </u>			-			

466 62° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
62° 08′ 00″	0.88403771	0.46741558	1.891331284	0.528728102	2.139423760	1.131173464
62° 08′ 10″	0.88406037	0.46737272	1.891553210	0.528666069	2.139619954	1.131144470
62° 08′ 20″	0.88408303	0.46732986	1.891775177	0.528604039	2.139816188	1.131115481
62° 08′ 30″	0.88410568	0.46728700	1.891997184	0.528542013	2.140012464	1.131086495
62° 08′ 40″	0.88412834	0.46724413	1.892219232	0.528479989	2.140208780	1.131057514
62° 08′ 50″	0.88415099	0.46720127	1.892441321	0.528417969	2.140405138	1.131028536
62° 09′ 00″	0.88417364	0.46715841	1.892663451	0.528355952	2.140601537	1.130999563
62° 09′ 10″	0.88419629	0.46711554	1.892885622	0.528293938	2.140797976	1.130970594
62° 09′ 20″	0.88421893	0.46707267	1.893107833	0.528231928	2.140994457	1.130941630
62° 09′ 30″	0.88424158	0.46702980	1.893330085	0.528169920	2.141190979	1.130912669
62° 09′ 40″	0.88426422	0.46698693	1.893552378	0.528107916	2.141387543	1.130883712
62° 09′ 50″	0.88428686	0.46694406	1.893774711	0.528045915	2.141584147	1.130854760
62° 10′ 00″	0.88430949	0.46690119	1.893997086	0.527983917	2.141780792	1.130825812
62° 10′ 10″	0.88433213	0.46685832	1.894219501	0.527921922	2.141977479	1.130796868
62° 10′ 20″	0.88435476	0.46681544	1.894441958	0.527859930	2.142174206	1.130767928
62° 10′ 30″	0.88437739	0.46677257	1.894664455	0.527797942	2.142370975	1.130738992
62° 10′ 40″	0.88440002	0.46672969	1.894886993	0.527735957	2.142567785	1.130710060
62° 10′ 50″	0.88442265	0.46668681	1.895109571	0.527673975	2.142764637	1.130681133
62° 11′ 00″	0.88444527	0.46664393	1.895332191	0.527611996	2.142961529	1.130652209
62° 11′ 10″	0.88446789	0.46660106	1.895554852	0.527550020	2.143158463	1.130623290
62° 11′ 20″	0.88449051	0.46655817	1.895777553	0.527488047	2.143355438	1.130594375
62° 11′ 30″	0.88451313	0.46651529	1.896000296	0.527426078	2.143552454	1.130565464
62° 11′ 40″	0.88453575	0.46647241	1.896223080	0.527364112	2.143749511	1.130536557
62° 11′ 50″	0.88455836	0.46642953	1.896445904	0.527302149	2.143946610	1.130507654
62° 12′ 00″	0.88458098	0.46638664	1.896668769	0.527240189	2.144143750	1.130478755
62° 12′ 10″	0.88460359	0.46634375	1.896891676	0.527178232	2.144340931	1.130449861
62° 12′ 20″	0.88462619	0.46630087	1.897114623	0.527116278	2.144538154	1.130420971
62° 12′ 30″	0.88464880	0.46625798	1.897337612	0.527054328	2.144735418	1.130392084
62° 12′ 40″	0.88467140	0.46621509	1.897560641	0.526992381	2.144932723	1.130363202
62° 12′ 50″	0.88469400	0.46617220	1.897783712	0.526930437	2.145130070	1.130334324
62° 13′ 00″	0.88471660	0.46612931	1.898006823	0.526868496	2.145327458	1.130305451
62° 13′ 10″	0.88473920	0.46608641	1.898229976	0.526806558	2.145524887	1.130276581
62° 13′ 20″	0.88476180	0.46604352	1.898453170	0.526744623	2.145722358	1.130247715
62° 13′ 30″	0.88478439	0.46600062	1.898676404	0.526682692	2.145919870	1.130218854
62° 13′ 40″	0.88480698	0.46595773	1.898899680	0.526620764	2.146117424	1.130189997
62° 13′ 50″	0.88482957	0.46591483	1.899122997	0.526558839	2.146315019	1.130161144
62° 14′ 00″	0.88485216	0.46587193	1.899346356	0.526496917	2.146512655	1.130132295
62° 14′ 10″	0.88487474	0.46582903	1.899569755	0.526434998	2.146710333	1.130103450
62° 14′ 20″	0.88489733	0.46578613	1.899793195	0.526373082	2.146908052	1.130074609
62° 14′ 30″	0.88491991	0.46574323	1.900016677	0.526311170	2.147105813	1.130045772
62° 14′ 40″	0.88494249	0.46570033	1.900240200	0.526249261	2.147303615	1.130016940
62° 14′ 50″ 62° 15′ 00″	0.88496506	0.46565743	1.900463764	0.526187354	2.147501459	1.129988111 1.129959287
62° 15′ 10″	0.88498764	0.46561452	1.900687369	0.526125451 0.526063552	2.147699344	
62° 15′ 10″ 62° 15′ 20″	0.88501021	0.46557161	1.900911015		2.147897271 2.148095239	1.129930467
62° 15′ 20″ 62° 15′ 30″	0.88503278 0.88505535	0.46552871	1.901134703 1.901358432	0.526001655		1.129901651
62° 15′ 30″ 62° 15′ 40″	0.88505555	0.46548580 0.46544289	1.901358432	0.525939762 0.525877871	2.148293249 2.148491301	1.129872839 1.129844031
62° 15′ 50″	0.88510048	0.46539998	1.901382202	0.525815984	2.148689394	1.129815228
=======================================	0.00310040	0.40337770	1./01000013	0.343013704	2.140007374	1.12/013220

467 62° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
62° 16′ 00″	0.88512304	0.46535707	1.902029866	0.525754100	2.148887528	1.129786428
62° 16′ 10″	0.88514560	0.46531416	1.902253759	0.525692219	2.149085705	1.129757633
62° 16′ 20″	0.88516816	0.46527124	1.902477695	0.525630341	2.149283922	1.129728842
62° 16′ 30″	0.88519072	0.46522833	1.902701671	0.525568467	2.149482182	1.129700055
62° 16′ 40″	0.88521327	0.46518541	1.902925689	0.525506595	2.149680483	1.129671272
62° 16′ 50″	0.88523582	0.46514249	1.903149748	0.525444727	2.149878825	1.129642493
62° 17′ 00″	0.88525837	0.46509958	1.903373849	0.525382862	2.150077210	1.129613718
62° 17′ 10″	0.88528092	0.46505666	1.903597991	0.525321000	2.150275636	1.129584947
62° 17′ 20″	0.88530346	0.46501374	1.903822174	0.525259141	2.150474104	1.129556181
62° 17′ 30″	0.88532601	0.46497082	1.904046399	0.525197285	2.150672613	1.129527418
62° 17′ 40″	0.88534855	0.46492789	1.904270665	0.525135433	2.150871164	1.129498660
62° 17′ 50″	0.88537109	0.46488497	1.904494972	0.525073584	2.151069757	1.129469906
62° 18′ 00″	0.88539363	0.46484205	1.904719321	0.525011737	2.151268391	1.129441156
62° 18′ 10″	0.88541616	0.46479912	1.904943711	0.524949894	2.151467068	1.129412410
62° 18′ 20″	0.88543869	0.46475619	1.905168143	0.524888054	2.151665786	1.129383668
62° 18′ 30″	0.88546122	0.46471327	1.905392617	0.524826218	2.151864546	1.129354930
62° 18′ 40″	0.88548375	0.46467034	1.905617131	0.524764384	2.152063347	1.129326197
62° 18′ 50″	0.88550628	0.46462741	1.905841687	0.524702554	2.152262191	1.129297467
62° 19′ 00″	0.88552881	0.46458448	1.906066285	0.524640726	2.152461076	1.129268742
62° 19′ 10″	0.88555133	0.46454154	1.906290924	0.524578902	2.152660003	1.129240021
62° 19′ 20″	0.88557385	0.46449861	1.906515605	0.524517081	2.152858972	1.129211304
62° 19′ 30″	0.88559637	0.46445568	1.906740327	0.524455263	2.153057983	1.129182591
62° 19′ 40″	0.88561888	0.46441274	1.906965091	0.524393448	2.153257035	1.129153882
62° 19′ 50″	0.88564140	0.46436980	1.907189897	0.524331637	2.153456130	1.129125177
62° 20′ 00″	0.88566391	0.46432687	1.907414744	0.524269828	2.153655266	1.129096476
62° 20′ 10″	0.88568642	0.46428393	1.907639632	0.524208023	2.153854444	1.129067780
62° 20′ 20″	0.88570893	0.46424099	1.907864563	0.524146221	2.154053664	1.129039087
62° 20′ 30″	0.88573143	0.46419805	1.908089534	0.524084422	2.154252926	1.129010399
62° 20′ 40″	0.88575394	0.46415510	1.908314548	0.524022626	2.154452230	1.128981715
62° 20′ 50″	0.88577644	0.46411216	1.908539603	0.523960833	2.154651576	1.128953035
62° 21′ 00″	0.88579894	0.46406922	1.908764700	0.523899043	2.154850964	1.128924359
62° 21′ 10″	0.88582144	0.46402627	1.908989838	0.523837257	2.155050394	1.128895687
62° 21′ 20″	0.88584393	0.46398333	1.909215018	0.523775473	2.155249866	1.128867019
62° 21′ 30″	0.88586643	0.46394038	1.909440240	0.523713693	2.155449380	1.128838355
62° 21′ 40″	0.88588892	0.46389743	1.909665503	0.523651916	2.155648936	1.128809696
62° 21′ 50″	0.88591141	0.46385448	1.909890808	0.523590142	2.155848534	1.128781040
62° 22′ 00″	0.88593389	0.46381153	1.910116155	0.523528371	2.156048173	1.128752389
62° 22′ 10″	0.88595638	0.46376858	1.910341544	0.523466604	2.156247855	1.128723742
62° 22′ 20″	0.88597886	0.46372562	1.910566974	0.523404839	2.156447579	1.128695099
62° 22′ 30″	0.88600134	0.46368267	1.910792446	0.523343078	2.156647346	1.128666460
62° 22′ 40″	0.88602382	0.46363972	1.911017960	0.523281320	2.156847154	1.128637825
62° 22′ 50″	0.88604630	0.46359676	1.911243516	0.523219564	2.157047004	1.128609194
62° 23′ 00″	0.88606877	0.46355380	1.911469114	0.523157812	2.157246896	1.128580567
62° 23′ 10″	0.88609125	0.46351084	1.911694753	0.523096064	2.157446831	1.128551945
62° 23′ 20″ 62° 23′ 30″	0.88611372	0.46346788	1.911920434	0.523034318	2.157646808	1.128523326
	0.88613619	0.46342492	1.912146157	0.522972575	2.157846826	1.128494712
62° 23′ 40″ 62° 23′ 50″	0.88615865	0.46338196	1.912371922	0.522910836 0.522849099	2.158046887	1.128466101
<u>62 25 30"</u>	0.88618112	0.46333900	1.912597729	0.344647079	2.158246990	1.128437495

468 62° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
62° 24′ 00″	0.88620358	0.46329604	1.912823577	0.522787366	2.158447136	1.128408893
62° 24′ 10″	0.88622604	0.46325307	1.913049468	0.522725636	2.158647323	1.128380295
62° 24′ 20″	0.88624850	0.46321010	1.913275400	0.522663909	2.158847553	1.128351701
62° 24′ 30″	0.88627095	0.46316714	1.913501375	0.522602185	2.159047825	1.128323112
62° 24′ 40″	0.88629341	0.46312417	1.913727391	0.522540465	2.159248139	1.128294526
62° 24′ 50″	0.88631586	0.46308120	1.913953449	0.522478747	2.159448496	1.128265944
62° 25′ 00″	0.88633831	0.46303823	1.914179549	0.522417033	2.159648894	1.128237367
62° 25′ 10″	0.88636076	0.46299526	1.914405691	0.522355321	2.159849335	1.128208793
62° 25′ 20″	0.88638320	0.46295229	1.914631875	0.522293613	2.160049818	1.128180224
62° 25′ 30″	0.88640565	0.46290931	1.914858101	0.522231908	2.160250344	1.128151659
62° 25′ 40″	0.88642809	0.46286634	1.915084370	0.522170206	2.160450912	1.128123098
62° 25′ 50″	0.88645053	0.46282336	1.915310680	0.522108507	2.160651522	1.128094541
62° 26′ 00″	0.88647296	0.46278038	1.915537032	0.522046812	2.160852175	1.128065988
62° 26′ 10″	0.88649540	0.46273741	1.915763426	0.521985119	2.161052869	1.128037439
62° 26′ 20″	0.88651783	0.46269443	1.915989862	0.521923430	2.161253607	1.128008895
62° 26′ 30″	0.88654026	0.46265145	1.916216341	0.521861743	2.161454386	1.127980354
62° 26′ 40″	0.88656269	0.46260847	1.916442861	0.521800060	2.161655208	1.127951818
62° 26′ 50″	0.88658512	0.46256548	1.916669424	0.521738380	2.161856073	1.127923285
62° 27′ 00″	0.88660754	0.46252250	1.916896028	0.521676703	2.162056980	1.127894757
62° 27′ 10″	0.88662997	0.46247952	1.917122675	0.521615029	2.162257929	1.127866233
62° 27′ 20″	0.88665239	0.46243653	1.917349364	0.521553358	2.162458921	1.127837712
62° 27′ 30″	0.88667481	0.46239354	1.917576095	0.521491691	2.162659955	1.127809196
62° 27′ 40″	0.88669722	0.46235056	1.917802868	0.521430026	2.162861031	1.127780685
62° 27′ 50″	0.88671964	0.46230757	1.918029684	0.521368365	2.163062150	1.127752177
62° 28′ 00″	0.88674205	0.46226458	1.918256541	0.521306707	2.163263312	1.127723673
62° 28′ 10″	0.88676446	0.46222159	1.918483441	0.521245052	2.163464516	1.127695173
62° 28′ 20″	0.88678687	0.46217859	1.918710383	0.521183400	2.163665763	1.127666678
62° 28′ 30″	0.88680927	0.46213560	1.918937367	0.521121751	2.163867052	1.127638186
62° 28′ 40″	0.88683168	0.46209261	1.919164393	0.521060105	2.164068384	1.127609699
62° 28′ 50″	0.88685408	0.46204961	1.919391462	0.520998462	2.164269758	1.127581216
62° 29′ 00″	0.88687648	0.46200661	1.919618573	0.520936823	2.164471175	1.127552736
62° 29′ 10″	0.88689888	0.46196362	1.919845726	0.520875186	2.164672634	1.127524261
62° 29′ 20″	0.88692127	0.46192062	1.920072922	0.520813553	2.164874136	1.127495790
62° 29′ 30″	0.88694367	0.46187762	1.920300160	0.520751923	2.165075681	1.127467323
62° 29′ 40″	0.88696606	0.46183462	1.920527440	0.520690295	2.165277268	1.127438860
62° 29′ 50″	0.88698845	0.46179162	1.920754762	0.520628671	2.165478898	1.127410402
62° 30′ 00″	0.88701083	0.46174861	1.920982127	0.520567051	2.165680570	1.127381947
62° 30′ 10″	0.88703322	0.46170561	1.921209534	0.520505433	2.165882285	1.127353496
62° 30′ 20″	0.88705560	0.46166260	1.921436984	0.520443818	2.166084043	1.127325050
62° 30′ 30″	0.88707798	0.46161960	1.921664476	0.520382207	2.166285844	1.127296607
62° 30′ 40″	0.88710036	0.46157659	1.921892010	0.520320598	2.166487687	1.127268169
62° 30′ 50″	0.88712274	0.46153358	1.922119587	0.520258993	2.166689573	1.127239735
62° 31′ 00″	0.88714511	0.46149057	1.922347206	0.520197390	2.166891501	1.127211305
62° 31′ 10″	0.88716749	0.46144756	1.922574867	0.520135791	2.167093473	1.127182878
62° 31′ 20″	0.88718986	0.46140455	1.922802571	0.520074195	2.167295487	1.127154456
62° 31′ 30″	0.88721222	0.46136154	1.923030318	0.520012602	2.167497544	1.127126039
62° 31′ 40″ 62° 31′ 50″	0.88723459 0.88725696	0.46131852	1.923258107 1.923485938	0.519951013 0.519889426	2.167699643	1.127097625
<u>62 31 30"</u>	0.00/23676	0.46127551	1.743463738	0.317087426	2.167901786	1.127069215

469 62° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
62° 32′ 00″	0.88727932	0.46123249	1.923713812	0.519827842	2.168103971	1.127040809
62° 32′ 10″	0.88730168	0.46118948	1.923941728	0.519766262	2.168306199	1.127012408
62° 32′ 20″	0.88732404	0.46114646	1.924169687	0.519704684	2.168508470	1.126984010
62° 32′ 30″	0.88734639	0.46110344	1.924397689	0.519643110	2.168710784	1.126955617
62° 32′ 40″	0.88736875	0.46106042	1.924625733	0.519581539	2.168913140	1.126927227
62° 32′ 50″	0.88739110	0.46101740	1.924853819	0.519519971	2.169115540	1.126898842
62° 33′ 00″	0.88741345	0.46097437	1.925081948	0.519458406	2.169317982	1.126870461
62° 33′ 10″	0.88743579	0.46093135	1.925310120	0.519396844	2.169520467	1.126842084
62° 33′ 20″	0.88745814	0.46088833	1.925538334	0.519335285	2.169722995	1.126813711
62° 33′ 30″	0.88748048	0.46084530	1.925766591	0.519273729	2.169925567	1.126785342
62° 33′ 40″	0.88750283	0.46080227	1.925994891	0.519212177	2.170128180	1.126756977
62° 33′ 50″	0.88752516	0.46075925	1.926223233	0.519150627	2.170330837	1.126728616
62° 34′ 00″	0.88754750	0.46071622	1.926451618	0.519089081	2.170533537	1.126700259
62° 34′ 10″	0.88756984	0.46067319	1.926680045	0.519027538	2.170736280	1.126671907
62° 34′ 20″	0.88759217	0.46063016	1.926908516	0.518965998	2.170939066	1.126643558
62° 34′ 30″	0.88761450	0.46058712	1.927137029	0.518904460	2.171141895	1.126615213
62° 34′ 40″	0.88763683	0.46054409	1.927365584	0.518842926	2.171344767	1.126586873
62° 34′ 50″	0.88765916	0.46050106	1.927594182	0.518781396	2.171547681	1.126558537
62° 35′ 00″	0.88768148	0.46045802	1.927822824	0.518719868	2.171750639	1.126530204
62° 35′ 10″	0.88770380	0.46041498	1.928051507	0.518658343	2.171953640	1.126501876
62° 35′ 20″	0.88772612	0.46037195	1.928280234	0.518596821	2.172156684	1.126473552
62° 35′ 30″	0.88774844	0.46032891	1.928509003	0.518535303	2.172359771	1.126445232
62° 35′ 40″	0.88777076	0.46028587	1.928737815	0.518473787	2.172562901	1.126416916
62° 35′ 50″	0.88779307	0.46024283	1.928966670	0.518412275	2.172766075	1.126388604
62° 36′ 00″	0.88781539	0.46019978	1.929195568	0.518350766	2.172969291	1.126360296
62° 36′ 10″	0.88783770	0.46015674	1.929424508	0.518289260	2.173172550	1.126331992
62° 36′ 20″	0.88786000	0.46011370	1.929653492	0.518227757	2.173375853	1.126303692
62° 36′ 30″	0.88788231	0.46007065	1.929882518	0.518166257	2.173579199	1.126275397
62° 36′ 40″	0.88790461	0.46002761	1.930111587	0.518104760	2.173782588	1.126247105
62° 36′ 50″	0.88792691	0.45998456	1.930340699	0.518043266	2.173986020	1.126218818
62° 37′ 00″	0.88794921	0.45994151	1.930569854	0.517981775	2.174189495	1.126190534
62° 37′ 10″	0.88797151	0.45989846	1.930799051	0.517920288	2.174393014	1.126162255
62° 37′ 20″ 62° 37′ 30″	0.88799381	0.45985541	1.931028292	0.517858803	2.174596575	1.126133980
62° 37′ 40″	0.88803839	0.45981236 0.45976931	1.931257576 1.931486902	0.517797322 0.517735843	2.174800180 2.175003828	1.126105708 1.126077441
62° 37′ 50″	0.88806068	0.45976931	1.931716272	0.517753645	2.175003626	
62° 38′ 00″	0.88808297	0.45968320	1.931945684	0.517674366	2.175207520	1.126049178 1.126020919
62° 38′ 10″	0.88810525	0.45768320	1.932175139	0.517551427	2.175615033	1.125992664
62° 38′ 20″	0.88812754	0.45959708	1.932404638	0.517331427	2.175818854	1.125964413
62° 38′ 30″	0.88814982	0.45757708	1.932634179	0.517487781	2.176022718	1.125936166
62° 38′ 40″	0.88817210	0.45751097	1.932863764	0.517367038	2.176022718	1.125736166
62° 38′ 50″	0.88819437	0.45731077	1.933093391	0.517307038	2.176430578	1.125879685
62° 39′ 00″	0.88821665	0.45942484	1.933323062	0.517303381	2.176430378	1.125851450
62° 39′ 10″	0.88823892	0.45938178	1.933552775	0.517182677	2.176838610	1.125823219
62° 39′ 20″	0.88826119	0.45933872	1.933782532	0.517121229	2.177042691	1.125794993
62° 39′ 30″	0.88828346	0.45929565	1.934012332	0.517121227	2.177246816	1.125766770
62° 39′ 40″	0.88830572	0.45925259	1.934242174	0.516998343	2.177450984	1.125738552
62° 39′ 50″	0.88832799	0.45920952	1.934472060	0.516936905	2.177655196	1.125710337
		3.10,20,02	, 3 . 1, 2000	2.0.10730703	2, 000170	207 10007

470 62° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
62° 40′ 00″	0.88835025	0.45916645	1.934701989	0.516875470	2.177859451	1.125682127
62° 40′ 10″	0.88837251	0.45912338	1.934931961	0.516814038	2.178063749	1.125653921
62° 40′ 20″	0.88839477	0.45908031	1.935161977	0.516752609	2.178268091	1.125625719
62° 40′ 30″	0.88841702	0.45903724	1.935392035	0.516691183	2.178472476	1.125597521
62° 40′ 40″	0.88843928	0.45899417	1.935622137	0.516629760	2.178676905	1.125569327
62° 40′ 50″	0.88846153	0.45895110	1.935852282	0.516568340	2.178881377	1.125541137
62° 41′ 00″	0.88848378	0.45890802	1.936082470	0.516506923	2.179085893	1.125512951
62° 41′ 10″	0.88850603	0.45886495	1.936312701	0.516445510	2.179290453	1.125484769
62° 41′ 20″	0.88852827	0.45882187	1.936542976	0.516384099	2.179495055	1.125456591
62° 41′ 30″	0.88855052	0.45877879	1.936773293	0.516322692	2.179699702	1.125428417
62° 41′ 40″	0.88857276	0.45873572	1.937003654	0.516261287	2.179904392	1.125400247
62° 41′ 50″	0.88859500	0.45869264	1.937234059	0.516199886	2.180109125	1.125372082
62° 42′ 00″	0.88861723	0.45864955	1.937464506	0.516138488	2.180313902	1.125343920
62° 42′ 10″	0.88863947	0.45860647	1.937694997	0.516077092	2.180518723	1.125315762
62° 42′ 20″	0.88866170	0.45856339	1.937925531	0.516015700	2.180723588	1.125287609
62° 42′ 30″	0.88868393	0.45852031	1.938156109	0.515954311	2.180928495	1.125259459
62° 42′ 40″	0.88870616	0.45847722	1.938386730	0.515892925	2.181133447	1.125231314
62° 42′ 50″	0.88872839	0.45843413	1.938617394	0.515831542	2.181338442	1.125203173
62° 43′ 00″	0.88875061	0.45839105	1.938848101	0.515770162	2.181543481	1.125175035
62° 43′ 10″	0.88877283	0.45834796	1.939078852	0.515708786	2.181748564	1.125146902
62° 43′ 20″	0.88879505	0.45830487	1.939309647	0.515647412	2.181953690	1.125118773
62° 43′ 30″	0.88881727	0.45826178	1.939540484	0.515586041	2.182158860	1.125090648
62° 43′ 40″	0.88883949	0.45821869	1.939771365	0.515524674	2.182364074	1.125062527
62° 43′ 50″	0.88886170	0.45817559	1.940002290	0.515463309	2.182569331	1.125034410
62° 44′ 00″	0.88888391	0.45813250	1.940233258	0.515401948	2.182774632	1.125006297
62° 44′ 10″	0.88890612	0.45808941	1.940464269	0.515340589	2.182979977	1.124978188
62° 44′ 20″	0.88892833	0.45804631	1.940695324	0.515279234	2.183185366	1.124950083
62° 44′ 30″	0.88895054	0.45800321	1.940926423	0.515217882	2.183390798	1.124921982
62° 44′ 40″	0.88897274	0.45796011	1.941157565	0.515156532	2.183596275	1.124893885
62° 44′ 50″	0.88899494	0.45791702	1.941388750	0.515095186	2.183801795	1.124865792
62° 45′ 00″	0.88901714	0.45787392	1.941619979	0.515033843	2.184007359	1.124837704
62° 45′ 10″	0.88903934	0.45783081	1.941851252	0.514972503	2.184212967	1.124809619
62° 45′ 20″	0.88906153	0.45778771	1.942082568	0.514911166	2.184418618	1.124781538
62° 45′ 30″	0.88908373	0.45774461	1.942313927	0.514849832	2.184624314	1.124753462
62° 45′ 40″	0.88910592	0.45770150	1.942545330	0.514788502	2.184830053	1.124725389
62° 45′ 50″	0.88912811	0.45765840	1.942776777	0.514727174	2.185035836	1.124697321
62° 46′ 00″	0.88915029	0.45761529	1.943008267	0.514665849	2.185241663	1.124669256
62° 46′ 10″	0.88917248	0.45757218	1.943239801	0.514604528	2.185447534	1.124641196
62° 46′ 20″	0.88919466	0.45752907	1.943471379	0.514543209	2.185653449	1.124613140
62° 46′ 30″	0.88921684	0.45748596	1.943703000	0.514481894	2.185859408	1.124585087
62° 46′ 40″	0.88923902	0.45744285	1.943934665	0.514420581	2.186065411	1.124557039
62° 46′ 50″	0.88926120	0.45739974	1.944166374	0.514359272	2.186271458	1.124528995
62° 47′ 00″	0.88928337	0.45735663	1.944398126	0.514297965	2.186477549	1.124500955
62° 47′ 10″	0.88930554	0.45731351	1.944629922	0.514236662	2.186683684	1.124472919
62° 47′ 20″	0.88932771	0.45727040	1.944861762	0.514175362	2.186889863	1.124444886
62° 47′ 30″	0.88934988	0.45722728	1.945093645	0.514114065	2.187096086	1.124416858
62° 47′ 40″	0.88937205	0.45718417	1.945325572	0.514052771	2.187302353	1.124388834
62° 47′ 50″	0.88939421	0.45714105	1.945557543	0.513991480	2.187508664	1.124360814

471 62° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
62° 48′ 00″	0.88941637	0.45709793	1.945789558	0.513930192	2.187715019	1.124332798
62° 48′ 10″	0.88943853	0.45705481	1.946021616	0.513868907	2.187921418	1.124304787
62° 48′ 20″	0.88946069	0.45701168	1.946253718	0.513807625	2.188127861	1.124276779
62° 48′ 30″	0.88948285	0.45696856	1.946485864	0.513746346	2.188334348	1.124248775
62° 48′ 40″	0.88950500	0.45692544	1.946718054	0.513685070	2.188540880	1.124220775
62° 48′ 50″	0.88952715	0.45688231	1.946950288	0.513623797	2.188747455	1.124192779
62° 49′ 00″	0.88954930	0.45683919	1.947182565	0.513562528	2.188954075	1.124164788
62° 49′ 10″	0.88957145	0.45679606	1.947414887	0.513501261	2.189160739	1.124136800
62° 49′ 20″	0.88959359	0.45675293	1.947647252	0.513439997	2.189367447	1.124108816
62° 49′ 30″	0.88961574	0.45670980	1.947879661	0.513378737	2.189574199	1.124080837
62° 49′ 40″	0.88963788	0.45666667	1.948112114	0.513317479	2.189780996	1.124052861
62° 49′ 50″	0.88966001	0.45662354	1.948344611	0.513256225	2.189987836	1.124024890
62° 50′ 00″	0.88968215	0.45658041	1.948577152	0.513194974	2.190194721	1.123996922
62° 50′ 10″	0.88970429	0.45653727	1.948809737	0.513133725	2.190401650	1.123968959
62° 50′ 20″	0.88972642	0.45649414	1.949042366	0.513072480	2.190608624	1.123940999
62° 50′ 30″	0.88974855	0.45645100	1.949275038	0.513011238	2.190815641	1.123913044
62° 50′ 40″	0.88977068	0.45640787	1.949507755	0.512949999	2.191022703	1.123885092
62° 50′ 50″	0.88979280	0.45636473	1.949740516	0.512888762	2.191229810	1.123857145
62° 51′ 00″	0.88981493	0.45632159	1.949973320	0.512827529	2.191436960	1.123829202
62° 51′ 10″	0.88983705	0.45627845	1.950206169	0.512766299	2.191644155	1.123801262
62° 51′ 20″	0.88985917	0.45623531	1.950439062	0.512705072	2.191851394	1.123773327
62° 51′ 30″	0.88988129	0.45619217	1.950671999	0.512643848	2.192058678	1.123745396
62° 51′ 40″	0.88990340	0.45614902	1.950904980	0.512582627	2.192266006	1.123717469
62° 51′ 50″	0.88992552	0.45610588	1.951138005	0.512521409	2.192473378	1.123689546
62° 52′ 00″	0.88994763	0.45606273	1.951371074	0.512460195	2.192680795	1.123661627
62° 52′ 10″	0.88996974	0.45601959	1.951604187	0.512398983	2.192888256	1.123633711
62° 52′ 20″	0.88999185	0.45597644	1.951837344	0.512337774	2.193095761	1.123605800
62° 52′ 30″	0.89001395	0.45593329	1.952070545	0.512276568	2.193303311	1.123577893
62° 52′ 40″	0.89003605	0.45589014	1.952303791	0.512215366	2.193510905	1.123549990
62° 52′ 50″	0.89005816	0.45584699	1.952537081	0.512154166	2.193718544	1.123522091
62° 53′ 00″	0.89008025	0.45580384	1.952770415	0.512092969	2.193926228	1.123494196
62° 53′ 10″	0.89010235	0.45576069	1.953003793	0.512031776	2.194133955	1.123466305
62° 53′ 20″	0.89012445	0.45571753	1.953237215	0.511970585	2.194341728	1.123438418
62° 53′ 30″ 62° 53′ 40″	0.89014654	0.45567438	1.953470681	0.511909398	2.194549544	1.123410536
62° 53′ 50″	0.89016863	0.45563122	1.953704192	0.511848213	2.194757406	1.123382657
62° 54′ 00″	0.89019072	0.45558807	1.953937747 1.954171346	0.511787032 0.511725853	2.194965312	1.123354782
62° 54′ 10″	0.89021280 0.89023489	0.45554491 0.45550175	1.954404990	0.511723833	2.195173262 2.195381257	1.123326911 1.123299044
62° 54′ 20″	0.89025697	0.45545859	1.954638677	0.511603506	2.195589297	1.123277044
62° 54′ 30″	0.89027905	0.45541543	1.954872409	0.511542337	2.195797381	1.123241162
62° 54′ 40″	0.89030113	0.45537226	1.955106186	0.511342337	2.196005509	1.123243323
62° 54′ 50″	0.89032321	0.45532910	1.955340006	0.511420007	2.176003307	1.123213468
62° 55′ 00″	0.87032321	0.45528594	1.955573871	0.511420007	2.176213683	1.123157617
62° 55′ 10″	0.87034328	0.45524277	1.955807781	0.511338847	2.196630164	1.123137771
62° 55′ 20″	0.87038733	0.45519960	1.956041734	0.511277676	2.196838471	1.123131728
62° 55′ 30″	0.87030742	0.45515644	1.956275733	0.511175385	2.197046823	1.123104007
62° 55′ 40″	0.89043355	0.45511327	1.956509775	0.511114237	2.177046823	1.123076233
62° 55′ 50″	0.89045562	0.45507010	1.956743862	0.511053092	2.197463661	1.123040424
	1.070 10002	3.10007010	, 15002	2.01.000072	2 103001	20020077

472 62° 55′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
62° 56′ 00″	0.89047768	0.45502693	1.956977993	0.510991950	2.197672147	1.122992775
62° 56′ 10″	0.89049974	0.45498375	1.957212169	0.510930811	2.197880678	1.122964956
62° 56′ 20″	0.89052180	0.45494058	1.957446389	0.510869675	2.198089253	1.122937142
62° 56′ 30″	0.89054385	0.45489741	1.957680654	0.510808542	2.198297874	1.122909331
62° 56′ 40″	0.89056590	0.45485423	1.957914963	0.510747412	2.198506539	1.122881525
62° 56′ 50″	0.89058795	0.45481105	1.958149316	0.510686285	2.198715249	1.122853722
62° 57′ 00″	0.89061000	0.45476788	1.958383715	0.510625161	2.198924004	1.122825924
62° 57′ 10″	0.89063205	0.45472470	1.958618157	0.510564040	2.199132803	1.122798129
62° 57′ 20″	0.89065409	0.45468152	1.958852644	0.510502923	2.199341647	1.122770339
62° 57′ 30″	0.89067614	0.45463834	1.959087176	0.510441808	2.199550537	1.122742553
62° 57′ 40″	0.89069818	0.45459516	1.959321752	0.510380696	2.199759471	1.122714770
62° 57′ 50″	0.89072022	0.45455197	1.959556373	0.510319588	2.199968450	1.122686992
62° 58′ 00″	0.89074225	0.45450879	1.959791038	0.510258482	2.200177473	1.122659217
62° 58′ 10″	0.89076429	0.45446560	1.960025748	0.510197379	2.200386542	1.122631447
62° 58′ 20″	0.89078632	0.45442242	1.960260503	0.510136280	2.200595656	1.122603681
62° 58′ 30″	0.89080835	0.45437923	1.960495302	0.510075183	2.200804814	1.122575918
62° 58′ 40″	0.89083038	0.45433604	1.960730146	0.510014089	2.201014018	1.122548160
62° 58′ 50″	0.89085240	0.45429285	1.960965035	0.509952999	2.201223266	1.122520406
62° 59′ 00″	0.89087443	0.45424966	1.961199968	0.509891911	2.201432559	1.122492655
62° 59′ 10″	0.89089645	0.45420647	1.961434946	0.509830827	2.201641898	1.122464909
62° 59′ 20″	0.89091847	0.45416328	1.961669968	0.509769745	2.201851281	1.122437167
62° 59′ 30″	0.89094048	0.45412009	1.961905035	0.509708667	2.202060709	1.122409428
62° 59′ 40″	0.89096250	0.45407689	1.962140147	0.509647591	2.202270183	1.122381694
62° 59′ 50″	0.89098451	0.45403370	1.962375304	0.509586519	2.202479701	1.122353964
63° 00′ 00″	0.89100652	0.45399050	1.962610506	0.509525449	2.202689265	1.122326238
63° 00′ 10″	0.89102853	0.45394730	1.962845752	0.509464383	2.202898873	1.122298515
63° 00′ 20″	0.89105054	0.45390410	1.963081043	0.509403320	2.203108527	1.122270797
63° 00′ 30″ 63° 00′ 40″	0.89107255	0.45386090	1.963316379	0.509342259	2.203318225	1.122243083
63° 00′ 50″	0.89109455 0.89111655	0.45381770 0.45377450	1.963551759 1.963787185	0.509281202 0.509220148	2.203527969 2.203737758	1.122215373 1.122187666
63° 01′ 00″	0.89111855	0.45377430	1.964022655	0.509220146	2.203737738	1.122159964
63° 01′ 10″	0.89116054	0.45368809	1.964022633	0.509159098	2.203747372	1.122132266
63° 01′ 20″	0.89118254	0.45364489	1.964493730	0.509037003	2.204137471	1.122132266
63° 01′ 30″	0.87110254	0.45360168	1.964729335	0.508975960	2.204577365	1.122104372
63° 01′ 40″	0.89122652	0.45355847	1.964964984	0.508914921	2.204787380	1.122070002
63° 01′ 50″	0.89124851	0.45351527	1.965200679	0.508853885	2.204997440	1.122021513
63° 02′ 00″	0.89127049	0.45347206	1.965436419	0.508792852	2.205207545	1.121993835
63° 02′ 10″	0.89129248	0.45342885	1.965672203	0.508731821	2.205417695	1.121966161
63° 02′ 20″	0.89131446	0.45338563	1.965908032	0.508670794	2.205627891	1.121938491
63° 02′ 30″	0.89133644	0.45334242	1.966143907	0.508609770	2.205838131	1.121910824
63° 02′ 40″	0.89135842	0.45329921	1.966379826	0.508548749	2.206048418	1.121883162
63° 02′ 50″	0.89138039	0.45325599	1.966615790	0.508487730	2.206258749	1.121855504
63° 03′ 00″	0.89140237	0.45321278	1.966851800	0.508426715	2.206469126	1.121827850
63° 03′ 10″	0.89142434	0.45316956	1.967087854	0.508365703	2.206679548	1.121800200
63° 03′ 20″	0.89144631	0.45312634	1.967323953	0.508304694	2.206890015	1.121772554
63° 03′ 30″	0.89146827	0.45308312	1.967560098	0.508243688	2.207100528	1.121744911
63° 03′ 40″	0.89149024	0.45303990	1.967796287	0.508182685	2.207311086	1.121717273
63° 03′ 50″	0.89151220	0.45299668	1.968032522	0.508121684	2.207521689	1.121689639
	1	22.32000				

473 63° 03′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(\mathbf{x})$
63° 04′ 00″	0.89153416	0.45295346	1.968268802	0.508060687	2.207732338	1.121662009
63° 04′ 10″	0.89155612	0.45291024	1.968505126	0.507999693	2.207943032	1.121634383
63° 04′ 20″	0.89157808	0.45286701	1.968741496	0.507938702	2.208153771	1.121606760
63° 04′ 30″	0.89160003	0.45282379	1.968977911	0.507877714	2.208364556	1.121579142
63° 04′ 40″	0.89162199	0.45278056	1.969214371	0.507816729	2.208575387	1.121551528
63° 04′ 50″	0.89164394	0.45273733	1.969450876	0.507755747	2.208786263	1.121523918
63° 05′ 00″	0.89166588	0.45269410	1.969687427	0.507694767	2.208997184	1.121496312
63° 05′ 10″	0.89168783	0.45265087	1.969924022	0.507633791	2.209208151	1.121468709
63° 05′ 20″	0.89170977	0.45260764	1.970160663	0.507572818	2.209419163	1.121441111
63° 05′ 30″	0.89173172	0.45256441	1.970397349	0.507511848	2.209630221	1.121413517
63° 05′ 40″	0.89175366	0.45252118	1.970634080	0.507450881	2.209841324	1.121385927
63° 05′ 50″	0.89177559	0.45247794	1.970870857	0.507389917	2.210052473	1.121358340
63° 06′ 00″	0.89179753	0.45243471	1.971107679	0.507328956	2.210263668	1.121330758
63° 06′ 10″	0.89181946	0.45239147	1.971344546	0.507267997	2.210474908	1.121303180
63° 06′ 20″	0.89184139	0.45234824	1.971581458	0.507207042	2.210686193	1.121275606
63° 06′ 30″	0.89186332	0.45230500	1.971818415	0.507146090	2.210897524	1.121248035
63° 06′ 40″	0.89188525	0.45226176	1.972055418	0.507085141	2.211108901	1.121220469
63° 06′ 50″	0.89190718	0.45221852	1.972292467	0.507024195	2.211320324	1.121192907
63° 07′ 00″	0.89192910	0.45217528	1.972529560	0.506963252	2.211531792	1.121165348
63° 07′ 10″	0.89195102	0.45213203	1.972766699	0.506902312	2.211743305	1.121137794
63° 07′ 20″	0.89197294	0.45208879	1.973003883	0.506841374	2.211954865	1.121110244
63° 07′ 30″	0.89199486	0.45204555	1.973241113	0.506780440	2.212166470	1.121082698
63° 07′ 40″	0.89201677	0.45200230	1.973478388	0.506719509	2.212378120	1.121055155
63° 07′ 50″	0.89203868	0.45195905	1.973715708	0.506658581	2.212589817	1.121027617
63° 08′ 00″	0.89206059	0.45191581	1.973953074	0.506597656	2.212801559	1.121000082
63° 08′ 10″	0.89208250	0.45187256	1.974190485	0.506536734	2.213013347	1.120972552
63° 08′ 20″	0.89210441	0.45182931	1.974427942	0.506475814	2.213225180	1.120945026
63° 08′ 30″	0.89212631	0.45178606	1.974665444	0.506414898	2.213437060	1.120917503
63° 08′ 40″	0.89214822	0.45174280	1.974902992	0.506353985	2.213648985	1.120889985
63° 08′ 50″	0.89217012	0.45169955	1.975140585	0.506293075	2.213860956	1.120862470
63° 09′ 00″	0.89219201	0.45165630	1.975378224	0.506232168	2.214072973	1.120834960
63° 09′ 10″	0.89221391	0.45161304	1.975615908	0.506171263	2.214285035	1.120807453
63° 09′ 20″	0.89223580	0.45156979	1.975853638	0.506110362	2.214497143	1.120779951
63° 09′ 30″	0.89225770	0.45152653	1.976091413	0.506049464	2.214709298	1.120752453
63° 09′ 40″	0.89227958	0.45148327	1.976329234	0.505988568	2.214921498	1.120724958
63° 09′ 50″	0.89230147	0.45144001	1.976567100	0.505927676	2.215133744	1.120697467
63° 10′ 00″	0.89232336	0.45139675	1.976805012	0.505866787	2.215346036	1.120669981
63° 10′ 10″	0.89234524	0.45135349	1.977042970	0.505805901	2.215558373	1.120642498
63° 10′ 20″	0.89236712	0.45131023	1.977280973	0.505745017	2.215770757	1.120615020
63° 10′ 30″	0.89238900	0.45126696	1.977519022	0.505684137	2.215983187	1.120587545
63° 10′ 40″	0.89241088	0.45122370	1.977757117	0.505623260	2.216195662	1.120560075
63° 10′ 50″	0.89243275	0.45118043	1.977995257	0.505562385	2.216408184	1.120532608
63° 11′ 00″	0.89245463	0.45113716	1.978233443	0.505501514	2.216620751	1.120505145
63° 11′ 10″	0.89247650	0.45109390	1.978471674	0.505440645	2.216833365	1.120477687
63° 11′ 20″ 63° 11′ 30″	0.89249837	0.45105063	1.978709952	0.505379780 0.505318918	2.217046024	1.120450232
63° 11′ 30″ 63° 11′ 40″	0.89252023	0.45100736	1.978948275		2.217258730	1.120422781
63° 11′ 50″	0.89254210 0.89256396	0.45096409 0.45092081	1.979186643 1.979425058	0.505258058 0.505197202	2.217471481 2.217684279	1.120395334 1.120367892
	0.07230376	0.430/2001	1.///423030	0.303177202	Z.ZI/004Z/7	1.12030/0/2

474 63° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
63° 12′ 00″	0.89258582	0.45087754	1.979663518	0.505136348	2.217897122	1.120340453
63° 12′ 10″	0.89260768	0.45083427	1.979902024	0.505075498	2.218110012	1.120313018
63° 12′ 20″	0.89262953	0.45079099	1.980140576	0.505014650	2.218322948	1.120285587
63° 12′ 30″	0.89265139	0.45074771	1.980379174	0.504953805	2.218535930	1.120258160
63° 12′ 40″	0.89267324	0.45070444	1.980617817	0.504892964	2.218748958	1.120230737
63° 12′ 50″	0.89269509	0.45066116	1.980856506	0.504832125	2.218962032	1.120203318
63° 13′ 00″	0.89271694	0.45061788	1.981095241	0.504771290	2.219175152	1.120175904
63° 13′ 10″	0.89273878	0.45057460	1.981334022	0.504710457	2.219388319	1.120148493
63° 13′ 20″	0.89276062	0.45053132	1.981572849	0.504649627	2.219601531	1.120121086
63° 13′ 30″	0.89278247	0.45048803	1.981811722	0.504588801	2.219814790	1.120093683
63° 13′ 40″	0.89280431	0.45044475	1.982050641	0.504527977	2.220028095	1.120066284
63° 13′ 50″	0.89282614	0.45040146	1.982289605	0.504467156	2.220241446	1.120038888
63° 14′ 00″	0.89284798	0.45035818	1.982528616	0.504406338	2.220454844	1.120011497
63° 14′ 10″	0.89286981	0.45031489	1.982767672	0.504345524	2.220668287	1.119984110
63° 14′ 20″	0.89289164	0.45027160	1.983006775	0.504284712	2.220881777	1.119956727
63° 14′ 30″	0.89291347	0.45022831	1.983245923	0.504223903	2.221095313	1.119929348
63° 14′ 40″	0.89293530	0.45018502	1.983485118	0.504163097	2.221308896	1.119901973
63° 14′ 50″	0.89295712	0.45014173	1.983724358	0.504102294	2.221522525	1.119874601
63° 15′ 00″	0.89297894	0.45009844	1.983963644	0.504041494	2.221736200	1.119847234
63° 15′ 10″	0.89300076	0.45005515	1.984202977	0.503980697	2.221949921	1.119819871
63° 15′ 20″	0.89302258	0.45001185	1.984442355	0.503919903	2.222163689	1.119792512
63° 15′ 30″	0.89304440	0.44996856	1.984681780	0.503859112	2.222377503	1.119765156
63° 15′ 40″	0.89306621	0.44992526	1.984921251	0.503798324	2.222591364	1.119737805
63° 15′ 50″	0.89308802	0.44988196	1.985160767	0.503737539	2.222805271	1.119710457
63° 16′ 00″	0.89310983	0.44983866	1.985400330	0.503676757	2.223019224	1.119683114
63° 16′ 10″	0.89313164	0.44979537	1.985639939	0.503615978	2.223233224	1.119655774
63° 16′ 20″	0.89315345	0.44975206	1.985879594	0.503555202	2.223447270	1.119628439
63° 16′ 30″	0.89317525	0.44970876	1.986119296	0.503494429	2.223661363	1.119601107
63° 16′ 40″	0.89319705	0.44966546	1.986359043	0.503433658	2.223875502	1.119573780
63° 16′ 50″	0.89321885	0.44962216	1.986598837	0.503372891	2.224089688	1.119546456
63° 17′ 00″	0.89324065	0.44957885	1.986838677	0.503312127	2.224303920	1.119519137
63° 17′ 10″	0.89326244	0.44953554	1.987078563	0.503251366	2.224518198	1.119491821
63° 17′ 20″	0.89328424	0.44949224	1.987318495	0.503190607	2.224732523	1.119464509
63° 17′ 30″	0.89330603	0.44944893	1.987558473	0.503129852	2.224946895	1.119437201
63° 17′ 40″	0.89332782	0.44940562	1.987798498	0.503069099	2.225161313	1.119409898
63° 17′ 50″	0.89334960	0.44936231	1.988038569	0.503008350	2.225375778	1.119382598
63° 18′ 00″	0.89337139	0.44931900	1.988278686	0.502947603	2.225590289	1.119355302
63° 18′ 10″	0.89339317	0.44927569	1.988518850	0.502886860	2.225804847	1.119328010
63° 18′ 20″	0.89341495	0.44923237	1.988759060	0.502826119	2.226019451	1.119300722
63° 18′ 30″	0.89343673	0.44918906	1.988999316	0.502765382	2.226234103	1.119273438
63° 18′ 40″	0.89345851	0.44914574	1.989239619	0.502704647	2.226448800	1.119246158
63° 18′ 50″	0.89348028	0.44910243	1.989479968	0.502643915	2.226663545	1.119218882
63° 19′ 00″	0.89350205	0.44905911	1.989720363	0.502583186	2.226878336	1.119191610
63° 19′ 10″	0.89352382	0.44901579	1.989960805	0.502522461	2.227093174	1.119164342
63° 19′ 20″	0.89354559	0.44897247	1.990201293	0.502461738	2.227308058	1.119137077
63° 19′ 30″ 63° 19′ 40″	0.89356736	0.44892915	1.990441827	0.502401018	2.227522989 2.227737967	1.119109817
63° 19′ 40″ 63° 19′ 50″	0.89358912	0.44888583 0.44884250	1.990682408 1.990923035	0.502340301 0.502279587	2.227737967	1.119082561 1.119055309
=======================================	0.07361000	0.44004230	1.//0743033	0.3044/730/	L.LL173L77L	1.117033307

475 63° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
63° 20′ 00″	0.89363264	0.44879918	1.991163709	0.502218876	2.228168063	1.119028060
63° 20′ 10″	0.89365440	0.44875586	1.991404429	0.502158168	2.228383181	1.119000816
63° 20′ 20″	0.89367615	0.44871253	1.991645196	0.502097463	2.228598346	1.118973575
63° 20′ 30″	0.89369791	0.44866920	1.991886009	0.502036761	2.228813558	1.118946339
63° 20′ 40″	0.89371966	0.44862587	1.992126869	0.501976062	2.229028816	1.118919106
63° 20′ 50″	0.89374141	0.44858254	1.992367776	0.501915365	2.229244121	1.118891878
63° 21′ 00″	0.89376315	0.44853921	1.992608728	0.501854672	2.229459474	1.118864653
63° 21′ 10″	0.89378490	0.44849588	1.992849728	0.501793982	2.229674873	1.118837432
63° 21′ 20″	0.89380664	0.44845255	1.993090774	0.501733294	2.229890319	1.118810216
63° 21′ 30″	0.89382838	0.44840922	1.993331866	0.501672610	2.230105811	1.118783003
63° 21′ 40″	0.89385012	0.44836588	1.993573006	0.501611929	2.230321351	1.118755794
63° 21′ 50″	0.89387186	0.44832255	1.993814191	0.501551250	2.230536938	1.118728589
63° 22′ 00″	0.89389359	0.44827921	1.994055424	0.501490574	2.230752571	1.118701388
63° 22′ 10″	0.89391532	0.44823587	1.994296703	0.501429902	2.230968252	1.118674191
63° 22′ 20″	0.89393705	0.44819253	1.994538029	0.501369232	2.231183979	1.118646998
63° 22′ 30″	0.89395878	0.44814919	1.994779401	0.501308565	2.231399753	1.118619809
63° 22′ 40″	0.89398051	0.44810585	1.995020820	0.501247902	2.231615575	1.118592624
63° 22′ 50″	0.89400223	0.44806251	1.995262286	0.501187241	2.231831443	1.118565443
63° 23′ 00″	0.89402395	0.44801917	1.995503798	0.501126583	2.232047358	1.118538266
63° 23′ 10″	0.89404567	0.44797582	1.995745358	0.501065928	2.232263321	1.118511093
63° 23′ 20″	0.89406739	0.44793248	1.995986964	0.501005276	2.232479330	1.118483923
63° 23′ 30″	0.89408910	0.44788913	1.996228617	0.500944627	2.232695387	1.118456758
63° 23′ 40″	0.89411082	0.44784579	1.996470316	0.500883981	2.232911490	1.118429597
63° 23′ 50″	0.89413253	0.44780244	1.996712062	0.500823338	2.233127641	1.118402439
63° 24′ 00″	0.89415424	0.44775909	1.996953856	0.500762698	2.233343839	1.118375286
63° 24′ 10″	0.89417594	0.44771574	1.997195696	0.500702061	2.233560083	1.118348136
63° 24′ 20″	0.89419765	0.44767239	1.997437582	0.500641426	2.233776375	1.118320990
63° 24′ 30″	0.89421935	0.44762903	1.997679516	0.500580795	2.233992715	1.118293849
63° 24′ 40″	0.89424105	0.44758568	1.997921497	0.500520166	2.234209101	1.118266711
63° 24′ 50″	0.89426275	0.44754233	1.998163524	0.500459541	2.234425534	1.118239577
63° 25′ 00″	0.89428445	0.44749897	1.998405598	0.500398918	2.234642015	1.118212447
63° 25′ 10″	0.89430614	0.44745561	1.998647720	0.500338299	2.234858543	1.118185322
63° 25′ 20″	0.89432783	0.44741226	1.998889888	0.500277682	2.235075118	1.118158200
63° 25′ 30″	0.89434952	0.44736890	1.999132103	0.500217068	2.235291740	1.118131082
63° 25′ 40″	0.89437121	0.44732554	1.999374365	0.500156458	2.235508410	1.118103968
63° 25′ 50″	0.89439290	0.44728218	1.999616674	0.500095850	2.235725127	1.118076857
63° 26′ 00″	0.89441458	0.44723881	1.999859030	0.500035245	2.235941891	1.118049751
63° 26′ 10″	0.89443626	0.44719545	2.000101433	0.499974643	2.236158702	1.118022649
63° 26′ 20″	0.89445794	0.44715209	2.000343883	0.499914044	2.236375561	1.117995551
63° 26′ 30″	0.89447962	0.44710872	2.000586380	0.499853448	2.236592467	1.117968456
63° 26′ 40″	0.89450130	0.44706536	2.000828924	0.499792855	2.236809420	1.117941366
63° 26′ 50″	0.89452297	0.44702199	2.001071515	0.499732265	2.237026421	1.117914280
63° 27′ 00″	0.89454464	0.44697862	2.001314153	0.499671677	2.237243469	1.117887197
63° 27′ 10″	0.89456631	0.44693525	2.001556839	0.499611093	2.237460565	1.117860118
63° 27′ 20″	0.89458798	0.44689188	2.001799571	0.499550512	2.237677708	1.117833044
63° 27′ 30″	0.89460964	0.44684851	2.002042351	0.499489933	2.237894898	1.117805973
63° 27′ 40″	0.89463130	0.44680514	2.002285177	0.499429358	2.238112136	1.117778906
63° 27′ 50″	0.89465296	0.44676176	2.002528051	0.499368785	2.238329421	1.117751843

476 63° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
63° 28′ 00″	0.89467462	0.44671839	2.002770972	0.499308215	2.238546753	1.117724785
63° 28′ 10″	0.89469628	0.44667501	2.003013940	0.499247649	2.238764133	1.117697730
63° 28′ 20″	0.89471793	0.44663164	2.003256956	0.499187085	2.238981561	1.117670679
63° 28′ 30″	0.89473959	0.44658826	2.003500018	0.499126524	2.239199036	1.117643631
63° 28′ 40″	0.89476124	0.44654488	2.003743128	0.499065966	2.239416559	1.117616588
63° 28′ 50″	0.89478288	0.44650150	2.003986285	0.499005411	2.239634129	1.117589549
63° 29′ 00″	0.89480453	0.44645812	2.004229489	0.498944859	2.239851746	1.117562514
63° 29′ 10″	0.89482617	0.44641474	2.004472741	0.498884310	2.240069412	1.117535482
63° 29′ 20″	0.89484782	0.44637136	2.004716040	0.498823764	2.240287125	1.117508455
63° 29′ 30″	0.89486946	0.44632797	2.004959386	0.498763220	2.240504885	1.117481432
63° 29′ 40″	0.89489109	0.44628459	2.005202779	0.498702680	2.240722693	1.117454412
63° 29′ 50″	0.89491273	0.44624120	2.005446220	0.498642143	2.240940548	1.117427396
63° 30′ 00″	0.89493436	0.44619781	2.005689708	0.498581608	2.241158452	1.117400385
63° 30′ 10″	0.89495599	0.44615442	2.005933244	0.498521076	2.241376403	1.117373377
63° 30′ 20″	0.89497762	0.44611104	2.006176827	0.498460548	2.241594401	1.117346373
63° 30′ 30″	0.89499925	0.44606765	2.006420457	0.498400022	2.241812447	1.117319373
63° 30′ 40″	0.89502087	0.44602425	2.006664134	0.498339499	2.242030541	1.117292377
63° 30′ 50″	0.89504250	0.44598086	2.006907859	0.498278979	2.242248683	1.117265385
63° 31′ 00″	0.89506412	0.44593747	2.007151632	0.498218462	2.242466872	1.117238397
63° 31′ 10″	0.89508574	0.44589407	2.007395452	0.498157948	2.242685109	1.117211413
63° 31′ 20″	0.89510735	0.44585068	2.007639319	0.498097437	2.242903394	1.117184433
63° 31′ 30″	0.89512897	0.44580728	2.007883234	0.498036929	2.243121727	1.117157457
63° 31′ 40″	0.89515058	0.44576388	2.008127197	0.497976424	2.243340107	1.117130484
63° 31′ 50″	0.89517219	0.44572049	2.008371206	0.497915922	2.243558536	1.117103516
63° 32′ 00″	0.89519380	0.44567709	2.008615264	0.497855422	2.243777012	1.117076551
63° 32′ 10″	0.89521540	0.44563369	2.008859369	0.497794926	2.243995535	1.117049591
63° 32′ 20″	0.89523701	0.44559028	2.009103521	0.497734432	2.244214107	1.117022634
63° 32′ 30″	0.89525861	0.44554688	2.009347721	0.497673941	2.244432727	1.116995681
63° 32′ 40″	0.89528021	0.44550348	2.009591969	0.497613454	2.244651394	1.116968732
63° 32′ 50″	0.89530181	0.44546007	2.009836264	0.497552969	2.244870109	1.116941788
63° 33′ 00″	0.89532340	0.44541667	2.010080607	0.497492487	2.245088873	1.116914847
63° 33′ 10″	0.89534500	0.44537326	2.010324997	0.497432008	2.245307684	1.116887910
63° 33′ 20″	0.89536659	0.44532985	2.010569436	0.497371532	2.245526543	1.116860976
63° 33′ 30″	0.89538818	0.44528644	2.010813921	0.497311059	2.245745450	1.116834047
63° 33′ 40″	0.89540976	0.44524303	2.011058455	0.497250588	2.245964405	1.116807122
63° 33′ 50″	0.89543135	0.44519962	2.011303036	0.497190121	2.246183408	1.116780201
63° 34′ 00″	0.89545293	0.44515621	2.011547665	0.497129657	2.246402459	1.116753283
63° 34′ 10″	0.89547451	0.44511279	2.011792341	0.497069195	2.246621558	1.116726370
63° 34′ 20″	0.89549609	0.44506938	2.012037066	0.497008737	2.246840705	1.116699460
63° 34′ 30″	0.89551767	0.44502596	2.012281838	0.496948281	2.247059900	1.116672554
63° 34′ 40″	0.89553924	0.44498255	2.012526657	0.496887828	2.247279143	1.116645653
63° 34′ 50″	0.89556081	0.44493913	2.012771525	0.496827378	2.247498434	1.116618755
63° 35′ 00″	0.89558238	0.44489571	2.013016440	0.496766931	2.247717773	1.116591861
63° 35′ 10″	0.89560395	0.44485229	2.013261404	0.496706487	2.247937161	1.116564971
63° 35′ 20″	0.89562552	0.44480887	2.013506415	0.496646046	2.248156596	1.116538085
63° 35′ 30″	0.89564708	0.44476545	2.013751473	0.496585608	2.248376080	1.116511203
63° 35′ 40″ 63° 35′ 50″	0.89566864	0.44472203	2.013996580	0.496525173	2.248595612	1.116484325
<u> </u>	0.07367020	0.44467860	2.014241735	0.496464740	2.248815192	1.116457450

477 63° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
63° 36′ 00″	0.89571176	0.44463518	2.014486937	0.496404311	2.249034820	1.116430580
63° 36′ 10″	0.89573332	0.44459175	2.014732187	0.496343884	2.249254496	1.116403714
63° 36′ 20″	0.89575487	0.44454833	2.014977486	0.496283461	2.249474220	1.116376851
63° 36′ 30″	0.89577642	0.44450490	2.015222832	0.496223040	2.249693993	1.116349992
63° 36′ 40″	0.89579797	0.44446147	2.015468226	0.496162622	2.249913814	1.116323138
63° 36′ 50″	0.89581952	0.44441804	2.015713668	0.496102207	2.250133683	1.116296287
63° 37′ 00″	0.89584106	0.44437461	2.015959158	0.496041795	2.250353601	1.116269440
63° 37′ 10″	0.89586260	0.44433118	2.016204696	0.495981386	2.250573566	1.116242597
63° 37′ 20″	0.89588415	0.44428774	2.016450282	0.495920980	2.250793580	1.116215758
63° 37′ 30″	0.89590568	0.44424431	2.016695917	0.495860577	2.251013643	1.116188923
63° 37′ 40″	0.89592722	0.44420087	2.016941599	0.495800176	2.251233753	1.116162092
63° 37′ 50″	0.89594875	0.44415744	2.017187329	0.495739779	2.251453912	1.116135264
63° 38′ 00″	0.89597029	0.44411400	2.017433107	0.495679384	2.251674120	1.116108441
63° 38′ 10″	0.89599182	0.44407056	2.017678933	0.495618992	2.251894376	1.116081621
63° 38′ 20″	0.89601335	0.44402712	2.017924808	0.495558604	2.252114680	1.116054806
63° 38′ 30″	0.89603487	0.44398368	2.018170730	0.495498218	2.252335032	1.116027994
63° 38′ 40″	0.89605640	0.44394024	2.018416701	0.495437835	2.252555433	1.116001186
63° 38′ 50″	0.89607792	0.44389680	2.018662720	0.495377455	2.252775883	1.115974383
63° 39′ 00″	0.89609944	0.44385335	2.018908787	0.495317077	2.252996380	1.115947583
63° 39′ 10″	0.89612095	0.44380991	2.019154902	0.495256703	2.253216927	1.115920787
63° 39′ 20″	0.89614247	0.44376646	2.019401065	0.495196332	2.253437521	1.115893995
63° 39′ 30″	0.89616398	0.44372302	2.019647277	0.495135963	2.253658165	1.115867206
63° 39′ 40″	0.89618549	0.44367957	2.019893537	0.495075598	2.253878857	1.115840422
63° 39′ 50″	0.89620700	0.44363612	2.020139845	0.495015235	2.254099597	1.115813642
63° 40′ 00″	0.89622851	0.44359267	2.020386201	0.494954875	2.254320386	1.115786865
63° 40′ 10″	0.89625002	0.44354922	2.020632606	0.494894518	2.254541223	1.115760093
63° 40′ 20″	0.89627152	0.44350577	2.020879058	0.494834164	2.254762109	1.115733324
63° 40′ 30″	0.89629302	0.44346231	2.021125559	0.494773813	2.254983044	1.115706559
63° 40′ 40″	0.89631452	0.44341886	2.021372109	0.494713465	2.255204027	1.115679798
63° 40′ 50″	0.89633601	0.44337541	2.021618707	0.494653120	2.255425059	1.115653041
63° 41′ 00″	0.89635751	0.44333195	2.021865353	0.494592777	2.255646139	1.115626288
63° 41′ 10″	0.89637900	0.44328849	2.022112047	0.494532438	2.255867268	1.115599539
63° 41′ 20″	0.89640049	0.44324503	2.022358790	0.494472101	2.256088446	1.115572794
63° 41′ 30″	0.89642198	0.44320157	2.022605581	0.494411767	2.256309672	1.115546053
63° 41′ 40″	0.89644346	0.44315811	2.022852421	0.494351436	2.256530947	1.115519315
63° 41′ 50″	0.89646495	0.44311465	2.023099309	0.494291109	2.256752271	1.115492582
63° 42′ 00″	0.89648643	0.44307119	2.023346245	0.494230783	2.256973644	1.115465852
63° 42′ 10″	0.89650791	0.44302773	2.023593230	0.494170461	2.257195065	1.115439126
63° 42′ 20″	0.89652939	0.44298426	2.023840264	0.494110142	2.257416535	1.115412405
63° 42′ 30″	0.89655086	0.44294080	2.024087346	0.494049826	2.257638054	1.115385687
63° 42′ 40″	0.89657234	0.44289733	2.024334476	0.493989512	2.257859622	1.115358973
63° 42′ 50″	0.89659381	0.44285386	2.024581655	0.493929201	2.258081238	1.115332263
63° 43′ 00″	0.89661528	0.44281039	2.024828882	0.493868894	2.258302903	1.115305556
63° 43′ 10″	0.89663674	0.44276693	2.025076158	0.493808589	2.258524617	1.115278854
63° 43′ 20″	0.89665821	0.44272345	2.025323483	0.493748287	2.258746380	1.115252156
63° 43′ 30″	0.89667967	0.44267998	2.025570856	0.493687988	2.258968192	1.115225461
63° 43′ 40″	0.89670113	0.44263651	2.025818277	0.493627692	2.259190052	1.115198771
63° 43′ 50″	0.89672259	0.44259304	2.026065748	0.493567398	2.259411962	1.115172084

478 63° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
63° 44′ 00″	0.89674405	0.44254956	2.026313267	0.493507108	2.259633920	1.115145401
63° 44′ 10″	0.89676550	0.44250609	2.026560834	0.493446820	2.259855928	1.115118722
63° 44′ 20″	0.89678695	0.44246261	2.026808450	0.493386536	2.260077984	1.115092047
63° 44′ 30″	0.89680840	0.44241913	2.027056115	0.493326254	2.260300089	1.115065376
63° 44′ 40″	0.89682985	0.44237565	2.027303829	0.493265975	2.260522244	1.115038709
63° 44′ 50″	0.89685130	0.44233217	2.027551591	0.493205699	2.260744447	1.115012046
63° 45′ 00″	0.89687274	0.44228869	2.027799402	0.493145426	2.260966699	1.114985386
63° 45′ 10″	0.89689418	0.44224521	2.028047262	0.493085156	2.261189000	1.114958731
63° 45′ 20″	0.89691562	0.44220172	2.028295170	0.493024888	2.261411351	1.114932079
63° 45′ 30″	0.89693706	0.44215824	2.028543127	0.492964624	2.261633750	1.114905431
63° 45′ 40″	0.89695850	0.44211476	2.028791133	0.492904362	2.261856198	1.114878787
63° 45′ 50″	0.89697993	0.44207127	2.029039188	0.492844104	2.262078696	1.114852147
63° 46′ 00″	0.89700136	0.44202778	2.029287292	0.492783848	2.262301243	1.114825511
63° 46′ 10″	0.89702279	0.44198429	2.029535444	0.492723595	2.262523838	1.114798879
63° 46′ 20″	0.89704422	0.44194080	2.029783645	0.492663345	2.262746483	1.114772251
63° 46′ 30″	0.89706564	0.44189731	2.030031895	0.492603098	2.262969177	1.114745627
63° 46′ 40″	0.89708706	0.44185382	2.030280194	0.492542853	2.263191920	1.114719006
63° 46′ 50″	0.89710848	0.44181033	2.030528542	0.492482612	2.263414712	1.114692389
63° 47′ 00″	0.89712990	0.44176684	2.030776939	0.492422373	2.263637554	1.114665777
63° 47′ 10″	0.89715132	0.44172334	2.031025384	0.492362138	2.263860445	1.114639168
63° 47′ 20″	0.89717273	0.44167985	2.031273879	0.492301905	2.264083384	1.114612563
63° 47′ 30″	0.89719415	0.44163635	2.031522423	0.492241675	2.264306374	1.114585962
63° 47′ 40″	0.89721556	0.44159285	2.031771015	0.492181448	2.264529412	1.114559365
63° 47′ 50″	0.89723696	0.44154935	2.032019657	0.492121224	2.264752500	1.114532772
63° 48′ 00″	0.89725837	0.44150585	2.032268347	0.492061002	2.264975637	1.114506182
63° 48′ 10″	0.89727977	0.44146235	2.032517087	0.492000784	2.265198823	1.114479597
63° 48′ 20″	0.89730118	0.44141885	2.032765875	0.491940568	2.265422058	1.114453015
63° 48′ 30″	0.89732257	0.44137535	2.033014713	0.491880356	2.265645343	1.114426437
63° 48′ 40″	0.89734397	0.44133184	2.033263599	0.491820146	2.265868678	1.114399864
63° 48′ 50″	0.89736537	0.44128834	2.033512535	0.491759939	2.266092061	1.114373294
63° 49′ 00″	0.89738676	0.44124483	2.033761520	0.491699735	2.266315494	1.114346728
63° 49′ 10″	0.89740815	0.44120133	2.034010554	0.491639534	2.266538976	1.114320165
63° 49′ 20″ 63° 49′ 30″	0.89742954	0.44115782	2.034259637	0.491579335	2.266762508	1.114293607 1.114267053
63° 49′ 40″	0.89745093	0.44111431 0.44107080	2.034508769 2.034757950	0.491519140 0.491458947	2.266986089 2.267209720	1.114240502
63° 49′ 50″	0.89747231	0.44107080	2.034737730	0.491398758		
63° 50′ 00″	0.89751508	0.44102729	2.035256460	0.491338571	2.267433400 2.267657130	1.114213956 1.114187413
63° 50′ 10″	0.89753645	0.44094026	2.035256460	0.491278387	2.267880909	1.114160874
63° 50′ 20″	0.89755783	0.44089675	2.035755167	0.491218206	2.268104737	1.114134339
63° 50′ 30″	0.87757783	0.44085323	2.036004594	0.471218208	2.268328615	1.114107808
63° 50′ 40″	0.87757720	0.44080972	2.036254071	0.491097852	2.268552543	1.114081281
63° 50′ 50″	0.87760038	0.44076620	2.036503597	0.491037679	2.268776520	1.114054757
63° 51′ 00″	0.89764331	0.44072268	2.036753172	0.490977510	2.269000547	1.114028238
63° 51′ 10″	0.89766468	0.44067916	2.037002796	0.490917343	2.269224623	1.114001722
63° 51′ 20″	0.89768604	0.44063564	2.037252470	0.490857179	2.269448749	1.113975211
63° 51′ 30″	0.89770741	0.44059212	2.037502193	0.490797018	2.269672925	1.113948703
63° 51′ 40″	0.89772876	0.44054859	2.037751965	0.490736860	2.269897150	1.113910703
63° 51′ 50″	0.89775012	0.44050507	2.038001787	0.490676704	2.270121425	1.113895699
	1 3.3	3				

479 63° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
63° 52′ 00″	0.89777148	0.44046155	2.038251658	0.490616552	2.270345749	1.113869203
63° 52′ 10″	0.89779283	0.44041802	2.038501578	0.490556402	2.270570123	1.113842710
63° 52′ 20″	0.89781418	0.44037449	2.038751548	0.490496255	2.270794547	1.113816222
63° 52′ 30″	0.89783553	0.44033097	2.039001567	0.490436112	2.271019020	1.113789738
63° 52′ 40″	0.89785688	0.44028744	2.039251636	0.490375970	2.271243544	1.113763257
63° 52′ 50″	0.89787822	0.44024391	2.039501754	0.490315832	2.271468117	1.113736780
63° 53′ 00″	0.89789956	0.44020038	2.039751922	0.490255697	2.271692739	1.113710307
63° 53′ 10″	0.89792091	0.44015684	2.040002139	0.490195564	2.271917412	1.113683838
63° 53′ 20″	0.89794224	0.44011331	2.040252405	0.490135435	2.272142134	1.113657373
63° 53′ 30″	0.89796358	0.44006978	2.040502722	0.490075308	2.272366906	1.113630912
63° 53′ 40″	0.89798491	0.44002624	2.040753087	0.490015184	2.272591728	1.113604454
63° 53′ 50″	0.89800625	0.43998271	2.041003502	0.489955063	2.272816600	1.113578001
63° 54′ 00″	0.89802758	0.43993917	2.041253967	0.489894945	2.273041521	1.113551551
63° 54′ 10″	0.89804890	0.43989563	2.041504481	0.489834830	2.273266493	1.113525105
63° 54′ 20″	0.89807023	0.43985209	2.041755045	0.489774717	2.273491514	1.113498664
63° 54′ 30″	0.89809155	0.43980855	2.042005659	0.489714608	2.273716585	1.113472225
63° 54′ 40″	0.89811287	0.43976501	2.042256322	0.489654501	2.273941707	1.113445791
63° 54′ 50″	0.89813419	0.43972147	2.042507035	0.489594397	2.274166878	1.113419361
63° 55′ 00″	0.89815551	0.43967793	2.042757797	0.489534296	2.274392099	1.113392935
63° 55′ 10″	0.89817683	0.43963438	2.043008610	0.489474198	2.274617370	1.113366512
63° 55′ 20″	0.89819814	0.43959084	2.043259471	0.489414102	2.274842691	1.113340093
63° 55′ 30″	0.89821945	0.43954729	2.043510383	0.489354010	2.275068062	1.113313679
63° 55′ 40″	0.89824076	0.43950374	2.043761344	0.489293920	2.275293483	1.113287268
63° 55′ 50″	0.89826207	0.43946019	2.044012355	0.489233833	2.275518954	1.113260861
63° 56′ 00″	0.89828337	0.43941664	2.044263416	0.489173749	2.275744475	1.113234457
63° 56′ 10″	0.89830467	0.43937309	2.044514526	0.489113668	2.275970046	1.113208058
63° 56′ 20″	0.89832597	0.43932954	2.044765687	0.489053590	2.276195667	1.113181663
63° 56′ 30″	0.89834727	0.43928599	2.045016897	0.488993515	2.276421338	1.113155271
63° 56′ 40″	0.89836857	0.43924244	2.045268157	0.488933442	2.276647059	1.113128883
63° 56′ 50″	0.89838986	0.43919888	2.045519466	0.488873372	2.276872831	1.113102499
63° 57′ 00″	0.89841115	0.43915533	2.045770826	0.488813306	2.277098652	1.113076119
63° 57′ 10″	0.89843244	0.43911177	2.046022236	0.488753242	2.277324524	1.113049743
63° 57′ 20″	0.89845373	0.43906821	2.046273695	0.488693180	2.277550446	1.113023371
63° 57′ 30″	0.89847502	0.43902465	2.046525204	0.488633122	2.277776418	1.112997003
63° 57′ 40″	0.89849630	0.43898109	2.046776763	0.488573067	2.278002441	1.112970638
63° 57′ 50″ 63° 58′ 00″	0.89851758	0.43893753	2.047028372	0.488513014	2.278228513	1.112944278
63° 58′ 10″	0.89856014	0.43889397	2.047280031	0.488452964 0.488392917	2.278454636 2.278680809	1.112917921
63° 58′ 20″		0.43885041 0.43880684	2.047531740			1.112891568 1.112865219
63° 58′ 30″	0.89858141	0.43876328	2.047783499 2.048035308	0.488332873 0.488272832	2.278907032 2.279133306	1.112838874
63° 58′ 40″	0.89862396	0.43871971	2.048287167	0.488212794	2.279359629	1.112812532
63° 58′ 50″	0.89864522	0.43867614	2.048539076	0.488152758	2.279586004	1.112786195
63° 59′ 00″	0.89866649	0.43863258	2.048337076	0.488092725	2.279812428	1.112759861
63° 59′ 10″	0.87868776	0.43858901	2.049043045	0.488032695	2.280038903	1.112737661
63° 59′ 20″	0.878870702	0.43854544	2.049043043	0.487972668	2.280265428	1.112733331
63° 59′ 30″	0.87870702	0.43850187	2.047273104	0.487912644	2.280492004	1.112680883
63° 59′ 40″	0.87875028	0.43845829	2.047797213	0.487852623	2.280472004	1.112654565
63° 59′ 50″	0.89877279	0.43841472	2.050051582	0.487792604	2.280945306	1.112628251
	0.07011217	0.13011772	2.030031302	3.10///2004	_,_00/ 10000	1,112020231

480 **63° 59′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
64° 00′ 00″	0.89879405	0.43837115	2.050303842	0.487732589	2.281172033	1.112601940
64° 00′ 10″	0.89881530	0.43832757	2.050556151	0.487672576	2.281398810	1.112575634
64° 00′ 20″	0.89883655	0.43828400	2.050808511	0.487612566	2.281625638	1.112549331
64° 00′ 30″	0.89885780	0.43824042	2.051060922	0.487552559	2.281852516	1.112523032
64° 00′ 40″	0.89887904	0.43819684	2.051313382	0.487492554	2.282079444	1.112496737
64° 00′ 50″	0.89890028	0.43815326	2.051565892	0.487432553	2.282306424	1.112470446
64° 01′ 00″	0.89892153	0.43810968	2.051818453	0.487372554	2.282533453	1.112444159
64° 01′ 10″	0.89894276	0.43806610	2.052071064	0.487312558	2.282760533	1.112417875
64° 01′ 20″	0.89896400	0.43802252	2.052323726	0.487252565	2.282987664	1.112391596
64° 01′ 30″	0.89898524	0.43797893	2.052576437	0.487192575	2.283214846	1.112365320
64° 01′ 40″	0.89900647	0.43793535	2.052829199	0.487132588	2.283442077	1.112339048
64° 01′ 50″	0.89902770	0.43789176	2.053082011	0.487072603	2.283669360	1.112312780
64° 02′ 00″	0.89904893	0.43784818	2.053334874	0.487012622	2.283896693	1.112286516
64° 02′ 10″	0.89907015	0.43780459	2.053587787	0.486952643	2.284124077	1.112260256
64° 02′ 20″	0.89909138	0.43776100	2.053840750	0.486892667	2.284351511	1.112233999
64° 02′ 30″	0.89911260	0.43771741	2.054093764	0.486832694	2.284578996	1.112207747
64° 02′ 40″	0.89913382	0.43767382	2.054346828	0.486772723	2.284806532	1.112181498
64° 02′ 50″	0.89915504	0.43763023	2.054599942	0.486712756	2.285034119	1.112155253
64° 03′ 00″	0.89917626	0.43758663	2.054853107	0.486652791	2.285261756	1.112129012
64° 03′ 10″	0.89919747	0.43754304	2.055106323	0.486592829	2.285489444	1.112102775
64° 03′ 20″	0.89921868	0.43749945	2.055359588	0.486532870	2.285717182	1.112076541
64° 03′ 30″	0.89923989	0.43745585	2.055612905	0.486472914	2.285944972	1.112050312
64° 03′ 40″	0.89926110	0.43741225	2.055866272	0.486412961	2.286172812	1.112024086
64° 03′ 50″	0.89928230	0.43736865	2.056119689	0.486353010	2.286400703	1.111997864
64° 04′ 00″	0.89930351	0.43732506	2.056373157	0.486293062	2.286628645	1.111971647
64° 04′ 10″	0.89932471	0.43728146	2.056626675	0.486233118	2.286856638	1.111945432
64° 04′ 20″	0.89934591	0.43723785	2.056880244	0.486173176	2.287084681	1.111919222
64° 04′ 30″	0.89936710	0.43719425	2.057133864	0.486113236	2.287312775	1.111893016
64° 04′ 40″	0.89938830	0.43715065	2.057387534	0.486053300	2.287540921	1.111866813
64° 04′ 50″	0.89940949	0.43710705	2.057641254	0.485993366	2.287769117	1.111840615
64° 05′ 00″	0.89943068	0.43706344	2.057895026	0.485933436	2.287997364	1.111814420
64° 05′ 10″	0.89945187	0.43701983	2.058148848	0.485873508	2.288225662	1.111788229
64° 05′ 20″	0.89947306	0.43697623	2.058402720	0.485813583	2.288454011	1.111762042
64° 05′ 30″	0.89949424	0.43693262	2.058656644	0.485753660	2.288682411	1.111735858
64° 05′ 40″	0.89951542	0.43688901	2.058910618	0.485693741	2.288910861	1.111709679
64° 05′ 50″	0.89953660	0.43684540	2.059164642	0.485633824	2.289139363	1.111683503
64° 06′ 00″	0.89955778	0.43680179	2.059418718	0.485573910	2.289367916	1.111657331
64° 06′ 10″	0.89957895	0.43675818	2.059672844	0.485513999	2.289596520	1.111631163
64° 06′ 20″	0.89960013	0.43671456	2.059927021	0.485454091	2.289825175	1.111604999
64° 06′ 30″	0.89962130	0.43667095	2.060181249	0.485394186	2.290053881	1.111578839
64° 06′ 40″	0.89964247	0.43662733	2.060435527	0.485334283	2.290282638	1.111552683
64° 06′ 50″	0.89966364	0.43658372	2.060689857	0.485274384	2.290511446	1.111526530
64° 07′ 00″	0.89968480	0.43654010	2.060944237	0.485214487	2.290740305	1.111500382
64° 07′ 10″	0.89970596	0.43649648	2.061198668	0.485154593	2.290969216	1.111474237
64° 07′ 20″	0.89972713	0.43645286	2.061453149	0.485094701	2.291198177	1.111448096
64° 07′ 30″	0.89974828	0.43640924	2.061707682	0.485034813	2.291427190	1.111421958
64° 07′ 40″	0.89976944	0.43636562	2.061962266	0.484974927	2.291656254	1.111395825
64° 07′ 50″	0.89979060	0.43632200	2.062216900	0.484915045	2.291885369	1.111369696

481 **64° 07′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
64° 08′ 00″	0.89981175	0.43627837	2.062471586	0.484855165	2.292114535	1.111343570
64° 08′ 10″	0.89983290	0.43623475	2.062726322	0.484795287	2.292343752	1.111317448
64° 08′ 20″	0.89985405	0.43619112	2.062981109	0.484735413	2.292573021	1.111291330
64° 08′ 30″	0.89987519	0.43614750	2.063235948	0.484675541	2.292802341	1.111265216
64° 08′ 40″	0.89989634	0.43610387	2.063490837	0.484615673	2.293031712	1.111239106
64° 08′ 50″	0.89991748	0.43606024	2.063745777	0.484555807	2.293261135	1.111212999
64° 09′ 00″	0.89993862	0.43601661	2.064000768	0.484495944	2.293490609	1.111186897
64° 09′ 10″	0.89995976	0.43597298	2.064255811	0.484436083	2.293720134	1.111160798
64° 09′ 20″	0.89998089	0.43592935	2.064510904	0.484376226	2.293949710	1.111134703
64° 09′ 30″	0.90000202	0.43588571	2.064766049	0.484316371	2.294179338	1.111108612
64° 09′ 40″	0.90002316	0.43584208	2.065021244	0.484256519	2.294409017	1.111082525
64° 09′ 50″	0.90004428	0.43579845	2.065276491	0.484196670	2.294638748	1.111056441
64° 10′ 00″	0.90006541	0.43575481	2.065531788	0.484136824	2.294868530	1.111030362
64° 10′ 10″	0.90008654	0.43571117	2.065787137	0.484076981	2.295098363	1.111004286
64° 10′ 20″	0.90010766	0.43566754	2.066042537	0.484017140	2.295328248	1.110978214
64° 10′ 30″	0.90012878	0.43562390	2.066297989	0.483957302	2.295558184	1.110952146
64° 10′ 40″	0.90014990	0.43558026	2.066553491	0.483897467	2.295788172	1.110926082
64° 10′ 50″	0.90017102	0.43553662	2.066809045	0.483837635	2.296018211	1.110900021
64° 11′ 00″	0.90019213	0.43549297	2.067064649	0.483777806	2.296248302	1.110873965
64° 11′ 10″	0.90021324	0.43544933	2.067320306	0.483717979	2.296478444	1.110847912
64° 11′ 20″	0.90023435	0.43540569	2.067576013	0.483658155	2.296708638	1.110821863
64° 11′ 30″	0.90025546	0.43536204	2.067831771	0.483598334	2.296938884	1.110795818
64° 11′ 40″	0.90027657	0.43531839	2.068087581	0.483538516	2.297169180	1.110769777
64° 11′ 50″	0.90029767	0.43527475	2.068343442	0.483478701	2.297399529	1.110743739
64° 12′ 00″	0.90031877	0.43523110	2.068599355	0.483418888	2.297629929	1.110717706
64° 12′ 10″	0.90033987	0.43518745	2.068855319	0.483359078	2.297860381	1.110691676
64° 12′ 20″	0.90036097	0.43514380	2.069111334	0.483299271	2.298090884	1.110665650
64° 12′ 30″	0.90038206	0.43510015	2.069367400	0.483239467	2.298321439	1.110639628
64° 12′ 40″	0.90040316	0.43505650	2.069623518	0.483179666	2.298552046	1.110613609
64° 12′ 50″	0.90042425	0.43501284	2.069879688	0.483119867	2.298782704	1.110587595
64° 13′ 00″	0.90044534	0.43496919	2.070135908	0.483060072	2.299013414	1.110561584
64° 13′ 10″	0.90046642	0.43492553	2.070392181	0.483000279	2.299244176	1.110535578
64° 13′ 20″ 64° 13′ 30″	0.90048751	0.43488188	2.070648504	0.482940488	2.299474990	1.110509575
64° 13′ 40″	0.90050859	0.43483822 0.43479456	2.070904879 2.071161306	0.482880701 0.482820917	2.299705855 2.299936772	1.110483576 1.110457580
64° 13′ 50″	0.90055075	0.43475090	2.071161306		2.300167741	1.110437580
64° 14′ 00″	0.90057183	0.43473070	2.071417764	0.482761135 0.482701356	2.300167741	1.110431369
64° 14′ 10″	0.90059290	0.43476724	2.071930895	0.482701336	2.300378781	1.110379617
64° 14′ 20″	0.90061397	0.43461992	2.071730873	0.482581806	2.300827834	1.110377617
64° 14′ 30″	0.90063504	0.43457625	2.072444212	0.482522036	2.301092134	1.110333637
64° 14′ 40″	0.90065611	0.43453259	2.072700948	0.482462268	2.301323362	1.110327661
64° 14′ 50″	0.90067718	0.43448892	2.072757735	0.482402503	2.301554642	1.110275720
64° 15′ 00″	0.90069824	0.43444526	2.073214574	0.482342741	2.301785974	1.110273720
64° 15′ 10″	0.90071930	0.43440159	2.073471465	0.482282981	2.302017358	1.110247730
64° 15′ 20″	0.90074036	0.43435792	2.073728407	0.482223225	2.302248793	1.110197838
64° 15′ 30″	0.90076142	0.43431425	2.073985401	0.482163471	2.302480281	1.110171884
64° 15′ 40″	0.90078247	0.43427058	2.074242447	0.482103720	2.302711821	1.110145935
64° 15′ 50″	0.90080353	0.43422691	2.074499544	0.482043972	2.302943412	1.110119989
	1 2 1100000	3				

482 64° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
64° 16′ 00″	0.90082458	0.43418324	2.074756694	0.481984226	2.303175056	1.110094048
64° 16′ 10″	0.90084562	0.43413956	2.075013894	0.481924484	2.303406751	1.110068110
64° 16′ 20″	0.90086667	0.43409589	2.075271147	0.481864744	2.303638499	1.110042176
64° 16′ 30″	0.90088772	0.43405221	2.075528451	0.481805007	2.303870299	1.110016245
64° 16′ 40″	0.90090876	0.43400854	2.075785808	0.481745273	2.304102150	1.109990319
64° 16′ 50″	0.90092980	0.43396486	2.076043216	0.481685541	2.304334054	1.109964396
64° 17′ 00″	0.90095084	0.43392118	2.076300675	0.481625813	2.304566010	1.109938477
64° 17′ 10″	0.90097187	0.43387750	2.076558187	0.481566087	2.304798018	1.109912562
64° 17′ 20″	0.90099291	0.43383382	2.076815751	0.481506364	2.305030078	1.109886651
64° 17′ 30″	0.90101394	0.43379014	2.077073366	0.481446643	2.305262191	1.109860744
64° 17′ 40″	0.90103497	0.43374645	2.077331033	0.481386926	2.305494355	1.109834840
64° 17′ 50″	0.90105600	0.43370277	2.077588752	0.481327211	2.305726572	1.109808940
64° 18′ 00″	0.90107702	0.43365908	2.077846524	0.481267499	2.305958841	1.109783044
64° 18′ 10″	0.90109804	0.43361540	2.078104347	0.481207790	2.306191162	1.109757152
64° 18′ 20″	0.90111907	0.43357171	2.078362222	0.481148084	2.306423535	1.109731264
64° 18′ 30″	0.90114008	0.43352802	2.078620149	0.481088380	2.306655961	1.109705380
64° 18′ 40″	0.90116110	0.43348433	2.078878128	0.481028679	2.306888439	1.109679499
64° 18′ 50″	0.90118212	0.43344064	2.079136158	0.480968981	2.307120969	1.109653622
64° 19′ 00″	0.90120313	0.43339695	2.079394241	0.480909286	2.307353551	1.109627749
64° 19′ 10″	0.90122414	0.43335326	2.079652377	0.480849594	2.307586186	1.109601880
64° 19′ 20″	0.90124515	0.43330957	2.079910564	0.480789904	2.307818873	1.109576014
64° 19′ 30″	0.90126616	0.43326587	2.080168803	0.480730217	2.308051613	1.109550153
64° 19′ 40″	0.90128716	0.43322218	2.080427094	0.480670533	2.308284405	1.109524295
64° 19′ 50″	0.90130816	0.43317848	2.080685437	0.480610852	2.308517249	1.109498441
64° 20′ 00″	0.90132916	0.43313479	2.080943833	0.480551173	2.308750146	1.109472591
64° 20′ 10″	0.90135016	0.43309109	2.081202280	0.480491497	2.308983095	1.109446745
64° 20′ 20″	0.90137116	0.43304739	2.081460780	0.480431824	2.309216096	1.109420902
64° 20′ 30″	0.90139215	0.43300369	2.081719332	0.480372154	2.309449150	1.109395063
64° 20′ 40″	0.90141314	0.43295999	2.081977936	0.480312487	2.309682257	1.109369228
64° 20′ 50″	0.90143413	0.43291628	2.082236593	0.480252822	2.309915416	1.109343397
64° 21′ 00″	0.90145512	0.43287258	2.082495301	0.480193160	2.310148627	1.109317570
64° 21′ 10″	0.90147610	0.43282888	2.082754062	0.480133501	2.310381891	1.109291747
64° 21′ 20″	0.90149709	0.43278517	2.083012875	0.480073845	2.310615208	1.109265927
64° 21′ 30″	0.90151807	0.43274147	2.083271741	0.480014191	2.310848577	1.109240111
64° 21′ 40″	0.90153905	0.43269776	2.083530658	0.479954541	2.311081999	1.109214299
64° 21′ 50″	0.90156002	0.43265405	2.083789628	0.479894893	2.311315473	1.109188491
64° 22′ 00″	0.90158100	0.43261034	2.084048651	0.479835247	2.311549000	1.109162686
64° 22′ 10″	0.90160197	0.43256663	2.084307725	0.479775605	2.311782579	1.109136886
64° 22′ 20″	0.90162294	0.43252292	2.084566852	0.479715965	2.312016211	1.109111089
64° 22′ 30″	0.90164391	0.43247921	2.084826032	0.479656329	2.312249896	1.109085296
64° 22′ 40″	0.90166487	0.43243549	2.085085264	0.479596694	2.312483634	1.109059507
64° 22′ 50″	0.90168584	0.43239178	2.085344548	0.479537063	2.312717424	1.109033721
64° 23′ 00″	0.90170680	0.43234806	2.085603885	0.479477435	2.312951267	1.109007940
64° 23′ 10″	0.90172776	0.43230435	2.085863274	0.479417809	2.313185163	1.108982162
64° 23′ 20″	0.90174872	0.43226063	2.086122715	0.479358186	2.313419111	1.108956388
64° 23′ 30″	0.90176967	0.43221691	2.086382209	0.479298565	2.313653112	1.108930618
64° 23′ 40″ 64° 23′ 50″	0.90179063 0.90181158	0.43217319	2.086641756	0.479238948	2.313887166	1.108904851
04 25 50 ···	0.70101138	0.43212947	2.086901355	0.479179333	2.314121273	1.108879089

483 64° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
64° 24′ 00″	0.90183253	0.43208575	2.087161007	0.479119721	2.314355432	1.108853330
64° 24′ 10″	0.90185347	0.43204203	2.087420711	0.479060112	2.314589645	1.108827575
64° 24′ 20″	0.90187442	0.43199830	2.087680468	0.479000506	2.314823910	1.108801824
64° 24′ 30″	0.90189536	0.43195458	2.087940277	0.478940902	2.315058228	1.108776077
64° 24′ 40″	0.90191630	0.43191085	2.088200139	0.478881301	2.315292599	1.108750333
64° 24′ 50″	0.90193724	0.43186713	2.088460053	0.478821703	2.315527023	1.108724593
64° 25′ 00″	0.90195818	0.43182340	2.088720021	0.478762108	2.315761500	1.108698857
64° 25′ 10″	0.90197911	0.43177967	2.088980040	0.478702515	2.315996030	1.108673125
64° 25′ 20″	0.90200004	0.43173594	2.089240113	0.478642926	2.316230612	1.108647397
64° 25′ 30″	0.90202097	0.43169221	2.089500238	0.478583339	2.316465248	1.108621672
64° 25′ 40″	0.90204190	0.43164848	2.089760416	0.478523754	2.316699937	1.108595951
64° 25′ 50″	0.90206283	0.43160474	2.090020647	0.478464173	2.316934678	1.108570234
64° 26′ 00″	0.90208375	0.43156101	2.090280930	0.478404594	2.317169473	1.108544521
64° 26′ 10″	0.90210467	0.43151728	2.090541266	0.478345018	2.317404321	1.108518812
64° 26′ 20″	0.90212559	0.43147354	2.090801655	0.478285445	2.317639222	1.108493106
64° 26′ 30″	0.90214651	0.43142980	2.091062097	0.478225875	2.317874175	1.108467405
64° 26′ 40″	0.90216742	0.43138607	2.091322591	0.478166307	2.318109182	1.108441707
64° 26′ 50″	0.90218834	0.43134233	2.091583139	0.478106742	2.318344242	1.108416012
64° 27′ 00″	0.90220925	0.43129859	2.091843739	0.478047180	2.318579356	1.108390322
64° 27′ 10″	0.90223016	0.43125485	2.092104392	0.477987620	2.318814522	1.108364636
64° 27′ 20″	0.90225106	0.43121110	2.092365098	0.477928064	2.319049741	1.108338953
64° 27′ 30″	0.90227197	0.43116736	2.092625857	0.477868510	2.319285014	1.108313274
64° 27′ 40″	0.90229287	0.43112362	2.092886669	0.477808959	2.319520340	1.108287599
64° 27′ 50″	0.90231377	0.43107987	2.093147533	0.477749410	2.319755719	1.108261927
64° 28′ 00″	0.90233467	0.43103613	2.093408451	0.477689865	2.319991151	1.108236260
64° 28′ 10″	0.90235557	0.43099238	2.093669422	0.477630322	2.320226637	1.108210596
64° 28′ 20″	0.90237646	0.43094863	2.093930445	0.477570782	2.320462176	1.108184936
64° 28′ 30″	0.90239735	0.43090488	2.094191522	0.477511245	2.320697768	1.108159279
64° 28′ 40″	0.90241824	0.43086113	2.094452651	0.477451710	2.320933413	1.108133627
64° 28′ 50″	0.90243913	0.43081738	2.094713834	0.477392178	2.321169112	1.108107978
64° 29′ 00″	0.90246002	0.43077363	2.094975070	0.477332649	2.321404864	1.108082334
64° 29′ 10″	0.90248090	0.43072988	2.095236359	0.477273123	2.321640669	1.108056693
64° 29′ 20″	0.90250178	0.43068612	2.095497700	0.477213599	2.321876528	1.108031055
64° 29′ 30″	0.90252266	0.43064237	2.095759095	0.477154079	2.322112440	1.108005422
64° 29′ 40″	0.90254354	0.43059861	2.096020543	0.477094561	2.322348406	1.107979792
64° 29′ 50″	0.90256441	0.43055485	2.096282045	0.477035045	2.322584425	1.107954166
64° 30′ 00″	0.90258528	0.43051110	2.096543599	0.476975533	2.322820497	1.107928544
64° 30′ 10″	0.90260616	0.43046734	2.096805207	0.476916023	2.323056623	1.107902926
64° 30′ 20″	0.90262702	0.43042358	2.097066867	0.476856516	2.323292803	1.107877311
64° 30′ 30″	0.90264789	0.43037982	2.097328581	0.476797012	2.323529035	1.107851700
64° 30′ 40″	0.90266875	0.43033605	2.097590349	0.476737510	2.323765322	1.107826094
64° 30′ 50″	0.90268962	0.43029229	2.097852169	0.476678011	2.324001662	1.107800490
64° 31′ 00″	0.90271048	0.43024853	2.098114043	0.476618515	2.324238055	1.107774891
64° 31′ 10″	0.90273133	0.43020476	2.098375970	0.476559022	2.324474502	1.107749295
64° 31′ 20″ 64° 31′ 30″	0.90275219	0.43016100	2.098637950	0.476499532	2.324711003	1.107723704
	0.90277304	0.43011723	2.098899984	0.476440044	2.324947557	1.107698116
64° 31′ 40″ 64° 31′ 50″	0.90279390 0.90281475	0.43007346 0.43002969	2.099162071	0.476380559	2.325184164 2.325420826	1.107672531
04 31 30"	0.702014/3	0.43002767	2.099424211	0.476321076	2.323420826	1.107646951

484 64° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
64° 32′ 00″	0.90283559	0.42998592	2.099686405	0.476261597	2.325657541	1.107621374
64° 32′ 10″	0.90283539	0.42998392	2.099686405	0.476261597	2.325894310	1.107621374
64° 32′ 20″	0.90287728	0.42994213	2.100210952	0.476202120	2.325674510	1.107570232
64° 32′ 30″	1	0.42787838	2.100210932			
64° 32′ 40″	0.90289812			0.476083175	2.326368008	1.107544667
64° 32′ 50″	0.90291896	0.42981083	2.100735713	0.476023706	2.326604938	1.107519105
64° 33′ 00″	0.90293980	0.42976705	2.100998174	0.475964240	2.326841921 2.327078959	1.107493548 1.107467994
64° 33′ 10″	0.90296063	0.42972328	2.101260688	0.475904777		
64° 33′ 20″	0.90298146	0.42967950	2.101523256	0.475845317	2.327316050	1.107442444
64° 33′ 30″	0.90300230	0.42963572	2.101785877	0.475785859	2.327553195	1.107416897
64° 33′ 40″	0.90302312	0.42959194	2.102048552	0.475726405	2.327790393	1.107391355
64° 33′ 50″	0.90304395	0.42954816	2.102311280	0.475666953	2.328027646	1.107365816
64° 34′ 00″	0.90306477	0.42950438	2.102574062	0.475607503	2.328264952	1.107340281
64° 34′ 10″	0.90308560	0.42946060	2.102836898	0.475548057	2.328502312	1.107314749
64° 34′ 10″	0.90310642	0.42941682	2.103099787	0.475488613	2.328739726	1.107289222
64° 34′ 30″	0.90312723 0.90314805	0.42937303 0.42932925	2.103362729 2.103625726	0.475429172 0.475369733	2.328977194	1.107263698
64° 34′ 40″					2.329214716 2.329452292	1.107238178
64° 34′ 40″ 64° 34′ 50″	0.90316886	0.42928546 0.42924167	2.103888776	0.475310298 0.475250865	2.329432292	1.107212662
64° 35′ 00″	0.90318967		2.104151879	0.475191435		1.107187150
64° 35′ 10″	0.90321048	0.42919788	2.104415036		2.329927605	1.107161641
64° 35′ 20″	0.90323129 0.90325209	0.42915410 0.42911031	2.104678247 2.104941512	0.475132007 0.475072582	2.330165343 2.330403135	1.107136136 1.107110635
64° 35′ 30″	0.90323209	0.42911031	2.104741312	0.475072362	2.330640980	1.107110633
64° 35′ 40″	0.90327290					
64° 35′ 50″	0.90329370	0.42902272 0.42897893	2.105468203 2.105731629	0.474953741 0.474894325	2.330878880 2.331116834	1.107059644 1.107034155
64° 36′ 00″	0.90333529	0.42893513	2.105/3162/	0.474834911	2.33115634	1.107034133
64° 36′ 10″	0.70333527	0.42873313	2.106258642	0.474775500	2.331592904	1.106983187
64° 36′ 20″	0.70333607	0.42884754	2.106522230	0.474775300	2.331831020	1.106783187
64° 36′ 30″	0.90339767	0.42880374	2.106785871	0.474656686	2.332069190	1.106737768
64° 36′ 40″	0.90341846	0.42875995	2.100783871	0.474597283	2.332307414	1.106732234
64° 36′ 50″	0.90343924	0.42871615	2.107313315	0.474537883	2.332545692	1.106881296
64° 37′ 00″	0.70343724	0.42867235	2.107577118	0.474478486	2.332784025	1.106855832
64° 37′ 10″	0.90348081	0.42862854	2.107840975	0.474419091	2.333022412	1.106830373
64° 37′ 20″	0.90350159	0.42858474	2.108104885	0.474359700	2.333260853	1.106804917
64° 37′ 30″	0.90352237	0.42854094	2.108368850	0.474300310	2.333499348	1.106779465
64° 37′ 40″	0.90354314	0.42849713	2.108632869	0.474240924	2.333737898	1.106754017
64° 37′ 50″	0.90356391	0.42845333	2.108896941	0.474181540	2.333976502	1.106728572
64° 38′ 00″	0.90358468	0.42840952	2.109161068	0.474122159	2.334215160	1.106703132
64° 38′ 10″	0.90360545	0.42836571	2.109425249	0.474062781	2.334453872	1.106677695
64° 38′ 20″	0.90362622	0.42832191	2.109689484	0.474003406	2.334692639	1.106652262
64° 38′ 30″	0.90364698	0.42827810	2.109953772	0.473944033	2.334931460	1.106626832
64° 38′ 40″	0.90366775	0.42823429	2.110218115	0.473884663	2.335170335	1.106601407
64° 38′ 50″	0.90368851	0.42819047	2.110482512	0.473825296	2.335409265	1.106575985
64° 39′ 00″	0.90370927	0.42814666	2.110746963	0.473765931	2.335648249	1.106550567
64° 39′ 10″	0.90373002	0.42810285	2.111011468	0.473706569	2.335887287	1.106525153
64° 39′ 20″	0.90375078	0.42805903	2.111276028	0.473647210	2.336126380	1.106323133
64° 39′ 30″	0.90377153	0.42801522	2.111540641	0.473587854	2.336365528	1.106477742
64° 39′ 40″	0.90379228	0.42797140	2.111805309	0.473528500	2.336604730	1.106474333
64° 39′ 50″	0.90381302	0.42777140	2.112070031	0.473469149	2.336843986	1.106423533
=======================================	0.70301302	0.741/4130	2.1120/0031	0.7/370/17/	2.330043700	1.100743333

485 64° 39′ 50″

	• ()	()	4 ()	4 ()	()	()
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
64° 40′ 00″	0.90383377	0.42788376	2.112334807	0.473409801	2.337083297	1.106398138
64° 40′ 10″	0.90385451	0.42783995	2.112599637	0.473350455	2.337322662	1.106372746
64° 40′ 20″	0.90387525	0.42779612	2.112864522	0.473291112	2.337562082	1.106347358
64° 40′ 30″	0.90389599	0.42775230	2.113129461	0.473231772	2.337801556	1.106321974
64° 40′ 40″	0.90391673	0.42770848	2.113394454	0.473172435	2.338041085	1.106296594
64° 40′ 50″	0.90393747	0.42766466	2.113659501	0.473113100	2.338280669	1.106271217
64° 41′ 00″	0.90395820	0.42762083	2.113924603	0.473053769	2.338520307	1.106245844
64° 41′ 10″	0.90397893	0.42757701	2.114189759	0.472994439	2.338760000	1.106220475
64° 41′ 20″	0.90399966	0.42753318	2.114454970	0.472935113	2.338999747	1.106195110
64° 41′ 30″	0.90402038	0.42748935	2.114720234	0.472875789	2.339239550	1.106169748
64° 41′ 40″	0.90404111	0.42744552	2.114985554	0.472816468	2.339479406	1.106144391
64° 41′ 50″	0.90406183	0.42740169	2.115250927	0.472757150	2.339719318	1.106119036
64° 42′ 00″	0.90408255	0.42735786	2.115516356	0.472697834	2.339959284	1.106093686
64° 42′ 10″	0.90410327	0.42731403	2.115781838	0.472638522	2.340199305	1.106068340
64° 42′ 20″	0.90412398	0.42727020	2.116047375	0.472579211	2.340439381	1.106042997
64° 42′ 30″	0.90414470	0.42722637	2.116312967	0.472519904	2.340679511	1.106017658
64° 42′ 40″	0.90416541	0.42718253	2.116578613	0.472460599	2.340919696	1.105992323
64° 42′ 50″	0.90418612	0.42713870	2.116844313	0.472401297	2.341159936	1.105966991
64° 43′ 00″	0.90420682	0.42709486	2.117110068	0.472341998	2.341400231	1.105941664
64° 43′ 10″	0.90422753	0.42705102	2.117375878	0.472282702	2.341640581	1.105916340
64° 43′ 20″	0.90424823	0.42700718	2.117641742	0.472223408	2.341880985	1.105891019
64° 43′ 30″	0.90426893	0.42696334	2.117907661	0.472164117	2.342121445	1.105865703
64° 43′ 40″	0.90428963	0.42691950	2.118173635	0.472104828	2.342361959	1.105840390
64° 43′ 50″	0.90431033	0.42687566	2.118439663	0.472045543	2.342602528	1.105815081
64° 44′ 00″	0.90433102	0.42683182	2.118705745	0.471986260	2.342843152	1.105789776
64° 44′ 10″	0.90435172	0.42678797	2.118971883	0.471926979	2.343083831	1.105764475
64° 44′ 20″	0.90437241	0.42674413	2.119238075	0.471867702	2.343324565	1.105739177
64° 44′ 30″	0.90439309	0.42670028	2.119504322	0.471808427	2.343565354	1.105713883
64° 44′ 40″	0.90441378	0.42665644	2.119770623	0.471749155	2.343806198	1.105688593
64° 44′ 50″	0.90443446	0.42661259	2.120036979	0.471689885	2.344047097	1.105663307
64° 45′ 00″	0.90445515	0.42656874	2.120303390	0.471630619	2.344288051	1.105638024
64° 45′ 10″	0.90447583	0.42652489	2.120569856	0.471571355	2.344529060	1.105612745
64° 45′ 20″	0.90449650	0.42648104	2.120836377	0.471512094	2.344770125	1.105587470
64° 45′ 30″	0.90451718	0.42643719	2.121102952	0.471452835	2.345011244	1.105562199
64° 45′ 40″	0.90453785	0.42639333	2.121369582	0.471393579	2.345252418	1.105536931
64° 45′ 50″	0.90455852	0.42634948	2.121636267	0.471334326	2.345493648	1.105511667
64° 46′ 00″	0.90457919	0.42630563	2.121903007	0.471275075	2.345734932	1.105486407
64° 46′ 10″	0.90459986	0.42626177	2.122169802	0.471215828	2.345976272	1.105461151
64° 46′ 20″	0.90462052	0.42621791	2.122436652	0.471156583	2.346217667	1.105435898
64° 46′ 30″	0.90464119	0.42617406	2.122703557	0.471097340	2.346459117	1.105410650
64° 46′ 40″	0.90466185	0.42613020	2.122970516	0.471038101	2.346700623	1.105385404
64° 46′ 50″	0.90468250	0.42608634	2.123237531	0.470978864	2.346942183	1.105360163
64° 47′ 00″	0.90470316	0.42604248	2.123504600	0.470919630	2.347183799	1.105334926
64° 47′ 10″	0.90472381	0.42599862	2.123771725	0.470860398	2.347425470	1.105309692
64° 47′ 20″	0.90474447	0.42595475	2.124038904	0.470801169	2.347667197	1.105284462
64° 47′ 30″	0.90476512	0.42591089	2.124306139	0.470741943	2.347908979	1.105259235
64° 47′ 40″	0.90478576	0.42586702	2.124573429	0.470682720	2.348150816	1.105234013
64° 47′ 50″	0.90480641	0.42582316	2.124840773	0.470623499	2.348392708	1.105208794

486 64° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
64° 48′ 00″	0.90482705	0.42577929	2.125108173	0.470564281	2.348634656	1.105183579
64° 48′ 10″	0.90484769	0.42573542	2.125375628	0.470505066	2.348876659	1.105158367
64° 48′ 20″	0.90486833	0.42569156	2.125643138	0.470445853	2.349118718	1.105133160
64° 48′ 30″	0.90488897	0.42564769	2.125910703	0.470386643	2.349360832	1.105107956
64° 48′ 40″	0.90490960	0.42560381	2.126178324	0.470327436	2.349603001	1.105082756
64° 48′ 50″	0.90493024	0.42555994	2.126445999	0.470268232	2.349845226	1.105057560
64° 49′ 00″	0.90495087	0.42551607	2.126713730	0.470209030	2.350087506	1.105032367
64° 49′ 10″	0.90497150	0.42547220	2.126981516	0.470149831	2.350329842	1.105007178
64° 49′ 20″	0.90499212	0.42542832	2.127249357	0.470090635	2.350572234	1.104981993
64° 49′ 30″	0.90501275	0.42538445	2.127517253	0.470031441	2.350814681	1.104956812
64° 49′ 40″	0.90503337	0.42534057	2.127785205	0.469972250	2.351057183	1.104931634
64° 49′ 50″	0.90505399	0.42529669	2.128053212	0.469913062	2.351299741	1.104906460
64° 50′ 00″	0.90507461	0.42525281	2.128321274	0.469853876	2.351542355	1.104881290
64° 50′ 10″	0.90509522	0.42520893	2.128589392	0.469794693	2.351785024	1.104856124
64° 50′ 20″	0.90511584	0.42516505	2.128857565	0.469735513	2.352027749	1.104830961
64° 50′ 30″	0.90513645	0.42512117	2.129125793	0.469676335	2.352270529	1.104805802
64° 50′ 40″	0.90515706	0.42507729	2.129394076	0.469617161	2.352513365	1.104780647
64° 50′ 50″	0.90517767	0.42503340	2.129662416	0.469557988	2.352756257	1.104755495
64° 51′ 00″	0.90519827	0.42498952	2.129930810	0.469498819	2.352999204	1.104730348
64° 51′ 10″	0.90521887	0.42494563	2.130199260	0.469439652	2.353242207	1.104705204
64° 51′ 20″	0.90523947	0.42490175	2.130467765	0.469380488	2.353485266	1.104680064
64° 51′ 30″	0.90526007	0.42485786	2.130736326	0.469321327	2.353728381	1.104654927
64° 51′ 40″	0.90528067	0.42481397	2.131004942	0.469262168	2.353971551	1.104629794
64° 51′ 50″	0.90530126	0.42477008	2.131273614	0.469203012	2.354214778	1.104604665
64° 52′ 00″	0.90532186	0.42472619	2.131542342	0.469143859	2.354458060	1.104579540
64° 52′ 10″	0.90534245	0.42468230	2.131811125	0.469084709	2.354701397	1.104554419
64° 52′ 20″	0.90536303	0.42463841	2.132079963	0.469025561	2.354944791	1.104529301
64° 52′ 30″	0.90538362	0.42459451	2.132348857	0.468966415	2.355188241	1.104504187
64° 52′ 40″	0.90540420	0.42455062	2.132617807	0.468907273	2.355431746	1.104479077
64° 52′ 50″	0.90542479	0.42450672	2.132886812	0.468848133	2.355675307	1.104453970
64° 53′ 00″	0.90544537	0.42446282	2.133155873	0.468788996	2.355918925	1.104428867
64° 53′ 10″	0.90546594	0.42441893	2.133424990	0.468729862	2.356162598	1.104403768
64° 53′ 20″	0.90548652	0.42437503	2.133694162	0.468670730	2.356406327	1.104378673
64° 53′ 30″	0.90550709	0.42433113	2.133963390	0.468611601	2.356650112	1.104353581
64° 53′ 40″	0.90552766	0.42428723	2.134232674	0.468552474	2.356893953	1.104328493
64° 53′ 50″	0.90554823	0.42424333	2.134502013	0.468493351	2.357137850	1.104303409
64° 54′ 00″	0.90556880	0.42419942	2.134771408	0.468434230	2.357381803	1.104278329
64° 54′ 10″	0.90558936	0.42415552	2.135040859	0.468375111	2.357625812	1.104253252
64° 54′ 20″ 64° 54′ 30″	0.90560993	0.42411161	2.135310366	0.468315996	2.357869877	1.104228179
	0.90563049	0.42406771	2.135579928	0.468256883	2.358113999	1.104203110
64° 54′ 40″ 64° 54′ 50″	0.90565105	0.42402380	2.135849547	0.468197772	2.358358176	1.104178045
64° 55′ 00″	0.90567160	0.42397989	2.136119221	0.468138665 0.468079560	2.358602409	1.104152983 1.104127925
64° 55′ 10″	0.90569216	0.42393599 0.42389208	2.136388951 2.136658737	0.468079360	2.358846699 2.359091045	1.10412/925
64° 55′ 20″	0.90571271	0.42384208	2.136658737	0.468020458	2.359091045	1.104102871
64° 55′ 30″	0.90575380	0.42380425	2.136928379	0.467902261	2.359579905	1.104077820
64° 55′ 40″	0.90577435	0.42376034	2.137198476	0.467902261	2.359824419	1.104032773
64° 55′ 50″	0.90577433	0.42376034	2.137466430	0.467784076	2.360068990	1.104027730
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487 64° 55′ 50″

	gin(24)	205(24)	ton(2)	ant(x)	505(21)	939(21)
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\frac{\cot(x)}{2.467724997}$	$\frac{\sec(x)}{2.262212617}$	csc(x)
64° 56′ 00″	0.90581543	0.42367251	2.138008505	0.467724987	2.360313617	1.103977655
64° 56′ 10″	0.90583597	0.42362860	2.138278627	0.467665901	2.360558300	1.103952623
64° 56′ 20″	0.90585651	0.42358468	2.138548804	0.467606817	2.360803039	1.103927595
64° 56′ 30″	0.90587705	0.42354076	2.138819038	0.467547736	2.361047835	1.103902571
64° 56′ 40″	0.90589758	0.42349684	2.139089328	0.467488658	2.361292687	1.103877550
64° 56′ 50″	0.90591811	0.42345292	2.139359673	0.467429583	2.361537595	1.103852533
64° 57′ 00″	0.90593864	0.42340900	2.139630075	0.467370510	2.361782560	1.103827520
64° 57′ 10″	0.90595916	0.42336508	2.139900533	0.467311440	2.362027581	1.103802510
64° 57′ 20″	0.90597969	0.42332116	2.140171047	0.467252373	2.362272658	1.103777505
64° 57′ 30″	0.90600021	0.42327724	2.140441618	0.467193308	2.362517792	1.103752503
64° 57′ 40″	0.90602073	0.42323331	2.140712244	0.467134246	2.362762982	1.103727504
64° 57′ 50″	0.90604125	0.42318939	2.140982926	0.467075187	2.363008229	1.103702510
64° 58′ 00″	0.90606176	0.42314546	2.141253665	0.467016130	2.363253532	1.103677519
64° 58′ 10″	0.90608228	0.42310153	2.141524460	0.466957076	2.363498892	1.103652532
64° 58′ 20″	0.90610279	0.42305760	2.141795311	0.466898025	2.363744308	1.103627548
64° 58′ 30″	0.90612330	0.42301367	2.142066219	0.466838976	2.363989781	1.103602569
64° 58′ 40″	0.90614381	0.42296974	2.142337183	0.466779930	2.364235311	1.103577593
64° 58′ 50″	0.90616431	0.42292581	2.142608203	0.466720887	2.364480896	1.103552620
64° 59′ 00″	0.90618481	0.42288188	2.142879279	0.466661846	2.364726539	1.103527652
64° 59′ 10″	0.90620531	0.42283794	2.143150412	0.466602808	2.364972238	1.103502687
64° 59′ 20″	0.90622581	0.42279401	2.143421601	0.466543773	2.365217994	1.103477726
64° 59′ 30″	0.90624631	0.42275007	2.143692846	0.466484740	2.365463806	1.103452769
64° 59′ 40″	0.90626680	0.42270614	2.143964148	0.466425710	2.365709675	1.103427815
64° 59′ 50″	0.90628730	0.42266220	2.144235506	0.466366683	2.365955601	1.103402865
65° 00′ 00″	0.90630779	0.42261826	2.144506921	0.466307658	2.366201583	1.103377919
65° 00′ 10″	0.90632828	0.42257432	2.144778392	0.466248636	2.366447622	1.103352977
65° 00′ 20″	0.90634876	0.42253038	2.145049919	0.466189617	2.366693718	1.103328038
65° 00′ 30″	0.90636924	0.42248644	2.145321503	0.466130600	2.366939871	1.103303103
65° 00′ 40″	0.90638973	0.42244250	2.145593144	0.466071586	2.367186080	1.103278171
65° 00′ 50″	0.90641021	0.42239855	2.145864841	0.466012575	2.367432346	1.103253244
65° 01′ 00″	0.90643068	0.42235461	2.146136594	0.465953566	2.367678669	1.103228320
65° 01′ 10″	0.90645116	0.42231066	2.146408404	0.465894560	2.367925049	1.103203400
65° 01′ 20″	0.90647163	0.42226672	2.146680271	0.465835557	2.368171486	1.103178483
65° 01′ 30″	0.90649210	0.42222277	2.146952194	0.465776557	2.368417979	1.103153571
65° 01′ 40″	0.90651257	0.42217882	2.147224174	0.465717559	2.368664529	1.103128662
65° 01′ 50″	0.90653304	0.42213487	2.147496210	0.465658563	2.368911137	1.103103756
65° 02′ 00″	0.90655350	0.42209092	2.147768304	0.465599571	2.369157801	1.103078855
65° 02′ 10″	0.90657397	0.42204697	2.148040453	0.465540581	2.369404522	1.103053957
65° 02′ 20″	0.90659443	0.42200302	2.148312660	0.465481593	2.369651300	1.103029063
65° 02′ 30″	0.90661488	0.42195906	2.148584923	0.465422609	2.369898135	1.103004173
65° 02′ 40″	0.90663534	0.42191511	2.148857243	0.465363627	2.370145028	1.102979286
65° 02′ 50″	0.90665579	0.42187115	2.149129620	0.465304647	2.370391977	1.102954403
65° 03′ 00″	0.90667625	0.42182720	2.149402053	0.465245671	2.370638983	1.102929524
65° 03′ 10″	0.90669670	0.42178324	2.149674544	0.465186697	2.370886046	1.102904648
65° 03′ 20″	0.90671714	0.42173928	2.149947091	0.465127725	2.371133166	1.102879776
65° 03′ 30″	0.90673759	0.42169532	2.150219695	0.465068757	2.371380344	1.102854908
65° 03′ 40″	0.90675803	0.42165136	2.150492355	0.465009791	2.371627578	1.102830044
65° 03′ 50″	0.90677847	0.42160740	2.150765073	0.464950827	2.371874870	1.102805183

488 65° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
65° 04′ 00″	0.90679891	0.42156344	2.151037847	0.464891867	2.372122219	1.102780326
65° 04′ 10″	0.90681935	0.42151948	2.151310679	0.464832909	2.372369625	1.102755473
65° 04′ 20″	0.90683978	0.42147551	2.151583567	0.464773953	2.372617088	1.102730623
65° 04′ 30″	0.90686022	0.42143155	2.151856512	0.464715000	2.372864608	1.102705777
65° 04′ 40″	0.90688065	0.42138758	2.152129514	0.464656050	2.373112186	1.102680935
65° 04′ 50″	0.90690108	0.42134361	2.152402573	0.464597103	2.373359821	1.102656097
65° 05′ 00″	0.90692150	0.42129964	2.152675690	0.464538158	2.373607513	1.102631262
65° 05′ 10″	0.90694193	0.42125567	2.152948863	0.464479216	2.373855262	1.102606431
65° 05′ 20″	0.90696235	0.42121170	2.153222093	0.464420277	2.374103069	1.102581604
65° 05′ 30″	0.90698277	0.42116773	2.153495380	0.464361340	2.374350933	1.102556780
65° 05′ 40″	0.90700319	0.42112376	2.153768724	0.464302406	2.374598854	1.102531960
65° 05′ 50″	0.90702360	0.42107979	2.154042126	0.464243474	2.374846833	1.102507144
65° 06′ 00″	0.90704401	0.42103581	2.154315584	0.464184545	2.375094869	1.102482332
65° 06′ 10″	0.90706443	0.42099184	2.154589100	0.464125619	2.375342963	1.102457523
65° 06′ 20″	0.90708483	0.42094786	2.154862673	0.464066696	2.375591113	1.102432718
65° 06′ 30″	0.90710524	0.42090388	2.155136303	0.464007775	2.375839322	1.102407917
65° 06′ 40″	0.90712565	0.42085991	2.155409990	0.463948856	2.376087588	1.102383119
65° 06′ 50″	0.90714605	0.42081593	2.155683734	0.463889941	2.376335911	1.102358325
65° 07′ 00″	0.90716645	0.42077195	2.155957536	0.463831028	2.376584292	1.102333535
65° 07′ 10″	0.90718685	0.42072797	2.156231395	0.463772118	2.376832730	1.102308749
65° 07′ 20″	0.90720725	0.42068398	2.156505311	0.463713210	2.377081226	1.102283966
65° 07′ 30″	0.90722764	0.42064000	2.156779284	0.463654305	2.377329779	1.102259187
65° 07′ 40″	0.90724803	0.42059602	2.157053315	0.463595403	2.377578390	1.102234411
65° 07′ 50″	0.90726842	0.42055203	2.157327403	0.463536503	2.377827059	1.102209640
65° 08′ 00″	0.90728881	0.42050805	2.157601548	0.463477606	2.378075785	1.102184872
65° 08′ 10″	0.90730920	0.42046406	2.157875751	0.463418712	2.378324569	1.102160107
65° 08′ 20″	0.90732958	0.42042007	2.158150011	0.463359820	2.378573410	1.102135347
65° 08′ 30″	0.90734996	0.42037608	2.158424328	0.463300931	2.378822309	1.102110590
65° 08′ 40″	0.90737034	0.42033209	2.158698703	0.463242044	2.379071266	1.102085837
65° 08′ 50″	0.90739072	0.42028810	2.158973135	0.463183160	2.379320281	1.102061087
65° 09′ 00″	0.90741109	0.42024411	2.159247625	0.463124279	2.379569353	1.102036342
65° 09′ 10″	0.90743146	0.42020011	2.159522172	0.463065401	2.379818483	1.102011599
65° 09′ 20″	0.90745184	0.42015612	2.159796777	0.463006525	2.380067671	1.101986861
65° 09′ 30″	0.90747220	0.42011213	2.160071439	0.462947652	2.380316916	1.101962126
65° 09′ 40″	0.90749257	0.42006813	2.160346159	0.462888781	2.380566220	1.101937395
65° 09′ 50″ 65° 10′ 00″	0.90751294	0.42002413	2.160620936	0.462829913	2.380815581	1.101912668
65° 10′ 10″	0.90753330	0.41998013 0.41993614	2.160895771	0.462771048	2.381065000	1.101887945
65° 10′ 10″	0.90755366		2.161170664	0.462712185	2.381314477	1.101863225 1.101838509
65° 10′ 30″	0.90757402	0.41989214 0.41984814	2.161445614 2.161720621	0.462653325	2.381564012	
65° 10′ 40″	0.90759437	0.41980413	2.161720621	0.462594468 0.462535613	2.381813604 2.382063255	1.101813796 1.101789087
65° 10′ 50″	0.90763508	0.41976013	2.161773687	0.462333613	2.382312963	1.101764382
65° 11′ 00″	0.90765543	0.41976013	2.162270810	0.462476761	2.382562730	1.101764582
65° 11′ 10″	0.90767577	0.41971613	2.162343771	0.462359064	2.382812554	1.101737681
65° 11′ 20″	0.90769612	0.41767212	2.162621227	0.462337064	2.383062437	1.101714783
65° 11′ 30″	0.90771646	0.41762812	2.163371879	0.462241379	2.383312377	1.1016/028/
65° 11′ 40″	0.90773680	0.41754010	2.163647291	0.462182540	2.383562376	1.101640912
65° 11′ 50″	0.90775714	0.41734010	2.163922760	0.462123703	2.383812432	1.101646712
	0.70773714	J.11/ T/00/	2.103/22/00	0.102123703	2,303012 T 32	1.101010230

489 65° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
65° 12′ 00″	0.90777748	0.41945208	2.164198288	0.462064870	2.384062547	1.101591550
65° 12′ 10″	0.90779781	0.41940807	2.164473873	0.462006039	2.384312720	1.101566875
65° 12′ 20″	0.90781815	0.41936406	2.164749516	0.461947210	2.384562951	1.101542203
65° 12′ 30″	0.90783848	0.41932005	2.165025216	0.461888385	2.384813240	1.101517535
65° 12′ 40″	0.90785880	0.41927603	2.165300975	0.461829562	2.385063587	1.101492871
65° 12′ 50″	0.90787913	0.41923202	2.165576792	0.461770741	2.385313992	1.101468210
65° 13′ 00″	0.90789945	0.41918800	2.165852666	0.461711923	2.385564456	1.101443553
65° 13′ 10″	0.90791978	0.41914399	2.166128599	0.461653108	2.385814977	1.101418900
65° 13′ 20″	0.90794010	0.41909997	2.166404589	0.461594295	2.386065557	1.101394250
65° 13′ 30″	0.90796041	0.41905595	2.166680637	0.461535486	2.386316195	1.101369604
65° 13′ 40″	0.90798073	0.41901193	2.166956744	0.461476678	2.386566892	1.101344962
65° 13′ 50″	0.90800104	0.41896791	2.167232908	0.461417874	2.386817647	1.101320323
65° 14′ 00″	0.90802135	0.41892389	2.167509131	0.461359071	2.387068460	1.101295688
65° 14′ 10″	0.90804166	0.41887987	2.167785411	0.461300272	2.387319331	1.101271057
65° 14′ 20″	0.90806197	0.41883584	2.168061750	0.461241475	2.387570261	1.101246430
65° 14′ 30″	0.90808227	0.41879182	2.168338146	0.461182681	2.387821249	1.101221806
65° 14′ 40″	0.90810258	0.41874779	2.168614601	0.461123890	2.388072296	1.101197186
65° 14′ 50″	0.90812288	0.41870377	2.168891114	0.461065101	2.388323401	1.101172569
65° 15′ 00″	0.90814317	0.41865974	2.169167685	0.461006314	2.388574564	1.101147956
65° 15′ 10″	0.90816347	0.41861571	2.169444315	0.460947531	2.388825786	1.101123347
65° 15′ 20″	0.90818376	0.41857168	2.169721002	0.460888750	2.389077066	1.101098742
65° 15′ 30″	0.90820406	0.41852765	2.169997748	0.460829971	2.389328405	1.101074140
65° 15′ 40″	0.90822435	0.41848362	2.170274552	0.460771196	2.389579802	1.101049542
65° 15′ 50″	0.90824463	0.41843959	2.170551414	0.460712422	2.389831258	1.101024948
65° 16′ 00″	0.90826492	0.41839555	2.170828334	0.460653652	2.390082772	1.101000357
65° 16′ 10″	0.90828520	0.41835152	2.171105313	0.460594884	2.390334345	1.100975770
65° 16′ 20″	0.90830548	0.41830748	2.171382350	0.460536119	2.390585976	1.100951187
65° 16′ 30″	0.90832576	0.41826345	2.171659446	0.460477356	2.390837667	1.100926608
65° 16′ 40″	0.90834604	0.41821941	2.171936599	0.460418596	2.391089415	1.100902032
65° 16′ 50″	0.90836631	0.41817537	2.172213812	0.460359839	2.391341223	1.100877460
65° 17′ 00″	0.90838659	0.41813133	2.172491082	0.460301084	2.391593089	1.100852891
65° 17′ 10″	0.90840686	0.41808729	2.172768411	0.460242332	2.391845013	1.100828326
65° 17′ 20″	0.90842713	0.41804325	2.173045798	0.460183582	2.392096997	1.100803765
65° 17′ 30″	0.90844739	0.41799921	2.173323244	0.460124835	2.392349039	1.100779208
65° 17′ 40″	0.90846766	0.41795516	2.173600748	0.460066091	2.392601140	1.100754654
65° 17′ 50″	0.90848792	0.41791112	2.173878311	0.460007349	2.392853299	1.100730104
65° 18′ 00″	0.90850818	0.41786707	2.174155933	0.459948610	2.393105518	1.100705557
65° 18′ 10″	0.90852844	0.41782303	2.174433612	0.459889874	2.393357795	1.100681015
65° 18′ 20″	0.90854869	0.41777898	2.174711351	0.459831140	2.393610131	1.100656476
65° 18′ 30″	0.90856894	0.41773493	2.174989148	0.459772409	2.393862526	1.100631940
65° 18′ 40″	0.90858920	0.41769088	2.175267003	0.459713680	2.394114980	1.100607409
65° 18′ 50″	0.90860944	0.41764683	2.175544917	0.459654954	2.394367492	1.100582881
65° 19′ 00″ 65° 19′ 10″	0.90862969	0.41760278	2.175822890	0.459596231	2.394620064 2.394872694	1.100558356
65° 19′ 10″	0.90864994	0.41755873	2.176100922	0.459537510		1.100533836
65° 19′ 30″	0.90867018	0.41751468	2.176379012	0.459478792	2.395125384	1.100509319 1.100484805
65° 19′ 40″	0.90869042	0.41747062 0.41742657	2.176657161 2.176935368	0.459420077 0.459361364	2.395378132 2.395630939	1.100484805
65° 19′ 50″	0.90873089	0.41742657	2.176733366	0.459302654	2.395883806	1.100460276
=======================================	0.700/3007	0.71/30431	2.17/213034	0.73/302034	2.373003000	1.100433/70

490 65° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(x)$
65° 20′ 00″	0.90875113	0.41733845	2.177491959	0.459243946	2.396136731	1.100411288
65° 20′ 10″	0.90877136	0.41729440	2.177770343	0.459185241	2.396389715	1.100386789
65° 20′ 20″	0.90879159	0.41725034	2.178048786	0.459126539	2.396642759	1.100362294
65° 20′ 30″	0.90881182	0.41720628	2.178327287	0.459067839	2.396895861	1.100337803
65° 20′ 40″	0.90883204	0.41716222	2.178605847	0.459009142	2.397149023	1.100313315
65° 20′ 50″	0.90885227	0.41711815	2.178884466	0.458950447	2.397402244	1.100288832
65° 21′ 00″	0.90887249	0.41707409	2.179163144	0.458891755	2.397655523	1.100264351
65° 21′ 10″	0.90889271	0.41703003	2.179441881	0.458833066	2.397908863	1.100239875
65° 21′ 20″	0.90891293	0.41698596	2.179720677	0.458774379	2.398162261	1.100215402
65° 21′ 30″	0.90893314	0.41694190	2.179999531	0.458715695	2.398415718	1.100190933
65° 21′ 40″	0.90895335	0.41689783	2.180278445	0.458657013	2.398669235	1.100166467
65° 21′ 50″	0.90897356	0.41685376	2.180557418	0.458598335	2.398922811	1.100142006
65° 22′ 00″	0.90899377	0.41680969	2.180836449	0.458539658	2.399176446	1.100117547
65° 22′ 10″	0.90901398	0.41676562	2.181115540	0.458480985	2.399430140	1.100093093
65° 22′ 20″	0.90903418	0.41672155	2.181394689	0.458422313	2.399683894	1.100068642
65° 22′ 30″	0.90905439	0.41667748	2.181673898	0.458363645	2.399937707	1.100044195
65° 22′ 40″	0.90907459	0.41663341	2.181953166	0.458304979	2.400191579	1.100019752
65° 22′ 50″	0.90909478	0.41658934	2.182232493	0.458246316	2.400445511	1.099995312
65° 23′ 00″	0.90911498	0.41654526	2.182511878	0.458187655	2.400699502	1.099970876
65° 23′ 10″	0.90913517	0.41650119	2.182791324	0.458128997	2.400953553	1.099946443
65° 23′ 20″	0.90915536	0.41645711	2.183070828	0.458070342	2.401207663	1.099922014
65° 23′ 30″	0.90917555	0.41641303	2.183350391	0.458011689	2.401461832	1.099897589
65° 23′ 40″	0.90919574	0.41636895	2.183630014	0.457953039	2.401716061	1.099873168
65° 23′ 50″	0.90921593	0.41632487	2.183909695	0.457894391	2.401970349	1.099848750
65° 24′ 00″	0.90923611	0.41628079	2.184189436	0.457835746	2.402224697	1.099824336
65° 24′ 10″	0.90925629	0.41623671	2.184469237	0.457777104	2.402479104	1.099799926
65° 24′ 20″	0.90927647	0.41619263	2.184749096	0.457718464	2.402733571	1.099775519
65° 24′ 30″	0.90929665	0.41614854	2.185029015	0.457659827	2.402988097	1.099751116
65° 24′ 40″	0.90931682	0.41610446	2.185308993	0.457601192	2.403242683	1.099726716
65° 24′ 50″	0.90933699	0.41606037	2.185589031	0.457542560	2.403497329	1.099702321
65° 25′ 00″	0.90935716	0.41601629	2.185869127	0.457483931	2.403752034	1.099677929
65° 25′ 10″	0.90937733	0.41597220	2.186149284	0.457425304	2.404006799	1.099653540
65° 25′ 20″	0.90939750	0.41592811	2.186429499	0.457366679	2.404261624	1.099629155
65° 25′ 30″	0.90941766	0.41588402	2.186709774	0.457308058	2.404516508	1.099604774
65° 25′ 40″	0.90943782	0.41583993	2.186990109	0.457249439	2.404771452	1.099580397
65° 25′ 50″	0.90945798	0.41579584	2.187270503	0.457190822	2.405026455	1.099556023
65° 26′ 00″	0.90947814	0.41575175	2.187550956	0.457132209	2.405281519	1.099531653
65° 26′ 10″	0.90949829	0.41570766	2.187831469	0.457073597	2.405536642	1.099507287
65° 26′ 20″	0.90951845	0.41566356	2.188112041	0.457014989	2.405791825	1.099482924
65° 26′ 30″	0.90953860	0.41561947	2.188392673	0.456956383	2.406047068	1.099458565
65° 26′ 40″	0.90955875	0.41557537	2.188673364	0.456897779	2.406302370	1.099434209
65° 26′ 50″ 65° 27′ 00″	0.90957889	0.41553127 0.41548718	2.188954115 2.189234926	0.456839179	2.406557732	1.099409858
65° 27′ 10″	0.90959904		2.189234926 2.189515796	0.456780580	2.406813155	1.099385510
65° 27′ 20″	0.90961918	0.41544308		0.456721985	2.407068637	1.099361165
65° 27′ 30″		0.41539898	2.189796726	0.456663392	2.407324179	1.099336824
65° 27′ 40″	0.90965946	0.41535488 0.41531077	2.190077716 2.190358765	0.456604801 0.456546213	2.407579781 2.407835443	1.099312487 1.099288154
65° 27′ 50″	0.90969973	0.41531077	2.190536763	0.456487628	2.407833443	1.099263824
=======================================	0.70707773	0.7134000/	2.1/00370/4	0.75040/040	2.7000/1103	1.07/203024

491 65° 27′ 50″

	$\sin(\mathbf{y})$	005(x)	ton(v)	act(x)	sog(x)	asa(x)
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	csc(x)
65° 28′ 00″	0.90971986	0.41522257	2.190921042	0.456429045	2.408346946	1.099239498
65° 28′ 10″	0.90973999	0.41517846	2.191202271	0.456370465	2.408602788	1.099215175
65° 28′ 20″	0.90976011	0.41513436	2.191483559	0.456311888	2.408858690	1.099190856
65° 28′ 30″	0.90978024	0.41509025	2.191764907	0.456253313	2.409114652	1.099166541
65° 28′ 40″	0.90980036	0.41504614	2.192046314	0.456194741	2.409370674	1.099142230
65° 28′ 50″	0.90982048	0.41500203	2.192327782	0.456136171	2.409626756	1.099117922
65° 29′ 00″	0.90984060	0.41495792	2.192609309	0.456077604	2.409882898	1.099093618
65° 29′ 10″	0.90986072	0.41491381	2.192890897	0.456019039	2.410139101	1.099069317
65° 29′ 20″	0.90988083	0.41486970	2.193172544	0.455960477	2.410395363	1.099045020
65° 29′ 30″	0.90990095	0.41482559	2.193454251	0.455901918	2.410651686	1.099020727
65° 29′ 40″	0.90992106	0.41478147	2.193736018	0.455843361	2.410908068	1.098996438
65° 29′ 50″	0.90994116	0.41473736	2.194017844	0.455784807	2.411164511	1.098972152
65° 30′ 00″	0.90996127	0.41469324	2.194299731	0.455726256	2.411421015	1.098947870
65° 30′ 10″	0.90998137	0.41464913	2.194581678	0.455667707	2.411677578	1.098923591
65° 30′ 20″	0.91000148	0.41460501	2.194863685	0.455609160	2.411934202	1.098899316
65° 30′ 30″	0.91002158	0.41456089	2.195145752	0.455550616	2.412190886	1.098875045
65° 30′ 40″	0.91004167	0.41451677	2.195427878	0.455492075	2.412447630	1.098850777
65° 30′ 50″	0.91006177	0.41447265	2.195710065	0.455433536	2.412704435	1.098826513
65° 31′ 00″	0.91008186	0.41442853	2.195992312	0.455375000	2.412961300	1.098802253
65° 31′ 10″	0.91010195	0.41438441	2.196274619	0.455316467	2.413218226	1.098777996
65° 31′ 20″	0.91012204	0.41434028	2.196556987	0.455257936	2.413475211	1.098753743
65° 31′ 30″	0.91014213	0.41429616	2.196839414	0.455199408	2.413732258	1.098729494
65° 31′ 40″	0.91016221	0.41425203	2.197121902	0.455140882	2.413989364	1.098705248
65° 31′ 50″	0.91018230	0.41420791	2.197404449	0.455082359	2.414246531	1.098681006
65° 32′ 00″	0.91020238	0.41416378	2.197687057	0.455023838	2.414503759	1.098656768
65° 32′ 10″	0.91022245	0.41411965	2.197969725	0.454965320	2.414761047	1.098632533
65° 32′ 20″	0.91024253	0.41407552	2.198252454	0.454906805	2.415018396	1.098608302
65° 32′ 30″	0.91026260	0.41403139	2.198535243	0.454848292	2.415275805	1.098584074
65° 32′ 40″	0.91028268	0.41398726	2.198818092	0.454789782	2.415533274	1.098559851
65° 32′ 50″	0.91030275	0.41394313	2.199101001	0.454731274	2.415790805	1.098535631
65° 33′ 00″	0.91032281	0.41389899	2.199383971	0.454672769	2.416048396	1.098511414
65° 33′ 10″	0.91034288	0.41385486	2.199667000	0.454614267	2.416306047	1.098487201
65° 33′ 20″	0.91036294	0.41381072	2.199950091	0.454555767	2.416563759	1.098462992
65° 33′ 30″	0.91038300	0.41376659	2.200233242	0.454497269	2.416821532	1.098438787
65° 33′ 40″	0.91040306	0.41372245	2.200516453	0.454438774	2.417079365	1.098414585
65° 33′ 50″	0.91042312	0.41367831	2.200799724	0.454380282	2.417337260	1.098390386
65° 34′ 00″	0.91044317	0.41363417	2.201083056	0.454321793	2.417595214	1.098366192
65° 34′ 10″	0.91046322	0.41359003	2.201366449	0.454263306	2.417853230	1.098342001
65° 34′ 20″	0.91048328	0.41354589	2.201649902	0.454204821	2.418111307	1.098317814
65° 34′ 30″	0.91050332	0.41350175	2.201933415	0.454146339	2.418369444	1.098293630
65° 34′ 40″	0.91052337	0.41345761	2.202216990	0.454087860	2.418627642	1.098269450
65° 34′ 50″	0.91054341	0.41341346	2.202500624	0.454029383	2.418885900	1.098245274
65° 35′ 00″	0.91056346	0.41336932	2.202784319	0.453970909	2.419144220	1.098221101
65° 35′ 10″	0.91058349	0.41332517	2.203068075	0.453912438	2.419402601	1.098196932
65° 35′ 20″	0.91060353	0.41328103	2.203351892	0.453853968	2.419661042	1.098172766
65° 35′ 30″	0.91062357	0.41323688	2.203635769	0.453795502	2.419919544	1.098148605
65° 35′ 40″	0.91064360	0.41319273	2.203919706	0.453737038	2.420178108	1.098124446
65° 35′ 50″	0.91066363	0.41314858	2.204203705	0.453678577	2.420436732	1.098100292

492 65° 35′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
65° 36′ 00″	0.91068366	0.41310443	2.204487764	0.453620118	2.420695417	1.098076141
65° 36′ 10″	0.91070369	0.41306028	2.204771884	0.453561662	2.420954163	1.098051994
65° 36′ 20″	0.91072371	0.41301613	2.205056064	0.453503208	2.421212970	1.098027850
65° 36′ 30″	0.91074373	0.41297197	2.205340306	0.453444757	2.421471838	1.098003710
65° 36′ 40″	0.91076376	0.41292782	2.205624608	0.453386309	2.421730768	1.097979574
65° 36′ 50″	0.91078377	0.41288366	2.205908971	0.453327863	2.421989758	1.097955441
65° 37′ 00″	0.91080379	0.41283951	2.206193395	0.453269420	2.422248809	1.097931312
65° 37′ 10″	0.91082380	0.41279535	2.206477879	0.453210979	2.422507922	1.097907187
65° 37′ 20″	0.91084382	0.41275119	2.206762425	0.453152541	2.422767096	1.097883065
65° 37′ 30″	0.91086382	0.41270703	2.207047031	0.453094105	2.423026331	1.097858947
65° 37′ 40″	0.91088383	0.41266287	2.207331699	0.453035672	2.423285627	1.097834833
65° 37′ 50″	0.91090384	0.41261871	2.207616427	0.452977242	2.423544984	1.097810722
65° 38′ 00″	0.91092384	0.41257455	2.207901216	0.452918814	2.423804402	1.097786615
65° 38′ 10″	0.91094384	0.41253038	2.208186066	0.452860389	2.424063882	1.097762511
65° 38′ 20″	0.91096384	0.41248622	2.208470977	0.452801966	2.424323423	1.097738412
65° 38′ 30″	0.91098384	0.41244205	2.208755950	0.452743546	2.424583025	1.097714315
65° 38′ 40″	0.91100383	0.41239789	2.209040983	0.452685128	2.424842688	1.097690223
65° 38′ 50″	0.91102383	0.41235372	2.209326077	0.452626713	2.425102413	1.097666134
65° 39′ 00″	0.91104382	0.41230955	2.209611232	0.452568300	2.425362200	1.097642048
65° 39′ 10″	0.91106380	0.41226538	2.209896449	0.452509890	2.425622047	1.097617967
65° 39′ 20″	0.91108379	0.41222121	2.210181727	0.452451483	2.425881956	1.097593889
65° 39′ 30″	0.91110377	0.41217704	2.210467065	0.452393078	2.426141926	1.097569814
65° 39′ 40″	0.91112376	0.41213287	2.210752465	0.452334676	2.426401958	1.097545744
65° 39′ 50″	0.91114374	0.41208870	2.211037926	0.452276276	2.426662051	1.097521676
65° 40′ 00″	0.91116371	0.41204452	2.211323449	0.452217879	2.426922206	1.097497613
65° 40′ 10″	0.91118369	0.41200035	2.211609032	0.452159485	2.427182422	1.097473553
65° 40′ 20″	0.91120366	0.41195617	2.211894677	0.452101093	2.427442700	1.097449497
65° 40′ 30″	0.91122363	0.41191199	2.212180383	0.452042703	2.427703039	1.097425444
65° 40′ 40″	0.91124360	0.41186782	2.212466150	0.451984316	2.427963440	1.097401395
65° 40′ 50″	0.91126357	0.41182364	2.212751979	0.451925932	2.428223902	1.097377350
65° 41′ 00″	0.91128353	0.41177946	2.213037869	0.451867550	2.428484426	1.097353308
65° 41′ 10″	0.91130350	0.41173528	2.213323820	0.451809171	2.428745012	1.097329270
65° 41′ 20″	0.91132346	0.41169110	2.213609833	0.451750794	2.429005659	1.097305236
65° 41′ 30″	0.91134341	0.41164691	2.213895907	0.451692420	2.429266368	1.097281205
65° 41′ 40″	0.91136337	0.41160273	2.214182042	0.451634049	2.429527139	1.097257178
65° 41′ 50″	0.91138332	0.41155854	2.214468239	0.451575680	2.429787971	1.097233154
65° 42′ 00″	0.91140328	0.41151436	2.214754498	0.451517313	2.430048865	1.097209134
65° 42′ 10″	0.91142323	0.41147017	2.215040818	0.451458949	2.430309821	1.097185118
65° 42′ 20″	0.91144317	0.41142598	2.215327199	0.451400588	2.430570838	1.097161105
65° 42′ 30″	0.91146312	0.41138180	2.215613642	0.451342229	2.430831917	1.097137096
65° 42′ 40″	0.91148306	0.41133761	2.215900146	0.451283873	2.431093058	1.097113091
65° 42′ 50″	0.91150300	0.41129342	2.216186712	0.451225519	2.431354261	1.097089089
65° 43′ 00″	0.91152294	0.41124922	2.216473340	0.451167168	2.431615526	1.097065091
65° 43′ 10″	0.91154288	0.41120503	2.216760029	0.451108820	2.431876853	1.097041096
65° 43′ 20″	0.91156281	0.41116084	2.217046780	0.451050474	2.432138241	1.097017105
65° 43′ 30″	0.91158275	0.41111664	2.217333593	0.450992130	2.432399692	1.096993118
65° 43′ 40″	0.91160268	0.41107245	2.217620467	0.450933789	2.432661204	1.096969135
65° 43′ 50″	0.91162261	0.41102825	2.217907403	0.450875451	2.432922779	1.096945155

493 65° 43′ 50″

	gin(y)	20g(x)	ton(v)	act(x)	gog(x)	aca(v)
x 65° 44′ 00″	$\frac{\sin(x)}{\cos(x)}$	$\cos(x)$	$\frac{\tan(x)}{2.219104400}$	$\cot(x)$	$\sec(x)$	csc(x)
65° 44′ 10″	0.91164253	0.41098406	2.218194400	0.450817115	2.433184415	1.096921178
65° 44′ 10″	0.91166246	0.41093986	2.218481460	0.450758782	2.433446113	1.096897205
	0.91168238	0.41089566	2.218768581	0.450700451	2.433707874	1.096873236
65° 44′ 30″	0.91170230	0.41085146	2.219055763	0.450642123	2.433969696	1.096849271
65° 44′ 40″	0.91172221	0.41080726	2.219343008	0.450583797	2.434231580	1.096825309
65° 44′ 50″	0.91174213	0.41076306	2.219630315	0.450525474	2.434493527	1.096801351
65° 45′ 00″	0.91176204	0.41071885	2.219917683	0.450467154	2.434755536	1.096777396
65° 45′ 10″	0.91178195	0.41067465	2.220205113	0.450408836	2.435017606	1.096753445
65° 45′ 20″	0.91180186	0.41063044	2.220492605	0.450350520	2.435279739	1.096729498
65° 45′ 30″	0.91182177	0.41058624	2.220780159	0.450292207	2.435541934	1.096705554
65° 45′ 40″	0.91184168	0.41054203	2.221067775	0.450233897	2.435804192	1.096681614
65° 45′ 50″	0.91186158	0.41049782	2.221355453	0.450175589	2.436066511	1.096657677
65° 46′ 00″	0.91188148	0.41045361	2.221643192	0.450117284	2.436328893	1.096633744
65° 46′ 10″	0.91190138	0.41040940	2.221930994	0.450058981	2.436591337	1.096609815
65° 46′ 20″	0.91192127	0.41036519	2.222218858	0.450000681	2.436853843	1.096585890
65° 46′ 30″	0.91194117	0.41032098	2.222506784	0.449942384	2.437116412	1.096561968
65° 46′ 40″	0.91196106	0.41027677	2.222794772	0.449884089	2.437379043	1.096538049
65° 46′ 50″	0.91198095	0.41023256	2.223082822	0.449825796	2.437641736	1.096514134
65° 47′ 00″	0.91200084	0.41018834	2.223370934	0.449767506	2.437904491	1.096490223
65° 47′ 10″	0.91202072	0.41014413	2.223659108	0.449709219	2.438167309	1.096466316
65° 47′ 20″	0.91204060	0.41009991	2.223947344	0.449650934	2.438430190	1.096442412
65° 47′ 30″	0.91206049	0.41005569	2.224235643	0.449592651	2.438693132	1.096418511
65° 47′ 40″	0.91208036	0.41001147	2.224524003	0.449534372	2.438956138	1.096394615
65° 47′ 50″	0.91210024	0.40996725	2.224812426	0.449476094	2.439219205	1.096370722
65° 48′ 00″	0.91212012	0.40992303	2.225100911	0.449417820	2.439482336	1.096346832
65° 48′ 10″	0.91213999	0.40987881	2.225389459	0.449359547	2.439745528	1.096322946
65° 48′ 20″	0.91215986	0.40983459	2.225678068	0.449301278	2.440008784	1.096299064
65° 48′ 30″	0.91217973	0.40979037	2.225966740	0.449243011	2.440272101	1.096275186
65° 48′ 40″	0.91219959	0.40974614	2.226255474	0.449184746	2.440535482	1.096251311
65° 48′ 50″	0.91221946	0.40970192	2.226544271	0.449126484	2.440798925	1.096227439
65° 49′ 00″	0.91223932	0.40965769	2.226833130	0.449068225	2.441062430	1.096203572
65° 49′ 10″	0.91225918	0.40961346	2.227122051	0.449009968	2.441325998	1.096179707
65° 49′ 20″	0.91227904	0.40956924	2.227411035	0.448951713	2.441589629	1.096155847
65° 49′ 30″	0.91229889	0.40952501	2.227700081	0.448893461	2.441853323	1.096131990
65° 49′ 40″	0.91231875	0.40948078	2.227989189	0.448835212	2.442117079	1.096108137
65° 49′ 50″	0.91233860	0.40943655	2.228278360	0.448776965	2.442380898	1.096084287
65° 50′ 00″	0.91235845	0.40939231	2.228567594	0.448718721	2.442644780	1.096060441
65° 50′ 10″	0.91237829	0.40934808	2.228856890	0.448660479	2.442908724	1.096036599
65° 50′ 20″	0.91239814	0.40930385	2.229146248	0.448602240	2.443172732	1.096012760
65° 50′ 30″	0.91241798	0.40925961	2.229435670	0.448544003	2.443436802	1.095988925
65° 50′ 40″	0.91243782	0.40921538	2.229725153	0.448485769	2.443700935	1.095965093
65° 50′ 50″	0.91245766	0.40917114	2.230014699	0.448427537	2.443965131	1.095941265
65° 51′ 00″	0.91247749	0.40912690	2.230304308	0.448369308	2.444229389	1.095917441
65° 51′ 10″	0.91249733	0.40908266	2.230593980	0.448311082	2.444493711	1.095893620
65° 51′ 20″	0.91251716	0.40903842	2.230883714	0.448252858	2.444758095	1.095869803
65° 51′ 30″	0.91253699	0.40899418	2.231173511	0.448194636	2.445022543	1.095845989
65° 51′ 40″	0.91255682	0.40894994	2.231463370	0.448136417	2.445287053	1.095822179
65° 51′ 50″	0.91257664	0.40890570	2.231753292	0.448078201	2.445551627	1.095798373

494 65° 51′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
65° 52′ 00″	0.91259647	0.40886146	2.232043277	0.448019987	2.445816263	1.095774570
65° 52′ 10″	0.91261629	0.40881721	2.232333325	0.447961776	2.446080962	1.095750771
65° 52′ 20″	0.91263611	0.40877297	2.232623436	0.447903567	2.446345725	1.095726976
65° 52′ 30″	0.91265592	0.40872872	2.232913609	0.447845360	2.446610551	1.095703184
65° 52′ 40″	0.91267574	0.40868447	2.233203845	0.447787157	2.446875439	1.095679395
65° 52′ 50″	0.91269555	0.40864023	2.233494144	0.447728955	2.447140391	1.095655611
65° 53′ 00″	0.91271536	0.40859598	2.233784506	0.447670757	2.447405406	1.095631830
65° 53′ 10″	0.91273517	0.40855173	2.234074931	0.447612560	2.447670484	1.095608052
65° 53′ 20″	0.91275497	0.40850747	2.234365419	0.447554367	2.447935625	1.095584278
65° 53′ 30″	0.91277478	0.40846322	2.234655970	0.447496176	2.448200830	1.095560508
65° 53′ 40″	0.91279458	0.40841897	2.234946583	0.447437987	2.448466097	1.095536742
65° 53′ 50″	0.91281438	0.40837472	2.235237260	0.447379801	2.448731428	1.095512979
65° 54′ 00″	0.91283418	0.40833046	2.235528000	0.447321617	2.448996822	1.095489219
65° 54′ 10″	0.91285397	0.40828620	2.235818802	0.447263436	2.449262280	1.095465463
65° 54′ 20″	0.91287377	0.40824195	2.236109668	0.447205258	2.449527801	1.095441711
65° 54′ 30″	0.91289356	0.40819769	2.236400597	0.447147082	2.449793385	1.095417962
65° 54′ 40″	0.91291335	0.40815343	2.236691589	0.447088908	2.450059032	1.095394217
65° 54′ 50″	0.91293313	0.40810917	2.236982644	0.447030737	2.450324743	1.095370476
65° 55′ 00″	0.91295292	0.40806491	2.237273762	0.446972569	2.450590518	1.095346738
65° 55′ 10″	0.91297270	0.40802065	2.237564943	0.446914403	2.450856355	1.095323004
65° 55′ 20″	0.91299248	0.40797639	2.237856187	0.446856239	2.451122256	1.095299274
65° 55′ 30″	0.91301226	0.40793212	2.238147495	0.446798078	2.451388221	1.095275547
65° 55′ 40″	0.91303203	0.40788786	2.238438866	0.446739920	2.451654249	1.095251823
65° 55′ 50″	0.91305181	0.40784359	2.238730300	0.446681764	2.451920341	1.095228103
65° 56′ 00″	0.91307158	0.40779933	2.239021798	0.446623611	2.452186496	1.095204387
65° 56′ 10″	0.91309135	0.40775506	2.239313358	0.446565460	2.452452714	1.095180675
65° 56′ 20″	0.91311112	0.40771079	2.239604982	0.446507312	2.452718997	1.095156966
65° 56′ 30″	0.91313088	0.40766652	2.239896670	0.446449166	2.452985343	1.095133260
65° 56′ 40″	0.91315065	0.40762225	2.240188420	0.446391023	2.453251752	1.095109559
65° 56′ 50″	0.91317041	0.40757798	2.240480235	0.446332882	2.453518225	1.095085860
65° 57′ 00″	0.91319017	0.40753371	2.240772112	0.446274744	2.453784762	1.095062166
65° 57′ 10″	0.91320992	0.40748943	2.241064053	0.446216608	2.454051362	1.095038475
65° 57′ 20″	0.91322968	0.40744516	2.241356057	0.446158475	2.454318027	1.095014787
65° 57′ 30″	0.91324943	0.40740088	2.241648125	0.446100344	2.454584755	1.094991104
65° 57′ 40″	0.91326918	0.40735661	2.241940257	0.446042216	2.454851546	1.094967423
65° 57′ 50″ 65° 58′ 00″	0.91328893 0.91330867	0.40731233	2.242232451	0.445984090	2.455118402	1.094943747
65° 58′ 10″	0.91332842	0.40726805 0.40722377	2.242524710 2.242817032	0.445925967	2.455385321 2.455652304	1.094920074 1.094896404
65° 58′ 20″	0.91334816	0.40722377	2.242817032	0.445867847 0.445809728	2.455919351	1.094872739
65° 58′ 30″	0.91334616	0.40717949	2.243107417	0.445751613	2.455717551	1.094849076
65° 58′ 40″	0.91338764	0.40713321	2.243401000	0.445693500		1.094849078
65° 58′ 50″	0.91340737	0.40704045	2.243674377	0.445635389	2.456453636 2.456720875	1.094801763
65° 59′ 00″	0.91340737	0.40704663	2.243786733	0.445577281	2.456788177	1.094778111
65° 59′ 10″	0.91344684	0.40700237	2.244572299	0.445519175	2.457255544	1.094754464
65° 59′ 20″	0.91346656	0.40691380	2.244865067	0.445461072	2.457522974	1.094730819
65° 59′ 30″	0.71348629	0.40671380	2.245157898	0.445402972	2.457790468	1.094707179
65° 59′ 40″	0.91350602	0.40682522	2.245450793	0.445344874	2.458058027	1.094683542
65° 59′ 50″	0.91352574	0.40678093	2.245743751	0.445286778	2.458325649	1.094659908
	0.71332374	0.100/00/3	<u>_,_</u> 131 T 31 31	0.110200770	2. 130323077	1.07 1037700

495 65° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
66° 00′ 00″	0.91354546	0.40673664	2.246036774	0.445228685	2.458593336	1.094636279
66° 00′ 10″	0.91356518	0.40669235	2.246329860	0.445170595	2.458861086	1.094612652
66° 00′ 20″	0.91358489	0.40664806	2.246623010	0.445112507	2.459128901	1.094589030
66° 00′ 30″	0.91360461	0.40660377	2.246916224	0.445054421	2.459396780	1.094565411
66° 00′ 40″	0.91362432	0.40655948	2.247209502	0.444996338	2.459664723	1.094541795
66° 00′ 50″	0.91364403	0.40651518	2.247502844	0.444938258	2.459932730	1.094518183
66° 01′ 00″	0.91366373	0.40647089	2.247796250	0.444880180	2.460200801	1.094494575
66° 01′ 10″	0.91368344	0.40642659	2.248089720	0.444822104	2.460468937	1.094470970
66° 01′ 20″	0.91370314	0.40638229	2.248383253	0.444764031	2.460737136	1.094447369
66° 01′ 30″	0.91372284	0.40633799	2.248676851	0.444705961	2.461005400	1.094423772
66° 01′ 40″	0.91374254	0.40629370	2.248970513	0.444647893	2.461273729	1.094400178
66° 01′ 50″	0.91376224	0.40624940	2.249264239	0.444589828	2.461542121	1.094376587
66° 02′ 00″	0.91378193	0.40620510	2.249558028	0.444531765	2.461810578	1.094353001
66° 02′ 10″	0.91380163	0.40616079	2.249851882	0.444473704	2.462079100	1.094329417
66° 02′ 20″	0.91382132	0.40611649	2.250145800	0.444415646	2.462347685	1.094305838
66° 02′ 30″	0.91384100	0.40607219	2.250439783	0.444357591	2.462616335	1.094282262
66° 02′ 40″	0.91386069	0.40602788	2.250733829	0.444299538	2.462885050	1.094258689
66° 02′ 50″	0.91388037	0.40598358	2.251027939	0.444241487	2.463153829	1.094235121
66° 03′ 00″	0.91390005	0.40593927	2.251322114	0.444183439	2.463422672	1.094211555
66° 03′ 10″	0.91391973	0.40589496	2.251616353	0.444125394	2.463691580	1.094187994
66° 03′ 20″	0.91393941	0.40585065	2.251910656	0.444067351	2.463960552	1.094164436
66° 03′ 30″	0.91395909	0.40580634	2.252205024	0.444009311	2.464229589	1.094140881
66° 03′ 40″	0.91397876	0.40576203	2.252499455	0.443951273	2.464498691	1.094117330
66° 03′ 50″	0.91399843	0.40571772	2.252793952	0.443893237	2.464767857	1.094093783
66° 04′ 00″	0.91401810	0.40567341	2.253088512	0.443835204	2.465037087	1.094070239
66° 04′ 10″	0.91403777	0.40562910	2.253383137	0.443777174	2.465306383	1.094046699
66° 04′ 20″	0.91405743	0.40558478	2.253677826	0.443719146	2.465575743	1.094023163
66° 04′ 30″	0.91407709	0.40554047	2.253972579	0.443661120	2.465845167	1.093999630
66° 04′ 40″	0.91409675	0.40549615	2.254267397	0.443603097	2.466114656	1.093976100
66° 04′ 50″	0.91411641	0.40545183	2.254562280	0.443545077	2.466384210	1.093952575
66° 05′ 00″	0.91413607	0.40540752	2.254857227	0.443487059	2.466653829	1.093929052
66° 05′ 10″	0.91415572	0.40536320	2.255152238	0.443429044	2.466923512	1.093905534
66° 05′ 20″	0.91417537	0.40531888	2.255447314	0.443371031	2.467193261	1.093882019
66° 05′ 30″	0.91419502	0.40527456	2.255742454	0.443313020	2.467463074	1.093858507
66° 05′ 40″	0.91421467	0.40523023	2.256037659	0.443255012	2.467732951	1.093834999
66° 05′ 50″	0.91423431	0.40518591	2.256332929	0.443197007	2.468002894	1.093811495
66° 06′ 00″	0.91425396	0.40514159	2.256628263	0.443139004	2.468272902	1.093787994
66° 06′ 10″	0.91427360	0.40509726	2.256923662	0.443081003	2.468542974	1.093764497
66° 06′ 20″	0.91429323	0.40505294	2.257219125	0.443023005	2.468813111	1.093741004
66° 06′ 30″	0.91431287	0.40500861	2.257514653	0.442965010	2.469083314	1.093717514
66° 06′ 40″	0.91433251	0.40496428	2.257810246	0.442907017	2.469353581	1.093694027
66° 06′ 50″	0.91435214	0.40491995	2.258105904	0.442849026	2.469623913	1.093670544
66° 07′ 00″	0.91437177	0.40487562	2.258401626	0.442791038	2.469894310	1.093647065
66° 07′ 10″	0.91439140	0.40483129	2.258697413	0.442733052	2.470164773	1.093623590
66° 07′ 20″	0.91441102	0.40478696	2.258993265	0.442675069	2.470435300	1.093600117
66° 07′ 30″	0.91443064	0.40474263	2.259289182	0.442617089	2.470705892	1.093576649
66° 07′ 40″	0.91445027	0.40469830	2.259585163	0.442559111	2.470976550	1.093553184
66° 07′ 50″	0.91446989	0.40465396	2.259881209	0.442501135	2.471247272	1.093529723

496 66° 07′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
66° 08′ 00″	0.91448950	0.40460963	2.260177321	0.442443162	2.471518060	1.093506265
66° 08′ 10″	0.71448730	0.40456529	2.260177321	0.442385191	2.471788913	1.093482811
66° 08′ 20″	0.91452873	0.40452095	2.2604/347/	0.442327223	2.471788713	1.093459360
66° 08′ 30″	0.71452873	0.40432073	2.261066044	0.442327223	2.472330814	1.093435913
66° 08′ 40″	0.71454654	0.40447662	2.261362415	0.442211294	2.472601863	1.093412470
66° 08′ 50″	0.71458775	0.40438794	2.261362413	0.442153333	2.472872976	1.093389030
66° 09′ 00″	0.91450736	0.40434360	2.261955352	0.442133333	2.472072976	1.093365593
66° 09′ 10″	0.91462676	0.40434360	2.261755552	0.442037420	2.473144133	1.093342161
66° 09′ 20″	0.91464636	0.40425491	2.262548549	0.441979466	2.473686709	1.093318731
66° 09′ 30″	0.71464636	0.40423471	2.262346347	0.441921516	2.473958084	1.093295306
66° 09′ 40″	0.71468576	0.40421037	2.262643243	0.441863567	2.473738084	1.093273884
66° 09′ 50″	0.71468336	0.404188	2.263142006	0.441805621	2.474501030	1.093248465
66° 10′ 00″	0.91470313	0.40412188	2.263735724	0.441747678	2.474772601	1.093225051
66° 10′ 10″	0.91474433	0.40407733	2.263733724	0.441689737	2.474772601	1.093201639
66° 10′ 20″	0.71474433	0.40398883	2.264329703	0.441631799	2.475315940	1.093178232
66° 10′ 30″	0.71478372	0.40378883	2.264626790	0.441573863	2.475587707	1.093178232
66° 10′ 40″	0.71478330	0.40374448	2.264923942	0.441515930	2.475859540	1.093131427
66° 10′ 50″	0.71480308	0.40370013	2.265221160	0.441457999	2.476131439	1.093108030
66° 11′ 00″	0.71482266	0.40383378	2.265518443	0.441400070	2.476403403	1.093084636
66° 11′ 10″	0.71484224	0.40376708	2.265815791	0.441342144	2.476403403	1.093061246
66° 11′ 20″	0.91488139	0.40372272	2.266113204	0.441284221	2.476947528	1.093037860
66° 11′ 30″	0.91490096	0.40367837	2.266410683	0.441226300	2.477219689	1.093014477
66° 11′ 40″	0.91492053	0.40363401	2.266708228	0.441168381	2.477491915	1.092991098
66° 11′ 50″	0.91494010	0.40358965	2.267005837	0.441110465	2.477764207	1.092967723
66° 12′ 00″	0.91495967	0.40354530	2.267303512	0.441052552	2.478036565	1.092944351
66° 12′ 10″	0.91497923	0.40350094	2.267601253	0.440994641	2.478308989	1.092920982
66° 12′ 20″	0.91499879	0.40345658	2.267899059	0.440936732	2.478581478	1.092897617
66° 12′ 30″	0.91501835	0.40341222	2.268196931	0.440878826	2.478854033	1.092874256
66° 12′ 40″	0.91503791	0.40336785	2.268494868	0.440820922	2.479126654	1.092850898
66° 12′ 50″	0.91505746	0.40332349	2.268792870	0.440763021	2.479399340	1.092827544
66° 13′ 00″	0.91507702	0.40327913	2.269090938	0.440705123	2.479672093	1.092804193
66° 13′ 10″	0.91509657	0.40323476	2.269389072	0.440647226	2.479944911	1.092780846
66° 13′ 20″	0.91511611	0.40319040	2.269687272	0.440589333	2.480217795	1.092757503
66° 13′ 30″	0.91513566	0.40314603	2.269985537	0.440531441	2.480490745	1.092734163
66° 13′ 40″	0.91515520	0.40310166	2.270283867	0.440473552	2.480763761	1.092710827
66° 13′ 50″	0.91517475	0.40305730	2.270582264	0.440415666	2.481036843	1.092687494
66° 14′ 00″	0.91519429	0.40301293	2.270880726	0.440357782	2.481309991	1.092664164
66° 14′ 10″	0.91521382	0.40296856	2.271179253	0.440299901	2.481583205	1.092640839
66° 14′ 20″	0.91523336	0.40292418	2.271477847	0.440242022	2.481856484	1.092617517
66° 14′ 30″	0.91525289	0.40287981	2.271776506	0.440184145	2.482129830	1.092594198
66° 14′ 40″	0.91527242	0.40283544	2.272075231	0.440126271	2.482403242	1.092570883
66° 14′ 50″	0.91529195	0.40279106	2.272374022	0.440068400	2.482676720	1.092547572
66° 15′ 00″	0.91531148	0.40274669	2.272672879	0.440010531	2.482950264	1.092524264
66° 15′ 10″	0.91533100	0.40270231	2.272971802	0.439952664	2.483223874	1.092500960
66° 15′ 20″	0.91535053	0.40265794	2.273270790	0.439894800	2.483497551	1.092477659
66° 15′ 30″	0.91537005	0.40261356	2.273569844	0.439836939	2.483771293	1.092454362
66° 15′ 40″	0.91538956	0.40256918	2.273868965	0.439779079	2.484045102	1.092431068
66° 15′ 50″	0.91540908	0.40252480	2.274168151	0.439721223	2.484318977	1.092407778
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497 66° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
66° 16′ 00″	0.91542859	0.40248042	2.274467403	0.439663368	2.484592918	1.092384492
66° 16′ 10″	0.91542859	0.40248042	2.274766722	0.439663368	2.484592918 2.484866926	1.092384492
66° 16′ 20″	0.91546762	0.40243604		0.439547667	2.485140999	1.092337929
66° 16′ 30″			2.275066106			
	0.91548712	0.40234727	2.275365556	0.439489821	2.485415139	1.092314654
66° 16′ 40″	0.91550663	0.40230289	2.275665073	0.439431976	2.485689346	1.092291381
66° 16′ 50″	0.91552613	0.40225850	2.275964655	0.439374134	2.485963618	1.092268113
66° 17′ 00″ 66° 17′ 10″	0.91554563	0.40221412 0.40216973	2.276264304	0.439316295	2.486237958 2.486512363	1.092244847 1.092221586
66° 17′ 10″	0.91558463	0.40216973	2.276564019	0.439258458		1.092198328
66° 17′ 30″	0.91560412	0.40212334	2.276863800	0.439200623 0.439142791	2.486786835	1.092175073
66° 17′ 40″	0.91562362	0.40203656	2.277163647 2.277463560	0.439142791	2.487061373 2.487335978	1.092151823
66° 17′ 50″	0.91564311	0.40203636	2.277763540	0.439027135	2.487610649	1.092128575
66° 18′ 00″	0.91566259	0.40177217	2.277763340	0.438969310	2.487885387	1.092105331
66° 18′ 10″	0.71366237	0.40174778		0.438911488	2.488160192	1.092082091
66° 18′ 20″	0.91570156	0.40170338	2.278363698 2.278663876	0.438711488	2.488435063	1.092058855
66° 18′ 30″	0.91570136	0.40183877	2.278964121	0.438795851	2.488710000	1.092035621
66° 18′ 40″	0.91574052	0.40177020	2.279264432	0.438738036	2.488985004	1.092012392
66° 18′ 50″	0.91576000	0.40177626	2.279564810	0.438680223	2.489260075	1.091989166
66° 19′ 00″	0.91577948	0.40168140	2.279865254	0.438622414	2.489535213	1.091965943
66° 19′ 10″	0.91579895	0.40163701	2.280165764	0.438564606	2.489810417	1.091942725
66° 19′ 20″	0.91581842	0.40159261	2.280466341	0.438506801	2.490085688	1.091919509
66° 19′ 30″	0.91583789	0.40154821	2.280766984	0.438448999	2.490361025	1.091896297
66° 19′ 40″	0.91585736	0.40150380	2.281067694	0.438391198	2.490636429	1.091873089
66° 19′ 50″	0.91587682	0.40145940	2.281368470	0.438333401	2.490911900	1.091849884
66° 20′ 00″	0.91589628	0.40141500	2.281669313	0.438275606	2.491187438	1.091826683
66° 20′ 10″	0.91591574	0.40137059	2.281970222	0.438217813	2.491463043	1.091803486
66° 20′ 20″	0.91593520	0.40132619	2.282271198	0.438160023	2.491738715	1.091780292
66° 20′ 30″	0.91595466	0.40128178	2.282572241	0.438102235	2.492014453	1.091757101
66° 20′ 40″	0.91597411	0.40123737	2.282873350	0.438044450	2.492290258	1.091733914
66° 20′ 50″	0.91599356	0.40119297	2.283174526	0.437986667	2.492566131	1.091710731
66° 21′ 00″	0.91601301	0.40114856	2.283475768	0.437928886	2.492842070	1.091687551
66° 21′ 10″	0.91603246	0.40110415	2.283777078	0.437871108	2.493118076	1.091664375
66° 21′ 20″	0.91605190	0.40105974	2.284078454	0.437813333	2.493394149	1.091641202
66° 21′ 30″	0.91607135	0.40101532	2.284379896	0.437755560	2.493670289	1.091618033
66° 21′ 40″	0.91609079	0.40097091	2.284681406	0.437697789	2.493946496	1.091594867
66° 21′ 50″	0.91611022	0.40092650	2.284982982	0.437640021	2.494222771	1.091571705
66° 22′ 00″	0.91612966	0.40088208	2.285284625	0.437582255	2.494499112	1.091548547
66° 22′ 10″	0.91614910	0.40083767	2.285586335	0.437524492	2.494775520	1.091525392
66° 22′ 20″	0.91616853	0.40079325	2.285888112	0.437466731	2.495051996	1.091502240
66° 22′ 30″	0.91618796	0.40074883	2.286189956	0.437408973	2.495328538	1.091479093
66° 22′ 40″	0.91620738	0.40070441	2.286491867	0.437351217	2.495605148	1.091455948
66° 22′ 50″	0.91622681	0.40066000	2.286793844	0.437293463	2.495881825	1.091432807
66° 23′ 00″	0.91624623	0.40061557	2.287095889	0.437235712	2.496158570	1.091409670
66° 23′ 10″	0.91626566	0.40057115	2.287398000	0.437177964	2.496435381	1.091386536
66° 23′ 20″	0.91628507	0.40052673	2.287700179	0.437120218	2.496712260	1.091363406
66° 23′ 30″	0.91630449	0.40048231	2.288002425	0.437062474	2.496989206	1.091340280
66° 23′ 40″	0.91632391	0.40043788	2.288304737	0.437004733	2.497266219	1.091317157
66° 23′ 50″	0.91634332	0.40039346	2.288607117	0.436946994	2.497543300	1.091294037

498 66° 23′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
66° 24′ 00″	0.91636273	0.40034903	2.288909564	0.436889258	2.497820448	1.091270921
66° 24′ 10″	0.91638214	0.40030461	2.289212078	0.436831524	2.498097664	1.091247809
66° 24′ 20″	0.91640154	0.40026018	2.289514659	0.436773792	2.498374947	1.091224700
66° 24′ 30″	0.91642095	0.40021575	2.289817308	0.436716063	2.498652297	1.091201595
66° 24′ 40″	0.91644035	0.40017132	2.290120023	0.436658337	2.498929715	1.091178493
66° 24′ 50″	0.91645975	0.40012689	2.290422806	0.436600613	2.499207200	1.091155394
66° 25′ 00″	0.91647915	0.40008246	2.290725656	0.436542891	2.499484753	1.091132300
66° 25′ 10″	0.91649854	0.40003802	2.291028573	0.436485172	2.499762373	1.091109209
66° 25′ 20″	0.91651794	0.39999359	2.291331558	0.436427455	2.500040061	1.091086121
66° 25′ 30″	0.91653733	0.39994916	2.291634610	0.436369741	2.500317817	1.091063037
66° 25′ 40″	0.91655672	0.39990472	2.291937729	0.436312029	2.500595640	1.091039956
66° 25′ 50″	0.91657610	0.39986028	2.292240916	0.436254319	2.500873530	1.091016879
66° 26′ 00″	0.91659549	0.39981585	2.292544170	0.436196612	2.501151489	1.090993806
66° 26′ 10″	0.91661487	0.39977141	2.292847491	0.436138908	2.501429515	1.090970736
66° 26′ 20″	0.91663425	0.39972697	2.293150880	0.436081205	2.501707609	1.090947670
66° 26′ 30″	0.91665363	0.39968253	2.293454336	0.436023506	2.501985770	1.090924607
66° 26′ 40″	0.91667301	0.39963809	2.293757860	0.435965808	2.502263999	1.090901547
66° 26′ 50″	0.91669238	0.39959365	2.294061452	0.435908114	2.502542296	1.090878492
66° 27′ 00″	0.91671175	0.39954920	2.294365111	0.435850421	2.502820661	1.090855439
66° 27′ 10″	0.91673112	0.39950476	2.294668837	0.435792731	2.503099093	1.090832391
66° 27′ 20″	0.91675049	0.39946031	2.294972631	0.435735044	2.503377594	1.090809346
66° 27′ 30″	0.91676985	0.39941587	2.295276493	0.435677359	2.503656162	1.090786304
66° 27′ 40″	0.91678922	0.39937142	2.295580422	0.435619676	2.503934798	1.090763266
66° 27′ 50″	0.91680858	0.39932697	2.295884419	0.435561996	2.504213502	1.090740231
66° 28′ 00″	0.91682794	0.39928253	2.296188484	0.435504318	2.504492274	1.090717200
66° 28′ 10″	0.91684729	0.39923808	2.296492616	0.435446643	2.504771114	1.090694173
66° 28′ 20″	0.91686665	0.39919363	2.296796816	0.435388970	2.505050022	1.090671149
66° 28′ 30″	0.91688600	0.39914917	2.297101084	0.435331300	2.505328998	1.090648129
66° 28′ 40″	0.91690535	0.39910472	2.297405419	0.435273632	2.505608042	1.090625112
66° 28′ 50″	0.91692470	0.39906027	2.297709823	0.435215966	2.505887154	1.090602098
66° 29′ 00″	0.91694404	0.39901581	2.298014294	0.435158303	2.506166334	1.090579089
66° 29′ 10″	0.91696339	0.39897136	2.298318833	0.435100642	2.506445583	1.090556082
66° 29′ 20″	0.91698273	0.39892690	2.298623440	0.435042984	2.506724899	1.090533080
66° 29′ 30″	0.91700207	0.39888245	2.298928115	0.434985328	2.507004284	1.090510080
66° 29′ 40″	0.91702141	0.39883799	2.299232858	0.434927675	2.507283736	1.090487085
66° 29′ 50″	0.91704074	0.39879353	2.299537669	0.434870024	2.507563257	1.090464093
66° 30′ 00″	0.91706007	0.39874907	2.299842547	0.434812375	2.507842846	1.090441104
66° 30′ 10″	0.91707941	0.39870461	2.300147494	0.434754729	2.508122504	1.090418119
66° 30′ 20″	0.91709873	0.39866015	2.300452509	0.434697085	2.508402229	1.090395137
66° 30′ 30″	0.91711806	0.39861568	2.300757591	0.434639444	2.508682023	1.090372159
66° 30′ 40″	0.91713738	0.39857122	2.301062742	0.434581805	2.508961886	1.090349185
66° 30′ 50″ 66° 31′ 00″	0.91715671	0.39852676	2.301367961	0.434524169	2.509241816	1.090326214
66° 31′ 10″	0.91717603	0.39848229	2.301673248	0.434466535	2.509521815	1.090303247
	0.91719534	0.39843782	2.301978603	0.434408903	2.509801883	1.090280283
66° 31′ 20″ 66° 31′ 30″	0.91721466	0.39839336	2.302284027	0.434351274	2.510082018	1.090257322
66° 31′ 40″	0.91723397	0.39834889	2.302589518	0.434293647	2.510362223	1.090234366
66° 31′ 40″	0.91725329 0.91727259	0.39830442 0.39825995	2.302895078	0.434236023	2.510642495	1.090211412 1.090188463
=======================================	0.71727239	0.37623773	2.303200706	0.434178401	2.510922837	1.070100403

499 66° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
66° 32′ 00″	0.91729190	0.39821548	2.303506402	0.434120782	2.511203246	1.090165516
66° 32′ 10″	0.91731121	0.39817101	2.303812167	0.434063165	2.511483725	1.090142574
66° 32′ 20″	0.91733051	0.39812653	2.304118000	0.434005550	2.511764272	1.090119635
66° 32′ 30″	0.91734981	0.39808206	2.304423901	0.433947938	2.512044887	1.090096699
66° 32′ 40″	0.91736911	0.39803758	2.304729870	0.433890328	2.512325571	1.090073767
66° 32′ 50″	0.91738841	0.39799311	2.305035908	0.433832721	2.512606324	1.090050838
66° 33′ 00″	0.91740770	0.39794863	2.305342014	0.433775116	2.512887145	1.090027913
66° 33′ 10″	0.91742699	0.39790415	2.305648189	0.433717514	2.513168035	1.090004992
66° 33′ 20″	0.91744628	0.39785968	2.305954432	0.433659914	2.513448994	1.089982074
66° 33′ 30″	0.91746557	0.39781520	2.306260744	0.433602316	2.513730021	1.089959159
66° 33′ 40″	0.91748485	0.39777072	2.306567124	0.433544721	2.514011118	1.089936248
66° 33′ 50″	0.91750414	0.39772623	2.306873573	0.433487128	2.514292283	1.089913341
66° 34′ 00″	0.91752342	0.39768175	2.307180090	0.433429538	2.514573516	1.089890437
66° 34′ 10″	0.91754270	0.39763727	2.307486676	0.433371950	2.514854819	1.089867536
66° 34′ 20″	0.91756198	0.39759278	2.307793331	0.433314364	2.515136191	1.089844640
66° 34′ 30″	0.91758125	0.39754830	2.308100054	0.433256781	2.515417631	1.089821746
66° 34′ 40″	0.91760052	0.39750381	2.308406846	0.433199201	2.515699140	1.089798856
66° 34′ 50″	0.91761979	0.39745933	2.308713706	0.433141622	2.515980719	1.089775970
66° 35′ 00″	0.91763906	0.39741484	2.309020635	0.433084046	2.516262366	1.089753087
66° 35′ 10″	0.91765833	0.39737035	2.309327633	0.433026473	2.516544082	1.089730208
66° 35′ 20″	0.91767759	0.39732586	2.309634699	0.432968902	2.516825867	1.089707332
66° 35′ 30″	0.91769685	0.39728137	2.309941835	0.432911333	2.517107721	1.089684460
66° 35′ 40″	0.91771611	0.39723688	2.310249039	0.432853767	2.517389645	1.089661591
66° 35′ 50″	0.91773537	0.39719238	2.310556312	0.432796204	2.517671637	1.089638726
66° 36′ 00″	0.91775463	0.39714789	2.310863654	0.432738642	2.517953698	1.089615865
66° 36′ 10″	0.91777388	0.39710340	2.311171065	0.432681083	2.518235829	1.089593007
66° 36′ 20″	0.91779313	0.39705890	2.311478544	0.432623527	2.518518029	1.089570152
66° 36′ 30″	0.91781238	0.39701440	2.311786093	0.432565973	2.518800297	1.089547301
66° 36′ 40″	0.91783163	0.39696991	2.312093710	0.432508421	2.519082636	1.089524453
66° 36′ 50″	0.91785087	0.39692541	2.312401397	0.432450872	2.519365043	1.089501609
66° 37′ 00″	0.91787011	0.39688091	2.312709152	0.432393325	2.519647519	1.089478769
66° 37′ 10″	0.91788935	0.39683641	2.313016977	0.432335781	2.519930065	1.089455932
66° 37′ 20″	0.91790859	0.39679191	2.313324870	0.432278239	2.520212680	1.089433098
66° 37′ 30″	0.91792783	0.39674741	2.313632833	0.432220699	2.520495365	1.089410268
66° 37′ 40″ 66° 37′ 50″	0.91794706	0.39670290	2.313940864	0.432163162	2.520778119	1.089387442
66° 38′ 00″	0.91796629	0.39665840 0.39661390	2.314248965	0.432105627	2.521060942	1.089364619
66° 38′ 10″	0.91798552	0.39656939	2.314557135 2.314865374	0.432048095 0.431990565	2.521343835	1.089341799
66° 38′ 20″	0.91800475	0.39652488	2.315173683	0.431933037	2.521626797 2.521909828	1.089318984 1.089296171
66° 38′ 30″	0.91804320	0.37632488	2.315482060	0.431875512	2.521707828	1.089273362
66° 38′ 40″	0.91804320	0.37648038	2.315790507	0.431817989	2.522476099	1.089250557
66° 38′ 50″	0.91808164	0.39639136	2.316099023	0.431760469	2.522759339	1.087230337
66° 39′ 00″	0.91810085	0.37637136	2.316407608	0.431702951	2.523042649	1.087227733
66° 39′ 10″	0.91812007	0.37634683	2.316716263	0.431702731	2.523326028	1.087204737
66° 39′ 20″	0.91813928	0.37630234	2.317024987	0.431587922	2.523609477	1.089159371
66° 39′ 30″	0.91815849	0.39621331	2.317333780	0.431530412	2.523892995	1.089136583
66° 39′ 40″	0.91817770	0.37621331	2.317642643	0.431472903	2.524176583	1.089113799
66° 39′ 50″	0.91819690	0.39612428	2.317951575	0.431415397	2.524460240	1.089091018
	1 317 1317 07 0	3.07012120		2.13.1100//	2.02.1002.10	

500 66° 39′ 50″

	• ()					
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
66° 40′ 00″	0.91821611	0.39607977	2.318260577	0.431357894	2.524743968	1.089068241
66° 40′ 10″	0.91823531	0.39603525	2.318569648	0.431300393	2.525027765	1.089045467
66° 40′ 20″	0.91825451	0.39599073	2.318878788	0.431242894	2.525311631	1.089022697
66° 40′ 30″	0.91827370	0.39594621	2.319187999	0.431185398	2.525595568	1.088999930
66° 40′ 40″	0.91829290	0.39590169	2.319497278	0.431127904	2.525879574	1.088977167
66° 40′ 50″	0.91831209	0.39585717	2.319806627	0.431070413	2.526163650	1.088954407
66° 41′ 00″	0.91833128	0.39581265	2.320116046	0.431012924	2.526447796	1.088931651
66° 41′ 10″	0.91835047	0.39576813	2.320425535	0.430955437	2.526732012	1.088908898
66° 41′ 20″	0.91836966	0.39572361	2.320735093	0.430897953	2.527016298	1.088886149
66° 41′ 30″	0.91838884	0.39567908	2.321044720	0.430840471	2.527300654	1.088863403
66° 41′ 40″	0.91840802	0.39563456	2.321354418	0.430782991	2.527585079	1.088840661
66° 41′ 50″	0.91842720	0.39559003	2.321664185	0.430725514	2.527869575	1.088817923
66° 42′ 00″	0.91844638	0.39554550	2.321974022	0.430668040	2.528154140	1.088795188
66° 42′ 10″	0.91846556	0.39550097	2.322283928	0.430610567	2.528438776	1.088772456
66° 42′ 20″	0.91848473	0.39545645	2.322593905	0.430553098	2.528723482	1.088749728
66° 42′ 30″	0.91850390	0.39541192	2.322903951	0.430495630	2.529008257	1.088727003
66° 42′ 40″	0.91852307	0.39536738	2.323214067	0.430438165	2.529293103	1.088704282
66° 42′ 50″	0.91854224	0.39532285	2.323524253	0.430380702	2.529578019	1.088681565
66° 43′ 00″	0.91856140	0.39527832	2.323834509	0.430323242	2.529863005	1.088658850
66° 43′ 10″	0.91858056	0.39523379	2.324144835	0.430265784	2.530148061	1.088636140
66° 43′ 20″	0.91859972	0.39518925	2.324455230	0.430208329	2.530433188	1.088613433
66° 43′ 30″	0.91861888	0.39514472	2.324765696	0.430150876	2.530718384	1.088590729
66° 43′ 40″	0.91863804	0.39510018	2.325076232	0.430093425	2.531003651	1.088568029
66° 43′ 50″	0.91865719	0.39505564	2.325386837	0.430035977	2.531288988	1.088545333
66° 44′ 00″	0.91867634	0.39501111	2.325697513	0.429978531	2.531574396	1.088522640
66° 44′ 10″	0.91869549	0.39496657	2.326008259	0.429921087	2.531859874	1.088499950
66° 44′ 20″	0.91871464	0.39492203	2.326319075	0.429863646	2.532145422	1.088477264
66° 44′ 30″	0.91873379	0.39487748	2.326629960	0.429806208	2.532431040	1.088454582
66° 44′ 40″	0.91875293	0.39483294	2.326940917	0.429748771	2.532716729	1.088431903
66° 44′ 50″	0.91877207	0.39478840	2.327251943	0.429691337	2.533002488	1.088409227
66° 45′ 00″	0.91879121	0.39474386	2.327563039	0.429633906	2.533288318	1.088386555
66° 45′ 10″	0.91881035	0.39469931	2.327874206	0.429576477	2.533574218	1.088363887
66° 45′ 20″	0.91882948	0.39465477	2.328185443	0.429519050	2.533860189	1.088341221
66° 45′ 30″	0.91884861	0.39461022	2.328496750	0.429461626	2.534146230	1.088318560
66° 45′ 40″	0.91886774	0.39456567	2.328808128	0.429404204	2.534432342	1.088295902
66° 45′ 50″	0.91888687	0.39452112	2.329119576	0.429346784	2.534718524	1.088273247
66° 46′ 00″	0.91890600	0.39447657	2.329431094	0.429289367	2.535004777	1.088250596
66° 46′ 10″	0.91892512	0.39443202	2.329742682	0.429231952	2.535291101	1.088227949
66° 46′ 20″	0.91894424	0.39438747	2.330054341	0.429174540	2.535577495	1.088205305
66° 46′ 30″	0.91896336	0.39434292	2.330366071	0.429117130	2.535863960	1.088182664
66° 46′ 40″	0.91898248	0.39429837	2.330677870	0.429059722	2.536150495	1.088160027
66° 46′ 50″	0.91900159	0.39425381	2.330989741	0.429002317	2.536437102	1.088137394
66° 47′ 00″	0.91902071	0.39420926	2.331301681	0.428944914	2.536723779	1.088114764
66° 47′ 10″	0.91903982	0.39416470	2.331613693	0.428887514	2.537010527	1.088092137
66° 47′ 20″	0.91905893	0.39412015	2.331925775	0.428830116	2.537297345	1.088069514
66° 47′ 30″	0.91907803	0.39407559	2.332237927	0.428772720	2.537584235	1.088046895
66° 47′ 40″	0.91909714	0.39403103	2.332550150	0.428715327	2.537871195	1.088024279
66° 47′ 50″	0.91911624	0.39398647	2.332862444	0.428657936	2.538158226	1.088001666

501 66° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
66° 48′ 00″	0.91913534	0.39394191	2.333174808	0.428600547	2.538445328	1.087979057
66° 48′ 10″						
	0.91915444	0.39389735	2.333487243	0.428543161	2.538732501	1.087956452
66° 48′ 20″	0.91917353	0.39385279	2.333799749	0.428485778	2.539019745	1.087933850
66° 48′ 30″	0.91919263	0.39380822	2.334112325	0.428428396	2.539307060	1.087911251
66° 48′ 40″	0.91921172	0.39376366	2.334424972	0.428371017	2.539594446	1.087888656
66° 48′ 50″	0.91923081	0.39371909	2.334737690	0.428313641	2.539881903	1.087866065
66° 49′ 00″	0.91924989	0.39367453	2.335050479	0.428256266	2.540169431	1.087843477
66° 49′ 10″	0.91926898	0.39362996	2.335363338	0.428198895	2.540457030	1.087820892
66° 49′ 20″	0.91928806	0.39358539	2.335676269	0.428141525	2.540744700	1.087798311
66° 49′ 30″	0.91930714	0.39354082	2.335989270	0.428084158	2.541032442	1.087775734
66° 49′ 40″	0.91932622	0.39349625	2.336302342	0.428026793	2.541320254	1.087753159
66° 49′ 50″	0.91934530	0.39345168	2.336615485	0.427969431	2.541608138	1.087730589
66° 50′ 00″	0.91936437	0.39340711	2.336928699	0.427912071	2.541896093	1.087708022
66° 50′ 10″	0.91938344	0.39336254	2.337241984	0.427854714	2.542184119	1.087685458
66° 50′ 20″	0.91940251	0.39331797	2.337555340	0.427797359	2.542472216	1.087662898
66° 50′ 30″	0.91942158	0.39327339	2.337868767	0.427740006	2.542760385	1.087640342
66° 50′ 40″	0.91944064	0.39322882	2.338182266	0.427682655	2.543048625	1.087617788
66° 50′ 50″	0.91945971	0.39318424	2.338495835	0.427625307	2.543336936	1.087595239
66° 51′ 00″	0.91947877	0.39313966	2.338809475	0.427567962	2.543625319	1.087572693
66° 51′ 10″	0.91949783	0.39309508	2.339123187	0.427510618	2.543913773	1.087550150
66° 51′ 20″	0.91951688	0.39305051	2.339436969	0.427453277	2.544202298	1.087527611
66° 51′ 30″	0.91953594	0.39300593	2.339750823	0.427395939	2.544490895	1.087505075
66° 51′ 40″	0.91955499	0.39296135	2.340064748	0.427338603	2.544779563	1.087482543
66° 51′ 50″	0.91957404	0.39291676	2.340378744	0.427281269	2.545068303	1.087460014
66° 52′ 00″	0.91959309	0.39287218	2.340692812	0.427223938	2.545357114	1.087437489
66° 52′ 10″	0.91961214	0.39282760	2.341006951	0.427166609	2.545645997	1.087414968
66° 52′ 20″	0.91963118	0.39278301	2.341321161	0.427109282	2.545934952	1.087392449
66° 52′ 30″	0.91965022	0.39273843	2.341635442	0.427051958	2.546223978	1.087369935
66° 52′ 40″	0.91966926	0.39269384	2.341949795	0.426994636	2.546513075	1.087347423
66° 52′ 50″	0.91968830	0.39264925	2.342264219	0.426937316	2.546802245	1.087324916
66° 53′ 00″	0.91970733	0.39260467	2.342578715	0.426879999	2.547091486	1.087302411
66° 53′ 10″	0.91972637	0.39256008	2.342893282	0.426822684	2.547380798	1.087279911
66° 53′ 20″	0.91974540	0.39251549	2.343207921	0.426765372	2.547670183	1.087257413
66° 53′ 30″	0.91976442	0.39247090	2.343522631	0.426708062	2.547959639	1.087234919
66° 53′ 40″	0.91978345	0.39242630	2.343837412	0.426650754	2.548249167	1.087212429
66° 53′ 50″	0.91980248	0.39238171	2.344152265	0.426593449	2.548538766	1.087189942
66° 54′ 00″	0.91982150	0.39233712	2.344467190	0.426536146	2.548828438	1.087167459
66° 54′ 10″	0.91984052	0.39229252	2.344782186	0.426478846	2.549118181	1.087144979
66° 54′ 20″	0.91985954	0.39224793	2.345097254	0.426421547	2.549407996	1.087122503
66° 54′ 30″	0.91987855	0.39220333	2.345412394	0.426364252	2.549697884	1.087100030
66° 54′ 40″	0.91989756	0.39215873	2.345727605	0.426306958	2.549987843	1.087077561
66° 54′ 50″	0.91991658	0.39211413	2.346042888	0.426249667	2.550277874	1.087055095
66° 55′ 00″	0.91993558	0.39206953	2.346358243	0.426192378	2.550567977	1.087032632
66° 55′ 10″	0.91995459	0.39202493	2.346673669	0.426135092	2.550858152	1.087010173
66° 55′ 20″	0.91997360	0.39198033	2.346989167	0.426077808	2.551148399	1.086987718
66° 55′ 30″	0.91999260	0.39193573	2.347304737	0.426020526	2.551438718	1.086965266
66° 55′ 40″	0.92001160	0.39189113	2.347620379	0.425963247	2.551729109	1.086942817
66° 55′ 50″	0.92003060	0.39184652	2.347936093	0.425905970	2.552019572	1.086920372

502 66° 55′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
66° 56′ 00″	0.92004959	0.39180192	2.348251878	0.425848696	2.552310108	1.086897931
66° 56′ 10″	0.92006859	0.39175731	2.348567736	0.425791424	2.552600715	1.086875493
66° 56′ 20″	0.92008758	0.39171271	2.348883665	0.425734154	2.552891395	1.086853058
66° 56′ 30″	0.92010657	0.39166810	2.349199667	0.425676887	2.553182147	1.086830627
66° 56′ 40″	0.92012556	0.39162349	2.349515740	0.425619621	2.553472971	1.086808199
66° 56′ 50″	0.92014454	0.39157888	2.349831886	0.425562359	2.553763867	1.086785775
66° 57′ 00″	0.92016353	0.39153427	2.350148103	0.425505098	2.554054836	1.086763355
66° 57′ 10″	0.92018251	0.39148966	2.350464393	0.425447841	2.554345877	1.086740937
66° 57′ 20″	0.92020149	0.39144505	2.350780754	0.425390585	2.554636991	1.086718524
66° 57′ 30″	0.92022046	0.39140044	2.351097188	0.425333332	2.554928176	1.086696113
66° 57′ 40″	0.92023944	0.39135582	2.351413694	0.425276081	2.555219435	1.086673707
66° 57′ 50″	0.92025841	0.39131121	2.351730272	0.425218832	2.555510765	1.086651303
66° 58′ 00″	0.92027738	0.39126659	2.352046922	0.425161586	2.555802168	1.086628904
66° 58′ 10″	0.92029635	0.39122197	2.352363644	0.425104342	2.556093644	1.086606507
66° 58′ 20″	0.92031531	0.39117736	2.352680439	0.425047101	2.556385192	1.086584115
66° 58′ 30″	0.92033428	0.39113274	2.352997306	0.424989862	2.556676812	1.086561725
66° 58′ 40″	0.92035324	0.39108812	2.353314245	0.424932625	2.556968505	1.086539339
66° 58′ 50″	0.92037220	0.39104350	2.353631257	0.424875391	2.557260271	1.086516957
66° 59′ 00″	0.92039116	0.39099888	2.353948341	0.424818159	2.557552109	1.086494578
66° 59′ 10″	0.92041011	0.39095425	2.354265497	0.424760929	2.557844020	1.086472203
66° 59′ 20″	0.92042906	0.39090963	2.354582726	0.424703702	2.558136004	1.086449831
66° 59′ 30″	0.92044801	0.39086501	2.354900027	0.424646477	2.558428060	1.086427462
66° 59′ 40″	0.92046696	0.39082038	2.355217401	0.424589254	2.558720189	1.086405097
66° 59′ 50″	0.92048591	0.39077576	2.355534847	0.424532034	2.559012391	1.086382735
67° 00′ 00″	0.92050485	0.39073113	2.355852366	0.424474816	2.559304665	1.086360377
67° 00′ 10″	0.92052380	0.39068650	2.356169957	0.424417601	2.559597012	1.086338023
67° 00′ 20″	0.92054274	0.39064187	2.356487621	0.424360388	2.559889433	1.086315672
67° 00′ 30″	0.92056167	0.39059724	2.356805357	0.424303177	2.560181925	1.086293324
67° 00′ 40″	0.92058061	0.39055261	2.357123166	0.424245968	2.560474491	1.086270980
67° 00′ 50″	0.92059954	0.39050798	2.357441048	0.424188762	2.560767130	1.086248639
67° 01′ 00″	0.92061847	0.39046335	2.357759002	0.424131558	2.561059841	1.086226302
67° 01′ 10″	0.92063740	0.39041871	2.358077029	0.424074357	2.561352626	1.086203968
67° 01′ 20″ 67° 01′ 30″	0.92065633	0.39037408	2.358395129	0.424017158	2.561645483	1.086181638
67° 01′ 40″	0.92067525	0.39032945 0.39028481	2.358713301 2.359031546	0.423959961 0.423902767	2.561938414 2.562231417	1.086159311 1.086136988
67° 01′ 50″	0.92069418	0.39024017		0.423845575	2.562524494	1.086136768
67° 02′ 00″	0.92073202	0.39019553	2.359349864 2.359668255	0.423788385	2.562324474	1.086092351
67° 02′ 10″	0.92075093	0.39015090	2.359986719	0.423731198	2.563110866	1.086072331
67° 02′ 20″	0.92076985	0.39010626	2.360305256	0.423731178	2.563404162	1.086070038
67° 02′ 30″	0.72078783	0.37010020	2.360623865	0.423616831	2.563697531	1.086047727
67° 02′ 40″	0.92080767	0.39001697	2.360942548	0.423559650	2.563990974	1.086023423
67° 02′ 50″	0.92082657	0.38997233	2.361261303	0.423502472	2.564284489	1.085980821
67° 03′ 00″	0.72082637	0.38777233	2.361580131	0.423445297	2.564578078	1.085958526
67° 03′ 10″	0.72084348	0.38988304	2.361899033	0.423388124	2.564871740	1.085936234
67° 03′ 20″	0.92088328	0.38983840	2.362218007	0.423330953	2.565165475	1.085913945
67° 03′ 30″	0.92090218	0.38979375	2.362537055	0.423273784	2.565459283	1.085891660
67° 03′ 40″	0.92092108	0.38974911	2.362856175	0.423216618	2.565753165	1.085869378
67° 03′ 50″	0.92093997	0.38970446	2.363175369	0.423159454	2.566047121	1.085847100
	2., 20, 3, , ,	2.00,70110		2.120107101	2.000017121	

503 67° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
67° 04′ 00″	0.92095887	0.38965981	2.363494636	0.423102293	2.566341149	1.085824825
67° 04′ 10″	0.92097776	0.38961516	2.363813976	0.423045134	2.566635251	1.085802554
67° 04′ 20″	0.92099664	0.38957051	2.364133389	0.422987977	2.566929427	1.085780286
67° 04′ 30″	0.92101553	0.38952586	2.364452876	0.422930823	2.567223676	1.085758021
67° 04′ 40″	0.92103441	0.38948120	2.364772436	0.422873671	2.567517998	1.085735760
67° 04′ 50″	0.92105330	0.38943655	2.365092069	0.422816521	2.567812394	1.085713503
67° 05′ 00″	0.92107218	0.38939190	2.365411775	0.422759373	2.568106864	1.085691249
67° 05′ 10″	0.92109105	0.38934724	2.365731555	0.422702228	2.568401407	1.085668998
67° 05′ 20″	0.92110993	0.38930258	2.366051408	0.422645086	2.568696024	1.085646751
67° 05′ 30″	0.92112880	0.38925793	2.366371334	0.422587945	2.568990714	1.085624508
67° 05′ 40″	0.92114767	0.38921327	2.366691334	0.422530807	2.569285479	1.085602267
67° 05′ 50″	0.92116654	0.38916861	2.367011407	0.422473672	2.569580316	1.085580031
67° 06′ 00″	0.92118541	0.38912395	2.367331554	0.422416538	2.569875228	1.085557798
67° 06′ 10″	0.92120427	0.38907929	2.367651774	0.422359407	2.570170213	1.085535568
67° 06′ 20″	0.92122313	0.38903463	2.367972068	0.422302279	2.570465272	1.085513341
67° 06′ 30″	0.92124199	0.38898997	2.368292435	0.422245152	2.570760405	1.085491119
67° 06′ 40″	0.92126085	0.38894530	2.368612876	0.422188028	2.571055611	1.085468899
67° 06′ 50″	0.92127970	0.38890064	2.368933391	0.422130907	2.571350892	1.085446683
67° 07′ 00″	0.92129856	0.38885597	2.369253979	0.422073787	2.571646246	1.085424471
67° 07′ 10″	0.92131741	0.38881131	2.369574641	0.422016670	2.571941675	1.085402262
67° 07′ 20″	0.92133626	0.38876664	2.369895376	0.421959556	2.572237177	1.085380056
67° 07′ 30″	0.92135511	0.38872197	2.370216185	0.421902443	2.572532753	1.085357854
67° 07′ 40″	0.92137395	0.38867730	2.370537068	0.421845333	2.572828403	1.085335656
67° 07′ 50″	0.92139279	0.38863263	2.370858025	0.421788226	2.573124127	1.085313460
67° 08′ 00″	0.92141163	0.38858796	2.371179055	0.421731121	2.573419925	1.085291269
67° 08′ 10″	0.92143047	0.38854329	2.371500160	0.421674018	2.573715798	1.085269081
67° 08′ 20″	0.92144931	0.38849862	2.371821338	0.421616917	2.574011744	1.085246896
67° 08′ 30″	0.92146814	0.38845394	2.372142590	0.421559819	2.574307764	1.085224714
67° 08′ 40″	0.92148697	0.38840927	2.372463916	0.421502723	2.574603859	1.085202537
67° 08′ 50″	0.92150580	0.38836459	2.372785316	0.421445629	2.574900028	1.085180362
67° 09′ 00″	0.92152463	0.38831992	2.373106789	0.421388538	2.575196271	1.085158191
67° 09′ 10″	0.92154345	0.38827524	2.373428337	0.421331449	2.575492588	1.085136024
67° 09′ 20″	0.92156228	0.38823056	2.373749959	0.421274362	2.575788980	1.085113860
67° 09′ 30″	0.92158110	0.38818588	2.374071655	0.421217278	2.576085445	1.085091699
67° 09′ 40″	0.92159992	0.38814120	2.374393425	0.421160196	2.576381985	1.085069542
67° 09′ 50″	0.92161873	0.38809652	2.374715269	0.421103116	2.576678600	1.085047388
67° 10′ 00″	0.92163755	0.38805184	2.375037187	0.421046039	2.576975289	1.085025238
67° 10′ 10″	0.92165636	0.38800716	2.375359179	0.420988964	2.577272052	1.085003091
67° 10′ 20″	0.92167517	0.38796247	2.375681245	0.420931891	2.577568889	1.084980948
67° 10′ 30″	0.92169398	0.38791779	2.376003386	0.420874821	2.577865801	1.084958808
67° 10′ 40″	0.92171278	0.38787310	2.376325601	0.420817753	2.578162788	1.084936672
67° 10′ 50″	0.92173159	0.38782842	2.376647890	0.420760687	2.578459849	1.084914539
67° 11′ 00″	0.92175039	0.38778373	2.376970253	0.420703624	2.578756984	1.084892409
67° 11′ 10″	0.92176919	0.38773904	2.377292691	0.420646563	2.579054194	1.084870283
67° 11′ 20″	0.92178799	0.38769435	2.377615203	0.420589504	2.579351479	1.084848160
67° 11′ 30″	0.92180678	0.38764966	2.377937789	0.420532448	2.579648838	1.084826041
67° 11′ 40″ 67° 11′ 50″	0.92182557	0.38760497	2.378260450	0.420475394	2.579946272 2.580243781	1.084803926
=======================================	0.74104436	0.38756028	2.378583185	0.420418342	2.300243/01	1.084781813

504 67° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
67° 12′ 00″	0.92186315	0.38751559	2.378905995	0.420361293	2.580541364	1.084759705
67° 12′ 10″	0.92188194	0.38747089	2.379228879	0.420304246	2.580839022	1.084737599
67° 12′ 20″	0.92190072	0.38742620	2.379551837	0.420247201	2.581136755	1.084715497
67° 12′ 30″	0.92191950	0.38738150	2.379874870	0.420190159	2.581434562	1.084693399
67° 12′ 40″	0.92193828	0.38733681	2.380197978	0.420133119	2.581732444	1.084671304
67° 12′ 50″	0.92195706	0.38729211	2.380521160	0.420076081	2.582030401	1.084649212
67° 13′ 00″	0.92197584	0.38724741	2.380844417	0.420019046	2.582328433	1.084627124
67° 13′ 10″	0.92199461	0.38720271	2.381167748	0.419962013	2.582626540	1.084605040
67° 13′ 20″	0.92201338	0.38715801	2.381491154	0.419904982	2.582924722	1.084582958
67° 13′ 30″	0.92203215	0.38711331	2.381814635	0.419847953	2.583222979	1.084560881
67° 13′ 40″	0.92205092	0.38706861	2.382138191	0.419790927	2.583521310	1.084538806
67° 13′ 50″	0.92206968	0.38702391	2.382461821	0.419733903	2.583819717	1.084516736
67° 14′ 00″	0.92208844	0.38697920	2.382785526	0.419676882	2.584118198	1.084494668
67° 14′ 10″	0.92210720	0.38693450	2.383109306	0.419619863	2.584416755	1.084472604
67° 14′ 20″	0.92212596	0.38688979	2.383433161	0.419562846	2.584715387	1.084450544
67° 14′ 30″	0.92214472	0.38684509	2.383757090	0.419505831	2.585014094	1.084428487
67° 14′ 40″	0.92216347	0.38680038	2.384081094	0.419448819	2.585312876	1.084406433
67° 14′ 50″	0.92218222	0.38675567	2.384405174	0.419391809	2.585611733	1.084384383
67° 15′ 00″	0.92220097	0.38671096	2.384729328	0.419334802	2.585910665	1.084362336
67° 15′ 10″	0.92221972	0.38666625	2.385053557	0.419277797	2.586209673	1.084340293
67° 15′ 20″	0.92223846	0.38662154	2.385377861	0.419220794	2.586508755	1.084318253
67° 15′ 30″	0.92225721	0.38657683	2.385702241	0.419163793	2.586807913	1.084296217
67° 15′ 40″	0.92227595	0.38653212	2.386026695	0.419106795	2.587107147	1.084274184
67° 15′ 50″	0.92229469	0.38648740	2.386351224	0.419049799	2.587406455	1.084252154
67° 16′ 00″	0.92231342	0.38644269	2.386675829	0.418992805	2.587705839	1.084230128
67° 16′ 10″	0.92233216	0.38639797	2.387000508	0.418935814	2.588005299	1.084208105
67° 16′ 20″	0.92235089	0.38635326	2.387325263	0.418878825	2.588304833	1.084186086
67° 16′ 30″	0.92236962	0.38630854	2.387650093	0.418821838	2.588604444	1.084164071
67° 16′ 40″	0.92238835	0.38626382	2.387974998	0.418764853	2.588904129	1.084142058
67° 16′ 50″	0.92240707	0.38621910	2.388299978	0.418707871	2.589203890	1.084120049
67° 17′ 00″	0.92242579	0.38617438	2.388625034	0.418650892	2.589503727	1.084098044
67° 17′ 10″	0.92244452	0.38612966	2.388950165	0.418593914	2.589803639	1.084076042
67° 17′ 20″	0.92246324	0.38608494	2.389275371	0.418536939	2.590103627	1.084054044
67° 17′ 30″	0.92248195	0.38604022	2.389600652	0.418479966	2.590403690	1.084032048
67° 17′ 40″	0.92250067	0.38599549	2.389926009	0.418422996	2.590703829	1.084010057
67° 17′ 50″ 67° 18′ 00″	0.92251938	0.38595077	2.390251442 2.390576950	0.418366027	2.591004044	1.083988069
67° 18′ 10″	0.92253809 0.92255680	0.38590604 0.38586132	2.390902533	0.418309061 0.418252098	2.591304334 2.591604700	1.083966084 1.083944102
67° 18′ 20″	0.92257550	0.38581659	2.391228191	0.418195137	2.591905142	1.083944102
67° 18′ 30″	0.92259421	0.38577186	2.391553926	0.418138178	2.592205659	1.083922123
67° 18′ 40″	0.92261291	0.38572713	2.391879736	0.418081221	2.592506252	1.083878179
67° 18′ 50″	0.92263161	0.38568240	2.391077736	0.418024267	2.592806922	1.083856212
67° 19′ 00″	0.72265161	0.38563767	2.392531582	0.417967314	2.593107667	1.083834247
67° 19′ 10″	0.72265031	0.38559294	2.392857618	0.417910365	2.593408487	1.083834247
67° 19′ 20″	0.92268769	0.38554821	2.393183731	0.417710303	2.593709384	1.083790329
67° 19′ 30″	0.92270638	0.38550347	2.393509919	0.417796472	2.594010357	1.083768376
67° 19′ 40″	0.92272507	0.38545874	2.393836182	0.417739529	2.594311405	1.083746425
67° 19′ 50″	0.92274376	0.38541400	2.394162522	0.417682589	2.594612530	1.083724478
	1 31, 22, 13, 6	2.00011100	2.07.1702022	21117 002007	2.07.1012000	

505 67° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
67° 20′ 00″	0.92276244	0.38536927	2.394488937	0.417625651	2.594913730	1.083702535
67° 20′ 10″	0.92278113	0.38532453	2.394815428	0.417568715	2.595215007	1.083680595
67° 20′ 20″	0.92279981	0.38527979	2.395141994	0.417511781	2.595516360	1.083658658
67° 20′ 30″	0.92281848	0.38523505	2.395468637	0.417454850	2.595817789	1.083636725
67° 20′ 40″	0.92283716	0.38519031	2.395795356	0.417397921	2.596119293	1.083614795
67° 20′ 50″	0.92285583	0.38514557	2.396122150	0.417340994	2.596420875	1.083592869
67° 21′ 00″	0.92287450	0.38510083	2.396449020	0.417284070	2.596722532	1.083570946
67° 21′ 10″	0.92289317	0.38505609	2.396775967	0.417227148	2.597024265	1.083549026
67° 21′ 20″	0.92291184	0.38501134	2.397102989	0.417170228	2.597326075	1.083527110
67° 21′ 30″	0.92293051	0.38496660	2.397430087	0.417113310	2.597627961	1.083505198
67° 21′ 40″	0.92294917	0.38492185	2.397757262	0.417056395	2.597929923	1.083483289
67° 21′ 50″	0.92296783	0.38487711	2.398084512	0.416999482	2.598231962	1.083461383
67° 22′ 00″	0.92298649	0.38483236	2.398411839	0.416942572	2.598534077	1.083439481
67° 22′ 10″	0.92300514	0.38478761	2.398739241	0.416885663	2.598836268	1.083417582
67° 22′ 20″	0.92302380	0.38474286	2.399066720	0.416828757	2.599138536	1.083395686
67° 22′ 30″	0.92304245	0.38469811	2.399394275	0.416771854	2.599440880	1.083373794
67° 22′ 40″	0.92306110	0.38465336	2.399721906	0.416714952	2.599743300	1.083351906
67° 22′ 50″	0.92307975	0.38460861	2.400049614	0.416658053	2.600045797	1.083330021
67° 23′ 00″	0.92309839	0.38456386	2.400377397	0.416601157	2.600348371	1.083308139
67° 23′ 10″	0.92311703	0.38451910	2.400705257	0.416544262	2.600651021	1.083286261
67° 23′ 20″	0.92313568	0.38447435	2.401033194	0.416487370	2.600953748	1.083264386
67° 23′ 30″	0.92315431	0.38442959	2.401361207	0.416430480	2.601256551	1.083242514
67° 23′ 40″	0.92317295	0.38438484	2.401689296	0.416373592	2.601559431	1.083220646
67° 23′ 50″	0.92319158	0.38434008	2.402017461	0.416316707	2.601862388	1.083198782
67° 24′ 00″	0.92321022	0.38429532	2.402345703	0.416259824	2.602165421	1.083176921
67° 24′ 10″	0.92322885	0.38425056	2.402674022	0.416202943	2.602468531	1.083155063
67° 24′ 20″	0.92324748	0.38420580	2.403002416	0.416146065	2.602771718	1.083133209
67° 24′ 30″	0.92326610	0.38416104	2.403330888	0.416089189	2.603074981	1.083111358
67° 24′ 40″	0.92328472	0.38411628	2.403659436	0.416032315	2.603378321	1.083089510
67° 24′ 50″	0.92330335	0.38407152	2.403988060	0.415975444	2.603681738	1.083067666
67° 25′ 00″	0.92332197	0.38402676	2.404316762	0.415918574	2.603985232	1.083045826
67° 25′ 10″	0.92334058	0.38398199	2.404645540	0.415861708	2.604288803	1.083023989
67° 25′ 20″	0.92335920	0.38393723	2.404974394	0.415804843	2.604592451	1.083002155
67° 25′ 30″	0.92337781	0.38389246	2.405303325	0.415747981	2.604896176	1.082980325
67° 25′ 40″	0.92339642	0.38384769	2.405632333	0.415691120	2.605199977	1.082958498
67° 25′ 50″ 67° 26′ 00″	0.92341503	0.38380292	2.405961418	0.415634263	2.605503856	1.082936674
67° 26′ 10″	0.92343363	0.38375816	2.406290579	0.415577407	2.605807812	1.082914854
67° 26′ 10″	0.92345224	0.38371339	2.406619817	0.415520554	2.606111844	1.082893038
67° 26′ 30″	0.92347084 0.92348944	0.38366862 0.38362384	2.406949133 2.407278525	0.415463703	2.606415954 2.606720141	1.082871224 1.082849415
67° 26′ 40″	0.92350804	0.38357907	2.407278323	0.415406855 0.415350008	2.607024405	1.082827608
67° 26′ 40″	0.92352663	0.38353430	2.407607993	0.415350008	2.607024403	1.082827608
67° 26′ 30″	0.92354523	0.38348952	2.407937339	0.415236323	2.607528747	1.082803803
67° 27′ 10″	0.92356382	0.38344475	2.408596862	0.415256525	2.6076337661	1.082764006
67° 27′ 20″	0.92358241	0.38339997	2.408926638	0.415179465	2.607737661	1.082762210
67° 27′ 30″	0.92360099	0.38335520	2.408726636	0.415122646	2.608546884	1.082740417
67° 27′ 40″	0.92361958	0.38333320	2.409586423	0.415008979	2.608346864	1.082696842
67° 27′ 50″	0.72361736	0.38326564	2.409916431	0.414952148	2.609156416	1.082676042
=======================================	0.72303010	0.30320304	<u> </u>	0.717/32140	2.00/130410	1.002073000

506 67° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
67° 28′ 00″	0.92365674	0.38322086	2.410246516	0.414895320	2.609461298	1.082653281
67° 28′ 10″	0.92367532	0.38317608	2.410576678	0.414838494	2.609766258	1.082631505
67° 28′ 20″	0.92369389	0.38313130	2.410906917	0.414781671	2.610071295	1.082609733
67° 28′ 30″	0.92371247	0.38308651	2.411237234	0.414724850	2.610376409	1.082587965
67° 28′ 40″	0.92373104	0.38304173	2.411567628	0.414668031	2.610681601	1.082566199
67° 28′ 50″	0.92374961	0.38299695	2.411898099	0.414611214	2.610986871	1.082544438
67° 29′ 00″	0.92376818	0.38295216	2.412228647	0.414554400	2.611292218	1.082522679
67° 29′ 10″	0.92378674	0.38290738	2.412559273	0.414497588	2.611597642	1.082500924
67° 29′ 20″	0.92380530	0.38286259	2.412889976	0.414440778	2.611903145	1.082479172
67° 29′ 30″	0.92382386	0.38281780	2.413220757	0.414383971	2.612208724	1.082457424
67° 29′ 40″	0.92384242	0.38277301	2.413551614	0.414327166	2.612514382	1.082435680
67° 29′ 50″	0.92386098	0.38272822	2.413882550	0.414270363	2.612820117	1.082413938
67° 30′ 00″	0.92387953	0.38268343	2.414213562	0.414213562	2.613125930	1.082392200
67° 30′ 10″	0.92389808	0.38263864	2.414544653	0.414156764	2.613431820	1.082370466
67° 30′ 20″	0.92391663	0.38259385	2.414875820	0.414099968	2.613737789	1.082348735
67° 30′ 30″	0.92393518	0.38254906	2.415207066	0.414043174	2.614043835	1.082327007
67° 30′ 40″	0.92395373	0.38250426	2.415538389	0.413986383	2.614349959	1.082305283
67° 30′ 50″	0.92397227	0.38245947	2.415869789	0.413929594	2.614656161	1.082283562
67° 31′ 00″	0.92399081	0.38241467	2.416201267	0.413872807	2.614962440	1.082261845
67° 31′ 10″	0.92400935	0.38236987	2.416532823	0.413816022	2.615268798	1.082240131
67° 31′ 20″	0.92402789	0.38232508	2.416864457	0.413759240	2.615575233	1.082218420
67° 31′ 30″	0.92404642	0.38228028	2.417196168	0.413702460	2.615881747	1.082196713
67° 31′ 40″	0.92406495	0.38223548	2.417527957	0.413645682	2.616188338	1.082175009
67° 31′ 50″	0.92408348	0.38219068	2.417859824	0.413588906	2.616495008	1.082153309
67° 32′ 00″	0.92410201	0.38214588	2.418191768	0.413532133	2.616801756	1.082131612
67° 32′ 10″	0.92412054	0.38210107	2.418523791	0.413475362	2.617108581	1.082109918
67° 32′ 20″	0.92413906	0.38205627	2.418855891	0.413418593	2.617415485	1.082088228
67° 32′ 30″	0.92415758	0.38201147	2.419188069	0.413361827	2.617722467	1.082066541
67° 32′ 40″	0.92417610	0.38196666	2.419520325	0.413305063	2.618029527	1.082044858
67° 32′ 50″	0.92419462	0.38192186	2.419852659	0.413248301	2.618336665	1.082023178
67° 33′ 00″	0.92421313	0.38187705	2.420185071	0.413191541	2.618643882	1.082001502
67° 33′ 10″	0.92423165	0.38183224	2.420517562	0.413134784	2.618951177	1.081979829
67° 33′ 20″ 67° 33′ 30″	0.92425016	0.38178743	2.420850130	0.413078029	2.619258550	1.081958159
67° 33′ 40″	0.92426867	0.38174262 0.38169781	2.421182776 2.421515500	0.413021276 0.412964526	2.619566001 2.619873531	1.081936493 1.081914830
67° 33′ 50″	0.92430568	0.38165300		0.412907777	2.620181139	1.081914630
67° 34′ 00″	0.92432418	0.38160819	2.421848303 2.422181183	0.412907777	2.620181139	1.081871515
67° 34′ 10″	0.72432418	0.38156338	2.422514142	0.412794288	2.620796590	1.081849862
67° 34′ 20″	0.72434268	0.38151856	2.422847179	0.412734288	2.620776370	1.081828213
67° 34′ 30″	0.72436118	0.38131836	2.423180294	0.412737348	2.621412356	1.081806567
67° 34′ 40″	0.72437767	0.38147373	2.423513488	0.412686867	2.621720356	1.081784925
67° 34′ 50″	0.72437817	0.38138412	2.423846760	0.412567336	2.622028435	1.081764725
67° 35′ 00″	0.92443515	0.38133930	2.424180110	0.412510603	2.622336593	1.081741650
67° 35′ 10″	0.72445363	0.38129448	2.424513538	0.412453873	2.622644829	1.081741030
67° 35′ 20″	0.92447212	0.38124966	2.424847045	0.412397146	2.622953144	1.081698389
67° 35′ 30″	0.92449060	0.38120484	2.425180631	0.412340420	2.623261537	1.081676764
67° 35′ 40″	0.92450908	0.38116002	2.425514295	0.412283697	2.623570009	1.081655142
67° 35′ 50″	0.92452756	0.38111520	2.425848037	0.412226976	2.623878560	1.081633524
	3.72.32730	3.00111020	2200 10007	2.1.12220770		

507 67° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
67° 36′ 00″	0.92454603	0.38107038	2.426181858	0.412170257	2.624187190	1.081611909
67° 36′ 10″	0.92456451	0.38102555	2.426515757	0.412113541	2.624495898	1.081590297
67° 36′ 20″	0.92458298	0.38098073	2.426849735	0.412056826	2.624804685	1.081568689
67° 36′ 30″	0.92460145	0.38093590	2.427183792	0.412000114	2.625113551	1.081547084
67° 36′ 40″	0.92461992	0.38089108	2.427517927	0.411943405	2.625422496	1.081525482
67° 36′ 50″	0.92463838	0.38084625	2.427852140	0.411886697	2.625731520	1.081503884
67° 37′ 00″	0.92465684	0.38080142	2.428186433	0.411829992	2.626040623	1.081482290
67° 37′ 10″	0.92467530	0.38075659	2.428520804	0.411773289	2.626349805	1.081460698
67° 37′ 20″	0.92469376	0.38071176	2.428855254	0.411716589	2.626659065	1.081439110
67° 37′ 30″	0.92471222	0.38066693	2.429189783	0.411659890	2.626968405	1.081417526
67° 37′ 40″	0.92473067	0.38062210	2.429524390	0.411603194	2.627277824	1.081395945
67° 37′ 50″	0.92474913	0.38057727	2.429859077	0.411546501	2.627587322	1.081374367
67° 38′ 00″	0.92476757	0.38053243	2.430193842	0.411489809	2.627896899	1.081352793
67° 38′ 10″	0.92478602	0.38048760	2.430528686	0.411433120	2.628206555	1.081331222
67° 38′ 20″	0.92480447	0.38044276	2.430863609	0.411376433	2.628516290	1.081309655
67° 38′ 30″	0.92482291	0.38039793	2.431198611	0.411319748	2.628826104	1.081288091
67° 38′ 40″	0.92484135	0.38035309	2.431533692	0.411263065	2.629135998	1.081266530
67° 38′ 50″	0.92485979	0.38030825	2.431868852	0.411206385	2.629445971	1.081244973
67° 39′ 00″	0.92487823	0.38026341	2.432204091	0.411149707	2.629756023	1.081223419
67° 39′ 10″	0.92489666	0.38021857	2.432539409	0.411093032	2.630066155	1.081201869
67° 39′ 20″	0.92491510	0.38017373	2.432874806	0.411036358	2.630376365	1.081180322
67° 39′ 30″	0.92493353	0.38012889	2.433210283	0.410979687	2.630686656	1.081158778
67° 39′ 40″	0.92495195	0.38008405	2.433545838	0.410923018	2.630997025	1.081137238
67° 39′ 50″	0.92497038	0.38003920	2.433881473	0.410866351	2.631307474	1.081115701
67° 40′ 00″	0.92498880	0.37999436	2.434217187	0.410809687	2.631618003	1.081094167
67° 40′ 10″	0.92500722	0.37994952	2.434552980	0.410753025	2.631928611	1.081072637
67° 40′ 20″	0.92502564	0.37990467	2.434888852	0.410696365	2.632239298	1.081051111
67° 40′ 30″	0.92504406	0.37985982	2.435224804	0.410639707	2.632550065	1.081029587
67° 40′ 40″	0.92506248	0.37981497	2.435560835	0.410583052	2.632860912	1.081008068
67° 40′ 50″	0.92508089	0.37977013	2.435896946	0.410526398	2.633171838	1.080986551
67° 41′ 00″	0.92509930	0.37972528	2.436233135	0.410469748	2.633482844	1.080965038
67° 41′ 10″	0.92511771	0.37968043	2.436569405	0.410413099	2.633793930	1.080943528
67° 41′ 20″	0.92513611	0.37963557	2.436905753	0.410356452	2.634105095	1.080922022
67° 41′ 30″	0.92515452	0.37959072	2.437242182	0.410299808	2.634416340	1.080900519
67° 41′ 40″	0.92517292	0.37954587	2.437578689	0.410243166	2.634727665	1.080879020
67° 41′ 50″	0.92519132	0.37950101	2.437915277	0.410186527	2.635039069	1.080857524
67° 42′ 00″	0.92520972	0.37945616	2.438251943	0.410129889	2.635350553	1.080836031
67° 42′ 10″	0.92522811	0.37941130	2.438588690	0.410073254	2.635662118	1.080814542
67° 42′ 20″	0.92524651	0.37936645	2.438925516	0.410016621	2.635973762	1.080793056
67° 42′ 30″	0.92526490	0.37932159	2.439262422	0.409959991	2.636285486	1.080771574
67° 42′ 40″	0.92528329	0.37927673	2.439599407	0.409903362	2.636597289	1.080750094
67° 42′ 50″ 67° 43′ 00″	0.92530167	0.37923187	2.439936472	0.409846736	2.636909173	1.080728619
	0.92532006	0.37918701	2.440273617	0.409790112	2.637221137	1.080707146
67° 43′ 10″ 67° 43′ 20″	0.92533844	0.37914215	2.440610842	0.409733491	2.637533181	1.080685677
67° 43′ 20″ 67° 43′ 30″	0.92535682	0.37909729	2.440948146	0.409676871 0.409620254	2.637845305	1.080664212
67° 43′ 40″	0.92537520	0.37905242	2.441285530 2.441622995		2.638157509	1.080642750
67° 43′ 40″ 67° 43′ 50″	0.92539358 0.92541195	0.37900756 0.37896270	2.441622993	0.409563640 0.409507027	2.638469793 2.638782157	1.080621291 1.080599836
=======================================	0.74341173	0.3/0704/0	4. 44 1700337	0.40730/02/	2.030/0213/	1.000377030

508 67° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
67° 44′ 00″	0.92543032	0.37891783	2.442298163	0.409450417	2.639094602	1.080578384
67° 44′ 10″	0.92544869	0.37887296	2.442635867	0.409393808	2.639407126	1.080556935
67° 44′ 20″	0.92546706	0.37882810	2.442973651	0.409337202	2.639719731	1.080535490
67° 44′ 30″	0.92548542	0.37878323	2.443311515	0.409280599	2.640032416	1.080514048
67° 44′ 40″	0.92550378	0.37873836	2.443649459	0.409223997	2.640345182	1.080492610
67° 44′ 50″	0.92552215	0.37869349	2.443987483	0.409167398	2.640658027	1.080471175
67° 45′ 00″	0.92554050	0.37864862	2.444325587	0.409110801	2.640970953	1.080449743
67° 45′ 10″	0.92555886	0.37860375	2.444663772	0.409054207	2.641283960	1.080428315
67° 45′ 20″	0.92557721	0.37855887	2.445002036	0.408997614	2.641597047	1.080406890
67° 45′ 30″	0.92559557	0.37851400	2.445340381	0.408941024	2.641910214	1.080385469
67° 45′ 40″	0.92561392	0.37846912	2.445678806	0.408884436	2.642223462	1.080364051
67° 45′ 50″	0.92563226	0.37842425	2.446017311	0.408827851	2.642536790	1.080342636
67° 46′ 00″	0.92565061	0.37837937	2.446355897	0.408771267	2.642850199	1.080321225
67° 46′ 10″	0.92566895	0.37833450	2.446694563	0.408714686	2.643163689	1.080299817
67° 46′ 20″	0.92568729	0.37828962	2.447033309	0.408658107	2.643477259	1.080278412
67° 46′ 30″	0.92570563	0.37824474	2.447372136	0.408601530	2.643790909	1.080257011
67° 46′ 40″	0.92572397	0.37819986	2.447711043	0.408544956	2.644104640	1.080235614
67° 46′ 50″	0.92574230	0.37815498	2.448050030	0.408488384	2.644418452	1.080214219
67° 47′ 00″	0.92576064	0.37811010	2.448389098	0.408431814	2.644732345	1.080192828
67° 47′ 10″	0.92577897	0.37806521	2.448728247	0.408375246	2.645046318	1.080171441
67° 47′ 20″	0.92579729	0.37802033	2.449067476	0.408318680	2.645360373	1.080150057
67° 47′ 30″	0.92581562	0.37797545	2.449406785	0.408262117	2.645674508	1.080128676
67° 47′ 40″	0.92583394	0.37793056	2.449746176	0.408205556	2.645988724	1.080107298
67° 47′ 50″	0.92585227	0.37788567	2.450085646	0.408148997	2.646303020	1.080085924
67° 48′ 00″	0.92587058	0.37784079	2.450425198	0.408092441	2.646617398	1.080064554
67° 48′ 10″	0.92588890	0.37779590	2.450764830	0.408035886	2.646931856	1.080043186
67° 48′ 20″	0.92590722	0.37775101	2.451104543	0.407979334	2.647246396	1.080021823
67° 48′ 30″	0.92592553	0.37770612	2.451444337	0.407922785	2.647561016	1.080000462
67° 48′ 40″	0.92594384	0.37766123	2.451784211	0.407866237	2.647875718	1.079979105
67° 48′ 50″	0.92596215	0.37761634	2.452124166	0.407809692	2.648190500	1.079957751
67° 49′ 00″	0.92598046	0.37757145	2.452464202	0.407753148	2.648505364	1.079936401
67° 49′ 10″ 67° 49′ 20″	0.92599876	0.37752655	2.452804319	0.407696608	2.648820309	1.079915054
67° 49′ 30″	0.92601706	0.37748166	2.453144517 2.453484796	0.407640069 0.407583533	2.649135335 2.649450442	1.079893710 1.079872370
67° 49′ 40″	0.92605366	0.37743676 0.37739187	2.453825155	0.407526998	2.649765630	1.079851033
67° 49′ 50″	0.92607195	0.37734697	2.453825155	0.407326778	2.650080899	1.079829700
67° 50′ 00″	0.92609025	0.37734677	2.454506118	0.407413937	2.650396250	1.079808370
67° 50′ 10″	0.72607023	0.37730207	2.454846720	0.407357409	2.650711682	1.079787043
67° 50′ 20″	0.92612683	0.37721228	2.455187404	0.407300884	2.651027195	1.079765720
67° 50′ 30″	0.92614511	0.37721228	2.455528169	0.407244361	2.651342790	1.079744400
67° 50′ 40″	0.92616340	0.37710737	2.455869015	0.407187840	2.651658466	1.079723084
67° 50′ 50″	0.92618168	0.37707757	2.456209943	0.407131322	2.651974224	1.079701770
67° 51′ 00″	0.92619996	0.37707737	2.456550951	0.407074805	2.652290062	1.079680461
67° 51′ 10″	0.92621824	0.37698776	2.456892041	0.407018291	2.652605983	1.079659154
67° 51′ 20″	0.92623651	0.37694286	2.457233212	0.406961779	2.652921985	1.079637851
67° 51′ 30″	0.92625479	0.37689795	2.457574464	0.406905270	2.653238068	1.079616552
67° 51′ 40″	0.92627306	0.37685305	2.457915798	0.406848762	2.653554233	1.079595255
67° 51′ 50″	0.92629133	0.37680814	2.458257213	0.406792257	2.653870480	1.079573962
	1 202, 100					

509 67° 51′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
67° 52′ 00″	0.92630960	0.37676323	2.458598709	0.406735754	2.654186808	1.079552673
67° 52′ 10″	0.92632786	0.37671832	2.458940287	0.406679253	2.654503218	1.079531387
67° 52′ 20″	0.92634612	0.37667341	2.459281946	0.406622755	2.654819710	1.079510104
67° 52′ 30″	0.92636438	0.37662850	2.459623687	0.406566259	2.655136283	1.079488825
67° 52′ 40″	0.92638264	0.37658359	2.459965509	0.406509765	2.655452938	1.079467549
67° 52′ 50″	0.92640090	0.37653868	2.460307413	0.406453273	2.655769675	1.079446276
67° 53′ 00″	0.92641915	0.37649376	2.460649398	0.406396783	2.656086493	1.079425007
67° 53′ 10″	0.92643740	0.37644885	2.460991465	0.406340296	2.656403394	1.079403741
67° 53′ 20″	0.92645565	0.37640393	2.461333614	0.406283811	2.656720376	1.079382478
67° 53′ 30″	0.92647390	0.37635902	2.461675844	0.406227328	2.657037441	1.079361219
67° 53′ 40″	0.92649215	0.37631410	2.462018156	0.406170847	2.657354587	1.079339964
67° 53′ 50″	0.92651039	0.37626918	2.462360549	0.406114369	2.657671815	1.079318711
67° 54′ 00″	0.92652863	0.37622426	2.462703025	0.406057892	2.657989125	1.079297462
67° 54′ 10″	0.92654687	0.37617934	2.463045582	0.406001418	2.658306517	1.079276217
67° 54′ 20″	0.92656511	0.37613442	2.463388221	0.405944947	2.658623991	1.079254974
67° 54′ 30″	0.92658334	0.37608950	2.463730942	0.405888477	2.658941548	1.079233735
67° 54′ 40″	0.92660157	0.37604458	2.464073745	0.405832010	2.659259186	1.079212500
67° 54′ 50″	0.92661980	0.37599966	2.464416629	0.405775545	2.659576907	1.079191268
67° 55′ 00″	0.92663803	0.37595473	2.464759596	0.405719082	2.659894710	1.079170039
67° 55′ 10″	0.92665626	0.37590981	2.465102645	0.405662621	2.660212595	1.079148814
67° 55′ 20″	0.92667448	0.37586488	2.465445775	0.405606163	2.660530562	1.079127592
67° 55′ 30″	0.92669270	0.37581995	2.465788988	0.405549706	2.660848611	1.079106373
67° 55′ 40″	0.92671092	0.37577503	2.466132283	0.405493252	2.661166743	1.079085158
67° 55′ 50″	0.92672914	0.37573010	2.466475660	0.405436801	2.661484958	1.079063946
67° 56′ 00″	0.92674735	0.37568517	2.466819118	0.405380351	2.661803254	1.079042737
67° 56′ 10″	0.92676557	0.37564024	2.467162660	0.405323904	2.662121633	1.079021532
67° 56′ 20″	0.92678378	0.37559531	2.467506283	0.405267458	2.662440094	1.079000330
67° 56′ 30″	0.92680198	0.37555037	2.467849988	0.405211016	2.662758638	1.078979132
67° 56′ 40″	0.92682019	0.37550544	2.468193776	0.405154575	2.663077265	1.078957937
67° 56′ 50″	0.92683839	0.37546051	2.468537646	0.405098136	2.663395973	1.078936745
67° 57′ 00″	0.92685660	0.37541557	2.468881599	0.405041700	2.663714765	1.078915557
67° 57′ 10″	0.92687480	0.37537064	2.469225633	0.404985266	2.664033639	1.078894372
67° 57′ 20″	0.92689299	0.37532570	2.469569750	0.404928834	2.664352595	1.078873190
67° 57′ 30″	0.92691119	0.37528076	2.469913950	0.404872405	2.664671635	1.078852012
67° 57′ 40″	0.92692938	0.37523582	2.470258232	0.404815977	2.664990757	1.078830837
67° 57′ 50″	0.92694757	0.37519088	2.470602596	0.404759552	2.665309961	1.078809666
67° 58′ 00″	0.92696576	0.37514594	2.470947043	0.404703129	2.665629249	1.078788498
67° 58′ 10″	0.92698395	0.37510100	2.471291573	0.404646708	2.665948619	1.078767333
67° 58′ 20″	0.92700213	0.37505606	2.471636185	0.404590290	2.666268072	1.078746171
67° 58′ 30″	0.92702031	0.37501112	2.471980880	0.404533873	2.666587608	1.078725013
67° 58′ 40″	0.92703849	0.37496617	2.472325657	0.404477459	2.666907226	1.078703859
67° 58′ 50″	0.92705667	0.37492123	2.472670517	0.404421047	2.667226928	1.078682708
67° 59′ 00″ 67° 59′ 10″	0.92707485	0.37487628	2.473015459	0.404364638	2.667546712	1.078661560
67° 59′ 10″ 67° 59′ 20″	0.92709302	0.37483134	2.473360485	0.404308230	2.667866580	1.078640415
	0.92711119	0.37478639	2.473705593	0.404251825	2.668186530	1.078619274
67° 59′ 30″ 67° 59′ 40″	0.92712936	0.37474144	2.474050784	0.404195422	2.668506564	1.078598136
67° 59′ 40″ 67° 59′ 50″	0.92714753 0.92716569	0.37469649 0.37465154	2.474396057 2.474741414	0.404139021 0.404082622	2.668826680 2.669146880	1.078577002 1.078555870
01 37 30"	0.74/16369	0.37463134	2. 4/4/41414	0.404002622	2. 007 14688U	1.070000870

510 67° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
68° 00′ 00″	0.92718385	0.37460659	2.475086853	0.404026226	2.669467163	1.078534743
68° 00′ 10″	0.92720201	0.37456164	2.475432376	0.403969832	2.669787528	1.078513618
68° 00′ 20″	0.92722017	0.37451669	2.475777981	0.403913440	2.670107978	1.078492497
68° 00′ 30″	0.92723833	0.37447174	2.476123669	0.403857050	2.670428510	1.078471380
68° 00′ 40″	0.92725648	0.37442678	2.476469441	0.403800662	2.670749125	1.078450265
68° 00′ 50″	0.92727463	0.37438183	2.476815295	0.403744277	2.671069824	1.078429154
68° 01′ 00″	0.92729278	0.37433687	2.477161232	0.403687894	2.671390606	1.078408047
68° 01′ 10″	0.92731093	0.37429191	2.477507253	0.403631513	2.671711472	1.078386943
68° 01′ 20″	0.92732908	0.37424696	2.477853356	0.403575134	2.672032420	1.078365842
68° 01′ 30″	0.92734722	0.37420200	2.478199543	0.403518757	2.672353453	1.078344744
68° 01′ 40″	0.92736536	0.37415704	2.478545813	0.403462383	2.672674568	1.078323650
68° 01′ 50″	0.92738350	0.37411208	2.478892166	0.403406011	2.672995767	1.078302559
68° 02′ 00″	0.92740163	0.37406712	2.479238603	0.403349641	2.673317050	1.078281472
68° 02′ 10″	0.92741977	0.37402215	2.479585123	0.403293273	2.673638416	1.078260388
68° 02′ 20″	0.92743790	0.37397719	2.479931726	0.403236908	2.673959866	1.078239307
68° 02′ 30″	0.92745603	0.37393223	2.480278412	0.403180544	2.674281399	1.078218230
68° 02′ 40″	0.92747416	0.37388726	2.480625182	0.403124183	2.674603016	1.078197156
68° 02′ 50″	0.92749228	0.37384230	2.480972035	0.403067824	2.674924717	1.078176085
68° 03′ 00″	0.92751041	0.37379733	2.481318972	0.403011467	2.675246501	1.078155018
68° 03′ 10″	0.92752853	0.37375236	2.481665992	0.402955113	2.675568369	1.078133954
68° 03′ 20″	0.92754665	0.37370739	2.482013096	0.402898761	2.675890321	1.078112894
68° 03′ 30″	0.92756476	0.37366243	2.482360283	0.402842410	2.676212356	1.078091836
68° 03′ 40″	0.92758288	0.37361746	2.482707554	0.402786063	2.676534475	1.078070783
68° 03′ 50″	0.92760099	0.37357248	2.483054908	0.402729717	2.676856679	1.078049732
68° 04′ 00″	0.92761910	0.37352751	2.483402346	0.402673373	2.677178966	1.078028685
68° 04′ 10″	0.92763721	0.37348254	2.483749868	0.402617032	2.677501337	1.078007641
68° 04′ 20″	0.92765532	0.37343757	2.484097473	0.402560693	2.677823791	1.077986601
68° 04′ 30″	0.92767342	0.37339259	2.484445163	0.402504356	2.678146330	1.077965564
68° 04′ 40″	0.92769152	0.37334762	2.484792936	0.402448021	2.678468953	1.077944530
68° 04′ 50″	0.92770962	0.37330264	2.485140792	0.402391689	2.678791660	1.077923500
68° 05′ 00″	0.92772772	0.37325766	2.485488733	0.402335358	2.679114451	1.077902473
68° 05′ 10″	0.92774581	0.37321269	2.485836757	0.402279030	2.679437326	1.077881449
68° 05′ 20″	0.92776390	0.37316771	2.486184866	0.402222704	2.679760285	1.077860429
68° 05′ 30″	0.92778200	0.37312273	2.486533058	0.402166381	2.680083329	1.077839412
68° 05′ 40″	0.92780008	0.37307775	2.486881334	0.402110059	2.680406456	1.077818398
68° 05′ 50″	0.92781817	0.37303276	2.487229694	0.402053740	2.680729668	1.077797388
68° 06′ 00″	0.92783625	0.37298778	2.487578139	0.401997423	2.681052964	1.077776381
68° 06′ 10″	0.92785434	0.37294280	2.487926667	0.401941108	2.681376344	1.077755378
68° 06′ 20″	0.92787242	0.37289782	2.488275279	0.401884795	2.681699809	1.077734377
68° 06′ 30″	0.92789049	0.37285283	2.488623976	0.401828484	2.682023358	1.077713381
68° 06′ 40″	0.92790857	0.37280784	2.488972756	0.401772176	2.682346991	1.077692387
68° 06′ 50″	0.92792664	0.37276286	2.489321621	0.401715870	2.682670709	1.077671397
68° 07′ 00″ 68° 07′ 10″	0.92794471	0.37271787	2.489670570	0.401659566	2.682994511	1.077650410
	0.92796278	0.37267288	2.490019604	0.401603264	2.683318398	1.077629427
68° 07′ 20″	0.92798085	0.37262789	2.490368721	0.401546964	2.683642369	1.077608447
68° 07′ 30″ 68° 07′ 40″	0.92799891	0.37258290	2.490717923 2.491067209	0.401490667	2.683966425 2.684290566	1.077587470
68° 07′ 50″	0.92801697 0.92803503	0.37253791 0.37249292	2.491067209	0.401434372 0.401378079	2.684290366	1.077566497 1.077545527
00 07 30	0.72003303	0.3/247272	4.47 141030U	0.4013/00/9	∠.004014/71	1.077343327

511 68° 07′ 50″

	gin(a)	205(24)	ton(a)	ant(a)	gog(24)	aga(24)
χ 	$\sin(x)$	$\cos(x)$	$\frac{\tan(x)}{2.401766025}$	$\cot(x)$	$\sec(x)$	$\frac{\csc(x)}{1.077524562}$
68° 08′ 00″	0.92805309	0.37244793	2.491766035	0.401321788	2.684939100	1.077524560
68° 08′ 10″	0.92807115	0.37240293	2.492115574	0.401265499	2.685263495	1.077503597
68° 08′ 20″	0.92808920	0.37235794	2.492465198	0.401209213	2.685587974	1.077482637
68° 08′ 30″	0.92810725	0.37231294	2.492814907	0.401152928	2.685912538	1.077461680
68° 08′ 40″	0.92812530	0.37226795	2.493164700	0.401096646	2.686237186	1.077440727
68° 08′ 50″	0.92814335	0.37222295	2.493514577	0.401040367	2.686561919	1.077419777
68° 09′ 00″	0.92816139	0.37217795	2.493864539	0.400984089	2.686886738	1.077398830
68° 09′ 10″	0.92817944	0.37213295	2.494214586	0.400927813	2.687211641	1.077377887
68° 09′ 20″	0.92819748	0.37208795	2.494564718	0.400871540	2.687536629	1.077356947
68° 09′ 30″	0.92821552	0.37204295	2.494914934	0.400815269	2.687861702	1.077336011
68° 09′ 40″	0.92823355	0.37199795	2.495265235	0.400759000	2.688186860	1.077315077
68° 09′ 50″	0.92825159	0.37195295	2.495615620	0.400702733	2.688512102	1.077294148
68° 10′ 00″	0.92826962	0.37190794	2.495966091	0.400646469	2.688837430	1.077273221
68° 10′ 10″	0.92828765	0.37186294	2.496316646	0.400590206	2.689162843	1.077252298
68° 10′ 20″	0.92830567	0.37181793	2.496667286	0.400533946	2.689488341	1.077231378
68° 10′ 30″	0.92832370	0.37177293	2.497018011	0.400477688	2.689813925	1.077210462
68° 10′ 40″	0.92834172	0.37172792	2.497368821	0.400421432	2.690139593	1.077189548
68° 10′ 50″	0.92835974	0.37168291	2.497719716	0.400365178	2.690465346	1.077168639
68° 11′ 00″	0.92837776	0.37163791	2.498070696	0.400308927	2.690791185	1.077147732
68° 11′ 10″	0.92839578	0.37159290	2.498421761	0.400252678	2.691117109	1.077126829
68° 11′ 20″	0.92841379	0.37154789	2.498772911	0.400196431	2.691443119	1.077105929
68° 11′ 30″	0.92843180	0.37150287	2.499124146	0.400140186	2.691769213	1.077085033
68° 11′ 40″	0.92844981	0.37145786	2.499475466	0.400083943	2.692095393	1.077064140
68° 11′ 50″	0.92846782	0.37141285	2.499826872	0.400027702	2.692421659	1.077043250
68° 12′ 00″	0.92848583	0.37136784	2.500178362	0.399971464	2.692748010	1.077022364
68° 12′ 10″	0.92850383	0.37132282	2.500529938	0.399915228	2.693074446	1.077001481
68° 12′ 20″ 68° 12′ 30″	0.92852183	0.37127781	2.500881599	0.399858994	2.693400968	1.076980601
68° 12′ 40″	0.92853983	0.37123279	2.501233345	0.399802762	2.693727575	1.076959725
68° 12′ 50″	0.92855783	0.37118777 0.37114275	2.501585177 2.501937094	0.399746532 0.399690305	2.694054268 2.694381046	1.076938852 1.076917982
68° 13′ 00″	0.92859381	0.37114273	2.501737074	0.399634080	2.694707910	1.076897116
68° 13′ 10″	0.72837381	0.37107773	2.502641184	0.399577857	2.695034860	1.076877116
68° 13′ 20″	0.92862979	0.37103271	2.502993357	0.377577637	2.695361895	1.076876233
68° 13′ 30″	0.72862777	0.37100767	2.503345616	0.399465417	2.695689016	1.076833373
68° 13′ 40″	0.72864778	0.37076267	2.503697960	0.399409200	2.696016223	1.076813684
68° 13′ 50″	0.72868376	0.37071763	2.504050390	0.399352986	2.696343516	1.076792834
68° 14′ 00″	0.92870172	0.37082760	2.504402905	0.399296774	2.696670894	1.076771988
68° 14′ 10″	0.92871970	0.37078258	2.504755506	0.399240564	2.696998359	1.076751145
68° 14′ 20″	0.92873767	0.37073755	2.505108193	0.399184356	2.697325909	1.076730305
68° 14′ 30″	0.92875565	0.37069252	2.505460965	0.399128150	2.697653545	1.076709469
68° 14′ 40″	0.72873363	0.37067232	2.505813823	0.399071946	2.697981267	1.076688636
68° 14′ 50″	0.72877302	0.37060247	2.506166767	0.399015745	2.698309075	1.076667806
68° 15′ 00″	0.92880955	0.37055744	2.506519797	0.398959546	2.698636969	1.076646980
68° 15′ 10″	0.72880753	0.37053744	2.506872912	0.398903349	2.698964949	1.076626157
68° 15′ 20″	0.92884548	0.37031241	2.507226113	0.398847154	2.699293015	1.076626137
68° 15′ 30″	0.72886344	0.37046736	2.507579400	0.398790961	2.699621167	1.076584521
68° 15′ 40″	0.92888140	0.37042234	2.507932773	0.378770761	2.699949406	1.076563708
68° 15′ 50″	0.92889935	0.37037731	2.508286232	0.398678583	2.700277730	1.076542899
	0.72007733	0.37 033220	2.300200232	0.570070505	2.700277730	1.07 0342077

512 68° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
68° 16′ 00″	0.92891730	0.37028724	2.508639777	0.398622397	2.700606141	1.076522092
68° 16′ 10″	0.92893526	0.37024221	2.508993408	0.398566213	2.700934638	1.076501289
68° 16′ 20″	0.92895320	0.37019717	2.509347125	0.398510031	2.701263222	1.076480490
68° 16′ 30″	0.92897115	0.37015213	2.509700928	0.398453851	2.701591891	1.076459693
68° 16′ 40″	0.92898910	0.37010709	2.510054817	0.398397674	2.701920647	1.076438900
68° 16′ 50″	0.92900704	0.37006206	2.510408792	0.398341498	2.702249489	1.076418111
68° 17′ 00″	0.92902498	0.37001702	2.510762853	0.398285325	2.702578418	1.076397325
68° 17′ 10″	0.92904292	0.36997197	2.511117001	0.398229154	2.702907433	1.076376542
68° 17′ 20″	0.92906085	0.36992693	2.511471235	0.398172986	2.703236535	1.076355762
68° 17′ 30″	0.92907878	0.36988189	2.511825555	0.398116819	2.703565723	1.076334986
68° 17′ 40″	0.92909672	0.36983685	2.512179962	0.398060655	2.703894998	1.076314213
68° 17′ 50″	0.92911464	0.36979180	2.512534454	0.398004492	2.704224359	1.076293443
68° 18′ 00″	0.92913257	0.36974676	2.512889034	0.397948332	2.704553807	1.076272677
68° 18′ 10″	0.92915050	0.36970171	2.513243699	0.397892174	2.704883341	1.076251914
68° 18′ 20″	0.92916842	0.36965666	2.513598451	0.397836019	2.705212963	1.076231154
68° 18′ 30″	0.92918634	0.36961162	2.513953290	0.397779865	2.705542671	1.076210398
68° 18′ 40″	0.92920426	0.36956657	2.514308215	0.397723714	2.705872465	1.076189645
68° 18′ 50″	0.92922217	0.36952152	2.514663226	0.397667564	2.706202347	1.076168896
68° 19′ 00″	0.92924009	0.36947647	2.515018324	0.397611417	2.706532315	1.076148149
68° 19′ 10″	0.92925800	0.36943142	2.515373509	0.397555272	2.706862370	1.076127406
68° 19′ 20″	0.92927591	0.36938636	2.515728780	0.397499129	2.707192512	1.076106667
68° 19′ 30″	0.92929382	0.36934131	2.516084138	0.397442989	2.707522741	1.076085930
68° 19′ 40″	0.92931172	0.36929626	2.516439583	0.397386850	2.707853056	1.076065197
68° 19′ 50″	0.92932962	0.36925120	2.516795114	0.397330714	2.708183459	1.076044468
68° 20′ 00″	0.92934752	0.36920615	2.517150733	0.397274580	2.708513949	1.076023741
68° 20′ 10″	0.92936542	0.36916109	2.517506438	0.397218448	2.708844526	1.076003018
68° 20′ 20″	0.92938332	0.36911603	2.517862230	0.397162318	2.709175189	1.075982299
68° 20′ 30″	0.92940121	0.36907098	2.518218108	0.397106191	2.709505940	1.075961582
68° 20′ 40″	0.92941911	0.36902592	2.518574074	0.397050065	2.709836779	1.075940869
68° 20′ 50″	0.92943700	0.36898086	2.518930127	0.396993942	2.710167704	1.075920160
68° 21′ 00″	0.92945488	0.36893580	2.519286266	0.396937821	2.710498716	1.075899453
68° 21′ 10″	0.92947277	0.36889073	2.519642493	0.396881702	2.710829816	1.075878750
68° 21′ 20″	0.92949065	0.36884567	2.519998806	0.396825585	2.711161003	1.075858050
68° 21′ 30″	0.92950853	0.36880061	2.520355207	0.396769470	2.711492277	1.075837354
68° 21′ 40″	0.92952641	0.36875554	2.520711695	0.396713358	2.711823639	1.075816661
68° 21′ 50″	0.92954429	0.36871048	2.521068270	0.396657247	2.712155088	1.075795971
68° 22′ 00″	0.92956216	0.36866541	2.521424932	0.396601139	2.712486624	1.075775285
68° 22′ 10″ 68° 22′ 20″	0.92958003	0.36862035	2.521781681	0.396545033	2.712818248	1.075754602
	0.92959790	0.36857528	2.522138518	0.396488929	2.713149960	1.075733922
68° 22′ 30″ 68° 22′ 40″	0.92961577	0.36853021	2.522495442	0.396432827	2.713481759	1.075713246
68° 22′ 50″	0.92963364	0.36848514	2.522852453	0.396376728	2.713813645	1.075692572
68° 23′ 00″	0.92965150	0.36844007	2.523209551	0.396320630 0.396264535	2.714145619	1.075671903
68° 23′ 10″	0.92966936	0.36839500 0.36834993	2.523566737 2.523924011	0.396264535	2.714477680 2.714809830	1.075651236 1.075630573
68° 23′ 20″	0.92968722	0.36834993				
68° 23′ 30″	0.92970508		2.524281371	0.396152351	2.715142067	1.075609913
68° 23′ 40″	0.92972293	0.36825978 0.36821470	2.524638820 2.524996355	0.396096262 0.396040176	2.715474391 2.715806804	1.075589257 1.075568603
68° 23′ 50″	0.92975864	0.36816963	2.524776333	0.395984091	2.716139304	1.075547954
	0.74773004	0.30010703	2.32333777	0.3/3/04071	4./ 10137304	1.0/334/734

513 68° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
68° 24′ 00″	0.92977649	0.36812455	2.525711689	0.395928009	2.716471892	1.075527307
68° 24′ 10″	0.92979433	0.36807948	2.526069488	0.395871929	2.716804567	1.075506664
68° 24′ 20″	0.92981218	0.36803440	2.526427374	0.395815851	2.717137331	1.075486024
68° 24′ 30″	0.92983002	0.36798932	2.526785348	0.395759775	2.717470183	1.075465387
68° 24′ 40″	0.92984786	0.36794424	2.527143409	0.395703701	2.717803122	1.075444754
68° 24′ 50″	0.92986569	0.36789916	2.527501559	0.395647629	2.718136150	1.075424124
68° 25′ 00″	0.92988353	0.36785408	2.527859796	0.395591560	2.718469265	1.075403497
68° 25′ 10″	0.92990136	0.36780899	2.528218121	0.395535493	2.718802469	1.075382874
68° 25′ 20″	0.92991919	0.36776391	2.528576533	0.395479428	2.719135761	1.075362254
68° 25′ 30″	0.92993702	0.36771883	2.528935034	0.395423365	2.719469140	1.075341637
68° 25′ 40″	0.92995485	0.36767374	2.529293622	0.395367304	2.719802608	1.075321024
68° 25′ 50″	0.92997267	0.36762866	2.529652299	0.395311245	2.720136164	1.075300414
68° 26′ 00″	0.92999049	0.36758357	2.530011063	0.395255189	2.720469809	1.075279807
68° 26′ 10″	0.93000831	0.36753848	2.530369916	0.395199134	2.720803541	1.075259204
68° 26′ 20″	0.93002613	0.36749339	2.530728856	0.395143082	2.721137362	1.075238604
68° 26′ 30″	0.93004395	0.36744830	2.531087885	0.395087032	2.721471271	1.075218007
68° 26′ 40″	0.93006176	0.36740321	2.531447002	0.395030984	2.721805269	1.075197414
68° 26′ 50″	0.93007957	0.36735812	2.531806207	0.394974938	2.722139355	1.075176824
68° 27′ 00″	0.93009738	0.36731303	2.532165500	0.394918895	2.722473529	1.075156237
68° 27′ 10″	0.93011519	0.36726794	2.532524881	0.394862853	2.722807792	1.075135653
68° 27′ 20″	0.93013299	0.36722284	2.532884351	0.394806814	2.723142144	1.075115073
68° 27′ 30″	0.93015079	0.36717775	2.533243909	0.394750777	2.723476583	1.075094496
68° 27′ 40″	0.93016859	0.36713265	2.533603555	0.394694741	2.723811112	1.075073923
68° 27′ 50″	0.93018639	0.36708756	2.533963289	0.394638709	2.724145729	1.075053352
68° 28′ 00″	0.93020419	0.36704246	2.534323112	0.394582678	2.724480434	1.075032785
68° 28′ 10″	0.93022198	0.36699736	2.534683024	0.394526649	2.724815229	1.075012222
68° 28′ 20″	0.93023977	0.36695226	2.535043024	0.394470623	2.725150112	1.074991661
68° 28′ 30″	0.93025756	0.36690716	2.535403112	0.394414598	2.725485084	1.074971104
68° 28′ 40″	0.93027535	0.36686206	2.535763289	0.394358576	2.725820144	1.074950551
68° 28′ 50″	0.93029314	0.36681696	2.536123554	0.394302556	2.726155293	1.074930000
68° 29′ 00″	0.93031092	0.36677186	2.536483909	0.394246538	2.726490531	1.074909453
68° 29′ 10″	0.93032870	0.36672676	2.536844351	0.394190522	2.726825858	1.074888910
68° 29′ 20″	0.93034648	0.36668165	2.537204883	0.394134509	2.727161274	1.074868369
68° 29′ 30″	0.93036425	0.36663655	2.537565503	0.394078497	2.727496779	1.074847832
68° 29′ 40″	0.93038203	0.36659144	2.537926212	0.394022488	2.727832373	1.074827298
68° 29′ 50″ 68° 30′ 00″	0.93039980	0.36654633	2.538287009	0.393966481	2.728168056	1.074806768
68° 30′ 10″	0.93041757	0.36650123	2.538647896	0.393910476	2.728503828	1.074786241
68° 30′ 20″	0.93043534 0.93045310	0.36645612	2.539008871	0.393854473	2.728839689	1.074765717
68° 30′ 30″	0.93045510	0.36641101	2.539369935 2.539731088	0.393798472 0.393742473	2.729175639 2.729511678	1.074745196 1.074724679
68° 30′ 40″	0.93048862	0.36636590 0.36632079	2.539731088	0.393686477	2.729847806	1.074724679
68° 30′ 50″	0.93050638	0.36627568	2.540453661	0.373630477	2.730184024	1.074683654
68° 31′ 00″	0.93052414	0.36623056	2.540453661	0.393574490	2.730184024	1.074663147
68° 31′ 10″	0.9305414	0.36618545	2.541176590	0.393518500	2.730320331	1.074663147
68° 31′ 20″	0.93055965	0.36614034	2.541176390	0.393462512	2.731193212	1.074642643
68° 31′ 30″	0.93057740	0.36609522	2.541338188	0.393406526	2.731173212	1.074622142
68° 31′ 40″	0.93059514	0.36605010	2.542261652	0.373406326	2.731327787	1.074581151
68° 31′ 50″	0.73037314	0.36600499	2.542623518	0.393294561	2.731866431	1.074560660
=======================================	0.73001207	0.300004//	2,372023310	0.373274301	2.1 32203203	1.07 7300000

514 68° 31′ 50″

	gin(a)	205(24)	ton(v)	ant(x)	505(21)	939(21)
X	$\sin(x)$	$\cos(x)$	$\frac{\tan(x)}{2.542005472}$	$\frac{\cot(x)}{222222521}$	$\frac{\sec(x)}{2.732543343}$	csc(x)
68° 32′ 00″	0.93063063	0.36595987	2.542985473	0.393238581	2.732540048	1.074540172
68° 32′ 10″	0.93064837	0.36591475	2.543347517	0.393182604	2.732876981	1.074519688
68° 32′ 20″	0.93066611	0.36586963	2.543709650	0.393126629	2.733214003	1.074499207
68° 32′ 30″	0.93068385	0.36582451	2.544071873	0.393070656	2.733551114	1.074478730
68° 32′ 40″	0.93070158	0.36577939	2.544434185	0.393014685	2.733888315	1.074458255
68° 32′ 50″	0.93071932	0.36573427	2.544796586	0.392958716	2.734225606	1.074437785
68° 33′ 00″	0.93073705	0.36568914	2.545159077	0.392902750	2.734562987	1.074417317
68° 33′ 10″	0.93075477	0.36564402	2.545521658	0.392846785	2.734900457	1.074396853
68° 33′ 20″	0.93077250	0.36559890	2.545884328	0.392790823	2.735238017	1.074376391
68° 33′ 30″	0.93079022	0.36555377	2.546247087	0.392734863	2.735575667	1.074355934
68° 33′ 40″	0.93080795	0.36550864	2.546609936	0.392678905	2.735913406	1.074335479
68° 33′ 50″	0.93082566	0.36546352	2.546972875	0.392622949	2.736251236	1.074315028
68° 34′ 00″	0.93084338	0.36541839	2.547335903	0.392566995	2.736589155	1.074294580
68° 34′ 10″	0.93086110	0.36537326	2.547699021	0.392511043	2.736927164	1.074274136
68° 34′ 20″	0.93087881	0.36532813	2.548062229	0.392455093	2.737265263	1.074253695
68° 34′ 30″	0.93089652	0.36528300	2.548425526	0.392399146	2.737603452	1.074233257
68° 34′ 40″	0.93091423	0.36523787	2.548788913	0.392343201	2.737941731	1.074212822
68° 34′ 50″	0.93093193	0.36519274	2.549152390	0.392287257	2.738280100	1.074192391
68° 35′ 00″	0.93094964	0.36514760	2.549515957	0.392231316	2.738618560	1.074171963
68° 35′ 10″	0.93096734	0.36510247	2.549879614	0.392175377	2.738957109	1.074151538
68° 35′ 20″	0.93098504	0.36505733	2.550243360	0.392119441	2.739295748	1.074131117
68° 35′ 30″	0.93100274	0.36501220	2.550607197	0.392063506	2.739634478	1.074110699
68° 35′ 40″	0.93102043	0.36496706	2.550971124	0.392007573	2.739973298	1.074090284
68° 35′ 50″	0.93103813	0.36492192	2.551335140	0.391951643	2.740312208	1.074069872
68° 36′ 00″	0.93105582	0.36487678	2.551699247	0.391895715	2.740651209	1.074049464
68° 36′ 10″	0.93107350	0.36483165	2.552063444	0.391839788	2.740990299	1.074029059
68° 36′ 20″	0.93109119	0.36478650	2.552427731	0.391783864	2.741329481	1.074008658
68° 36′ 30″	0.93110888	0.36474136	2.552792108	0.391727942	2.741668752	1.073988259
68° 36′ 40″	0.93112656	0.36469622	2.553156575	0.391672023	2.742008114	1.073967864
68° 36′ 50″ 68° 37′ 00″	0.93114424	0.36465108	2.553521133	0.391616105	2.742347567	1.073947472
	0.93116191	0.36460594	2.553885781	0.391560189	2.742687109	1.073927084
68° 37′ 10″	0.93117959	0.36456079	2.554250519	0.391504276	2.743026743	1.073906699
68° 37′ 20″ 68° 37′ 30″	0.93119726 0.93121493	0.36451565	2.554615347	0.391448365	2.743366467	1.073886317 1.073865939
68° 37′ 40″	0.93123260	0.36447050	2.554980266 2.555345275	0.391392455 0.391336548	2.743706282 2.744046187	
68° 37′ 50″	0.93125260	0.36442535 0.36438021	2.555710375	0.391280643	2.744046187	1.073845563 1.073825192
68° 38′ 00″				0.391224741		
68° 38′ 10″	0.93126793	0.36433506 0.36428991	2.556075565		2.744726270	1.073804823
68° 38′ 20″	0.93128560		2.556440846	0.391168840	2.745066447	1.073784458
68° 38′ 30″	0.93130326	0.36424476	2.556806217	0.391112941	2.745406715	1.073764096
68° 38′ 40″	0.93132092	0.36419961	2.557171679	0.391057045	2.745747074	1.073743737
	0.93133857	0.36415445	2.557537232	0.391001150	2.746087524	1.073723381
68° 38′ 50″ 68° 39′ 00″	0.93135622	0.36410930	2.557902875 2.558268609	0.390945258	2.746428065	1.073703029 1.073682680
68° 39′ 10″	0.93137388	0.36406415	2.558268609	0.390889368	2.746768697	
68° 39′ 10″ 68° 39′ 20″	0.93139153	0.36401899		0.390833480	2.747109420	1.073662335
68° 39′ 30″	0.93140917	0.36397384	2.559000349	0.390777594	2.747450233	1.073641993
68° 39′ 40″	0.93142682	0.36392868	2.559366355 2.559732452	0.390721711 0.390665829	2.747791138	1.073621654
68° 39′ 40″	0.93144446	0.36388352 0.36383836	2.560098640	0.390665829	2.748132134 2.748473221	1.073601318 1.073580986
	0.73146210	0.30303030	2.360070640	0.370007749	4./404/3441	1.0/3300706

515 68° 39′ 50″

68° 40′ 10″	<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
68° 40′ 20″	68° 40′ 00″	0.93147974	0.36379320	2.560464919	0.390554072	2.748814399	1.073560656
68° 40′ 30″ 0.93153264 0.36365722 2.561564301 0.393086452 2.749838480 1.07347968 68° 40′ 40″ 0.93155027 0.36361256 2.561930944 0.393030583 2.750180023 1.07347937 68° 41′ 00″ 0.93158790 0.36352223 2.562664503 0.39027417 2.7505210500 1.07341844 68° 41′ 10″ 0.93160315 0.36347707 2.563031419 0.390107129 2.7511205200 1.07341844 68° 41′ 30″ 0.93163838 0.36334707 2.563398426 0.390107129 2.751187109 1.07333784 68° 41′ 40″ 0.93167362 0.3632742 2.564132715 0.389975110 2.751889109 1.07333784 68° 41′ 40″ 0.93167362 0.3632742 2.564499996 0.38997510 2.75223338 1.07333784 68° 42′ 10″ 0.9317405 0.36316089 2.566502388 0.38977510 2.753258024 1.07329667 68° 42′ 30″ 0.9317795 0.36307054 2.5667905602 0.3897604479 2.754285670 1.07321565 68° 43′ 30″ 0.93184964 <td< td=""><td>68° 40′ 10″</td><td>0.93149738</td><td>0.36374805</td><td>2.560831288</td><td>0.390498197</td><td>2.749155668</td><td>1.073540331</td></td<>	68° 40′ 10″	0.93149738	0.36374805	2.560831288	0.390498197	2.749155668	1.073540331
68° 40′ 40″ 0,93155027 0,36361256 2,561930944 0,390330583 2,750180023 1,07347937 68° 40′ 50″ 0,93156790 0,36356740 2,562267678 0,390274717 2,750521658 1,07345906 68° 41′ 10″ 0,93160315 0,36347707 2,563031419 0,390162989 2,751205200 1,07341844 68° 41′ 20″ 0,93162077 0,36343190 2,563398426 0,390107129 2,751547109 1,07339814 68° 41′ 30″ 0,93165600 0,36334157 2,564132715 0,389995414 2,752231200 1,0733754 68° 41′ 50″ 0,93167362 0,36329640 2,564499996 0,389939560 2,752573383 1,07333725 68° 42′ 10″ 0,93170844 0,36325123 2,564867368 0,389883708 2,75255658 1,07331696 68° 42′ 10″ 0,93170844 0,36325163 2,564687368 0,389883708 2,75255658 1,07331696 68° 42′ 20″ 0,93172645 0,3631572 2,565602388 0,389872010 2,753600481 1,07327639 68° 42′ 30″ 0,9317405 0,3631572 2,566705602 0,38960321 2,754285672 1,07323583 68° 42′ 50″ 0,93177925 0,36302537 2,566705602 0,38960479 2,754628405 1,0732568° 68° 43′ 30″ 0,93179685 0,36298020 2,567441537 0,38942803 2,7552154146 1,07317502 68° 43′ 30″ 0,9318445 0,3628985 2,56780641 0,38943669 2,755657155 1,07315476 68° 43′ 40″ 0,9318446 0,36288985 2,56780641 0,38943669 2,7556686731 1,07303999 68° 44′ 40″ 0,93184964 0,36284967 2,568546125 0,389325304 2,755686631 1,073315476 68° 43′ 40″ 0,931894964 0,36284967 2,568874612 0,389436698 2,7556686731 1,07303939 68° 44′ 40″ 0,9319903 0,36276379 2,568874612 0,389432803 2,755686631 1,07303399 68° 44′ 40″ 0,9319797 0,36264392 2,5688546125 0,389325304 2,756686731 1,07303349 68° 44′ 40″ 0,9319772 0,36252841 2,57602355 0,389216480 2,755686731 1,07303349 68° 44′ 40″ 0,9319772 0,36252841 2,57020195 0,389216480 2,755900107 1,0730774 68° 44′ 40″ 0,9319787 0,36264382 2,571126711 0,38893253 4 2,759002395 1,07303349 68° 44′ 40″ 0,9319772 0,36252841 2,57020195 0,3889102001 2,757717136 1,0730334 68° 44′ 40″ 0,9319772 0,36252841 2,57020195 0,3889102001 2,757717136 1,0730334 68° 44′ 40″ 0,9319772 0,36252841 2,57020195 0,3889102001 2,757717136 1,07303325 68° 44′ 50″ 0,9320540 0,36267693 2,576186480 0,38887302 2,75980433 1,07279258 68° 45′ 30″ 0,9320540 0,3626369 2,576691530 0,	68° 40′ 20″	0.93151501	0.36370288	2.561197749	0.390442323	2.749497029	1.073520008
68° 40′ 50″ 0.93156790 0.36356740 2.562297678 0.390274717 2.750521658 1.07345906 68° 41′ 10″ 0.93156352 0.36352223 2.562664503 0.390162982 2.750863383 1.073418446 68° 41′ 20″ 0.93162077 0.36347707 2.563391419 0.390167129 2.751547109 1.07337844 68° 41′ 30″ 0.93163838 0.36334170 2.56376552 0.39001270 2.751547109 1.07337844 68° 41′ 50″ 0.93167362 0.3643190 2.564487368 0.389939560 2.752573383 1.07337646 68° 41′ 50″ 0.93167362 0.3632060 2.564487368 0.388983788 2.752573383 1.07337646 68° 42′ 10″ 0.93178645 0.36310689 2.565602388 0.389772010 2.753600481 1.07327639 68° 42′ 30″ 0.93177925 0.3630754 2.566707352 0.389640479 2.754628405 1.07327639 68° 43′ 30″ 0.931879685 0.36298020 2.567073524 0.3894604479 2.754628405 1.07321561 68° 43′ 30″ 0.93184964 <	68° 40′ 30″	0.93153264	0.36365772	2.561564301	0.390386452	2.749838480	1.073499689
68° 41′ 00″ 0,93158552 0.36352223 2.56264503 0.390218852 2.750863383 1.07343875 68° 41′ 10″ 0,93160315 0.36347707 2.563031419 0.390162989 2.751205200 1.07341844 120″ 0,93163838 0.36338674 2.563378426 0.39017129 2.751547109 1.07343784 68° 41′ 40″ 0,93163600 0.36334157 2.5643813715 0.389795414 2.752231200 1.07335784 68° 41′ 40″ 0,93165600 0.36329640 2.564489796 0.389739560 2.752573383 1.07333752 68° 42′ 00″ 0,93169123 0.36325123 2.5644867368 0.389883708 2.752915658 1.07331696 68° 42′ 10″ 0,93172645 0.3631502 2.565234832 0.389827858 2.753258024 1.0732663 68° 42′ 30″ 0,93174405 0.36311572 2.566502388 0.389772010 2.753600481 1.07327639 68° 42′ 40″ 0,93176165 0.36307054 2.566303773 0.38960321 2.754285672 1.0732563 68° 42′ 40″ 0,93176165 0.36307054 2.56633773 0.389660479 2.754286672 1.0732558 68° 43′ 10″ 0,9318445 0.36293502 2.567073524 0.389348640 2.754971230 1.0731552 68° 43′ 20″ 0,9318445 0.36293502 2.567073524 0.389348640 2.7556771230 1.0731556 68° 43′ 20″ 0,93184964 0.36284467 2.56637584 0.389438694 2.7556771230 1.0731576 68° 43′ 30″ 0,93184964 0.36284467 2.566317837 0.38942803 2.7556314146 1.07317502 68° 44′ 40″ 0,9319993 0.36266395 2.567809641 0.38943696 2.7556703525 1.07313450 68° 44′ 40″ 0.9319998 0.3626395 2.566951540 0.38913648 2.755600255 1.07313450 68° 44′ 40″ 0.93197978 0.36251877 2.5700295 0.38923648 2.755607035 1.07313450 68° 44′ 40″ 0.93197978 0.36261877 2.5700295 0.389213648 2.755030107 1.07309379 68° 44′ 20″ 0.93199730 0.36252841 2.570737780 0.38893646 2.758404533 1.07299277 68° 44′ 50″ 0.93204301 0.36234767 2.571864849 0.388854381 2.75690289 1.0729328 68° 45′ 00″ 0.93204301 0.36223769 2.577385942 0.388948546 2.75840453 1.07293208 68° 45′ 00″ 0.93204301 0.36234767 2.57724704 0.388854391 2.766150238 1.07293218 68° 45′ 00″ 0.93204301 0.36223729 2.57738549 0.388543691 2.75694333 1.07293218 68° 45′ 00″ 0.93204301 0.36223729 2.577495730 0.38854360 2.75894333 1.07293218 68° 46′ 00″ 0.93213887 0.36221712 2.573311804 0.38855497 2.766150238 1.07279328 68° 46′ 00″ 0.9321382 0.36212172 2.57331180 0.388543891 2	68° 40′ 40″	0.93155027	0.36361256	2.561930944	0.390330583	2.750180023	1.073479373
68° 41′ 10″	68° 40′ 50″	0.93156790	0.36356740	2.562297678	0.390274717	2.750521658	1.073459060
68° 41′ 20″ 0.93162077 0.36343190 2.563398426 0.390107129 2.751547109 1.07339814 68° 41′ 30″ 0.93163838 0.36334157 2.563765525 0.390051270 2.751889109 1.073337584 68° 41′ 50″ 0.93167362 0.36329640 2.564499996 0.389939560 2.752573383 1.07333758 68° 42′ 00″ 0.93169123 0.36320606 2.5654867368 0.389883708 2.752915658 1.07337639 68° 42′ 20″ 0.93174405 0.36316089 2.565970034 0.389772010 2.753258024 1.07327639 68° 42′ 30″ 0.931776165 0.36307054 2.566377034 0.389772010 2.753485072 1.07327637 68° 42′ 50″ 0.93179685 0.36320537 2.566795602 0.389604479 2.754628405 1.07321556 68° 43′ 10″ 0.93184964 0.362289502 2.567073524 0.389564479 2.754628405 1.07317502 68° 43′ 00″ 0.93188482 0.36289850 2.567809641 0.389492803 2.755314146 1.07317502 68° 43′ 00″ 0.93188484	68° 41′ 00″	0.93158552	0.36352223	2.562664503	0.390218852	2.750863383	1.073438751
68° 41′ 30″ 0.93163838 0.36338674 2.563765525 0.390051270 2.751889109 1.07337784 68° 41′ 40″ 0.93165600 0.36334157 2.564132715 0.38999561 2.752231200 1.073357784 68° 42′ 00″ 0.93167362 0.36329640 2.564499996 0.389939560 2.752573383 1.07333725 68° 42′ 00″ 0.93169123 0.36325123 2.564867368 0.389883708 2.752915658 1.07331696 68° 42′ 10″ 0.93170844 0.36320606 2.565234832 0.389827858 2.753258024 1.07329667 68° 42′ 30″ 0.93172645 0.36316089 2.565602388 0.389727010 2.753600481 1.07327653 68° 42′ 30″ 0.931774405 0.36311572 2.565970034 0.389716164 2.753943031 1.07325611 68° 42′ 40″ 0.93177955 0.36302537 2.566705602 0.38960321 2.754285672 1.07321565 68° 43′ 00″ 0.93179685 0.36298020 2.567041537 0.389548640 2.754971230 1.073157502 68° 43′ 30″ 0.9318445 0.36293502 2.567441537 0.38948130 2.755314146 1.07317502 68° 43′ 30″ 0.93184964 0.3628467 2.568177837 0.389438135 2.756000255 1.07313450 68° 43′ 40″ 0.93186723 0.36279949 2.568546125 0.389325304 2.7556343447 1.073115476 68° 44′ 40″ 0.93186723 0.36279549 2.568546125 0.389325304 2.7556343447 1.07311742 68° 44′ 40″ 0.93187998 0.36266395 2.569651540 0.389157823 2.7556343447 1.07307374 68° 44′ 40″ 0.9319998 0.36266395 2.569651540 0.389157823 2.7556343447 1.073013450 68° 44′ 40″ 0.93197272 0.36252841 2.57002195 0.389102001 2.757717136 1.07303374 68° 44′ 40″ 0.93197272 0.36252841 2.57002195 0.389102001 2.758743339 1.07299277 68° 44′ 50″ 0.9320544 0.36233804 2.57145711 0.388934566 2.758046788 1.07301341 68° 45′ 50″ 0.9320544 0.36237289 2.5771864849 0.388822920 2.758404333 1.07299277 68° 44′ 50″ 0.9320544 0.3623728 2.571126711 0.38893456 2.75804333 1.07299277 68° 45′ 50″ 0.9320544 0.36236769 2.57145734 0.388878732 2.759092298 1.07295231 68° 45′ 50″ 0.9320544 0.36236769 2.57145734 0.38887832 2.759092298 1.07295231 68° 45′ 00″ 0.9320787 0.36218102 2.57145714 0.38893456 2.75844339 1.07299277 68° 46′ 50″ 0.93207814 0.36252841 2.570561066 0.388507905 2.75604833 1.07299277 68° 46′ 50″ 0.9321382 0.36216592 0.5623144 0.38854899 2.76618439 1.072283100 68° 46′ 40″ 0.9321835 0.3626353 2.574851	68° 41′ 10″	0.93160315	0.36347707	2.563031419	0.390162989	2.751205200	1.073418445
68° 41′ 40″ 0.93167362 0.36334157 2.564132715 0.389995414 2.752231200 1.07335754 68° 41′ 50″ 0.93167362 0.36329640 2.564489996 0.389939560 2.752573383 1.0733375686° 42′ 00″ 0.9317884 0.36320606 2.565234832 0.38983708 2.752915658 1.073316966 68° 42′ 10″ 0.93170884 0.36320606 2.565234832 0.389827858 2.753258024 1.07329667 68° 42′ 20″ 0.93172645 0.36316089 2.565602388 0.389772010 2.753600481 1.07327639 68° 42′ 40″ 0.93176165 0.36311572 2.5656970034 0.389716164 2.753943031 1.07325639 68° 42′ 40″ 0.93177916 0.36311572 2.566377373 0.38960321 2.754285672 1.07323583 68° 42′ 50″ 0.93177955 0.36302537 2.566705602 0.389604479 2.754628405 1.07321556 68° 43′ 00″ 0.9318445 0.36293502 2.56737524 0.389548640 2.754971230 1.07319529 68° 43′ 10″ 0.9318446 0.36284867 2.56837783 0.389492803 2.7555314146 1.07317502 68° 43′ 40″ 0.93184842 0.36284467 2.568177837 0.389492803 2.755600255 1.07313450 68° 43′ 40″ 0.93188482 0.3627431 2.568914505 0.38924545 2.756687155 1.07314546 68° 43′ 40″ 0.93189482 0.3627431 2.568914505 0.38924545 2.75668731 1.07303374 68° 44′ 40″ 0.9319798 0.3626395 2.569651540 0.389157823 2.7573373575 1.0730374 68° 44′ 40″ 0.93197377 0.36261877 2.570020195 0.389046180 2.758060788 1.07303374 68° 44′ 40″ 0.93197272 0.36252841 2.570357780 0.389102001 2.757717136 1.07303325 68° 44′ 40″ 0.93197272 0.36252849 2.570388942 0.389046180 2.758060788 1.07303374 68° 44′ 40″ 0.93197272 0.36253489 2.570308994 0.38887832 2.75908298 1.07299277 68° 45′ 00″ 0.93200787 0.36248322 2.571126711 0.388934546 2.758404533 1.07299227 68° 45′ 00″ 0.93200787 0.36248322 2.571864849 0.38887832 2.75908298 1.07293208 68° 45′ 00″ 0.9320781 0.3623763 2.57234056 0.388594969 2.75943639 1.07297254 68° 45′ 00″ 0.9320781 0.3623765 2.57234056 0.38855997 2.760468937 1.07287146 68° 45′ 00″ 0.9320781 0.3623767 2.574081472 0.388584892 2.75912866 1.0727908 68° 46′ 00″ 0.93218387 0.3620363 2.57561066 0.388565497 2.760468937 1.07289164 68° 46′ 00″ 0.93218347 0.3620363 2.57561066 0.388264916 2.76332667 1.07277038 68° 46′ 00″ 0.93218347 0.3620363 2.57561066 0.38826491	68° 41′ 20″	0.93162077	0.36343190	2.563398426	0.390107129	2.751547109	1.073398142
68° 41′ 50″ 0.93167362 0.36329640 2.564499996 0.389939560 2.752573383 1.07333725 68° 42′ 00″ 0.93169123 0.36325123 2.564867368 0.389883708 2.752915658 1.0733169668° 42′ 10″ 0.93170884 0.36320606 2.565234832 0.389827858 2.753258024 1.07329667 68° 42′ 20″ 0.93172645 0.36316089 2.565602388 0.389772010 2.753600481 1.07327639 68° 42′ 30″ 0.93174405 0.36311572 2.565970034 0.389716164 2.753943031 1.07325639 68° 42′ 40″ 0.93176165 0.36307054 2.566337773 0.389604479 2.754628405 1.07323583 68° 42′ 50″ 0.9317955 0.36302537 2.566705602 0.389604479 2.754628405 1.07321556 68° 43′ 00″ 0.93181445 0.36298020 2.567073524 0.38943664 0.754628405 1.07317502 68° 43′ 10″ 0.93184404 0.36284867 2.56817837 0.38943668 2.755657155 1.07315476 68° 43′ 30″ 0.93188482 0.3627949 2.568546125 0.389325304 2.75660255 1.07313450 68° 43′ 40″ 0.93186423 0.36279949 2.568546125 0.38923504 2.756686731 1.07303939 68° 44′ 40″ 0.931990240 0.36270913 2.569282976 0.389213648 2.755000255 1.07313450 68° 44′ 40″ 0.93197972 0.36261877 2.576020195 0.389102001 2.757717136 1.07309399 68° 44′ 40″ 0.9319978 0.3626395 2.557020195 0.389102001 2.757717136 1.07303395 68° 44′ 40″ 0.9319978 0.3625841 2.570757780 0.38893664 2.758606731 1.07303325 68° 44′ 40″ 0.93199787 0.36261877 2.570020195 0.389102001 2.757717136 1.07303349 68° 44′ 40″ 0.93199787 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 50″ 0.9320787 0.36252841 2.570757780 0.38899362 2.758404533 1.07299277 68° 44′ 50″ 0.9320787 0.3623482 2.571166711 0.388934546 2.758780433 1.07299277 68° 44′ 50″ 0.9320787 0.3623482 2.571166711 0.38893454 2.757092298 1.072952168° 45′ 50″ 0.9320787 0.3623678 2.57243122 0.388599693 2.76084893 1.07299278 68° 45′ 50″ 0.9320787 0.36236769 2.57331422 0.38854899 2.759780433 1.07299277 0.93207814 0.36237676 2.57331422 0.38854899 2.759780433 1.07299278 68° 45′ 50″ 0.9320781 0.36237676 2.57331422 0.38854899 2.759780433 1.07299278 68° 45′ 50″ 0.9320781 0.36237676 2.573342229 0.388599693 2.76084893 1.072297254 68° 45′ 50″ 0.9321382 0.36216591 2.573711804 0.388543891 2.76115781	68° 41′ 30″	0.93163838	0.36338674	2.563765525	0.390051270	2.751889109	1.073377843
68° 42′ 00″ 0.93169123 0.36325123 2.564867368 0.38983708 2.752915658 1.07331696 68° 42′ 10″ 0.93170884 0.36320606 2.565234832 0.389827858 2.753258024 1.07329667 68° 42′ 20″ 0.93172645 0.36316089 2.565602388 0.389772010 2.753600481 1.07327639 68° 42′ 30″ 0.93174405 0.36311572 2.565970034 0.389716164 2.753943031 1.073225611 68° 42′ 40″ 0.93177465 0.36307054 2.566337773 0.38960321 2.754285672 1.07323583 68° 42′ 50″ 0.93179685 0.36298202 2.566705602 0.389604479 2.754628405 1.07321556 68° 43′ 00″ 0.9318495 0.36298202 2.566705524 0.389548640 2.755471230 1.07317529 68° 43′ 10″ 0.93181445 0.36288985 2.567809641 0.38948640 2.755314146 1.07317526 68° 43′ 30″ 0.93184964 0.36284467 2.568177837 0.38942803 2.7555314146 1.073115476 68° 43′ 40″ 0.93184964 0.36284467 2.568546125 0.389325304 2.756600255 1.07313450 68° 43′ 50″ 0.93188482 0.36275431 2.568914505 0.38925304 2.756686731 1.07301399 68° 44′ 00″ 0.93191998 0.36266395 2.569282976 0.38912648 2.757030107 1.07307374 68° 44′ 30″ 0.9319757 0.36261877 2.570020195 0.389102001 2.7577717136 1.07303325 68° 44′ 40″ 0.93197272 0.36252841 2.570757780 0.389406180 2.758060788 1.07291275 68° 44′ 50″ 0.9319998 0.36246382 2.571126711 0.388878732 2.759020298 1.07292725 68° 45′ 00″ 0.93200787 0.36231825 2.571126711 0.388878732 2.759806788 1.07299277 68° 45′ 10″ 0.93200787 0.3623285 2.571864849 0.388878732 2.759780433 1.07299277 68° 45′ 00″ 0.93200787 0.36232482 2.571126711 0.388878732 2.759780433 1.07299281 68° 46′ 00″ 0.93200878 0.36232485 2.571864849 0.388878732 2.75980437 1.07295231 68° 46′ 00″ 0.93208140 0.36225729 2.57481472 0.38887890 2.76180397 1.07297254 68° 46′ 00″ 0.9321326 0.36216691 2.573711804 0.388852990 2.7561502386 1.07228107 68° 46′ 00″ 0.9321857 0.3629314 2.5757511009 0.38820290 2.7661502386 1.07228107 68° 46′ 00″ 0.9321857 0.3629314 2.57575511009 0.38820290 2.7661502386 1.072287126 68° 46′ 00″ 0.9321857 0.3618056 2.575501418 0.38852391 2.76285651 1.072775019 68° 46′ 00″ 0.93221857 0.3618056 2.575601418 0.38807555 2.7663917006 1.07266943	68° 41′ 40″	0.93165600	0.36334157	2.564132715	0.389995414	2.752231200	1.073357547
68° 42′ 10″ 0.93170884 0.36320606 2.565234832 0.389827858 2.753258024 1.07329667 68° 42′ 20″ 0.93172645 0.36316089 2.565602388 0.389772010 2.753600481 1.07327639 68° 42′ 40″ 0.93176165 0.36307054 2.56637773 0.38976164 2.753493031 1.07325581 68° 42′ 50″ 0.93179685 0.36307054 2.566705602 0.389604479 2.754628405 1.07321556 68° 43′ 10″ 0.93184145 0.36298020 2.567073524 0.38948480 2.75471230 1.07317502 68° 43′ 20″ 0.93184964 0.36288985 2.567809641 0.389492803 2.755657155 1.07315476 68° 43′ 30″ 0.93184964 0.36284467 2.568177837 0.389381135 2.756000255 1.07313450 68° 43′ 50″ 0.9318849 0.362284467 2.568177837 0.389381355 2.756000255 1.07313450 68° 44′ 0″ 0.931990240 0.3627949 2.568546125 0.389381135 2.756000255 1.07313450 68° 44′ 0″ 0.93195514 0	68° 41′ 50″	0.93167362	0.36329640	2.564499996	0.389939560	2.752573383	1.073337254
68° 42′ 20″ 0.93172645 0.36316089 2.565602388 0.389772010 2.753600481 1.07327639 68° 42′ 30″ 0.93174405 0.36311572 2.565970034 0.389716164 2.753943031 1.07325611 68° 42′ 50″ 0.93177925 0.36302537 2.566705602 0.389604479 2.754628405 1.07321556 68° 43′ 00″ 0.93179685 0.36298020 2.567073524 0.389548640 2.754971230 1.07317526 68° 43′ 20″ 0.93183204 0.36288985 2.567809641 0.389492803 2.755314146 1.07317502 68° 43′ 30″ 0.93188464 0.36288985 2.567809641 0.389492803 2.75567155 1.07313450 68° 43′ 40″ 0.931886723 0.36279949 2.568177837 0.3893381135 2.7566343447 1.07311424 68° 43′ 50″ 0.93188482 0.36279494 2.568914505 0.389269475 2.756686731 1.07309399 68° 44′ 00″ 0.93199757 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 30″ 0.93199757	68° 42′ 00″	0.93169123	0.36325123	2.564867368	0.389883708	2.752915658	1.073316964
68° 42′ 30″ 0.93174405 0.36311572 2.565970034 0.389716164 2.753943031 1.07325611 68° 42′ 40″ 0.93176165 0.36307054 2.566337773 0.389660321 2.754285672 1.07323583 68° 42′ 50″ 0.93177925 0.36302537 2.5667073524 0.389548640 2.754971230 1.07315526 68° 43′ 10″ 0.93181445 0.36293502 2.5677441537 0.389492803 2.755314146 1.07317502 68° 43′ 20″ 0.93184964 0.36288985 2.567809641 0.389436968 2.755657155 1.07315476 68° 43′ 40″ 0.93186723 0.36279949 2.568546125 0.389325304 2.756686731 1.07311426 68° 44′ 00″ 0.931990240 0.36275431 2.568914505 0.389157823 2.7576686731 1.07303399 68° 44′ 10″ 0.93199757 0.3625431 2.569651540 0.389157823 2.75733557 1.07303325 68° 44′ 30″ 0.93199757 0.36252841 2.570020195 0.38916180 2.758404533 1.07299277 68° 44′ 30″ 0.93199030	68° 42′ 10″	0.93170884	0.36320606	2.565234832	0.389827858	2.753258024	1.073296678
68° 42′ 40″ 0.93176165 0.36307054 2.566337773 0.389660321 2.754285672 1.07323583 68° 42′ 50″ 0.93177925 0.36302537 2.566705602 0.389604479 2.754628405 1.07321556 68° 43′ 00″ 0.93187485 0.36298020 2.567073524 0.389548640 2.754971230 1.07319529 68° 43′ 10″ 0.93181445 0.36293502 2.567441537 0.389548640 2.755657155 1.07315476 68° 43′ 30″ 0.93184964 0.36288985 2.567809641 0.389436968 2.755657155 1.07315476 68° 43′ 40″ 0.93186723 0.36279949 2.568546125 0.389325304 2.7556343447 1.07311424 68° 43′ 50″ 0.93188482 0.36275431 2.568914505 0.389269475 2.756686731 1.07309399 68° 44′ 00″ 0.93191998 0.36266395 2.569651540 0.38913648 2.757030107 1.07307374 68° 44′ 10″ 0.93197575 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 40″ 0.93197572 0.36252841 2.570557780 0.3889102001 2.757717136 1.07303325 68° 44′ 50″ 0.93197272 0.36252841 2.570757780 0.388990362 2.758404533 1.07299277 68° 44′ 50″ 0.93290787 0.36248322 2.571126711 0.388934546 2.758060788 1.07301301 68° 45′ 00″ 0.93200787 0.36248322 2.571126711 0.388934546 2.758748369 1.07297275 68° 45′ 00″ 0.93200787 0.36243804 2.571495734 0.388878732 2.759092298 1.07299277 68° 45′ 00″ 0.93200787 0.36230248 2.571496734 0.388878732 2.759092298 1.07299280 68° 45′ 00″ 0.93200787 0.36230248 2.571496734 0.3888767110 2.759780433 1.07299208 68° 45′ 00″ 0.9320970 0.36231210 2.57334229 0.388599693 2.760813327 1.07289186 68° 45′ 40″ 0.93207814 0.36225729 2.573972746 0.38871302 2.760124639 1.07289164 68° 46′ 00″ 0.93213326 0.3621210 2.57334229 0.388599693 2.760813327 1.07289126 68° 46′ 00″ 0.93213382 0.3621210 2.57334229 0.38843809 2.761502386 1.07281079 68° 46′ 00″ 0.93213382 0.3621210 2.573442122 0.38843809 2.761502386 1.07281079 68° 46′ 00″ 0.93213382 0.36212170 2.57342109 0.388320707 2.762536667 1.0727908 68° 46′ 40″ 0.93213382 0.36212170 2.575911804 0.388336500 2.762191814 1.07277038 68° 46′ 40″ 0.93213837 0.36185056 2.5756301418 0.388153340 2.763251762 1.07276908 68° 47′ 00″ 0.932223661 0.36185056 2.5756301418 0.388153340 2.763517700 1.07266943 68° 47′ 00″ 0.93225366 0.361	68° 42′ 20″	0.93172645	0.36316089	2.565602388	0.389772010	2.753600481	1.073276395
68° 42′ 50″ 0.93177925 0.36302537 2.566705602 0.389604479 2.754628405 1.07321556 68° 43′ 00″ 0.93179685 0.36298020 2.567073524 0.389548640 2.754971230 1.07319529 68° 43′ 10″ 0.93181445 0.36293502 2.567441537 0.389492803 2.755314146 1.07317502 68° 43′ 30″ 0.93184964 0.36288985 2.567809641 0.389436968 2.755657155 1.07317466 68° 43′ 40″ 0.93186723 0.36279949 2.568546125 0.389325304 2.756343447 1.07311424 68° 43′ 50″ 0.93188482 0.36279431 2.568914505 0.389269475 2.756686731 1.07307374 68° 44′ 00″ 0.93199040 0.36266395 2.569651540 0.389157823 2.757373575 1.07307374 68° 44′ 20″ 0.9319757 0.36261877 2.570020195 0.3891046180 2.758660788 1.07301301 68° 44′ 50″ 0.93199030 0.36248322 2.571126711 0.388934546 2.758748369 1.07297254 68° 45′ 30″ 0.93204301	68° 42′ 30″	0.93174405	0.36311572	2.565970034	0.389716164	2.753943031	1.073256115
68° 43′ 00″ 0.93179685 0.36298020 2.567073524 0.389548640 2.754971230 1.07317529 68° 43′ 10″ 0.93181445 0.36293502 2.567441537 0.389492803 2.755314146 1.07317502 68° 43′ 20″ 0.93183204 0.36288985 2.567809641 0.389436968 2.755657155 1.07315476 68° 43′ 30″ 0.93184964 0.36284467 2.568546125 0.389381313 2.756000255 1.07313450 68° 43′ 50″ 0.93188482 0.36279949 2.568546125 0.389269475 2.756686731 1.07307374 68° 44′ 00″ 0.93190240 0.36270913 2.569282976 0.389213648 2.757030107 1.07307374 68° 44′ 20″ 0.93197375 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 30″ 0.93199514 0.36257359 2.570388942 0.3899046180 2.758046788 1.07297254 68° 45′ 00″ 0.93200787 0.36248322 2.571126711 0.388934546 2.758748369 1.07297254 68° 45′ 20″ 0.93204301	68° 42′ 40″	0.93176165	0.36307054	2.566337773	0.389660321	2.754285672	1.073235839
68° 43′ 10″ 0.93181445 0.36293502 2.567441537 0.389492803 2.755314146 1.07317502 68° 43′ 20″ 0.93183204 0.36288985 2.567809641 0.389436968 2.755657155 1.07315476 68° 43′ 30″ 0.93184964 0.36284467 2.568177837 0.389381135 2.756000255 1.07313450 68° 43′ 40″ 0.93188422 0.3627949 2.568546125 0.389325304 2.7566866731 1.07307374 68° 44′ 00″ 0.93189482 0.36279913 2.569282976 0.389213648 2.757030107 1.07307374 68° 44′ 10″ 0.9319757 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 30″ 0.93197272 0.36252841 2.570388942 0.389046180 2.758060788 1.07301301 68° 45′ 00″ 0.931997272 0.36252841 2.570757780 0.388938546 2.758060788 1.07297254 68° 45′ 10″ 0.93200787 0.362343804 2.571126711 0.388878732 2.759092298 1.07297254 68° 45′ 30″ 0.93206057	68° 42′ 50″	0.93177925	0.36302537	2.566705602	0.389604479	2.754628405	1.073215566
68° 43′ 20″ 0.93183204 0.36288985 2.567809641 0.389436968 2.755657155 1.07315476 68° 43′ 30″ 0.93184964 0.36284467 2.568177837 0.389381135 2.756000255 1.07313450 68° 43′ 40″ 0.93186723 0.36279949 2.568546125 0.389325304 2.756343447 1.07311424 68° 43′ 50″ 0.93188482 0.36275431 2.568914505 0.389269475 2.756686731 1.07309399 68° 44′ 10″ 0.93191998 0.36266395 2.569651540 0.389157823 2.757373575 1.07305349 68° 44′ 30″ 0.93193757 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 30″ 0.93197272 0.36252841 2.570757780 0.388990362 2.758060788 1.07301301 68° 45′ 00″ 0.93199030 0.36248322 2.571126711 0.388934546 2.758404533 1.07297254 68° 45′ 10″ 0.93200787 0.36230248 2.571864849 0.388876710 2.759436319 1.07297254 68° 45′ 50″ 0.93204301	68° 43′ 00″	0.93179685	0.36298020	2.567073524	0.389548640	2.754971230	1.073195296
68° 43′ 30″ 0.93184964 0.36284467 2.568177837 0.389381135 2.756000255 1.07313450 68° 43′ 40″ 0.93186723 0.36279949 2.568546125 0.389325304 2.756343447 1.07311424 68° 43′ 50″ 0.93188482 0.36275431 2.568914505 0.389269475 2.756686731 1.07309399 68° 44′ 10″ 0.9319199240 0.36266395 2.569651540 0.389157823 2.75733575 1.07305349 68° 44′ 20″ 0.93193757 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 30″ 0.931975514 0.36257359 2.570388942 0.3889046180 2.758060788 1.073013010 68° 44′ 50″ 0.93199030 0.36248322 2.571126711 0.388990362 2.758404533 1.07297254 68° 45′ 10″ 0.93200787 0.36234804 2.571495734 0.388878732 2.759092298 1.07295231 68° 45′ 20″ 0.93204301 0.362334767 2.572234056 0.388767110 2.759436319 1.07287166 68° 45′ 30″ 0.93207814	68° 43′ 10″	0.93181445	0.36293502	2.567441537	0.389492803	2.755314146	1.073175029
68° 43′ 40″ 0.93186723 0.36279949 2.568546125 0.389325304 2.756343447 1.07311424 68° 43′ 50″ 0.93188482 0.36275431 2.568914505 0.389269475 2.756686731 1.07309399 68° 44′ 00″ 0.93190240 0.36270913 2.569282976 0.389213648 2.757030107 1.07307374 68° 44′ 10″ 0.93191998 0.36266395 2.569651540 0.389157823 2.757373575 1.07305349 68° 44′ 30″ 0.9319757 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 40″ 0.93197272 0.36252841 2.570757780 0.3889046180 2.758060788 1.07301301 68° 44′ 50″ 0.93199030 0.36248322 2.571126711 0.388890362 2.758404533 1.07297254 68° 45′ 10″ 0.93202544 0.36239285 2.571864849 0.388876710 2.759780433 1.07293208 68° 45′ 30″ 0.93206057 0.36230248 2.571495734 0.3888767110 2.759780433 1.07295244 68° 45′ 50″ 0.932184	68° 43′ 20″	0.93183204	0.36288985	2.567809641	0.389436968	2.755657155	1.073154766
68° 43′ 50″ 0.93188482 0.36275431 2.568914505 0.389269475 2.756686731 1.07309399 68° 44′ 00″ 0.93190240 0.36270913 2.569282976 0.389213648 2.757030107 1.07307374 68° 44′ 10″ 0.93191998 0.36266395 2.569651540 0.389157823 2.757373575 1.07305349 68° 44′ 20″ 0.93193757 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 40″ 0.93197272 0.36252841 2.570757780 0.3889046180 2.758060788 1.07297274 68° 45′ 00″ 0.93199030 0.36243804 2.571126711 0.388934546 2.758748369 1.07297274 68° 45′ 10″ 0.93200787 0.362343804 2.571495734 0.388878732 2.759902298 1.07295231 68° 45′ 20″ 0.93204301 0.36234767 2.572234056 0.388767110 2.759486319 1.07287164 68° 45′ 30″ 0.93207814 0.36225729 2.5727272746 0.38859693 2.760124639 1.07287162 68° 46′ 40″ 0.93213082	68° 43′ 30″	0.93184964	0.36284467	2.568177837	0.389381135	2.756000255	1.073134506
68° 44′ 00″ 0.93190240 0.36270913 2.569282976 0.389213648 2.757030107 1.07307374 68° 44′ 10″ 0.93191998 0.36266395 2.569651540 0.389157823 2.757373575 1.07305349 68° 44′ 20″ 0.93193757 0.36261877 2.570020195 0.389102001 2.757717136 1.07303325 68° 44′ 30″ 0.93197272 0.36252841 2.570757780 0.3889046180 2.758060788 1.07301301 68° 44′ 50″ 0.93199030 0.36252841 2.570757780 0.388934546 2.758748369 1.07297254 68° 45′ 00″ 0.93200787 0.362343804 2.571495734 0.38887332 2.759092298 1.07295231 68° 45′ 10″ 0.93204301 0.36234767 2.572234056 0.388767110 2.759780433 1.07291186 68° 45′ 30″ 0.93207814 0.36225729 2.572972746 0.388767110 2.760124639 1.07287142 68° 45′ 40″ 0.9321326 0.36212110 2.573342229 0.38876993 2.760124639 1.07287142 68° 46′ 50″ 0.9321388 <	68° 43′ 40″	0.93186723	0.36279949	2.568546125	0.389325304	2.756343447	1.073114249
68° 44′ 10″	68° 43′ 50″	0.93188482	0.36275431	2.568914505	0.389269475	2.756686731	1.073093996
68° 44′ 20″	68° 44′ 00″	0.93190240	0.36270913	2.569282976	0.389213648	2.757030107	1.073073746
68° 44′ 30″ 0.93195514 0.36257359 2.570388942 0.389046180 2.758060788 1.07301301 68° 44′ 40″ 0.93197272 0.36252841 2.570757780 0.388990362 2.758404533 1.07299277 68° 44′ 50″ 0.93199030 0.36248322 2.571126711 0.388934546 2.758748369 1.07297254 68° 45′ 00″ 0.93200787 0.36243804 2.571495734 0.388878732 2.759092298 1.07295231 68° 45′ 10″ 0.93202544 0.36239285 2.571864849 0.388822920 2.759436319 1.07293208 68° 45′ 30″ 0.93204301 0.36230248 2.572234056 0.388767110 2.759780433 1.07291186 68° 45′ 30″ 0.93207814 0.36230248 2.572603355 0.388711302 2.760124639 1.07287142 68° 45′ 40″ 0.93207814 0.36225729 2.572972746 0.388595693 2.760813327 1.07287142 68° 46′ 10″ 0.93211326 0.36216691 2.573711804 0.388543891 2.761157810 1.07283100 68° 46′ 30″ 0.9321837	68° 44′ 10″	0.93191998	0.36266395	2.569651540	0.389157823	2.757373575	1.073053499
68° 44′ 40″	68° 44′ 20″	0.93193757	0.36261877	2.570020195	0.389102001	2.757717136	1.073033255
68° 44′ 50″ 0.93199030 0.36248322 2.571126711 0.388934546 2.758748369 1.07297254 68° 45′ 00″ 0.93200787 0.36243804 2.571495734 0.388878732 2.759092298 1.07295231 68° 45′ 10″ 0.93202544 0.36239285 2.571864849 0.388822920 2.759436319 1.07293208 68° 45′ 20″ 0.93204301 0.36234767 2.572234056 0.388767110 2.759780433 1.07291186 68° 45′ 30″ 0.93206057 0.36230248 2.572603355 0.388711302 2.760124639 1.07287142 68° 45′ 50″ 0.93209570 0.36221210 2.573342229 0.388599693 2.760813327 1.07285121 68° 46′ 00″ 0.93211326 0.36216691 2.573711804 0.3885488092 2.761157810 1.07283100 68° 46′ 10″ 0.93214837 0.36207653 2.574451232 0.388488092 2.761502386 1.07279058 68° 46′ 50″ 0.93218347 0.36203134 2.574821084 0.388376500 2.762191814 1.07277038 68° 46′ 50″ 0.93221857	68° 44′ 30″	0.93195514	0.36257359	2.570388942	0.389046180	2.758060788	1.073013015
68° 45′ 00″	68° 44′ 40″	0.93197272	0.36252841	2.570757780	0.388990362	2.758404533	1.072992778
68° 45′ 10″ 0.93202544 0.36239285 2.571864849 0.388822920 2.759436319 1.07293208 68° 45′ 20″ 0.93204301 0.36234767 2.572234056 0.388767110 2.759780433 1.07291186 68° 45′ 30″ 0.93206057 0.36230248 2.572603355 0.388711302 2.760124639 1.07289164 68° 45′ 40″ 0.93207814 0.36225729 2.572972746 0.388655497 2.760468937 1.07287142 68° 45′ 50″ 0.93209570 0.36221210 2.573342229 0.388599693 2.760813327 1.07285121 68° 46′ 00″ 0.93211326 0.36216691 2.573711804 0.388543891 2.761157810 1.07283100 68° 46′ 10″ 0.93213082 0.36212172 2.574081472 0.388488092 2.761502386 1.07281079 68° 46′ 20″ 0.93214837 0.36207653 2.574451232 0.388432295 2.761847053 1.07279058 68° 46′ 30″ 0.93216592 0.36203134 2.574821084 0.388376500 2.762191814 1.07277038 68° 46′ 40″ 0.93218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 46′ 50″ 0.93220102 0.36194095 2.575561066 0.388264916 2.762881613 1.07272999 68° 47′ 00″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 44′ 50″	0.93199030	0.36248322	2.571126711	0.388934546	2.758748369	1.072972544
68° 45′ 20″	68° 45′ 00″	0.93200787	0.36243804	2.571495734	0.388878732	2.759092298	1.072952314
68° 45′ 30″ 0.93206057 0.36230248 2.572603355 0.388711302 2.760124639 1.07289164 68° 45′ 40″ 0.93207814 0.36225729 2.572972746 0.388655497 2.760468937 1.07287142 68° 45′ 50″ 0.93209570 0.36221210 2.573342229 0.388599693 2.760813327 1.07285121 68° 46′ 00″ 0.93211326 0.36216691 2.573711804 0.388543891 2.761157810 1.07283100 68° 46′ 10″ 0.93213082 0.36212172 2.574081472 0.388488092 2.761502386 1.07281079 68° 46′ 30″ 0.93214837 0.36207653 2.574451232 0.388432295 2.761847053 1.07277038 68° 46′ 40″ 0.93218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 46′ 50″ 0.93220102 0.36184095 2.575561066 0.388264916 2.7622881613 1.07272999 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07266943 68° 47′ 20″ 0.93225366	68° 45′ 10″	0.93202544	0.36239285	2.571864849	0.388822920	2.759436319	1.072932087
68° 45′ 40″ 0.93207814 0.36225729 2.572972746 0.388655497 2.760468937 1.07287142 68° 45′ 50″ 0.93209570 0.36221210 2.573342229 0.388599693 2.760813327 1.07285121 68° 46′ 00″ 0.93211326 0.36216691 2.573711804 0.388543891 2.761157810 1.07283100 68° 46′ 10″ 0.93213082 0.36212172 2.574081472 0.388488092 2.761502386 1.07281079 68° 46′ 20″ 0.93214837 0.36207653 2.574451232 0.388432295 2.761847053 1.07279058 68° 46′ 30″ 0.93216592 0.36203134 2.574821084 0.388376500 2.762191814 1.07277038 68° 46′ 50″ 0.932218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 47′ 00″ 0.93221857 0.36189576 2.575931196 0.388209127 2.763226651 1.07270980 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388097555 2.763917006 1.07266943	68° 45′ 20″	0.93204301	0.36234767	2.572234056	0.388767110	2.759780433	1.072911863
68° 45′ 50″ 0.93209570 0.36221210 2.573342229 0.388599693 2.760813327 1.07285121 68° 46′ 00″ 0.93211326 0.36216691 2.573711804 0.388543891 2.761157810 1.07283100 68° 46′ 10″ 0.93213082 0.36212172 2.574081472 0.388488092 2.761502386 1.07281079 68° 46′ 20″ 0.93214837 0.36207653 2.574451232 0.388432295 2.761847053 1.07279058 68° 46′ 30″ 0.93216592 0.36203134 2.574821084 0.388376500 2.762191814 1.07277038 68° 46′ 50″ 0.932218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 47′ 00″ 0.93221857 0.36189576 2.575931196 0.388264916 2.763226651 1.07270980 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07266943 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 45′ 30″	0.93206057	0.36230248	2.572603355	0.388711302	2.760124639	1.072891642
68° 46′ 00″ 0.93211326 0.36216691 2.573711804 0.388543891 2.761157810 1.07283100 68° 46′ 10″ 0.93213082 0.36212172 2.574081472 0.388488092 2.761502386 1.07281079 68° 46′ 20″ 0.93214837 0.36207653 2.574451232 0.388432295 2.761847053 1.07279058 68° 46′ 30″ 0.93216592 0.36203134 2.574821084 0.388376500 2.762191814 1.07277038 68° 46′ 50″ 0.932218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 46′ 50″ 0.93220102 0.36194095 2.575561066 0.388264916 2.762881613 1.07272999 68° 47′ 00″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 45′ 40″	0.93207814	0.36225729	2.572972746	0.388655497	2.760468937	1.072871425
68° 46′ 10″ 0.93213082 0.36212172 2.574081472 0.388488092 2.761502386 1.07281079 68° 46′ 20″ 0.93214837 0.36207653 2.574451232 0.388432295 2.761847053 1.07279058 68° 46′ 30″ 0.93216592 0.36203134 2.574821084 0.388376500 2.762191814 1.07277038 68° 46′ 40″ 0.93218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 46′ 50″ 0.93220102 0.36194095 2.575561066 0.388264916 2.762881613 1.07272999 68° 47′ 00″ 0.93221857 0.36189576 2.575931196 0.388209127 2.763226651 1.07270980 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 45′ 50″	0.93209570	0.36221210	2.573342229	0.388599693	2.760813327	1.072851211
68° 46′ 20″ 0.93214837 0.36207653 2.574451232 0.388432295 2.761847053 1.07279058 68° 46′ 30″ 0.93216592 0.36203134 2.574821084 0.388376500 2.762191814 1.07277038 68° 46′ 40″ 0.93218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 46′ 50″ 0.93220102 0.36194095 2.575561066 0.388264916 2.762881613 1.07272999 68° 47′ 00″ 0.93221857 0.36189576 2.575931196 0.388209127 2.763226651 1.07270980 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 46′ 00″	0.93211326	0.36216691	2.573711804	0.388543891	2.761157810	1.072831000
68° 46′ 30″ 0.93216592 0.36203134 2.574821084 0.388376500 2.762191814 1.07277038 68° 46′ 40″ 0.93218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 46′ 50″ 0.93220102 0.36194095 2.575561066 0.388264916 2.762881613 1.07272999 68° 47′ 00″ 0.93221857 0.36189576 2.575931196 0.388209127 2.763226651 1.07270980 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 46′ 10″	0.93213082	0.36212172	2.574081472	0.388488092	2.761502386	1.072810793
68° 46′ 40″ 0.93218347 0.36198615 2.575191029 0.388320707 2.762536667 1.07275019 68° 46′ 50″ 0.93220102 0.36194095 2.575561066 0.388264916 2.762881613 1.07272999 68° 47′ 00″ 0.93221857 0.36189576 2.575931196 0.388209127 2.763226651 1.07270980 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 46′ 20″	0.93214837	0.36207653	2.574451232	0.388432295	2.761847053	1.072790589
68° 46′ 50″ 0.93220102 0.36194095 2.575561066 0.388264916 2.762881613 1.07272999 68° 47′ 00″ 0.93221857 0.36189576 2.575931196 0.388209127 2.763226651 1.07270980 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 46′ 30″	0.93216592	0.36203134	2.574821084	0.388376500	2.762191814	1.072770388
68° 47′ 00″ 0.93221857 0.36189576 2.575931196 0.388209127 2.763226651 1.07270980 68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 46′ 40″	0.93218347	0.36198615	2.575191029	0.388320707	2.762536667	1.072750190
68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 46′ 50″	0.93220102	0.36194095	2.575561066	0.388264916	2.762881613	1.072729996
68° 47′ 10″ 0.93223611 0.36185056 2.576301418 0.388153340 2.763571782 1.07268961 68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943	68° 47′ 00″	0.93221857	0.36189576	2.575931196	0.388209127	2.763226651	1.072709805
68° 47′ 20″ 0.93225366 0.36180536 2.576671732 0.388097555 2.763917006 1.07266943							1.072689617
	68° 47′ 20″		0.36180536				1.072669433
	68° 47′ 30″	0.93227120					1.072649252
	68° 47′ 40″						1.072629074
	68° 47′ 50″						1.072608899

516 68° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
68° 48′ 00″	0.93232380	0.36162457	2.578153915	0.387874438	2.765298828	1.072588728
68° 48′ 10″	0.93234133	0.36157937	2.578524693	0.387818663	2.765644516	1.072568560
68° 48′ 20″	0.93235886	0.36153417	2.578895563	0.387762891	2.765990297	1.072548395
68° 48′ 30″	0.93237639	0.36148897	2.579266526	0.387707121	2.766336171	1.072528234
68° 48′ 40″	0.93239391	0.36144376	2.579637581	0.387651354	2.766682138	1.072508075
68° 48′ 50″	0.93241143	0.36139856	2.580008730	0.387595588	2.767028198	1.072487921
68° 49′ 00″	0.93242895	0.36135335	2.580379971	0.387539824	2.767374351	1.072467769
68° 49′ 10″	0.93244647	0.36130815	2.580751306	0.387484062	2.767720597	1.072447620
68° 49′ 20″	0.93246399	0.36126294	2.581122733	0.387428303	2.768066936	1.072427475
68° 49′ 30″	0.93248150	0.36121773	2.581494253	0.387372546	2.768413368	1.072407334
68° 49′ 40″	0.93249901	0.36117252	2.581865866	0.387316790	2.768759894	1.072387195
68° 49′ 50″	0.93251652	0.36112732	2.582237572	0.387261037	2.769106513	1.072367060
68° 50′ 00″	0.93253403	0.36108210	2.582609372	0.387205286	2.769453225	1.072346928
68° 50′ 10″	0.93255153	0.36103689	2.582981264	0.387149537	2.769800031	1.072326799
68° 50′ 20″	0.93256904	0.36099168	2.583353250	0.387093790	2.770146930	1.072306674
68° 50′ 30″	0.93258654	0.36094647	2.583725328	0.387038045	2.770493922	1.072286551
68° 50′ 40″	0.93260403	0.36090126	2.584097500	0.386982302	2.770841008	1.072266433
68° 50′ 50″	0.93262153	0.36085604	2.584469766	0.386926562	2.771188187	1.072246317
68° 51′ 00″	0.93263902	0.36081083	2.584842124	0.386870823	2.771535460	1.072226205
68° 51′ 10″	0.93265651	0.36076561	2.585214576	0.386815087	2.771882827	1.072206095
68° 51′ 20″	0.93267400	0.36072039	2.585587121	0.386759352	2.772230287	1.072185990
68° 51′ 30″	0.93269149	0.36067518	2.585959760	0.386703620	2.772577840	1.072165887
68° 51′ 40″	0.93270898	0.36062996	2.586332492	0.386647890	2.772925488	1.072145788
68° 51′ 50″	0.93272646	0.36058474	2.586705318	0.386592162	2.773273229	1.072125692
68° 52′ 00″	0.93274394	0.36053952	2.587078237	0.386536436	2.773621063	1.072105599
68° 52′ 10″	0.93276142	0.36049430	2.587451249	0.386480712	2.773968992	1.072085510
68° 52′ 20″	0.93277889	0.36044907	2.587824356	0.386424990	2.774317014	1.072065424
68° 52′ 30″	0.93279637	0.36040385	2.588197556	0.386369270	2.774665131	1.072045341
68° 52′ 40″	0.93281384	0.36035863	2.588570849	0.386313552	2.775013341	1.072025261
68° 52′ 50″	0.93283131	0.36031340	2.588944236	0.386257837	2.775361645	1.072005185
68° 53′ 00″	0.93284878	0.36026818	2.589317718	0.386202123	2.775710043	1.071985112
68° 53′ 10″	0.93286624	0.36022295	2.589691292	0.386146412	2.776058535	1.071965042
68° 53′ 20″	0.93288370	0.36017772	2.590064961	0.386090702	2.776407121	1.071944975
68° 53′ 30″	0.93290117	0.36013250	2.590438723	0.386034995	2.776755801	1.071924912
68° 53′ 40″	0.93291862	0.36008727	2.590812580	0.385979290	2.777104576	1.071904852
68° 53′ 50″	0.93293608	0.36004204	2.591186530	0.385923587	2.777453444	1.071884796
68° 54′ 00″	0.93295353	0.35999681	2.591560574	0.385867886	2.777802407	1.071864742
68° 54′ 10″	0.93297099	0.35995158	2.591934713	0.385812187	2.778151464	1.071844692
68° 54′ 20″	0.93298844	0.35990634	2.592308945	0.385756490	2.778500615	1.071824645
68° 54′ 30″	0.93300588	0.35986111	2.592683271	0.385700795	2.778849860	1.071804601
68° 54′ 40″	0.93302333	0.35981588	2.593057692	0.385645103	2.779199200	1.071784561
68° 54′ 50″	0.93304077	0.35977064	2.593432207	0.385589412	2.779548634	1.071764524
68° 55′ 00″	0.93305821	0.35972541	2.593806815	0.385533724	2.779898163	1.071744490
68° 55′ 10″	0.93307565	0.35968017	2.594181518	0.385478037	2.780247786	1.071724460
68° 55′ 20″	0.93309309	0.35963493	2.594556316	0.385422353	2.780597503	1.071704432
68° 55′ 30″	0.93311052	0.35958970	2.594931207	0.385366671	2.780947315	1.071684408
68° 55′ 40″ 68° 55′ 50″	0.93312796	0.35954446	2.595306193	0.385310990	2.781297222	1.071664387
<u> </u>	0.93314539	0.35949922	2.595681274	0.385255312	2.781647223	1.071644370

517 68° 55′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
68° 56′ 00″	0.93316281	0.35945398	2.596056449	0.385199636	2.781997319	1.071624356
68° 56′ 10″	0.93318024	0.35940874	2.596431718	0.385143962	2.782347510	1.071604345
68° 56′ 20″	0.93319766	0.35936349	2.596807081	0.385088291	2.782697795	1.071584337
68° 56′ 30″	0.93321509	0.35931825	2.597182540	0.385032621	2.783048175	1.071564333
68° 56′ 40″	0.93323250	0.35927301	2.597558092	0.384976953	2.783398650	1.071544332
68° 56′ 50″	0.93324992	0.35922776	2.597933740	0.384921288	2.783749219	1.071524334
68° 57′ 00″	0.93326734	0.35918252	2.598309482	0.384865624	2.784099884	1.071504339
68° 57′ 10″	0.93328475	0.35913727	2.598685319	0.384809962	2.784450643	1.071484348
68° 57′ 20″	0.93330216	0.35909202	2.599061250	0.384754303	2.784801498	1.071464360
68° 57′ 30″	0.93331957	0.35904677	2.599437276	0.384698646	2.785152447	1.071444375
68° 57′ 40″	0.93333697	0.35900152	2.599813397	0.384642991	2.785503491	1.071424393
68° 57′ 50″	0.93335438	0.35895627	2.600189613	0.384587337	2.785854631	1.071404415
68° 58′ 00″	0.93337178	0.35891102	2.600565924	0.384531686	2.786205865	1.071384440
68° 58′ 10″	0.93338918	0.35886577	2.600942329	0.384476037	2.786557195	1.071364468
68° 58′ 20″	0.93340658	0.35882052	2.601318830	0.384420390	2.786908620	1.071344499
68° 58′ 30″	0.93342397	0.35877527	2.601695425	0.384364746	2.787260140	1.071324534
68° 58′ 40″	0.93344136	0.35873001	2.602072116	0.384309103	2.787611755	1.071304572
68° 58′ 50″	0.93345875	0.35868476	2.602448901	0.384253462	2.787963465	1.071284613
68° 59′ 00″	0.93347614	0.35863950	2.602825782	0.384197823	2.788315271	1.071264658
68° 59′ 10″	0.93349353	0.35859425	2.603202758	0.384142187	2.788667172	1.071244706
68° 59′ 20″	0.93351091	0.35854899	2.603579829	0.384086552	2.789019169	1.071224757
68° 59′ 30″	0.93352829	0.35850373	2.603956995	0.384030920	2.789371261	1.071204811
68° 59′ 40″	0.93354567	0.35845847	2.604334256	0.383975290	2.789723448	1.071184869
68° 59′ 50″	0.93356305	0.35841321	2.604711613	0.383919661	2.790075731	1.071164930
69° 00′ 00″	0.93358043	0.35836795	2.605089065	0.383864035	2.790428110	1.071144994
69° 00′ 10″	0.93359780	0.35832269	2.605466612	0.383808411	2.790780584	1.071125061
69° 00′ 20″	0.93361517	0.35827743	2.605844255	0.383752789	2.791133153	1.071105132
69° 00′ 30″	0.93363254	0.35823216	2.606221993	0.383697169	2.791485819	1.071085205
69° 00′ 40″	0.93364991	0.35818690	2.606599827	0.383641551	2.791838580	1.071065283
69° 00′ 50″	0.93366727	0.35814163	2.606977756	0.383585935	2.792191437	1.071045363
69° 01′ 00″	0.93368463	0.35809637	2.607355780	0.383530321	2.792544389	1.071025447
69° 01′ 10″	0.93370199	0.35805110	2.607733901	0.383474710	2.792897437	1.071005534
69° 01′ 20″	0.93371935	0.35800583	2.608112116	0.383419100	2.793250582	1.070985624
69° 01′ 30″	0.93373671	0.35796056	2.608490428	0.383363492	2.793603822	1.070965717
69° 01′ 40″	0.93375406	0.35791529	2.608868835	0.383307887	2.793957158	1.070945814
69° 01′ 50″ 69° 02′ 00″	0.93377141	0.35787002	2.609247338	0.383252283	2.794310590	1.070925914
	0.93378876	0.35782475	2.609625937	0.383196682	2.794664118	1.070906017
69° 02′ 10″	0.93380611	0.35777948	2.610004631	0.383141083	2.795017742	1.070886123
69° 02′ 20″	0.93382345	0.35773421	2.610383422	0.383085485	2.795371462	1.070866233
69° 02′ 30″	0.93384079	0.35768894	2.610762308	0.383029890	2.795725278	1.070846346
69° 02′ 40″	0.93385813	0.35764366	2.611141290	0.382974297	2.796079190	1.070826462
69° 02′ 50″	0.93387547	0.35759839	2.611520369	0.382918706	2.796433199	1.070806582
69° 03′ 00″	0.93389281	0.35755311	2.611899543	0.382863117	2.796787304	1.070786704
69° 03′ 10″ 69° 03′ 20″	0.93391014	0.35750783	2.612278813	0.382807530	2.797141505	1.070766830
	0.93392747	0.35746256	2.612658179	0.382751945	2.797495802	1.070746960
69° 03′ 30″ 69° 03′ 40″	0.93394480	0.35741728	2.613037642	0.382696362	2.797850196	1.070727092
69° 03′ 40″ 69° 03′ 50″	0.93396213	0.35737200	2.613417200	0.382640782	2.798204686	1.070707228
<u> </u>	0.93397945	0.35732672	2.613796855	0.382585203	2.798559272	1.070687367

518 **69° 03′ 50″**

Cos(x) C		• ()				()	()
69° 04′ 10″ 0,93401409 0,35723616 2,614556453 0,382474052 2,799263734 1,0706476556 69° 04′ 20″ 0,93404873 0,35714559 2,615316437 0,382362909 2,799978583 1,070658764 69° 04′ 40″ 0,93406604 0,35710030 2,615696573 0,382367304 2,800333652 1,070588111 69° 04′ 50″ 0,93408335 0,35705502 2,616076806 0,382251774 2,800688818 1,0705681269 69° 05′ 10″ 0,93411076 0,35596445 2,616837561 0,382140648 2,801399439 1,070528764 69° 05′ 10″ 0,93411528 0,35691916 2,617128083 0,3822055037 2,801754895 1,070508764 69° 05′ 30″ 0,93416788 0,3568387 2,617598702 0,382029529 2,802110448 1,070488936 69° 05′ 50″ 0,93416788 0,3568387 2,617598702 0,382029529 2,802110448 1,070488936 69° 05′ 50″ 0,93416788 0,3568387 2,617598702 0,382029529 2,802110448 1,070488936 69° 05′ 50″ 0,93416788 0,35683287 2,6163860229 0,381973973 2,802466098 1,070469110 69° 06′ 50″ 0,93422177 0,35669271 2,619122144 0,381807318 2,803533628 1,070409154 69° 06′ 20″ 0,934223906 0,35664741 2,619503246 0,381862867 2,803177688 1,070489180 69° 06′ 50″ 0,93422390 0,35664741 2,619503246 0,381696224 2,804245800 1,070380842 69° 06′ 50″ 0,93422390 0,35664741 2,619503246 0,381696224 2,804245800 1,070380827 69° 07′ 00″ 0,93432549 0,35664741 2,619503246 0,381696224 2,804620331 1,070380827 69° 07′ 00″ 0,93432549 0,3566424 2,621912214 0,381852199 2,805314785 1,070330425 69° 07′ 00″ 0,93433640 0,3563034 2,621912414 0,381862867 2,806020213 1,070330425 69° 07′ 00″ 0,93434591 0,3564624 2,621102610 0,381418526 2,80602031 1,070330425 69° 07′ 00″ 0,93434679 0,3564504 2,62275555 0,381362993 2,80638464 1,070271037 69° 07′ 00″ 0,93434871 0,35633034 2,621416210 0,381418526 2,806027928 1,070271037 69° 08′ 00″ 0,93446483 0,3561334 2,622458598 0,381251932 2,80638464 1,070271037 69° 08′ 00″ 0,93445819 0,3564244 2,623701769 0,381414850 2,80741461 1,070231461 69° 09′ 00″ 0,93445819 0,3556454 1,626235555 0,381369293 2,80638446 1,070271037 69° 09′ 00″ 0,93445849 0,3556469 2,6262762627 0,38066752 2,81031498 1,070013287 69° 09′ 00″ 0,93445849 0,3556469 2,62625627 0		$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
69° 04′ 20″ 0.93403141 0.35719087 2.614936397 0.382418479 2.799623610 1.070627803 69° 04′ 30″ 0.93406604 0.35710509 2.615316437 0.382362909 2.799978583 1.070607803 69° 04′ 50″ 0.9340833 0.35710509 2.616566573 0.3822367340 2.800333652 1.070582111 0.07058211 0.07057000 0.9341060 0.35700973 2.616578650 0.382231734 2.800688818 1.070568259 0.070 0.07057007 0.9341077 0.35696445 2.616837561 0.382140648 2.801399439 1.070528596 0.05′ 20″ 0.93413528 0.35691916 2.617218083 0.382085087 2.801754895 1.070528596 0.05′ 20″ 0.93415258 0.35687387 2.617598702 0.382029529 2.802110448 1.070448936 0.05′ 50″ 0.93416728 0.35687387 2.617598702 0.382029529 2.802110448 1.0704492480 0.05′ 50″ 0.93412044 0.35678329 2.618360229 0.381918419 2.802821844 1.0704492480 0.05′ 50″ 0.93412044 0.35678329 2.618360229 0.381918419 2.802821844 1.0704492480 0.05′ 50″ 0.93412044 0.35678320 2.6184138 0.381862867 2.803177688 1.07049654 0.05′ 0.070409447 0.35669271 2.619122144 0.381807318 2.803533628 1.070409654 0.070409664 0.070409644 0.35653430 2.61844138 0.38160680 2.8004245800 1.070370033 0.070409654 0.0704096454 0.0704096454 0.3565363 0.36661741 2.619503246 0.381751770 2.803889665 1.07038033 0.070409654 0.							
69° 04′ 30″ 0,93406873 0,35714559 2,615316437 0,382362909 2,799978583 1,070607955 69° 04′ 40″ 0,93408335 0,35705502 2,616976806 0,382251774 2,800688818 1,070568269 69° 05′ 00″ 0,9341066 0,3570973 2,616457135 0,382196210 2,801044080 1,070548431 0,70568269 69° 05′ 20″ 0,93411377 0,35697644 2,616837561 0,382140648 2,801399439 1,070528596 69° 05′ 20″ 0,9341528 0,35691916 2,617218083 0,382085087 2,801734895 1,07058764 69° 05′ 30″ 0,9341528 0,35687387 2,617598702 0,382029529 2,802110448 1,070489316 69° 05′ 50″ 0,93416988 0,35682888 2,617799417 0,381973973 2,802466098 1,070469110 69° 05′ 50″ 0,93412917 0,35673800 2,618741138 0,381862867 2,803177688 1,070469110 69° 06′ 00″ 0,93422917 0,35673800 2,618741138 0,381862867 2,803177688 1,070469110 69° 06′ 00″ 0,93422917 0,35673800 2,618741138 0,381862867 2,803177688 1,07046914 69° 06′ 00″ 0,93422917 0,35660212 2,619884445 0,381696224 2,804245800 1,070330925 69° 06′ 40″ 0,93422934 0,335660212 2,619884445 0,381696224 2,804245800 1,070330923 69° 06′ 40″ 0,9342934 0,335646204 2,62102862 0,381585139 2,80958360 1,0703300227 69° 07′ 20″ 0,93430821 0,35646649 2,621410210 0,38147606 2,805671308 1,070290829 69° 07′ 20″ 0,93430801 0,35646204 2,621410210 0,38147606 2,8056314785 1,070330425 69° 07′ 20″ 0,93439459 0,35623974 2,621410210 0,38147606 2,805671308 1,070290829 69° 07′ 20″ 0,934346365 0,35663934 2,622173675 0,381802993 2,805314785 1,070211678 69° 08′ 30″ 0,934346365 0,35603834 2,622174367 0,38184080 2,806384646 1,070231461 69° 07′ 50″ 0,934342913 0,3561384 2,62293528 0,3818251932 2,805348489 1,070127122 69° 08′ 40″ 0,93446365 0,3560383 2,622446399 0,381140880 2,8074316 2,80634464 1,070231461 69° 07′ 50″ 0,93446365 0,3560383 2,622446399 0,38102933 2,80534489 1,070127122 69° 08′ 40″ 0,93446365 0,3560383 2,62446639 0,38108384 2,80959371 1,0700330425 69° 09′ 00″ 0,93456141 0,3557418 2,62397528 1,3880284 2,809599486 1,070023146 69° 09′ 00″ 0,93456141 0,3557438 2,62294599 0,380038284 2,809599486 1,07003377 69° 00′ 00″ 0,93456341 0,35560545 2,62296367 0,380036290 2,81138994 1,070012328							
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69° 11′ 30″ 0.93477402 0.35524292 2.631365627 0.380030806 2.814975144 1.069777273 69° 11′ 40″ 0.93479124 0.35519760 2.631749847 0.379975324 2.815334306 1.069757564							
69° 11′ 40″ 0.93479124 0.35519760 2.631749847 0.379975324 2.815334306 1.069757564							
69° 11′ 50″ 0.93480846 0.35515228 2.632134164 0.3/9919844 2.815693566 1.069737859							
	69° 11′ 50″	0.93480846	0.35515228	2.632134164	0.3/9919844	2.815693566	1.069/3/859

519 69° 11′ 50″

x sin(x) cos(x) tan(x) cot(x) sec(x) sec(x) 69° 12′ 10″ 0.9348/2568 0.3551069 2.632518580 0.379808889 2.816012925 1.069678175 69° 12′ 20″ 0.9348/208 0.35501632 2.633287706 0.379753115 2.816771936 1.069678763 69° 12′ 30″ 0.93487731 0.35497099 2.6332672416 0.379679743 2.817131590 1.0696987071 69° 12′ 40″ 0.93489452 0.35480567 2.634482131 0.37958706 2.817851192 1.069619696 69° 13′ 00″ 0.93494613 0.35489567 2.635212240 0.379476076 2.818211141 1.069600014 69° 13′ 10″ 0.93494613 0.35478969 2.635212240 0.379476076 2.818257189 1.06950035 69° 13′ 00″ 0.93499333 0.354454744 2.63524741 0.37940614 2.818931335 1.06950035 69° 14′ 00″ 0.93501492 0.35465370 2.635862141 0.37908767 2.819651922 1.069501650 69° 14′ 00″ 0.9350490 0.35451771							
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69° 12′ 30″ 0.93486010 0.35501632 2.633287706 0.379679341 2.816771936 1.069657873 69° 12′ 40″ 0.93489452 0.35492567 2.63367214 0.379692474 2.817491342 1.069639382 69° 12′ 50″ 0.93491173 0.35488034 2.634427136 0.379587066 2.817851192 1.069619696 69° 13′ 20″ 0.93496133 0.35488034 2.634827136 0.379531540 2.8182511141 1.069600014 69° 13′ 20″ 0.93496333 0.35478969 2.635527240 0.379476076 2.818571189 1.069580335 69° 13′ 20″ 0.93496333 0.35465370 2.636368141 0.379420614 2.818931335 1.069580336 69° 14′ 0″ 0.93506490 0.35465370 2.636753638 0.379254241 2.820012366 1.06954136 69° 14′ 0″ 0.9350649 0.35447238 2.637910721 0.37908678 2.822072908 1.0694422671 69° 14′ 0″ 0.93503567 0.35442738 2.63896893 0.37891336 2.821616061 1.069442267 69° 15′ 0.0″ 0.93513521		0.93482568	0.35510696	2.632518580	0.379864365	2.816052925	1.069718157
69° 12′ 30″ 0,93487731 0,35497099 2,633672416 0,379697943 2,817131590 1,069659071 66° 12′ 40″ 0,934984951 0,33491173 0,35488034 2,634442131 0,379587006 2,817851192 1,069619696 69° 13′ 00″ 0,93492893 0,35483502 2,634827136 0,379587006 2,8182511141 1,069600014 69° 13′ 10″ 0,93496333 0,3547436 2,635257441 0,379740676 2,818271141 1,06960014 60° 13′ 20″ 0,93496333 0,3547436 2,635257441 0,379420614 2,818931335 1,069580355 69° 13′ 30″ 0,93498053 0,3546937 2,63592424 0,37946076 2,818271189 1,069580355 69° 13′ 30″ 0,93498053 0,3546937 2,63582742 0,37945076 2,818271189 1,069540986 69° 13′ 50″ 0,93501492 0,35460837 2,636753638 0,379254241 2,820012366 1,069540986 69° 14′ 00″ 0,93503211 0,35456304 2,637139234 0,379198788 2,820372908 1,069481987 69° 14′ 20″ 0,93504930 0,35417238 2,637542928 0,379143336 2,820733548 1,069462327 69° 14′ 20″ 0,93508649 0,35447238 2,637910721 0,379087886 2,821073548 1,069442671 69° 14′ 30″ 0,9351085 0,3543817 2,638296613 0,379037839 2,821185012 1,069423017 69° 15′ 00″ 0,93513803 0,3543817 2,63806869 0,378921550 2,822177097 1,069383720 69° 15′ 00″ 0,9351803 0,3543637 2,639088693 0,378921550 2,822177097 1,069383720 69° 15′ 20″ 0,93516956 0,3542036 2,640227554 0,37859369 2,8222899466 1,069324799 69° 15′ 30″ 0,9351853 0,35415502 2,640614039 0,37889797 2,8223893466 1,069324799 69° 15′ 30″ 0,93523750 0,35415502 2,640614039 0,378898392 2,8223893466 1,069324799 69° 16′ 00″ 0,93523539 0,3541909 2,64174088 0,378853503 2,822177097 1,06932579 69° 16′ 00″ 0,93538747 0,35388297 2,642935028 0,37882053 2,8223893760 1,069324799 69° 16′ 00″ 0,93538747 0,3538867 0,35384294 0,3416096 0,378878076 2,8225989466 1,069326569 69° 16′ 00″ 0,9353874 0,3538867 0,3538282 2,64297594 0,37882053 2,822185006 1,06932479 0,936064 0,36404 0,3		0.93484289	0.35506164	2.632903094	0.379808889	2.816412381	1.069698459
69° 12′ 40″ 0,93489452 0,35492567 2,634057224 0,37942474 2,817491342 1,069639382 69° 12′ 50″ 0,9349173 0,35488502 2,634827136 0,379587066 2,818211141 1,069600014 69° 13′ 10″ 0,93492893 0,35483502 2,634827136 0,379476076 2,818211141 1,069600014 69° 13′ 10″ 0,9349633 0,35467903 2,635212240 0,379476076 2,818271141 1,06950035 69° 13′ 20″ 0,93498053 0,35467903 2,635982742 0,379420614 2,818931335 1,069540986 69° 13′ 30″ 0,934998053 0,35468903 2,635982742 0,379420614 2,818931335 1,069540986 69° 13′ 40″ 0,93499773 0,35466807 2,636588141 0,379430697 2,818951924 1,069540986 69° 13′ 50″ 0,93503211 0,354668037 2,636753638 0,379254241 2,820012366 1,069540986 69° 14′ 10″ 0,9350493 0,35467360 4 2,637139234 0,379198788 2,820372908 1,069481987 69° 14′ 10″ 0,9350649 0,3544704 2,63829613 0,379143336 2,820733548 1,069442327 69° 14′ 40″ 0,9350669 0,35442704 2,63829613 0,379087886 2,821094287 1,069423017 69° 14′ 40″ 0,93510085 0,35442704 2,63862604 0,378976993 2,821455125 1,069423017 69° 15′ 00″ 0,93518180 0,35436367 2,639458481 0,378967699 2,8222899466 1,06943367 69° 15′ 00″ 0,93518521 0,35429104 2,639454881 0,378816669 2,822899466 1,06934436 69° 15′ 20″ 0,93518673 0,3541500 2,2640614039 0,378866109 2,8222538232 1,069364077 69° 15′ 00″ 0,93518673 0,35416968 2,64100623 0,37864936 2,822389746 1,069344436 69° 15′ 00″ 0,93522106 0,35406434 2,64103623 0,37864936 2,82238362 2,824365392 1,069245036 69° 16′ 00″ 0,935222106 0,3540643 2,64103623 0,378841666 2,822394861 1,069305165 69° 15′ 00″ 0,93532820 0,35410900 2,641774088 0,37883503 2,824707123 1,06926507 69° 16′ 00″ 0,93532897 0,35346643 2,64103623 0,378644364 2,82389362 2,8243651726 1,069364769 69° 16′ 00″ 0,93532897 0,35346643 2,64136069 0,37887607 2,82256695 2,1069226662 69° 16′ 00″ 0,93532402 0,35337928 2,644374949 0,37842065 2,82259496 1,06908405 69° 17′ 00″ 0,93532402 0,35337664 2,64436496861 0,37843007 2,8225695 1,06908040 69° 17′ 00″ 0,93532402 0,35337664 2,64436496861 0,378781509 2,82256959 1,06908040 69° 17′ 00″ 0,93532400 0,35334680 2,6445259588 0,37784300 2,82279099 1,069080		0.93486010	0.35501632	2.633287706	0.379753415	2.816771936	1.069678763
69° 12′ 50″ 0,93491173 0,35488034 2,634442131 0,379587006 2,817851192 1,069619696 69° 13′ 10″ 0,9349283 0,35483502 2,634827136 0,37951340 2,818211141 1,069600014 69° 13′ 10″ 0,93496144 0,35478969 2,635212240 0,379476076 2,818571183 1,069560559 69° 13′ 20″ 0,93496333 0,35474136 2,635597441 0,379420614 2,818931335 1,069560559 69° 13′ 40″ 0,93499773 0,35465370 2,636368141 0,379309697 2,819551924 0,09550156 69° 14′ 0,093501492 0,35466370 2,636368141 0,379309697 2,819551924 0,09550155 69° 14′ 0,093501492 0,35465304 2,637139234 0,379198788 2,820012366 1,06950155 69° 14′ 0,093504930 0,35451771 2,637524928 0,379143336 2,820733548 1,069462327 69° 14′ 20″ 0,9350649 0,35447238 2,637910721 0,379087886 2,82104287 1,069442517 69° 14′ 40″ 0,93508367 0,35442704 2,638262640 0,3789768986 2,82104287 1,069423017 69° 14′ 50″ 0,93510085 0,35438171 2,638682604 0,37897699 2,821181661 1,069403367 69° 15′ 00″ 0,93515239 0,35424570 2,639841168 0,378851509 2,822177097 1,069383720 69° 15′ 00″ 0,93515239 0,35424570 2,639841168 0,378851509 2,822177097 1,069383720 69° 15′ 00″ 0,93515239 0,35424570 2,639841168 0,378851609 2,822289946 1,069344436 69° 15′ 00″ 0,93515239 0,35424570 2,639841168 0,378855330 2,822289946 1,06934474 69° 15′ 00″ 0,93515239 0,3541968 2,641000623 0,378854393 2,823456393 1,069265907 69° 15′ 00″ 0,93522106 0,3540678 2,641000623 0,3788583503 2,822389461 1,069305165 69° 15′ 00″ 0,93522539 0,35397366 2,641060623 0,3788583503 2,82239946 1,06934799 69° 15′ 00″ 0,93522539 0,35397366 2,641060623 0,3788583503 2,82239946 1,06934749 69° 16′ 00″ 0,9352539 0,3538736 2,6442547949 0,37842651 2,825348881 1,069207044 69° 16′ 00″ 0,93532539 0,3538736 2,644387306 0,378853503 2,8227470123 1,06928658 69° 17′ 00″ 0,935352639 0,3538769 2,644387306 0,378853503 2,8227707123 1,06928658 69° 17′ 00″ 0,93535263 0,3538769 2,644387306 0,378853503 2,8227707123 1,06928658 69° 17′ 00″ 0,93535263 0,35336552 2,644648337 0,37895312 2,822506895 1,06908718 69° 17′ 00″ 0,935354617 0,35336555 2,6464632370 0,37789323 2,82857758 1,06901044 69° 18′ 00″ 0,93554617 0	69° 12′ 30″	0.93487731	0.35497099	2.633672416	0.379697943	2.817131590	1.069659071
69° 13′ 00″ 0,93492893 0,35483502 2,634827136 0,379436140 2,818211141 1,069600014 69° 13′ 10″ 0,9349614 0,35478969 2,635212240 0,379476076 2,818571189 1,069580335 69° 13′ 30″ 0,93498053 0,35469903 2,635597441 0,379420614 2,818931335 0,1695805869° 13′ 40″ 0,93499753 0,35465370 2,63658141 0,379420614 2,818931335 1,069540986 69° 13′ 40″ 0,93499751 0,35465370 2,636586141 0,379430967 2,819651924 1,069521316 69° 14′ 00″ 0,93501492 0,35460837 2,636753638 0,379254241 2,820012366 69° 14′ 10″ 0,9350649 0,35451771 2,637524928 0,37918788 2,820372908 1,069481987 69° 14′ 00″ 0,9350649 0,3547238 2,637910721 0,379087886 2,821094287 1,069426317 69° 14′ 40″ 0,93506649 0,35442704 2,638826613 0,379047849 2,821455125 1,069426317 69° 14′ 40″ 0,9351085 0,3543367 2,63910721 0,378978786 2,821094287 1,069426017 69° 15′ 00″ 0,93511830 3,3543363 2,639486893 0,378967993 2,821816061 1,069403367 69° 15′ 00″ 0,9351521 0,35429104 2,639454881 0,378866109 2,822538232 1,06936407 69° 15′ 00″ 0,9351695 0,35429104 2,639454881 0,378866109 2,822538232 1,069364077 69° 15′ 00″ 0,9351695 0,35429104 2,640614039 0,378697979 2,823622931 1,06930516 69° 15′ 00″ 0,93518673 0,35415502 2,640614039 0,378699797 2,823622931 1,06930516 69° 15′ 00″ 0,93523823 0,35401906 2,64027554 0,378588932 2,82145933 1,06930516 69° 15′ 00″ 0,93523823 0,35401900 2,641774088 0,378853850 2,824707123 1,069246283 69° 16′ 00″ 0,93523823 0,35401900 2,641774088 0,378853850 2,824707123 1,069246283 69° 16′ 00″ 0,93523823 0,35301696 2,641276096 0,378847806 2,82568958 1,069246590 69° 16′ 00″ 0,93533817 0,35364089 2,644276949 0,378422651 2,82540881 1,06920690 69° 16′ 00″ 0,93533821 0,3539366 2,644276949 0,378422651 2,82540881 1,0699184216 69° 16′ 00″ 0,935354117 0,35365624 2,64407848 0,37853388 2,825792909 1,069187429 69° 16′ 00″ 0,935354117 0,3536409 2,646432210 0,377842051 2,82569588 1,069128605 69° 17′ 00″ 0,935354117 0,3536654 2,64407864 0,37852071 2,82869715 1,069030629 69° 17′ 00″ 0,9353640 0,335361689 2,644787649 0,377842051 2,82869715 1,069030629 69° 17′ 00″ 0,93554403 0,33536659 2,644	69° 12′ 40″	0.93489452	0.35492567	2.634057224	0.379642474	2.817491342	1.069639382
69° 13′ 10″ 0,93494614 0,35478969 2,635512240 0,379476076 2,818571189 1.069580335 69° 13′ 20″ 0,93498033 0,35467903 2,635582742 0,379365154 2,818931335 1.069560659 69° 13′ 40″ 0,93498053 0,35466903 2,635582742 0,379365154 2,81925156 1.06954086 69° 14′ 00″ 0,93501492 0,35460307 2,636753638 0,379254241 2,820121366 1.069510156 69° 14′ 00″ 0,93504930 0,35417271 2,637524928 0,379143336 2,8207733548 1.069461937 69° 14′ 20″ 0,93506649 0,35447238 2,637910721 0,379087886 2,821815612 1.06942037 69° 14′ 40″ 0,9351085 0,35432704 2,63829613 0,37891550 2,821816061 1.069403367 69° 15′ 00″ 0,93513521 0,35429104 2,639841168 0,37891550 2,822177797 1.069383720 69° 15′ 20″ 0,9351695 0,3542004 2,639841168 0,378816699 2,822289466 1.069344436 69° 15′ 20″ 0,9352383	69° 12′ 50″	0.93491173	0.35488034	2.634442131	0.379587006	2.817851192	1.069619696
69° 13′ 20″ 0.93496333 0.35474436 2.635597441 0.379420614 2.818931335 1.06956055 69° 13′ 40″ 0.93498053 0.35469903 2.635982742 0.379365154 2.819291580 1.069540986 69° 13′ 40″ 0.93501492 0.35460837 2.636753638 0.379254241 2.820012366 1.069501650 69° 14′ 00″ 0.93503211 0.35456304 2.637139234 0.379198788 2.820372908 1.06941897 69° 14′ 20″ 0.93506649 0.35447238 2.637719221 0.379087886 2.821074287 1.06942327 69° 14′ 30″ 0.93508367 0.35441723 2.637910721 0.379087886 2.821074287 1.06941807 69° 14′ 30″ 0.93508367 0.35433637 2.638296613 0.379032439 2.821816061 1.06943017 69° 15′ 00″ 0.93513521 0.35442704 2.638296613 0.378971550 2.822177097 1.069384707 69° 15′ 10″ 0.93513521 0.35420036 2.640227554 0.378866109 2.822538232 1.069344136 69° 15′ 20″ 0.9352363	69° 13′ 00″	0.93492893	0.35483502	2.634827136	0.379531540	2.818211141	1.069600014
69° 13′ 30″ 0,93498053 0,35469903 2,635982742 0,379365154 2,819291580 1,069540986 69° 13′ 40″ 0,93499773 0,35465370 2,636368141 0,379309697 2,819651924 1,069521316 69° 14′ 10″ 0,93503211 0,35456304 2,636753638 0,379254241 2,820012366 1,0695101650 69° 14′ 10″ 0,93504930 0,35451771 2,637524928 0,37918788 2,820372908 1,069481987 69° 14′ 10″ 0,93504930 0,35451771 2,637524928 0,379143336 2,820733548 1,06944237 69° 14′ 20″ 0,93506367 0,35442704 2,638296613 0,379032439 2,821455125 1,0694423017 69° 14′ 40″ 0,93510085 0,35438171 2,638682604 0,378976993 2,821816061 1,069403367 69° 14′ 50″ 0,93515239 0,35424570 2,639454881 0,37886109 2,822538232 1,06934077 69° 15′ 10″ 0,93515239 0,35424570 2,639454881 0,37886109 2,822538232 1,06934077 69° 15′ 20″ 0,93516956 0,3542036 2,640227554 0,378575232 2,823260799 1,06934436 69° 15′ 50″ 0,9351239 0,35410960 2,6401400623 0,37864364 2,823983762 1,0693450669° 15′ 50″ 0,93522106 0,35406434 2,641387306 0,378869797 2,823622231 1,06934516569° 15′ 50″ 0,93522106 0,35406434 2,641387306 0,3788699797 2,823622231 1,069326799 69° 16′ 00″ 0,93523539 0,35401900 2,641774088 0,378853350 2,824707123 1,069265907 69° 16′ 00″ 0,93528539 0,35397366 2,64227502 0,378478076 2,82569892 1,069246628 69° 16′ 20″ 0,93528971 0,35388297 2,642935028 0,378367228 2,82579299 1,069226662 69° 16′ 20″ 0,93532402 0,35397386 2,642375028 0,378367228 2,82579299 1,069226662 69° 16′ 00″ 0,93534064 0,35383763 2,643322206 0,37831807 2,826515036 1,069167429 69° 17′ 00″ 0,9353747 0,35365624 2,64496861 0,378200971 2,826879589 1,069126605 69° 17′ 00″ 0,9353747 0,3536689 2,645259588 0,378034732 2,827967165 1,069069810 69° 17′ 20″ 0,93537493 0,35337364 2,644376436 0,377805413 2,826515036 1,069187429 69° 17′ 00″ 0,93537494 0,35351526 0,35337389 2,6445259588 0,378034732 2,82279515 1,06906910 69° 17′ 20″ 0,9355481 0,35336189 2,645259588 0,378034732 2,82279516 1,069069810 69° 17′ 20″ 0,93554840 0,35333879 2,644587576101 0,3777668512 2,822905563 1,06901044 69° 18′ 00″ 0,93554943 0,35333879 2,6475876101 0,37775708 2,82327157 1,0699050218 69°	69° 13′ 10″	0.93494614	0.35478969	2.635212240	0.379476076	2.818571189	1.069580335
69° 13′ 40″ 0.93499773 0.35465370 2.636368141 0.379309697 2.819651924 1.069521316 69° 14′ 00″ 0.93501492 0.35460837 2.636753638 0.379254241 2.820012366 1.069501650 69° 14′ 00″ 0.93504930 0.35451771 2.637524928 0.379184336 2.820733548 1.069402327 69° 14′ 20″ 0.93506649 0.35447238 2.637910721 0.379087866 2.821094287 1.069442671 69° 14′ 30″ 0.9351085 0.3544873 2.638296613 0.379032439 2.821455125 1.06944367 69° 14′ 50″ 0.93511803 0.3548171 2.638682604 0.378876993 2.82116061 1.06943367 69° 15′ 0″ 0.93511803 0.35442036 2.639068693 0.3788166199 2.822177097 1.069383720 69° 15′ 0″ 0.93518521 0.35420036 2.640227554 0.3788755232 2.823260799 1.069324799 69° 15′ 30″ 0.93523090 0.35410968 2.641000623 0.37864364 2.8236987223 1.069285534 69° 16′ 40″ 0.93523823	69° 13′ 20″	0.93496333	0.35474436	2.635597441	0.379420614	2.818931335	1.069560659
69° 13′ 50″ 0.93501492 0.35460837 2.636753638 0.379254241 2.820012366 1.069501650 69° 14′ 00″ 0.93503211 0.35456304 2.637139234 0.37918788 2.820733548 1.069462227 69° 14′ 00″ 0.93506649 0.35447238 2.6377910721 0.379087886 2.821094287 1.069442671 69° 14′ 30″ 0.93508367 0.35442704 2.638296613 0.379032439 2.821455125 1.069423017 69° 14′ 40″ 0.93511803 0.35433637 2.638682604 0.378876993 2.821816061 1.069403367 69° 15′ 00″ 0.93511803 0.3543270 2.639968693 0.378871505 2.8222538232 1.069364077 69° 15′ 00″ 0.93515239 0.35424570 2.639841168 0.378816669 2.822899466 1.069305165 69° 15′ 30″ 0.93516873 0.35410968 2.640227554 0.378875232 2.82362231 1.069305165 69° 15′ 40″ 0.93523893 0.35410968 2.64100623 0.37864364 2.823983762 1.06928534 1.069246283 69° 16′ 00″ 0.93523823 0.35410968	69° 13′ 30″	0.93498053	0.35469903	2.635982742	0.379365154	2.819291580	1.069540986
69° 14' 00" 0.93503211 0.35456304 2.637139234 0.379198788 2.820372908 1.069481987 69° 14' 10" 0.93504930 0.35451771 2.637524928 0.379143336 2.820733548 1.069442671 69° 14' 30" 0.93506649 0.35447238 2.637910721 0.379032439 2.821094287 1.069442671 69° 14' 40" 0.93510085 0.35438171 2.638682604 0.378976993 2.82116061 1.069403367 69° 15' 00" 0.93511803 0.3543867 2.639068693 0.378921550 2.822177097 1.069344436 69° 15' 00" 0.93515251 0.35424570 2.639454881 0.378810669 2.822258232 1.069344436 69° 15' 20" 0.93516956 0.35420036 2.640227554 0.378755232 2.823622231 1.069304799 69° 15' 30" 0.93523823 0.35401968 2.641000623 0.378699797 2.823622231 1.0692265907 69° 16' 00" 0.93523823 0.35401968 2.641000623 0.37864344 2.823983762 1.0692265907 69° 16' 00" 0.93523823	69° 13′ 40″	0.93499773	0.35465370	2.636368141	0.379309697	2.819651924	1.069521316
69° 14' 10" 0.93504930 0.35451771 2.637524928 0.379143336 2.820733548 1.069462327 69° 14' 20" 0.93506649 0.35447238 2.637910721 0.379087886 2.821094287 1.069442671 69° 14' 30" 0.935008367 0.35442704 2.638296613 0.379087886 2.8210455125 1.069423017 69° 14' 50" 0.93511803 0.35438171 2.638682604 0.378976993 2.821816061 1.069403367 69° 15' 00" 0.93511803 0.35433637 2.63968693 0.378866109 2.822538232 1.069383720 69° 15' 10" 0.935155239 0.35424970 2.639841168 0.378810669 2.82258823 1.069344436 69° 15' 30" 0.93516956 0.35420036 2.640227554 0.378755232 2.823622231 1.069305165 69° 15' 40" 0.93522090 0.35410968 2.641000623 0.378689797 2.823622231 1.069305165 69° 16' 00" 0.93522553 0.35406434 2.641387306 0.378588932 2.824345393 1.0692265907 69° 16' 40" 0.935325823<	69° 13′ 50″	0.93501492	0.35460837	2.636753638	0.379254241	2.820012366	1.069501650
69° 14′ 20″ 0.93506649 0.35447238 2.637910721 0.379087886 2.821094287 1.069442671 69° 14′ 30″ 0.93508367 0.35442704 2.63862604 0.379032439 2.821455125 1.069423017 69° 14′ 50″ 0.93511803 0.35438171 2.638682604 0.378976993 2.82187007 1.06943367 69° 15′ 00″ 0.93515231 0.35429104 2.639454881 0.378866109 2.822538232 1.069364077 69° 15′ 20″ 0.93516956 0.35420036 2.640227554 0.378876997 2.823622231 1.069324799 69° 15′ 30″ 0.93518673 0.35415502 2.640614039 0.378699797 2.823622231 1.069351656 69° 15′ 50″ 0.93523090 0.35410968 2.641000623 0.378588932 2.824345393 1.069265907 69° 16′ 00″ 0.93523823 0.35401900 2.64174088 0.378538930 2.824707123 1.069285534 69° 16′ 00″ 0.93523823 0.35392832 2.642160969 0.3788478076 2.825068852 1.069226662 69° 16′ 30″ 0.93534261	69° 14′ 00″	0.93503211	0.35456304	2.637139234	0.379198788	2.820372908	1.069481987
69° 14′ 30″ 0.93508367 0.35442704 2.638296613 0.379032439 2.821455125 1.069423017 69° 14′ 40″ 0.9351085 0.35438171 2.638682604 0.378976993 2.821816061 1.069403367 69° 15′ 00″ 0.93513521 0.35429104 2.639454881 0.378866109 2.822538232 1.069364077 69° 15′ 20″ 0.93516956 0.35420036 2.640614039 0.3788755232 2.8222899466 1.069344436 69° 15′ 20″ 0.93516956 0.35420036 2.640614039 0.378697977 2.823260799 1.069324799 69° 15′ 30″ 0.93520390 0.35415502 2.640614039 0.378699797 2.8232622231 1.069265907 69° 16′ 00″ 0.93523823 0.35406434 2.641774088 0.378588932 2.824345393 1.069265907 69° 16′ 10″ 0.935225539 0.35349262 2.642160969 0.378478076 2.82568922 1.069265907 69° 16′ 30″ 0.93522725 0.353827252 2.642547949 0.378472651 2.82568952 1.069226662 69° 16′ 30″ 0.93534866 </td <td>69° 14′ 10″</td> <td>0.93504930</td> <td>0.35451771</td> <td>2.637524928</td> <td>0.379143336</td> <td>2.820733548</td> <td>1.069462327</td>	69° 14′ 10″	0.93504930	0.35451771	2.637524928	0.379143336	2.820733548	1.069462327
69° 14′ 40″ 0.93510085 0.35438171 2.638682604 0.378976993 2.821816061 1.069403367 69° 14′ 50″ 0.93511803 0.35433637 2.639068693 0.378821550 2.822177097 1.069383720 69° 15′ 10″ 0.93515239 0.35429104 2.639454881 0.378810669 2.822889466 1.069344736 69° 15′ 20″ 0.93516956 0.3542036 2.640227554 0.378810669 2.822889466 1.069324799 69° 15′ 30″ 0.93518673 0.35419502 2.640614039 0.378575232 2.823622231 1.069305165 69° 15′ 40″ 0.9352390 0.35410968 2.641000623 0.378869797 2.823622231 1.069285534 69° 16′ 00″ 0.93523823 0.35406434 2.641387306 0.378588932 2.824345393 1.069246283 69° 16′ 10″ 0.93525539 0.35397366 2.642160969 0.378478076 2.825068952 1.0692207044 69° 16′ 30″ 0.93532871 0.35383762 2.642547949 0.37842651 2.825430881 1.069207044 69° 16′ 30″ 0.93533402	69° 14′ 20″	0.93506649	0.35447238	2.637910721	0.379087886	2.821094287	1.069442671
69° 14′ 50″ 0.93511803 0.35433637 2.639068693 0.378921550 2.822177097 1.069383720 69° 15′ 00″ 0.93513521 0.35424704 2.639454881 0.378866109 2.822538232 1.069364077 69° 15′ 20″ 0.93516956 0.35424036 2.640227554 0.378755232 2.823269769 1.069344436 69° 15′ 30″ 0.93518673 0.35410502 2.640614039 0.378699797 2.82322231 1.069321565 69° 15′ 50″ 0.935223823 0.35406434 2.641387306 0.378644364 2.823983762 1.069265907 69° 16′ 00″ 0.935223823 0.35406434 2.64174088 0.378535350 2.824345393 1.069265907 69° 16′ 10″ 0.93527255 0.35397366 2.642160969 0.378478076 2.825068952 1.069226662 69° 16′ 30″ 0.935228971 0.35388297 2.642935028 0.378367228 2.825792909 1.069187429 69° 16′ 30″ 0.935353686 0.35383763 2.643935208 0.378311807 2.826155036 1.069167818 69° 16′ 50″ 0.935352402<		0.93508367	0.35442704		0.379032439		1.069423017
69° 15′ 00″ 0.93513521 0.35429104 2.639454881 0.378866109 2.822538232 1.069364077 69° 15′ 10″ 0.93516239 0.35424570 2.639841168 0.378810669 2.822899466 1.069344436 69° 15′ 20″ 0.93516756 0.3542036 2.640227554 0.378755232 2.823220799 1.069305165 69° 15′ 30″ 0.93520390 0.35410968 2.641000623 0.378694797 2.823622231 1.069205534 69° 15′ 50″ 0.93522106 0.35406434 2.641387306 0.378588932 2.824345393 1.0692265907 69° 16′ 10″ 0.93522539 0.35379366 2.641774088 0.378478076 2.825608952 1.069226624 69° 16′ 20″ 0.93527255 0.35392832 2.642160969 0.378478076 2.825792909 1.069187429 69° 16′ 30″ 0.93532402 0.3538783 2.642547949 0.378367228 2.825792909 1.069187429 69° 16′ 30″ 0.93534117 0.35378644 0.37825388 2.826155036 1.069187429 69° 16′ 50″ 0.93534117 0.3537664	69° 14′ 40″	0.93510085	0.35438171	2.638682604	0.378976993	2.821816061	1.069403367
69° 15′ 10″ 0.93515239 0.35424570 2.639841168 0.378810669 2.822899466 1.069344436 69° 15′ 20″ 0.93516956 0.35420036 2.640227554 0.378755232 2.823260799 1.069324799 69° 15′ 30″ 0.93518673 0.35410502 2.640614039 0.378699797 2.823622231 1.069305165 69° 15′ 50″ 0.93520390 0.35410968 2.641000623 0.378644364 2.823983762 1.069285534 69° 16′ 00″ 0.93523823 0.35406434 2.641387306 0.378589323 2.824707123 1.069246283 69° 16′ 10″ 0.93525399 0.35397366 2.642160969 0.378478076 2.825068952 1.069226662 69° 16′ 20″ 0.9352755 0.35382928 2.642547949 0.378478076 2.825430881 1.069207044 69° 16′ 40″ 0.93530686 0.35387363 2.643322206 0.37831807 2.826517263 1.069187429 69° 16′ 50″ 0.935352402 0.3537228 2.6443709484 0.37820971 2.826879589 1.069167818 69° 17′ 00″ 0.935359261	69° 14′ 50″	0.93511803	0.35433637	2.639068693	0.378921550	2.822177097	1.069383720
69° 15′ 20″ 0.93516956 0.35420036 2.640227554 0.378755232 2.823260799 1.069324799 69° 15′ 30″ 0.93518673 0.35415502 2.640614039 0.378699797 2.823622231 1.069305165 69° 15′ 40″ 0.93520390 0.35410968 2.641000623 0.378588932 2.823983762 1.069285534 69° 16′ 00″ 0.93523823 0.35406434 2.641387306 0.378588932 2.824345393 1.069265907 69° 16′ 10″ 0.93522539 0.35397366 2.641760969 0.378478076 2.825068952 1.069246283 69° 16′ 30″ 0.93527255 0.35397836 2.642547949 0.378422651 2.825068952 1.069207044 69° 16′ 50″ 0.93530686 0.35383763 2.642935028 0.378311807 2.826155036 1.069167818 69° 17′ 00″ 0.9353417 0.35374694 2.644096861 0.378256388 2.825677263 1.069128605 69° 17′ 20″ 0.93535832 0.35361089 2.6444871913 0.378090143 2.827645490 1.069089405 69° 17′ 30″ 0.93540975 <td>69° 15′ 00″</td> <td>0.93513521</td> <td>0.35429104</td> <td>2.639454881</td> <td>0.378866109</td> <td>2.822538232</td> <td>1.069364077</td>	69° 15′ 00″	0.93513521	0.35429104	2.639454881	0.378866109	2.822538232	1.069364077
69° 15′ 30″ 0.93518673 0.35415502 2.640614039 0.378699797 2.823622231 1.069305165 69° 15′ 40″ 0.93520390 0.35410968 2.641000623 0.378644364 2.823983762 1.069285534 69° 15′ 50″ 0.93522106 0.35406434 2.641387306 0.378588932 2.824345393 1.069265907 69° 16′ 00″ 0.93523823 0.35401900 2.64174088 0.378533503 2.824707123 1.069246283 69° 16′ 10″ 0.93525539 0.35397366 2.642160969 0.378478076 2.825068952 1.069226662 69° 16′ 20″ 0.93552755 0.35392832 2.6424935028 0.378478076 2.825792909 1.069187429 69° 16′ 40″ 0.93532402 0.35387928 2.643322206 0.378311807 2.826155036 1.06918816 69° 17′ 00″ 0.93534117 0.35374694 2.644078661 0.378256388 2.826155036 1.069148210 69° 17′ 20″ 0.93534747 0.3536624 2.6444871913 0.378090143 2.827604540 1.069089405 69° 17′ 30″ 0.93540975	69° 15′ 10″	0.93515239	0.35424570	2.639841168	0.378810669	2.822899466	1.069344436
69° 15′ 40″ 0.93520390 0.35410968 2.641000623 0.378644364 2.823983762 1.069285534 69° 15′ 50″ 0.93522106 0.35406434 2.641387306 0.378588932 2.824345393 1.069265907 69° 16′ 00″ 0.93523823 0.35401900 2.641774088 0.378533503 2.824707123 1.069246283 69° 16′ 10″ 0.93525539 0.35397836 2.642160969 0.378478076 2.825068952 1.069226662 69° 16′ 30″ 0.935527255 0.35392832 2.642547949 0.378472651 2.825430881 1.069207044 69° 16′ 30″ 0.9353686 0.35388297 2.642935028 0.378311807 2.826155036 1.069187429 69° 16′ 40″ 0.93532402 0.35379228 2.643709484 0.378256388 2.826517263 1.069187818 69° 17′ 00″ 0.93534532 0.35371694 2.644096861 0.37820971 2.826879589 1.069128605 69° 17′ 30″ 0.93539261 0.35361089 2.644371913 0.378090143 2.827604540 1.06908910 69° 17′ 50″ 0.9354689	69° 15′ 20″	0.93516956	0.35420036	2.640227554	0.378755232	2.823260799	1.069324799
69° 15′ 50″ 0.93522106 0.35406434 2.641387306 0.378588932 2.824345393 1.069265907 69° 16′ 00″ 0.93523823 0.35401900 2.641774088 0.378533503 2.824707123 1.069246283 69° 16′ 10″ 0.93525539 0.35397366 2.642160969 0.378478076 2.825068952 1.069226662 69° 16′ 20″ 0.93527255 0.35392832 2.642547949 0.378422651 2.825430881 1.069207044 69° 16′ 40″ 0.93530686 0.35388297 2.642935028 0.378367228 2.8255792909 1.069187429 69° 16′ 50″ 0.93530686 0.353879228 2.642935028 0.37831807 2.826155036 1.069167818 69° 17′ 00″ 0.93534117 0.35379228 2.644096861 0.378200971 2.826879589 1.069128605 69° 17′ 20″ 0.93537547 0.35365624 2.6444871913 0.37800971 2.828679589 1.069089405 69° 17′ 30″ 0.93540975 0.33535555 2.64559588 0.378034732 2.827967165 1.069069810 69° 17′ 50″ 0.93542689 <td>69° 15′ 30″</td> <td>0.93518673</td> <td>0.35415502</td> <td>2.640614039</td> <td>0.378699797</td> <td>2.823622231</td> <td>1.069305165</td>	69° 15′ 30″	0.93518673	0.35415502	2.640614039	0.378699797	2.823622231	1.069305165
69° 16′ 00″ 0.93523823 0.35401900 2.641774088 0.378533503 2.824707123 1.069246283 69° 16′ 10″ 0.93525539 0.35397366 2.642160969 0.378478076 2.825068952 1.069226662 69° 16′ 20″ 0.93527255 0.35392832 2.642547949 0.378422651 2.825430881 1.069207044 69° 16′ 30″ 0.93530686 0.35388297 2.642935028 0.378311807 2.826155036 1.069187429 69° 16′ 40″ 0.93532402 0.35379228 2.643709484 0.378256388 2.826157263 1.069167818 69° 17′ 00″ 0.93534117 0.35374694 2.644096861 0.378200971 2.826879589 1.069128605 69° 17′ 10″ 0.93537547 0.35365624 2.6444871913 0.3782090143 2.827604540 1.069089405 69° 17′ 30″ 0.93537947 0.35356524 2.6445871913 0.378090143 2.8279604540 1.069089405 69° 17′ 50″ 0.93542689 0.35356524 2.645647363 0.377979323 2.828892715 1.069030629 69° 18′ 00″ 0.93547830		0.93520390	0.35410968	2.641000623	0.378644364	2.823983762	1.069285534
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69° 19′ 10″ 0.93556394 0.35315736 2.649141815 0.377480735 2.831598905 1.068874036 69° 19′ 20″ 0.93558106 0.35311200 2.649530587 0.377425347 2.831962629 1.068854477 69° 19′ 30″ 0.93559817 0.35306665 2.649919458 0.377369960 2.832326452 1.068834920 69° 19′ 40″ 0.93561529 0.35302129 2.650308429 0.377314576 2.832690376 1.068815367							
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69° 19′ 30″ 0.93559817 0.35306665 2.649919458 0.377369960 2.832326452 1.068834920 69° 19′ 40″ 0.93561529 0.35302129 2.650308429 0.377314576 2.832690376 1.068815367							
69° 19′ 40″ 0.93561529 0.35302129 2.650308429 0.377314576 2.832690376 1.068815367							
69° 19′ 50″ 0.93563240 0.35297593 2.650697500 0.377259193 2.833054400 1.068795817							
	69° 19′ 50″	0.93563240	0.3529/593	2.65069/500	0.3//259193	2.833054400	1.068/95817

520 69° 19′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
69° 20′ 00″	0.93564952	0.35293056	2.651086671	0.377203813	2.833418525	1.068776270
69° 20′ 10″	0.93566663	0.35288520	2.651475942	0.377148434	2.833782749	1.068756727
69° 20′ 20″	0.93568373	0.35283984	2.651865313	0.377093058	2.834147074	1.068737187
69° 20′ 30″	0.93570084	0.35279448	2.652254784	0.377037684	2.834511500	1.068717650
69° 20′ 40″	0.93571794	0.35274911	2.652644356	0.376982311	2.834876025	1.068698116
69° 20′ 50″	0.93573504	0.35270375	2.653034028	0.376926941	2.835240651	1.068678585
69° 21′ 00″	0.93575214	0.35265838	2.653423800	0.376871573	2.835605378	1.068659058
69° 21′ 10″	0.93576924	0.35261301	2.653813672	0.376816206	2.835970205	1.068639534
69° 21′ 20″	0.93578633	0.35256765	2.654203644	0.376760842	2.836335133	1.068620013
69° 21′ 30″	0.93580342	0.35252228	2.654593717	0.376705480	2.836700161	1.068600495
69° 21′ 40″	0.93582051	0.35247691	2.654983891	0.376650120	2.837065290	1.068580981
69° 21′ 50″	0.93583760	0.35243154	2.655374165	0.376594761	2.837430520	1.068561470
69° 22′ 00″	0.93585468	0.35238617	2.655764539	0.376539405	2.837795850	1.068541962
69° 22′ 10″	0.93587177	0.35234079	2.656155014	0.376484051	2.838161281	1.068522457
69° 22′ 20″	0.93588885	0.35229542	2.656545589	0.376428699	2.838526813	1.068502955
69° 22′ 30″	0.93590593	0.35225005	2.656936265	0.376373349	2.838892446	1.068483457
69° 22′ 40″	0.93592300	0.35220467	2.657327042	0.376318001	2.839258179	1.068463962
69° 22′ 50″	0.93594008	0.35215930	2.657717919	0.376262655	2.839624014	1.068444470
69° 23′ 00″	0.93595715	0.35211392	2.658108898	0.376207311	2.839989949	1.068424981
69° 23′ 10″	0.93597422	0.35206855	2.658499977	0.376151969	2.840355986	1.068405496
69° 23′ 20″	0.93599129	0.35202317	2.658891156	0.376096629	2.840722123	1.068386014
69° 23′ 30″	0.93600835	0.35197779	2.659282437	0.376041291	2.841088362	1.068366535
69° 23′ 40″	0.93602542	0.35193241	2.659673818	0.375985955	2.841454702	1.068347059
69° 23′ 50″	0.93604248	0.35188703	2.660065301	0.375930621	2.841821142	1.068327586
69° 24′ 00″	0.93605954	0.35184165	2.660456884	0.375875289	2.842187685	1.068308117
69° 24′ 10″	0.93607659	0.35179627	2.660848569	0.375819959	2.842554328	1.068288651
69° 24′ 20″	0.93609365	0.35175088	2.661240355	0.375764631	2.842921073	1.068269188
69° 24′ 30″	0.93611070	0.35170550	2.661632241	0.375709305	2.843287919	1.068249728
69° 24′ 40″	0.93612775	0.35166012	2.662024229	0.375653981	2.843654866	1.068230272
69° 24′ 50″	0.93614480	0.35161473	2.662416318	0.375598659	2.844021915	1.068210819
69° 25′ 00″	0.93616184	0.35156934	2.662808508	0.375543340	2.844389065	1.068191369
69° 25′ 10″	0.93617889	0.35152396	2.663200800	0.375488022	2.844756317	1.068171922
69° 25′ 20″	0.93619593	0.35147857	2.663593193	0.375432706	2.845123670	1.068152478
69° 25′ 30″	0.93621297	0.35143318	2.663985687	0.375377392	2.845491125	1.068133038
69° 25′ 40″	0.93623000	0.35138779	2.664378283	0.375322080	2.845858681	1.068113601
69° 25′ 50″	0.93624704	0.35134240	2.664770980	0.375266771	2.846226339	1.068094167
69° 26′ 00″	0.93626407	0.35129701	2.665163778	0.375211463	2.846594099	1.068074736
69° 26′ 10″	0.93628110	0.35125162	2.665556678	0.375156157	2.846961960	1.068055309
69° 26′ 20″	0.93629813	0.35120623	2.665949680	0.375100853	2.847329924	1.068035884
69° 26′ 30″	0.93631515	0.35116083	2.666342783	0.375045552	2.847697989	1.068016463
69° 26′ 40″	0.93633218	0.35111544	2.666735988	0.374990252	2.848066156	1.067997045
69° 26′ 50″	0.93634920	0.35107004	2.667129294	0.374934954	2.848434425	1.067977631
69° 27′ 00″	0.93636622	0.35102465	2.667522703	0.374879659	2.848802796	1.067958219
69° 27′ 10″	0.93638324	0.35097925	2.667916213	0.374824365	2.849171269	1.067938811
69° 27′ 20″	0.93640025	0.35093385	2.668309825	0.374769073	2.849539843	1.067919406
69° 27′ 30″	0.93641726	0.35088846	2.668703538	0.374713784	2.849908520	1.067900004
69° 27′ 40″	0.93643427	0.35084306	2.669097354	0.374658496	2.850277299	1.067880606
69° 27′ 50″	0.93645128	0.35079766	2.669491271	0.374603210	2.850646181	1.067861211

521 69° 27′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
69° 28′ 00″	0.93646829	0.35075226	2.669885291	0.374547927	2.851015164	1.067841819
69° 28′ 10″	0.93648529	0.35070685	2.670279412	0.374492645	2.851384250	1.067822430
69° 28′ 20″	0.93650229	0.35066145	2.670673636	0.374437365	2.851753438	1.067803044
69° 28′ 30″	0.93651929	0.35061605	2.671067962	0.374382088	2.852122728	1.067783661
69° 28′ 40″	0.93653629	0.35057064	2.671462389	0.374326812	2.852492121	1.067764282
69° 28′ 50″	0.93655329	0.35052524	2.671856919	0.374271539	2.852861616	1.067744906
69° 29′ 00″	0.93657028	0.35047983	2.672251552	0.374216267	2.853231213	1.067725533
69° 29′ 10″	0.93658727	0.35043443	2.672646286	0.374160997	2.853600913	1.067706164
69° 29′ 20″	0.93660426	0.35038902	2.673041123	0.374105730	2.853970715	1.067686797
69° 29′ 30″	0.93662124	0.35034361	2.673436062	0.374050464	2.854340620	1.067667434
69° 29′ 40″	0.93663823	0.35029820	2.673831104	0.373995201	2.854710628	1.067648074
69° 29′ 50″	0.93665521	0.35025279	2.674226247	0.373939939	2.855080738	1.067628717
69° 30′ 00″	0.93667219	0.35020738	2.674621494	0.373884679	2.855450951	1.067609364
69° 30′ 10″	0.93668917	0.35016197	2.675016843	0.373829422	2.855821267	1.067590013
69° 30′ 20″	0.93670614	0.35011656	2.675412294	0.373774166	2.856191686	1.067570666
69° 30′ 30″	0.93672311	0.35007114	2.675807849	0.373718913	2.856562207	1.067551322
69° 30′ 40″	0.93674009	0.35002573	2.676203505	0.373663661	2.856932831	1.067531982
69° 30′ 50″	0.93675705	0.34998032	2.676599265	0.373608412	2.857303558	1.067512644
69° 31′ 00″	0.93677402	0.34993490	2.676995127	0.373553164	2.857674388	1.067493310
69° 31′ 10″	0.93679099	0.34988948	2.677391092	0.373497919	2.858045321	1.067473979
69° 31′ 20″	0.93680795	0.34984407	2.677787160	0.373442675	2.858416357	1.067454651
69° 31′ 30″	0.93682491	0.34979865	2.678183330	0.373387433	2.858787496	1.067435326
69° 31′ 40″	0.93684186	0.34975323	2.678579604	0.373332194	2.859158739	1.067416005
69° 31′ 50″	0.93685882	0.34970781	2.678975980	0.373276956	2.859530084	1.067396686
69° 32′ 00″	0.93687577	0.34966239	2.679372459	0.373221721	2.859901533	1.067377371
69° 32′ 10″	0.93689272	0.34961697	2.679769042	0.373166487	2.860273084	1.067358060
69° 32′ 20″	0.93690967	0.34957154	2.680165727	0.373111256	2.860644740	1.067338751
69° 32′ 30″	0.93692662	0.34952612	2.680562516	0.373056026	2.861016498	1.067319445
69° 32′ 40″	0.93694356	0.34948070	2.680959408	0.373000799	2.861388360	1.067300143
69° 32′ 50″ 69° 33′ 00″	0.93696051	0.34943527	2.681356402 2.681753501	0.372945573	2.861760325	1.067280844
69° 33′ 10″	0.93697745	0.34938985		0.372890349	2.862132394	1.067261548
69° 33′ 20″	0.93699438	0.34934442 0.34929899	2.682150702 2.682548007	0.372835128 0.372779908	2.862504566 2.862876841	1.067242256 1.067222966
69° 33′ 30″	0.73701132	0.34727877	2.682945415	0.372777708	2.863249221	1.067222766
69° 33′ 40″	0.73702823	0.34723337	2.683342926	0.372669475	2.863621703	1.067203680
69° 33′ 50″	0.93704318	0.34720814	2.683740541	0.372614262	2.863994290	1.067165117
69° 34′ 00″	0.93707904	0.34710271	2.684138260	0.372559050	2.864366980	1.067145841
69° 34′ 10″	0.93709596	0.34907185	2.684536081	0.372503840	2.864739774	1.067126568
69° 34′ 20″	0.93711289	0.34902641	2.684934007	0.372448633	2.865112672	1.067107297
69° 34′ 30″	0.93712981	0.34898098	2.685332036	0.372393427	2.865485673	1.067088030
69° 34′ 40″	0.93714673	0.34893555	2.685730169	0.372338224	2.865858779	1.067068767
69° 34′ 50″	0.93716364	0.34889011	2.686128405	0.372283022	2.866231988	1.067049506
69° 35′ 00″	0.93718055	0.34884468	2.686526745	0.372227822	2.866605301	1.067030249
69° 35′ 10″	0.93719747	0.34879924	2.686925189	0.372172625	2.866978719	1.067010995
69° 35′ 20″	0.93721437	0.34875380	2.687323737	0.372117429	2.867352240	1.066991744
69° 35′ 30″	0.93723128	0.34870837	2.687722389	0.372062235	2.867725865	1.066972496
69° 35′ 40″	0.93724819	0.34866293	2.688121144	0.372007044	2.868099595	1.066953251
69° 35′ 50″	0.93726509	0.34861749	2.688520004	0.371951854	2.868473429	1.066934010
	1					

522 69° 35′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
69° 36′ 00″	0.93728199	0.34857205	2.688918967	0.371896666	2.868847367	1.066914772
69° 36′ 10″	0.93729889	0.34852661	2.689318035	0.371841481	2.869221409	1.066895537
69° 36′ 20″	0.93731578	0.34848116	2.689717206	0.371786297	2.869595555	1.066876305
69° 36′ 30″	0.93733268	0.34843572	2.690116482	0.371731115	2.869969806	1.066857077
69° 36′ 40″	0.93734957	0.34839028	2.690515862	0.371675936	2.870344161	1.066837851
69° 36′ 50″	0.93736646	0.34834483	2.690915346	0.371620758	2.870718621	1.066818629
69° 37′ 00″	0.93738335	0.34829939	2.691314934	0.371565582	2.871093185	1.066799410
69° 37′ 10″	0.93740023	0.34825394	2.691714627	0.371510408	2.871467853	1.066780195
69° 37′ 20″	0.93741711	0.34820850	2.692114424	0.371455237	2.871842626	1.066760982
69° 37′ 30″	0.93743399	0.34816305	2.692514325	0.371400067	2.872217504	1.066741773
69° 37′ 40″	0.93745087	0.34811760	2.692914331	0.371344899	2.872592486	1.066722567
69° 37′ 50″	0.93746775	0.34807215	2.693314441	0.371289733	2.872967574	1.066703364
69° 38′ 00″	0.93748462	0.34802670	2.693714656	0.371234569	2.873342765	1.066684164
69° 38′ 10″	0.93750149	0.34798125	2.694114975	0.371179407	2.873718062	1.066664967
69° 38′ 20″	0.93751836	0.34793580	2.694515399	0.371124248	2.874093463	1.066645774
69° 38′ 30″	0.93753523	0.34789034	2.694915927	0.371069090	2.874468969	1.066626584
69° 38′ 40″	0.93755210	0.34784489	2.695316560	0.371013934	2.874844580	1.066607397
69° 38′ 50″	0.93756896	0.34779944	2.695717298	0.370958780	2.875220296	1.066588213
69° 39′ 00″	0.93758582	0.34775398	2.696118141	0.370903628	2.875596117	1.066569033
69° 39′ 10″	0.93760268	0.34770853	2.696519088	0.370848478	2.875972043	1.066549855
69° 39′ 20″	0.93761953	0.34766307	2.696920141	0.370793330	2.876348074	1.066530681
69° 39′ 30″	0.93763639	0.34761761	2.697321298	0.370738184	2.876724210	1.066511510
69° 39′ 40″	0.93765324	0.34757215	2.697722560	0.370683040	2.877100452	1.066492342
69° 39′ 50″	0.93767009	0.34752669	2.698123927	0.370627898	2.877476798	1.066473178
69° 40′ 00″	0.93768694	0.34748123	2.698525399	0.370572758	2.877853250	1.066454016
69° 40′ 10″	0.93770378	0.34743577	2.698926976	0.370517620	2.878229807	1.066434858
69° 40′ 20″	0.93772063	0.34739031	2.699328658	0.370462484	2.878606469	1.066415703
69° 40′ 30″	0.93773747	0.34734485	2.699730446	0.370407350	2.878983237	1.066396551
69° 40′ 40″	0.93775430	0.34729939	2.700132338	0.370352218	2.879360110	1.066377403
69° 40′ 50″	0.93777114	0.34725392	2.700534336	0.370297088	2.879737089	1.066358257
69° 41′ 00″	0.93778798	0.34720846	2.700936439	0.370241960	2.880114173	1.066339115
69° 41′ 10″	0.93780481	0.34716299	2.701338648	0.370186833	2.880491362	1.066319976
69° 41′ 20″	0.93782164	0.34711753	2.701740961	0.370131709	2.880868658	1.066300840
69° 41′ 30″	0.93783846	0.34707206	2.702143381	0.370076587	2.881246058	1.066281708
69° 41′ 40″	0.93785529	0.34702659	2.702545905	0.370021467	2.881623565	1.066262578
69° 41′ 50″	0.93787211	0.34698112	2.702948535	0.369966349	2.882001177	1.066243452
69° 42′ 00″	0.93788893	0.34693565	2.703351271	0.369911232	2.882378895	1.066224329
69° 42′ 10″	0.93790575	0.34689018	2.703754112	0.369856118	2.882756719	1.066205209
69° 42′ 20″	0.93792257	0.34684471	2.704157059	0.369801006	2.883134648	1.066186092
69° 42′ 30″	0.93793938	0.34679924	2.704560112	0.369745895	2.883512684	1.066166979
69° 42′ 40″	0.93795620	0.34675376	2.704963270	0.369690787	2.883890825	1.066147869
69° 42′ 50″	0.93797301	0.34670829	2.705366534	0.369635681	2.884269072	1.066128762
69° 43′ 00″ 69° 43′ 10″	0.93798981	0.34666282	2.705769904	0.369580576	2.884647426	1.066109658
69° 43′ 10″ 69° 43′ 20″	0.93800662	0.34661734	2.706173379	0.369525474	2.885025885	1.066090557
69° 43′ 30″	0.93802342	0.34657186	2.706576961	0.369470373 0.369415275	2.885404451	1.066071459
69° 43′ 40″	0.93804022	0.34652639	2.706980648 2.707384442		2.885783122 2.886161900	1.066052365
69° 43′ 40″ 69° 43′ 50″	0.93805702 0.93807382	0.34648091 0.34643543	2.707384442	0.369360178 0.369305084	2.886540784	1.066033274 1.066014186
=======================================	0.73007362	0.34043343	2./0//00341	0.30/303004	2.000340704	1.000014100

523 69° 43′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
69° 44′ 00″	0.93809061	0.34638995	2.708192347	0.369249991	2.886919775	1.065995101
69° 44′ 10″	0.93810741	0.34634447	2.708596458	0.369194901	2.887298872	1.065976020
69° 44′ 20″	0.93812420	0.34629899	2.709000676	0.369139812	2.887678075	1.065956941
69° 44′ 30″	0.93814099	0.34625351	2.709405000	0.369084725	2.888057384	1.065937866
69° 44′ 40″	0.93815777	0.34620803	2.709809430	0.369029641	2.888436800	1.065918794
69° 44′ 50″	0.93817455	0.34616254	2.710213967	0.368974558	2.888816322	1.065899725
69° 45′ 00″	0.93819134	0.34611706	2.710618609	0.368919477	2.889195951	1.065880660
69° 45′ 10″	0.93820812	0.34607157	2.711023358	0.368864398	2.889575687	1.065861597
69° 45′ 20″	0.93822489	0.34602609	2.711428214	0.368809322	2.889955529	1.065842538
69° 45′ 30″	0.93824167	0.34598060	2.711833176	0.368754247	2.890335478	1.065823482
69° 45′ 40″	0.93825844	0.34593511	2.712238245	0.368699174	2.890715533	1.065804429
69° 45′ 50″	0.93827521	0.34588962	2.712643420	0.368644103	2.891095696	1.065785379
69° 46′ 00″	0.93829198	0.34584413	2.713048701	0.368589034	2.891475965	1.065766333
69° 46′ 10″	0.93830874	0.34579864	2.713454089	0.368533967	2.891856341	1.065747289
69° 46′ 20″	0.93832551	0.34575315	2.713859584	0.368478902	2.892236824	1.065728249
69° 46′ 30″	0.93834227	0.34570766	2.714265186	0.368423839	2.892617413	1.065709212
69° 46′ 40″	0.93835903	0.34566217	2.714670894	0.368368778	2.892998110	1.065690179
69° 46′ 50″	0.93837579	0.34561668	2.715076710	0.368313719	2.893378914	1.065671148
69° 47′ 00″	0.93839254	0.34557118	2.715482632	0.368258662	2.893759825	1.065652121
69° 47′ 10″	0.93840929	0.34552569	2.715888661	0.368203607	2.894140843	1.065633096
69° 47′ 20″	0.93842604	0.34548019	2.716294797	0.368148553	2.894521968	1.065614075
69° 47′ 30″	0.93844279	0.34543469	2.716701040	0.368093502	2.894903200	1.065595057
69° 47′ 40″	0.93845954	0.34538920	2.717107389	0.368038453	2.895284540	1.065576043
69° 47′ 50″	0.93847628	0.34534370	2.717513846	0.367983406	2.895665986	1.065557031
69° 48′ 00″	0.93849302	0.34529820	2.717920410	0.367928360	2.896047541	1.065538023
69° 48′ 10″	0.93850976	0.34525270	2.718327082	0.367873317	2.896429202	1.065519018
69° 48′ 20″	0.93852650	0.34520720	2.718733860	0.367818276	2.896810971	1.065500016
69° 48′ 30″	0.93854323	0.34516170	2.719140746	0.367763236	2.897192848	1.065481017
69° 48′ 40″	0.93855997	0.34511619	2.719547739	0.367708199	2.897574831	1.065462022
69° 48′ 50″	0.93857670	0.34507069	2.719954839	0.367653163	2.897956923	1.065443029
69° 49′ 00″	0.93859343	0.34502519	2.720362047	0.367598129	2.898339122	1.065424040
69° 49′ 10″	0.93861015	0.34497968	2.720769362	0.367543098	2.898721429	1.065405054
69° 49′ 20″	0.93862688	0.34493418	2.721176785	0.367488068	2.899103843	1.065386071
69° 49′ 30″	0.93864360	0.34488867	2.721584315	0.367433041	2.899486365	1.065367091
69° 49′ 40″	0.93866032	0.34484316	2.721991952	0.367378015	2.899868995	1.065348115
69° 49′ 50″	0.93867704	0.34479766	2.722399698	0.367322991	2.900251733	1.065329142
69° 50′ 00″	0.93869375	0.34475215	2.722807551	0.367267969	2.900634578	1.065310171
69° 50′ 10″	0.93871046	0.34470664	2.723215511	0.367212949	2.901017532	1.065291204
69° 50′ 20″	0.93872717	0.34466113	2.723623580	0.367157932	2.901400593	1.065272241
69° 50′ 30″	0.93874388	0.34461562	2.724031756	0.367102916	2.901783763	1.065253280
69° 50′ 40″	0.93876059	0.34457010	2.724440040	0.367047902	2.902167040	1.065234323
69° 50′ 50″	0.93877729	0.34452459	2.724848432	0.366992890	2.902550426	1.065215368
69° 51′ 00″	0.93879399	0.34447908	2.725256931	0.366937880	2.902933920	1.065196417
69° 51′ 10″	0.93881069	0.34443356	2.725665539	0.366882872	2.903317521	1.065177469
69° 51′ 20″	0.93882739	0.34438805	2.726074255	0.366827865	2.903701232	1.065158525
69° 51′ 30″	0.93884409	0.34434253	2.726483078	0.366772861	2.904085050	1.065139583
69° 51′ 40″	0.93886078	0.34429702	2.726892010	0.366717859	2.904468977	1.065120645
69° 51′ 50″	0.93887747	0.34425150	2.727301050	0.366662859	2.904853012	1.065101710

524 69° 51′ 50″

	-! (-)	_ (.)	4. (-)	_ 4(-)	_ (-)	- (-)
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
69° 52′ 00″	0.93889416	0.34420598	2.727710198	0.366607861	2.905237155	1.065082778
69° 52′ 10″	0.93891085	0.34416046	2.728119455	0.366552864	2.905621407	1.065063849
69° 52′ 20″	0.93892753	0.34411494	2.728528820	0.366497870	2.906005767	1.065044923
69° 52′ 30″	0.93894421	0.34406942	2.728938293	0.366442877	2.906390236	1.065026001
69° 52′ 40″	0.93896089	0.34402390	2.729347874	0.366387887	2.906774814	1.065007081
69° 52′ 50″	0.93897757	0.34397837	2.729757564	0.366332898	2.907159500	1.064988165
69° 53′ 00″	0.93899425	0.34393285	2.730167362	0.366277912	2.907544294	1.064969252
69° 53′ 10″	0.93901092	0.34388733	2.730577269	0.366222927	2.907929198	1.064950343
69° 53′ 20″	0.93902759	0.34384180	2.730987284	0.366167944	2.908314210	1.064931436
69° 53′ 30″	0.93904426	0.34379628	2.731397408	0.366112964	2.908699331	1.064912533
69° 53′ 40″	0.93906093	0.34375075	2.731807640	0.366057985	2.909084561	1.064893632
69° 53′ 50″	0.93907759	0.34370522	2.732217981	0.366003008	2.909469900	1.064874735
69° 54′ 00″	0.93909425	0.34365969	2.732628431	0.365948033	2.909855347	1.064855841
69° 54′ 10″	0.93911091	0.34361417	2.733038990	0.365893060	2.910240904	1.064836951
69° 54′ 20″	0.93912757	0.34356864	2.733449657	0.365838089	2.910626570	1.064818063
69° 54′ 30″	0.93914423	0.34352311	2.733860434	0.365783120	2.911012345	1.064799179
69° 54′ 40″	0.93916088	0.34347757	2.734271319	0.365728153	2.911398229	1.064780298
69° 54′ 50″	0.93917753	0.34343204	2.734682313	0.365673188	2.911784222	1.064761420
69° 55′ 00″	0.93919418	0.34338651	2.735093416	0.365618225	2.912170324	1.064742545
69° 55′ 10″	0.93921083	0.34334097	2.735504628	0.365563264	2.912556535	1.064723673
69° 55′ 20″	0.93922747	0.34329544	2.735915950	0.365508304	2.912942856	1.064704804
69° 55′ 30″	0.93924411	0.34324990	2.736327380	0.365453347	2.913329286	1.064685939
69° 55′ 40″	0.93926075	0.34320437	2.736738920	0.365398392	2.913715826	1.064667077
69° 55′ 50″	0.93927739	0.34315883	2.737150569	0.365343438	2.914102475	1.064648218
69° 56′ 00″	0.93929403	0.34311329	2.737562327	0.365288487	2.914489234	1.064629362
69° 56′ 10″	0.93931066	0.34306775	2.737974194	0.365233537	2.914876102	1.064610509
69° 56′ 20″	0.93932729	0.34302222	2.738386171	0.365178590	2.915263079	1.064591660
69° 56′ 30″	0.93934392	0.34297668	2.738798257	0.365123644	2.915650166	1.064572814
69° 56′ 40″	0.93936055	0.34293113	2.739210453	0.365068700	2.916037363	1.064553970
69° 56′ 50″	0.93937717	0.34288559	2.739622758	0.365013759	2.916424670	1.064535130
69° 57′ 00″ 69° 57′ 10″	0.93939379	0.34284005	2.740035172	0.364958819	2.916812086 2.917199612	1.064516294
69° 57′ 20″	0.93941041 0.93942703	0.34279451 0.34274896	2.740447697	0.364903881	2.917199612	1.064497460 1.064478630
69° 57′ 30″	0.73742703	0.34274878	2.740860330 2.741273074	0.364848945 0.364794011	2.917974994	1.064478630
69° 57′ 40″	0.73744363	0.34270342	2.741273074	0.364739079	2.918362850	1.064440978
69° 57′ 50″	0.73746026	0.34263787	2.741003727	0.364684149	2.918750816	1.0644422157
69° 58′ 00″	0.73747687	0.34251232	2.742511963	0.364629221	2.919138892	1.064403339
69° 58′ 10″	0.93951009	0.34252123	2.742911763	0.364574295	2.919527077	1.064384525
69° 58′ 20″	0.93952669	0.34247568	2.743338438	0.364519370	2.919915373	1.064365713
69° 58′ 30″	0.93954330	0.34243013	2.743751841	0.364464448	2.920303780	1.064346905
69° 58′ 40″	0.73754330	0.34238458	2.744165354	0.364409528	2.920692296	1.064328100
69° 58′ 50″	0.73753770	0.34233903	2.744578976	0.364354609	2.921080923	1.064309298
69° 59′ 00″	0.73757630	0.34233703	2.744992709	0.364299693	2.921469660	1.064290499
69° 59′ 10″	0.93960969	0.34224792	2.745406552	0.364244778	2.921858507	1.064271703
69° 59′ 20″	0.93962628	0.34220237	2.745820505	0.364189865	2.922247465	1.064252911
69° 59′ 30″	0.93964287	0.34215681	2.746234568	0.364134955	2.922636533	1.064234121
69° 59′ 40″	0.93965945	0.34211126	2.746648741	0.364080046	2.923025711	1.064215335
69° 59′ 50″	0.93967604	0.34206570	2.747063025	0.364025139	2.923415000	1.064196552
	1 3.7.07.001	3.5 .2005/0		2.00.020107	2.725 715000	

525 69° 59′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
70° 00′ 00″	0.93969262	0.34202014	2.747477419	0.363970234	2.923804400	1.064177772
70° 00′ 10″	0.93970920	0.34197459	2.747891924	0.363915331	2.924193911	1.064158996
70° 00′ 20″	0.93972578	0.34192903	2.748306539	0.363860430	2.924583532	1.064140222
70° 00′ 30″	0.93974236	0.34188347	2.748721265	0.363805531	2.924973263	1.064121452
70° 00′ 40″	0.93975893	0.34183791	2.749136101	0.363750634	2.925363106	1.064102685
70° 00′ 50″	0.93977550	0.34179235	2.749551047	0.363695739	2.925753059	1.064083921
70° 01′ 00″	0.93979207	0.34174678	2.749966105	0.363640846	2.926143123	1.064065160
70° 01′ 10″	0.93980864	0.34170122	2.750381273	0.363585954	2.926533298	1.064046402
70° 01′ 20″	0.93982520	0.34165566	2.750796552	0.363531065	2.926923584	1.064027648
70° 01′ 30″	0.93984177	0.34161009	2.751211941	0.363476178	2.927313981	1.064008896
70° 01′ 40″	0.93985833	0.34156453	2.751627442	0.363421292	2.927704489	1.063990148
70° 01′ 50″	0.93987488	0.34151896	2.752043053	0.363366408	2.928095108	1.063971403
70° 02′ 00″	0.93989144	0.34147339	2.752458775	0.363311527	2.928485839	1.063952661
70° 02′ 10″	0.93990799	0.34142783	2.752874608	0.363256647	2.928876680	1.063933923
70° 02′ 20″	0.93992455	0.34138226	2.753290552	0.363201769	2.929267633	1.063915187
70° 02′ 30″	0.93994110	0.34133669	2.753706607	0.363146893	2.929658697	1.063896455
70° 02′ 40″	0.93995764	0.34129112	2.754122774	0.363092020	2.930049872	1.063877725
70° 02′ 50″	0.93997419	0.34124555	2.754539051	0.363037148	2.930441159	1.063858999
70° 03′ 00″	0.93999073	0.34119998	2.754955440	0.362982278	2.930832557	1.063840276
70° 03′ 10″	0.94000727	0.34115440	2.755371940	0.362927409	2.931224066	1.063821557
70° 03′ 20″	0.94002381	0.34110883	2.755788551	0.362872543	2.931615687	1.063802840
70° 03′ 30″	0.94004035	0.34106326	2.756205273	0.362817679	2.932007420	1.063784127
70° 03′ 40″	0.94005688	0.34101768	2.756622107	0.362762817	2.932399264	1.063765416
70° 03′ 50″	0.94007341	0.34097211	2.757039053	0.362707956	2.932791220	1.063746709
70° 04′ 00″	0.94008994	0.34092653	2.757456109	0.362653098	2.933183287	1.063728005
70° 04′ 10″	0.94010647	0.34088095	2.757873278	0.362598241	2.933575466	1.063709305
70° 04′ 20″	0.94012300	0.34083537	2.758290558	0.362543387	2.933967757	1.063690607
70° 04′ 30″	0.94013952	0.34078980	2.758707949	0.362488534	2.934360160	1.063671912
70° 04′ 40″	0.94015604	0.34074422	2.759125452	0.362433683	2.934752675	1.063653221
70° 04′ 50″	0.94017256	0.34069864	2.759543067	0.362378834	2.935145301	1.063634533
70° 05′ 00″	0.94018907	0.34065305	2.759960794	0.362323987	2.935538040	1.063615848
70° 05′ 10″	0.94020559	0.34060747	2.760378632	0.362269142	2.935930890	1.063597166
70° 05′ 20″	0.94022210	0.34056189	2.760796583	0.362214299	2.936323853	1.063578487
70° 05′ 30″	0.94023861	0.34051631	2.761214645	0.362159458	2.936716928	1.063559812
70° 05′ 40″	0.94025512	0.34047072	2.761632819	0.362104619	2.937110115	1.063541139
70° 05′ 50″	0.94027162	0.34042514	2.762051105	0.362049782	2.937503414	1.063522470
70° 06′ 00″	0.94028813	0.34037955	2.762469503	0.361994946	2.937896825	1.063503804
70° 06′ 10″	0.94030463	0.34033396	2.762888014	0.361940113	2.938290349	1.063485141
70° 06′ 20″	0.94032113	0.34028838	2.763306636	0.361885282	2.938683985	1.063466481
70° 06′ 30″	0.94033762	0.34024279	2.763725371	0.361830452	2.939077734	1.063447825
70° 06′ 40″	0.94035412	0.34019720	2.764144217	0.361775624	2.939471594	1.063429171
70° 06′ 50″	0.94037061	0.34015161	2.764563176	0.361720799	2.939865568	1.063410521
70° 07′ 00″	0.94038710	0.34010602	2.764982248	0.361665975	2.940259654	1.063391874
70° 07′ 10″	0.94040359	0.34006043	2.765401432	0.361611153	2.940653852	1.063373230
70° 07′ 20″	0.94042007	0.34001483	2.765820728	0.361556333	2.941048163	1.063354589
70° 07′ 30″	0.94043656	0.33996924	2.766240136	0.361501515	2.941442587	1.063335951
70° 07′ 40″	0.94045304	0.33992365	2.766659658	0.361446699	2.941837123	1.063317317
70° 07′ 50″	0.94046952	0.33987805	2.767079291	0.361391885	2.942231773	1.063298685

526 70° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
			2.767499038			
70° 08′ 00″	0.94048599	0.33983246		0.361337072	2.942626535	1.063280057
70° 08′ 10″	0.94050247	0.33978686	2.767918897	0.361282262	2.943021410	1.063261432
70° 08′ 20″	0.94051894	0.33974126	2.768338868	0.361227454	2.943416398	1.063242810
70° 08′ 30″	0.94053541	0.33969566	2.768758953	0.361172647	2.943811498	1.063224191
70° 08′ 40″	0.94055188	0.33965006	2.769179150	0.361117842	2.944206712	1.063205576
70° 08′ 50″	0.94056834	0.33960446	2.769599460	0.361063040	2.944602039	1.063186963
70° 09′ 00″	0.94058481	0.33955886	2.770019883	0.361008239	2.944997479	1.063168354
70° 09′ 10″	0.94060127	0.33951326	2.770440419	0.360953440	2.945393032	1.063149748
70° 09′ 20″	0.94061773	0.33946766	2.770861068	0.360898643	2.945788698	1.063131145
70° 09′ 30″	0.94063418	0.33942206	2.771281829	0.360843848	2.946184478	1.063112545
70° 09′ 40″	0.94065064	0.33937645	2.771702704	0.360789055	2.946580371	1.063093948
70° 09′ 50″	0.94066709	0.33933085	2.772123693	0.360734264	2.946976377	1.063075354
70° 10′ 00″	0.94068354	0.33928525	2.772544794	0.360679475	2.947372497	1.063056764
70° 10′ 10″	0.94069999	0.33923964	2.772966008	0.360624687	2.947768730	1.063038177
70° 10′ 20″	0.94071643	0.33919403	2.773387336	0.360569902	2.948165076	1.063019593
70° 10′ 30″	0.94073288	0.33914842	2.773808777	0.360515119	2.948561536	1.063001012
70° 10′ 40″	0.94074932	0.33910282	2.774230332	0.360460337	2.948958110	1.062982434
70° 10′ 50″	0.94076576	0.33905721	2.774651999	0.360405557	2.949354797	1.062963859
70° 11′ 00″	0.94078219	0.33901160	2.775073781	0.360350779	2.949751598	1.062945288
70° 11′ 10″	0.94079863	0.33896599	2.775495676	0.360296004	2.950148512	1.062926719
70° 11′ 20″	0.94081506	0.33892037	2.775917684	0.360241230	2.950545541	1.062908154
70° 11′ 30″	0.94083149	0.33887476	2.776339806	0.360186458	2.950942683	1.062889592
70° 11′ 40″	0.94084792	0.33882915	2.776762042	0.360131688	2.951339939	1.062871033
70° 11′ 50″	0.94086435	0.33878354	2.777184391	0.360076919	2.951737309	1.062852477
70° 12′ 00″	0.94088077	0.33873792	2.777606854	0.360022153	2.952134793	1.062833924
70° 12′ 10″	0.94089719	0.33869230	2.778029431	0.359967389	2.952532391	1.062815375
70° 12′ 20″	0.94091361	0.33864669	2.778452121	0.359912626	2.952930103	1.062796828
70° 12′ 30″	0.94093003	0.33860107	2.778874926	0.359857866	2.953327929	1.062778285
70° 12′ 40″	0.94094644	0.33855545	2.779297845	0.359803107	2.953725869	1.062759745
70° 12′ 50″	0.94096285	0.33850983	2.779720877	0.359748350	2.954123923	1.062741208
70° 13′ 00″	0.94097926	0.33846421	2.780144024	0.359693596	2.954522092	1.062722674
70° 13′ 10″	0.94099567	0.33841859	2.780567284	0.359638843	2.954920375	1.062704144
70° 13′ 20″	0.94101208	0.33837297	2.780990659	0.359584092	2.955318772	1.062685616
70° 13′ 30″	0.94102848	0.33832735	2.781414148	0.359529343	2.955717284	1.062667092
70° 13′ 40″	0.94104488	0.33828173	2.781837751	0.359474595	2.956115910	1.062648571
70° 13′ 50″	0.94106128	0.33823611	2.782261469	0.359419850	2.956514651	1.062630053
70° 14′ 00″	0.94107768	0.33819048	2.782685301	0.359365107	2.956913506	1.062611538
70° 14′ 10″	0.94109407	0.33814486	2.783109247	0.359310365	2.957312476	1.062593026
70° 14′ 20″	0.94111047	0.33809923	2.783533307	0.359255626	2.957711560	1.062574517
70° 14′ 30″	0.94112686	0.33805360	2.783957482	0.359200888	2.958110759	1.062556012
70° 14′ 40″	0.94114325	0.33800798	2.784381772	0.359146152	2.958510073	1.062537509
70° 14′ 50″	0.94115963	0.33796235	2.784806176	0.359091419	2.958909501	1.062519010
70° 15′ 00″	0.94117602	0.33791672	2.785230695	0.359036687	2.959309045	1.062500514
70° 15′ 10″	0.94119240	0.33787109	2.785655328	0.358981957	2.959708703	1.062482021
70° 15′ 20″	0.94120878	0.33782546	2.786080076	0.358927228	2.960108476	1.062463531
70° 15′ 30″	0.94122515	0.33777983	2.786504939	0.358872502	2.960508364	1.062445045
70° 15′ 40″	0.94124153	0.33773419	2.786929917	0.358817778	2.960908368	1.062426561
70° 15′ 50″	0.94125790	0.33768856	2.787355009	0.358763056	2.961308486	1.062408081
	1					

527 70° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
70° 16′ 00″	0.94127427	0.33764293	2.787780217	0.358708335	2.961708719	1.062389603
70° 16′ 10″	0.94129064	0.33759729	2.788205539	0.358653616	2.962109068	1.062371129
70° 16′ 10″ 70° 16′ 20″	0.94129064		2.788630977	0.358598900	2.962509531	
		0.33755166				1.062352658
70° 16′ 30″	0.94132337	0.33750602	2.789056529	0.358544185	2.962910110	1.062334191
70° 16′ 40″	0.94133973	0.33746038	2.789482197	0.358489472	2.963310805	1.062315726
70° 16′ 50″	0.94135609	0.33741475	2.789907979	0.358434761	2.963711614	1.062297264
70° 17′ 00″	0.94137245	0.33736911	2.790333877	0.358380052	2.964112539	1.062278806
70° 17′ 10″	0.94138880	0.33732347	2.790759890	0.358325345	2.964513580	1.062260351
70° 17′ 20″	0.94140516	0.33727783	2.791186019	0.358270640	2.964914736	1.062241899
70° 17′ 30″	0.94142151	0.33723219	2.791612263	0.358215936	2.965316008	1.062223450
70° 17′ 40″	0.94143785	0.33718654	2.792038622	0.358161235	2.965717395	1.062205004
70° 17′ 50″	0.94145420	0.33714090	2.792465096	0.358106535	2.966118898	1.062186561
70° 18′ 00″	0.94147054	0.33709526	2.792891687	0.358051837	2.966520516	1.062168121
70° 18′ 10″	0.94148689	0.33704961	2.793318392	0.357997142	2.966922250	1.062149685
70° 18′ 20″	0.94150323	0.33700397	2.793745213	0.357942448	2.967324100	1.062131252
70° 18′ 30″	0.94151956	0.33695832	2.794172150	0.357887756	2.967726066	1.062112822
70° 18′ 40″	0.94153590	0.33691268	2.794599203	0.357833066	2.968128148	1.062094395
70° 18′ 50″	0.94155223	0.33686703	2.795026371	0.357778377	2.968530346	1.062075971
70° 19′ 00″	0.94156856	0.33682138	2.795453655	0.357723691	2.968932660	1.062057550
70° 19′ 10″	0.94158489	0.33677573	2.795881055	0.357669007	2.969335090	1.062039132
70° 19′ 20″	0.94160122	0.33673008	2.796308571	0.357614324	2.969737635	1.062020718
70° 19′ 30″	0.94161754	0.33668443	2.796736203	0.357559644	2.970140298	1.062002306
70° 19′ 40″	0.94163386	0.33663878	2.797163950	0.357504965	2.970543076	1.061983898
70° 19′ 50″	0.94165018	0.33659313	2.797591814	0.357450288	2.970945970	1.061965493
70° 20′ 00″	0.94166650	0.33654748	2.798019794	0.357395613	2.971348981	1.061947091
70° 20′ 10″	0.94168281	0.33650182	2.798447890	0.357340940	2.971752108	1.061928692
70° 20′ 20″	0.94169913	0.33645617	2.798876102	0.357286269	2.972155352	1.061910297
70° 20′ 30″	0.94171544	0.33641051	2.799304430	0.357231600	2.972558711	1.061891904
70° 20′ 40″	0.94173175	0.33636486	2.799732875	0.357176932	2.972962188	1.061873515
70° 20′ 50″	0.94174805	0.33631920	2.800161436	0.357122267	2.973365781	1.061855128
70° 21′ 00″	0.94176436	0.33627354	2.800590113	0.357067603	2.973769490	1.061836745
70° 21′ 10″	0.94178066	0.33622788	2.801018907	0.357012942	2.974173317	1.061818365
70° 21′ 20″	0.94179696	0.33618222	2.801447817	0.356958282	2.974577259	1.061799988
70° 21′ 30″	0.94181326	0.33613656	2.801876844	0.356903624	2.974981319	1.061781615
70° 21′ 40″	0.94182955	0.33609090	2.802305987	0.356848968	2.975385495	1.061763244
70° 21′ 50″	0.94184584	0.33604524	2.802735247	0.356794314	2.975789788	1.061744876
70° 22′ 00″	0.94186214	0.33599958	2.803164624	0.356739662	2.976194199	1.061726512
70° 22′ 10″	0.94187842	0.33595392	2.803594117	0.356685012	2.976598726	1.061708151
70° 22′ 20″	0.94189471	0.33590825	2.804023727	0.356630363	2.977003370	1.061689793
70° 22′ 30″	0.94191099	0.33586259	2.804453454	0.356575717	2.977408131	1.061671438
70° 22′ 40″	0.94192728	0.33581692	2.804883298	0.356521072	2.977813009	1.061653086
70° 22′ 50″	0.94194356	0.33577126	2.805313259	0.356466429	2.978218004	1.061634737
70° 23′ 00″	0.94195983	0.33572559	2.805743336	0.356411788	2.978623116	1.061616392
70° 23′ 10″	0.94197611	0.33567992	2.806173531	0.356357149	2.979028346	1.061598049
70° 23′ 20″	0.94199238	0.33563425	2.806603843	0.356302512	2.979433693	1.061579710
70° 23′ 30″	0.94200865	0.33558858	2.807034272	0.356247877	2.979839157	1.061561374
70° 23′ 40″	0.94202492	0.33554291	2.807464818	0.356193244	2.980244739	1.061543041
70° 23′ 50″	0.94204119	0.33549724	2.807895481	0.356138612	2.980650438	1.061524711

528 70° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
70° 24′ 00″	0.94205745	0.33545157	2.808326261	0.356083983	2.981056254	1.061506384
70° 24′ 10″	0.94207371	0.33540590	2.808757159	0.356029355	2.981462188	1.061488060
70° 24′ 20″	0.94208997	0.33536022	2.809188175	0.355974729	2.981868240	1.061469740
70° 24′ 30″	0.94210623	0.33531455	2.809619307	0.355920105	2.982274409	1.061451422
70° 24′ 40″	0.94212249	0.33526887	2.810050557	0.355865483	2.982680696	1.061433108
70° 24′ 50″	0.94213874	0.33522320	2.810481925	0.355810863	2.983087101	1.061414797
70° 25′ 00″	0.94215499	0.33517752	2.810913410	0.355756245	2.983493623	1.061396489
70° 25′ 10″	0.94217124	0.33513184	2.811345013	0.355701629	2.983900263	1.061378184
70° 25′ 20″	0.94218749	0.33508617	2.811776734	0.355647014	2.984307022	1.061359882
70° 25′ 30″	0.94220373	0.33504049	2.812208572	0.355592402	2.984713898	1.061341583
70° 25′ 40″	0.94221997	0.33499481	2.812640528	0.355537791	2.985120892	1.061323288
70° 25′ 50″	0.94223621	0.33494913	2.813072602	0.355483182	2.985528004	1.061304995
70° 26′ 00″	0.94225245	0.33490345	2.813504793	0.355428575	2.985935234	1.061286706
70° 26′ 10″	0.94226869	0.33485776	2.813937103	0.355373970	2.986342582	1.061268420
70° 26′ 20″	0.94228492	0.33481208	2.814369530	0.355319367	2.986750049	1.061250137
70° 26′ 30″	0.94230115	0.33476640	2.814802076	0.355264766	2.987157633	1.061231857
70° 26′ 40″	0.94231738	0.33472071	2.815234740	0.355210166	2.987565336	1.061213580
70° 26′ 50″	0.94233361	0.33467503	2.815667521	0.355155569	2.987973158	1.061195306
70° 27′ 00″	0.94234983	0.33462934	2.816100421	0.355100973	2.988381097	1.061177036
70° 27′ 10″	0.94236605	0.33458366	2.816533440	0.355046379	2.988789156	1.061158768
70° 27′ 20″	0.94238227	0.33453797	2.816966576	0.354991787	2.989197332	1.061140504
70° 27′ 30″	0.94239849	0.33449228	2.817399831	0.354937197	2.989605627	1.061122243
70° 27′ 40″	0.94241471	0.33444659	2.817833204	0.354882609	2.990014041	1.061103985
70° 27′ 50″	0.94243092	0.33440090	2.818266696	0.354828023	2.990422573	1.061085730
70° 28′ 00″	0.94244713	0.33435521	2.818700306	0.354773439	2.990831224	1.061067478
70° 28′ 10″	0.94246334	0.33430952	2.819134034	0.354718856	2.991239994	1.061049229
70° 28′ 20″	0.94247955	0.33426383	2.819567881	0.354664276	2.991648883	1.061030984
70° 28′ 30″	0.94249575	0.33421813	2.820001847	0.354609697	2.992057890	1.061012741
70° 28′ 40″	0.94251195	0.33417244	2.820435931	0.354555120	2.992467016	1.060994502
70° 28′ 50″	0.94252815	0.33412674	2.820870135	0.354500545	2.992876262	1.060976266
70° 29′ 00″	0.94254435	0.33408105	2.821304457	0.354445972	2.993285626	1.060958033
70° 29′ 10″	0.94256055	0.33403535	2.821738897	0.354391401	2.993695109	1.060939803
70° 29′ 20″	0.94257674	0.33398966	2.822173457	0.354336831	2.994104711	1.060921576
70° 29′ 30″	0.94259293	0.33394396	2.822608136	0.354282264	2.994514433	1.060903352
70° 29′ 40″	0.94260912	0.33389826	2.823042933	0.354227698	2.994924273	1.060885131
70° 29′ 50″	0.94262531	0.33385256	2.823477850	0.354173134	2.995334233	1.060866914
70° 30′ 00″	0.94264149	0.33380686	2.823912886	0.354118573	2.995744312	1.060848700
70° 30′ 10″	0.94265767	0.33376116	2.824348040	0.354064013	2.996154511	1.060830488
70° 30′ 20″	0.94267385	0.33371546	2.824783314	0.354009454	2.996564829	1.060812280
70° 30′ 30″	0.94269003	0.33366975	2.825218708	0.353954898	2.996975266	1.060794075
70° 30′ 40″	0.94270621	0.33362405	2.825654220	0.353900344	2.997385823	1.060775873
70° 30′ 50″	0.94272238	0.33357835	2.826089852	0.353845791	2.997796500	1.060757675
70° 31′ 00″	0.94273855	0.33353264	2.826525603	0.353791241	2.998207296	1.060739479
70° 31′ 10″	0.94275472	0.33348694	2.826961474	0.353736692	2.998618211	1.060721286
70° 31′ 20″	0.94277089	0.33344123	2.827397464	0.353682145	2.999029247	1.060703097
70° 31′ 30″	0.94278705	0.33339552	2.827833574	0.353627600	2.999440402	1.060684911
70° 31′ 40″	0.94280321	0.33334981	2.828269803	0.353573057	2.999851677	1.060666727
70° 31′ 50″	0.94281937	0.33330411	2.828706152	0.353518516	3.000263071	1.060648547

529 70° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
70° 32′ 00″	0.94283553	0.33325840	2.829142621	0.353463976	3.000674586	1.060630370
70° 32′ 10″	0.94285169	0.33321269	2.829579210	0.353409439	3.001086221	1.060636376
70° 32′ 20″	0.94286784	0.33316697	2.830015918	0.353354903	3.001497975	1.060594026
70° 32′ 30″	0.94288399	0.33312126	2.830452746	0.353300369	3.001909850	1.060574028
70° 32′ 40″	0.74288377	0.33312126	2.830889694	0.353345837	3.002321845	1.060575858
70° 32′ 50″	0.94291629	0.33302984	2.831326762	0.353191307	3.002321843	1.060537674
70° 32′ 30″	0.94293243	0.33298412	2.831763950	0.353171307	3.002733760	1.060537332
70° 33′ 10″	0.94294858	0.33293841	2.832201258	0.353082253	3.003558550	1.060521574
70° 33′ 20″	0.74274838	0.33289269	2.832638686	0.353082233	3.003971026	1.060303217
70° 33′ 30″	0.94298085	0.33284697	2.833076234	0.352973206	3.003771026	1.060465067
70° 33′ 40″	0.74278083	0.33280126	2.833513903	0.352973208	3.004383822	1.060468718
70° 33′ 50″	0.94299699	0.33275554	2.833951692	0.352864166	3.004776337	1.060446772
70° 34′ 00″	0.94301312	0.33270982	2.834389601	0.352809649	3.005622133	1.060430629
70° 34′ 10″						
70° 34′ 10″ 70° 34′ 20″	0.94304538	0.33266410	2.834827630	0.352755134	3.006035211	1.060394353
70° 34′ 20″ 70° 34′ 30″	0.94306151	0.33261838 0.33257266	2.835265780 2.835704050	0.352700621	3.006448410 3.006861730	1.060376220 1.060358090
70° 34′ 30″ 70° 34′ 40″	0.94307764	0.33252694	2.836142441	0.352646109 0.352591600	3.006861730	1.060338090
70° 34′ 40″ 70° 34′ 50″	0.94310988	0.33248121	2.836580953	0.352537092	3.007273170	1.060337763
70° 34′ 30″ 70° 35′ 00″				0.352482586		
70° 35′ 00″ 70° 35′ 10″	0.94312600	0.33243549	2.837019585		3.008102413 3.008516215	1.060303718
70° 35′ 10″ 70° 35′ 20″	0.94314211 0.94315823	0.33238977 0.33234404	2.837458337	0.352428082 0.352373580		1.060285600
70° 35′ 20″ 70° 35′ 30″	0.94317434		2.837897211		3.008930139 3.009344183	1.060267485
70° 35′ 40″		0.33229831	2.838336205	0.352319080		1.060249373
70° 35′ 40″ 70° 35′ 50″	0.94319045 0.94320655	0.33225259 0.33220686	2.838775320 2.839214556	0.352264581 0.352210085	3.009758349	1.060231265
70° 36′ 00″	0.9432266	0.33216113	2.839653913	0.352210085	3.010172636 3.010587043	1.060213160 1.060195057
70° 36′ 10″	0.74322266	0.33211540	2.840093391	0.352101098	3.011001573	1.060173037
70° 36′ 20″	0.74325486	0.33211340	2.840532990	0.352101078	3.011416223	1.060178738
70° 36′ 30″	0.74323486	0.33202394	2.840972710	0.351992118	3.011830994	1.060138862
70° 36′ 40″	0.94328705	0.33197821	2.841412551	0.351772118	3.012245887	1.060122680
70° 36′ 50″	0.94330315	0.33177621	2.841852514	0.351883145	3.012660902	1.060104593
70° 37′ 00″	0.94331924	0.33173246	2.842292597	0.351828661	3.013076038	1.060086509
70° 37′ 10″	0.94333533	0.33184101	2.842732802	0.351774180	3.013491295	1.060068429
70° 37′ 10″	0.94335142	0.33179528	2.843173128	0.351774180	3.013906674	1.060050351
70° 37′ 30″	0.94336750	0.33174954	2.843613576	0.351665222	3.014322174	1.060032277
70° 37′ 40″	0.94338358	0.33170381	2.844054145	0.351610746	3.014737796	1.060014206
70° 37′ 50″	0.94339966	0.33165807	2.844494836	0.351556272	3.015153540	1.059996138
70° 38′ 00″	0.94341574	0.33161233	2.844935648	0.351501800	3.015569406	1.059978073
70° 38′ 10″	0.94343182	0.33156659	2.845376582	0.351447329	3.015985393	1.059960011
70° 38′ 20″	0.94344789	0.33152085	2.845817637	0.351392860	3.016401503	1.059941952
70° 38′ 30″	0.94346396	0.33147511	2.846258815	0.351338394	3.016817734	1.059923897
70° 38′ 40″	0.94348003	0.33142937	2.846700114	0.351283929	3.017234087	1.059905844
70° 38′ 50″	0.94349610	0.33138363	2.847141535	0.351229466	3.017650563	1.059887795
70° 39′ 00″	0.94351216	0.33133789	2.847583077	0.351175005	3.018067160	1.059869749
70° 39′ 10″	0.94352823	0.33129215	2.848024742	0.351120545	3.018483879	1.059851705
70° 39′ 20″	0.94354429	0.33124640	2.848466528	0.351066088	3.018900721	1.059833665
70° 39′ 30″	0.94356035	0.33120066	2.848908437	0.351011632	3.019317685	1.059815628
70° 39′ 40″	0.94357640	0.33115491	2.849350468	0.350957178	3.019734771	1.059797594
70° 39′ 50″	0.94359245	0.33110916	2.849792621	0.350902726	3.020151980	1.059779564
	315572.15	3.00.107.10		1.000.02.20	2.020707700	

530 70° 39′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
70° 40′ 00″	0.94360851	0.33106342	2.850234896	0.350848276	3.020569311	1.059761536
70° 40′ 10″	0.94362456	0.33101767	2.850677293	0.350793828	3.020986764	1.059743511
70° 40′ 20″	0.94364060	0.33097192	2.851119813	0.350739382	3.021404340	1.059725490
70° 40′ 30″	0.94365665	0.33092617	2.851562455	0.350684937	3.021822039	1.059707471
70° 40′ 40″	0.94367269	0.33088042	2.852005219	0.350630494	3.022239860	1.059689456
70° 40′ 50″	0.94368873	0.33083467	2.852448106	0.350576054	3.022657804	1.059671444
70° 41′ 00″	0.94370477	0.33078892	2.852891115	0.350521615	3.023075870	1.059653435
70° 41′ 10″	0.94372080	0.33074317	2.853334247	0.350467177	3.023494059	1.059635429
70° 41′ 20″	0.94373684	0.33069741	2.853777502	0.350412742	3.023912371	1.059617426
70° 41′ 30″	0.94375287	0.33065166	2.854220879	0.350358309	3.024330806	1.059599426
70° 41′ 40″	0.94376890	0.33060590	2.854664379	0.350303877	3.024749364	1.059581430
70° 41′ 50″	0.94378493	0.33056015	2.855108002	0.350249447	3.025168045	1.059563436
70° 42′ 00″	0.94380095	0.33051439	2.855551747	0.350195020	3.025586849	1.059545446
70° 42′ 10″	0.94381697	0.33046864	2.855995616	0.350140594	3.026005776	1.059527458
70° 42′ 20″	0.94383299	0.33042288	2.856439607	0.350086169	3.026424826	1.059509474
70° 42′ 30″	0.94384901	0.33037712	2.856883721	0.350031747	3.026843999	1.059491493
70° 42′ 40″	0.94386503	0.33033136	2.857327959	0.349977327	3.027263296	1.059473515
70° 42′ 50″	0.94388104	0.33028560	2.857772319	0.349922908	3.027682716	1.059455540
70° 43′ 00″	0.94389705	0.33023984	2.858216803	0.349868491	3.028102259	1.059437568
70° 43′ 10″	0.94391306	0.33019408	2.858661410	0.349814076	3.028521926	1.059419600
70° 43′ 20″	0.94392907	0.33014831	2.859106140	0.349759663	3.028941716	1.059401634
70° 43′ 30″	0.94394508	0.33010255	2.859550993	0.349705252	3.029361629	1.059383671
70° 43′ 40″	0.94396108	0.33005679	2.859995970	0.349650842	3.029781667	1.059365712
70° 43′ 50″	0.94397708	0.33001102	2.860441070	0.349596435	3.030201827	1.059347756
70° 44′ 00″	0.94399308	0.32996526	2.860886294	0.349542029	3.030622112	1.059329802
70° 44′ 10″	0.94400907	0.32991949	2.861331641	0.349487625	3.031042520	1.059311852
70° 44′ 20″	0.94402507	0.32987372	2.861777112	0.349433223	3.031463052	1.059293905
70° 44′ 30″	0.94404106	0.32982795	2.862222706	0.349378823	3.031883708	1.059275961
70° 44′ 40″	0.94405705	0.32978219	2.862668424	0.349324425	3.032304488	1.059258020
70° 44′ 50″	0.94407304	0.32973642	2.863114266	0.349270028	3.032725391	1.059240083
70° 45′ 00″	0.94408902	0.32969065	2.863560231	0.349215633	3.033146419	1.059222148
70° 45′ 10″	0.94410500	0.32964487	2.864006321	0.349161241	3.033567571	1.059204216
70° 45′ 20″	0.94412098	0.32959910	2.864452534	0.349106850	3.033988846	1.059186288
70° 45′ 30″	0.94413696	0.32955333	2.864898871	0.349052460	3.034410246	1.059168363
70° 45′ 40″	0.94415294	0.32950756	2.865345333	0.348998073	3.034831770	1.059150440
70° 45′ 50″ 70° 46′ 00″	0.94416891	0.32946178	2.865791918	0.348943688	3.035253419	1.059132521
70° 46′ 00″ 70° 46′ 10″	0.94418488	0.32941601	2.866238627	0.348889304	3.035675192	1.059114605
70° 46′ 10″ 70° 46′ 20″	0.94420085	0.32937023	2.866685461	0.348834922	3.036097089	1.059096692
70° 46′ 20″ 70° 46′ 30″	0.94421682	0.32932445	2.867132419	0.348780542	3.036519110	1.059078782
70° 46′ 30″ 70° 46′ 40″	0.94423279	0.32927868	2.867579501	0.348726164 0.348671788	3.036941256	1.059060875
70° 46′ 40″ 70° 46′ 50″	0.94424875	0.32923290	2.868026707		3.037363527	1.059042972
70° 46′ 50″ 70° 47′ 00″	0.94426471	0.32918712	2.868474038 2.868921493	0.348617414 0.348563041	3.037785922	1.059025071 1.059007174
70° 47′ 00″ 70° 47′ 10″	0.94428067	0.32914134 0.32909556	2.869369073	0.348508670	3.038208442 3.038631086	1.059007174
70° 47′ 10″ 70° 47′ 20″	0.94429662	0.32904978	2.869369073		3.038631086	
70° 47′ 20″ 70° 47′ 30″	0.94431258			0.348454301 0.348399934		1.058971388
70° 47′ 30″ 70° 47′ 40″	0.94434448	0.32900400 0.32895821	2.870264606 2.870712560	0.348345569	3.039476749 3.039899768	1.058953500 1.058935614
70° 47′ 40′ 70° 47′ 50″	0.94436043	0.32891243	2.871160638	0.348291206	3.037677766	1.058917732
	0./7730043	0.320/1243	2.07 1100030	0.3402/1200	3.040322/12	1.030/1//32

531 70° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
70° 48′ 00″	0.94437637	0.32886665	2.871608841	0.348236844	3.040746181	1.058899853
70° 48′ 10″	0.94439231	0.32882086	2.872057169	0.348182484	3.041169574	1.058881978
70° 48′ 20″	0.94440825	0.32877508	2.872505621	0.348128126	3.041593093	1.058864105
70° 48′ 30″	0.94442419	0.32872929	2.872954199	0.348073770	3.042016737	1.058846235
70° 48′ 40″	0.94444013	0.32868350	2.873402902	0.348019416	3.042440506	1.058828369
70° 48′ 50″	0.94445606	0.32863771	2.873851729	0.347965064	3.042864401	1.058810505
70° 49′ 00″	0.94447199	0.32859192	2.874300682	0.347910713	3.043288420	1.058792645
70° 49′ 10″	0.94448792	0.32854614	2.874749760	0.347856364	3.043712565	1.058774787
70° 49′ 20″	0.94450385	0.32850034	2.875198963	0.347802018	3.044136836	1.058756933
70° 49′ 30″	0.94451978	0.32845455	2.875648291	0.347747672	3.044561232	1.058739082
70° 49′ 40″	0.94453570	0.32840876	2.876097745	0.347693329	3.044985753	1.058721234
70° 49′ 50″	0.94455162	0.32836297	2.876547323	0.347638988	3.045410400	1.058703389
70° 50′ 00″	0.94456754	0.32831718	2.876997028	0.347584648	3.045835172	1.058685547
70° 50′ 10″	0.94458345	0.32827138	2.877446858	0.347530311	3.046260071	1.058667708
70° 50′ 20″	0.94459937	0.32822559	2.877896813	0.347475975	3.046685095	1.058649873
70° 50′ 30″	0.94461528	0.32817979	2.878346894	0.347421641	3.047110244	1.058632040
70° 50′ 40″	0.94463119	0.32813399	2.878797100	0.347367308	3.047535520	1.058614211
70° 50′ 50″	0.94464710	0.32808820	2.879247433	0.347312978	3.047960921	1.058596384
70° 51′ 00″	0.94466300	0.32804240	2.879697891	0.347258649	3.048386449	1.058578561
70° 51′ 10″	0.94467890	0.32799660	2.880148474	0.347204323	3.048812102	1.058560741
70° 51′ 20″	0.94469480	0.32795080	2.880599184	0.347149998	3.049237882	1.058542923
70° 51′ 30″	0.94471070	0.32790500	2.881050020	0.347095675	3.049663787	1.058525109
70° 51′ 40″	0.94472660	0.32785920	2.881500981	0.347041353	3.050089819	1.058507298
70° 51′ 50″	0.94474249	0.32781340	2.881952069	0.346987034	3.050515977	1.058489491
70° 52′ 00″	0.94475838	0.32776759	2.882403282	0.346932716	3.050942261	1.058471686
70° 52′ 10″	0.94477427	0.32772179	2.882854622	0.346878400	3.051368672	1.058453884
70° 52′ 20″	0.94479016	0.32767598	2.883306088	0.346824087	3.051795209	1.058436085
70° 52′ 30″	0.94480605	0.32763018	2.883757680	0.346769774	3.052221872	1.058418290
70° 52′ 40″	0.94482193	0.32758437	2.884209398	0.346715464	3.052648662	1.058400497
70° 52′ 50″	0.94483781	0.32753857	2.884661243	0.346661156	3.053075578	1.058382708
70° 53′ 00″	0.94485369	0.32749276	2.885113214	0.346606849	3.053502621	1.058364922
70° 53′ 10″	0.94486956	0.32744695	2.885565312	0.346552544	3.053929791	1.058347139
70° 53′ 20″	0.94488544	0.32740114	2.886017536	0.346498241	3.054357087	1.058329359
70° 53′ 30″	0.94490131	0.32735533	2.886469887	0.346443940	3.054784511	1.058311581
70° 53′ 40″	0.94491718	0.32730952	2.886922364	0.346389641	3.055212061	1.058293808
70° 53′ 50″	0.94493305	0.32726371	2.887374968	0.346335343	3.055639737	1.058276037
70° 54′ 00″	0.94494891	0.32721790	2.887827699	0.346281047	3.056067541	1.058258269
70° 54′ 10″	0.94496478	0.32717209	2.888280556	0.346226753	3.056495472	1.058240504
70° 54′ 20″	0.94498064	0.32712627	2.888733540	0.346172461	3.056923530	1.058222743
70° 54′ 30″	0.94499649	0.32708046	2.889186652	0.346118171	3.057351715	1.058204984
70° 54′ 40″	0.94501235	0.32703464	2.889639890	0.346063883	3.057780027	1.058187229
70° 54′ 50″	0.94502820	0.32698883	2.890093255	0.346009596	3.058208466	1.058169476
70° 55′ 00″	0.94504406	0.32694301	2.890546747	0.345955311	3.058637033	1.058151727
70° 55′ 10″ 70° 55′ 20″	0.94505991	0.32689719	2.891000367	0.345901028	3.059065727	1.058133981
70° 55′ 20″ 70° 55′ 30″		0.32685138	2.891454113	0.345846747	3.059494548	1.058116238
70° 55′ 40″	0.94509160 0.94510744	0.32680556	2.891907987	0.345792468	3.059923497	1.058098498
70° 55′ 40″ 70° 55′ 50″	0.94510744	0.32675974 0.32671392	2.892361988 2.892816117	0.345738190 0.345683915	3.060352573 3.060781777	1.058080761 1.058063027
=======================================	0.74312320	0.320/1372	2.0/201011/	0.545005713	3.000/01///	1.03000302/

532 70° 55′ 50″

70° 56′ 00″	<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
70° 56′ 10″ 0.94515496 0.32662227 2.893724756 0.345575369 3.061640567 1.058007864 70° 56′ 20″ 0.94518662 0.32653063 2.894633905 0.34566830 3.062499868 1.057992122 70° 56′ 40″ 0.94520245 0.32634880 2.895588671 0.345412564 3.062249711 1.05797404 70° 57′ 00″ 0.94523410 0.32634322 2.89598586 0.34534385299 3.063359681 1.057973876 70° 57′ 00″ 0.94526975 0.32634732 2.896453735 0.345249775 3.06422005 1.05793267 70° 57′ 20″ 0.94528157 0.3262567 2.89781995 0.345549775 3.06422005 1.057983566 70° 57′ 20″ 0.94528157 0.3262567 2.89781995 0.34567975 3.06422005 1.05798367 70° 57′ 00″ 0.94531320 0.32611818 2.89878197 0.3459481 1.05785041 70° 58′		` ′					
70° 56′ 20″ 0.94517679 0.32657645 2.894179267 0.34556683 3.062070154 1.058009848 70° 56′ 40″ 0.94520245 0.32648480 2.895088671 0.345412564 3.06229711 1.057974404 70° 56′ 60″ 0.94524818 0.32639315 2.89598586 0.345338299 3.063359681 1.057974404 70° 57′ 10″ 0.94524993 0.32639315 2.89598586 0.3453304036 3.063789779 1.057938976 70° 57′ 10″ 0.94524973 0.3263915 2.89699012 0.345195516 3.06450359 1.057938567 70° 57′ 0″ 0.94528157 0.32601601 2.89698784 1.48791950 0.34508702 3.065942191 1.057886188 70° 57′ 0.94529738 0.32606942 2.897819750 0.34508702 3.065942191 1.057886188 70° 58′ 0″ 0.94534820 0.32607235 2.899187317 0.344924246 3.066804053 1.05783615							
70° 56′ 30″ 0.94518662 0.32653063 2.884633905 0.34546803 3.062499868 1.057792122 70° 56′ 50″ 0.94521828 0.3264888 2.885588671 0.34541264 3.062929711 1.057796668 70° 57′ 00″ 0.94523410 0.32639315 2.885985856 0.345340363 3.063789779 1.05796668 70° 57′ 10″ 0.94526575 0.32630150 2.8866909012 0.345249775 3.0646220005 1.057933561 70° 57′ 30″ 0.94528157 0.32625667 2.89736417 0.3451875163 3.065080842 1.057983561 70° 57′ 40″ 0.94528157 0.32620984 2.897819950 0.34508702 3.065908842 1.057885685 70° 58′ 00″ 0.945331320 0.32611818 2.898781975 0.34508702 3.065908842 1.057885185 70° 58′ 10″ 0.945346062 0.32607255 2.899187317 0.344978496 3.066373058 1.057850461 70° 58′ 20″ 0.945356062 0.32607255 2.899187317 0.344978496 3.066373058 1.0577797389 70° 58′ 30″ 0.94536062 <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
70° 56′ 40″ 0.94520245 0.32643898 2.895083671 0.345412564 3.062929711 1.057974404 70° 56′ 00″ 0.94523410 0.326339315 2.89593586 0.345304036 3.063789779 1.057938976 70° 57′ 00″ 0.94526975 0.32634732 2.896633735 0.345249775 3.064220005 1.057938976 70° 57′ 30″ 0.94528157 0.32625567 2.897364417 0.34504755 3.065080842 1.057885858 70° 57′ 40″ 0.94529738 0.32620984 2.897364417 0.34508702 3.065914191 1.057885858 70° 57′ 40″ 0.94531200 0.32611818 2.898175611 0.345032749 3.065942191 1.057885681 70° 58′ 00″ 0.94533602 0.3260255 2.898187317 0.344924246 3.066804033 1.0578357641 70° 58′ 00″ 0.94536602 0.32605525 2.898433362 0.34448689988 3.06723515 1.057787389							
70° 56′ 50″ 0.94521828 0.326343898 2.895543565 0.345382299 3.063359681 1.057936688 70° 57′ 10″ 0.94523499 0.32634732 2.895998586 0.345304036 3.063789779 1.057938976 70° 57′ 10″ 0.94526575 0.32631732 2.896909012 0.345195516 3.064220005 1.057903561 70° 57′ 40″ 0.94529738 0.32620984 2.897819950 0.345087002 3.065080842 1.057885858 70° 57′ 50″ 0.94531320 0.32616401 2.898275611 0.345087002 3.065911425 1.057856461 70° 58′ 00″ 0.94533482 0.32607235 2.889187317 0.344924246 3.066373058 1.057835767 70° 58′ 20″ 0.94536662 0.32602652 2.889813310 0.344924246 3.0668073053 1.0577877839 70° 58′ 20″ 0.94543963 0.32598062 2.990155838 0.344761506 3.0688529319 1.057776669 70° 59′ 00″ 0.94543963 0.32579735 2.990125514 0.344598783 3.069392723 1.05776669 70° 59′ 40″ 0.94545670<							
70° 57′ 00″ 0,94523410 0,32639315 2,89598586 0,34534036 3,063789779 1,057938976 70° 57′ 20″ 0,94526575 0,32634732 2,896453735 0,345197516 3,064520505 1,057921267 70° 57′ 20″ 0,94526575 0,32630150 2,889690912 0,345195516 3,064503059 1,05785858 70° 57′ 40″ 0,94528758 0,32620984 2,887819950 0,345087002 3,065511452 1,0578868158 70° 57′ 40″ 0,94531320 0,32616401 2,888273611 0,345087002 3,065511452 1,057886158 70° 58′ 10″ 0,9453482 0,32602552 2,898731400 0,344978496 3,066373058 1,05783461 70° 58′ 20″ 0,94536062 0,32602652 2,898731400 0,344978496 3,066804053 1,0577815076 70° 58′ 20″ 0,94540802 0,32598068 2,900099536 0,344815751 3,066804053 1,057787180 70° 58′ 20″ 0,94540803 0,32588902 2,901012268 0,344707263 3,068807989 1,0577762023 70° 59′ 20″ 0,94543963							
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71° 02′ 00″ 0.94570782 0.32501802 2.909708903 0.343676991 3.076752492 1.057409038 71° 02′ 10″ 0.94572358 0.32497217 2.910167912 0.343622784 3.077186585 1.057391421 71° 02′ 20″ 0.94573933 0.32492632 2.910627051 0.343568579 3.077620806 1.057373807 71° 02′ 30″ 0.94575509 0.32488047 2.911086319 0.343514376 3.078055158 1.057356197 71° 02′ 40″ 0.94577083 0.32488462 2.911545717 0.343460175 3.078489639 1.057338589 71° 03′ 0″ 0.94578658 0.32478876 2.912005244 0.343405975 3.078924251 1.057320984 71° 03′ 0″ 0.94580233 0.32474291 2.912464902 0.343351777 3.079358992 1.057303383 71° 03′ 10″ 0.94581807 0.32469706 2.912924689 0.343297581 3.079793864 1.0572285784 71° 03′ 30″ 0.94584955 0.32460535 2.913844653 0.343189195 3.080663997 1.0572250596 71° 03′ 40″ 0.94586529 <th>71° 01′ 50″</th> <td>0.94569207</td> <td>0.32506387</td> <td>2.909250023</td> <td>0.343731199</td> <td>3.076318530</td> <td>1.057426658</td>	71° 01′ 50″	0.94569207	0.32506387	2.909250023	0.343731199	3.076318530	1.057426658
71° 02′ 20″ 0.94573933 0.32492632 2.910627051 0.343568579 3.077620806 1.057373807 71° 02′ 30″ 0.94575509 0.32488047 2.911086319 0.343514376 3.078055158 1.057356197 71° 02′ 40″ 0.94577083 0.32483462 2.911545717 0.343460175 3.078489639 1.057338589 71° 02′ 50″ 0.94578658 0.32478876 2.912005244 0.343405975 3.078924251 1.057320984 71° 03′ 00″ 0.94580233 0.32474291 2.912464902 0.343351777 3.079358992 1.057303383 71° 03′ 10″ 0.94581807 0.32469706 2.912924689 0.343297581 3.079793864 1.057285784 71° 03′ 20″ 0.94584955 0.32460535 2.913384606 0.343189195 3.080663997 1.057250596 71° 03′ 40″ 0.94586529 0.32455949 2.914304830 0.343135004 3.081099258 1.057233007	71° 02′ 00″	0.94570782		2.909708903	0.343676991	3.076752492	1.057409038
71° 02′ 30″ 0.94575509 0.32488047 2.911086319 0.343514376 3.078055158 1.057356197 71° 02′ 40″ 0.94577083 0.32483462 2.911545717 0.343460175 3.078489639 1.057338589 71° 02′ 50″ 0.94578658 0.32478876 2.912005244 0.343405975 3.078924251 1.057320984 71° 03′ 00″ 0.94580233 0.32474291 2.912464902 0.343351777 3.079358992 1.057303383 71° 03′ 10″ 0.94581807 0.32469706 2.912924689 0.343297581 3.079793864 1.057285784 71° 03′ 20″ 0.94583381 0.32465120 2.913384606 0.343243387 3.080228865 1.057268189 71° 03′ 30″ 0.94584955 0.32460535 2.913844653 0.343189195 3.080663997 1.057250596 71° 03′ 40″ 0.94586529 0.32455949 2.914304830 0.343135004 3.081099258 1.057233007	71° 02′ 10″	0.94572358	0.32497217	2.910167912	0.343622784	3.077186585	1.057391421
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71° 03′ 10″ 0.94581807 0.32469706 2.912924689 0.343297581 3.079793864 1.057285784 71° 03′ 20″ 0.94583381 0.32465120 2.913384606 0.343243387 3.080228865 1.057268189 71° 03′ 30″ 0.94584955 0.32460535 2.913844653 0.343189195 3.080663997 1.057250596 71° 03′ 40″ 0.94586529 0.32455949 2.914304830 0.343135004 3.081099258 1.057233007	71° 03′ 00″					3.079358992	1.057303383
71° 03′ 20″ 0.94583381 0.32465120 2.913384606 0.343243387 3.080228865 1.057268189 71° 03′ 30″ 0.94584955 0.32460535 2.913844653 0.343189195 3.080663997 1.057250596 71° 03′ 40″ 0.94586529 0.32455949 2.914304830 0.343135004 3.081099258 1.057233007				2.912924689		3.079793864	
71° 03′ 30″ 0.94584955 0.32460535 2.913844653 0.343189195 3.080663997 1.057250596 71° 03′ 40″ 0.94586529 0.32455949 2.914304830 0.343135004 3.081099258 1.057233007	71° 03′ 20″			2.913384606		3.080228865	1.057268189
71° 03′ 40″ 0.94586529	71° 03′ 30″	0.94584955					
710 0.27 0.07 0.04 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	71° 03′ 40″	0.94586529	0.32455949	2.914304830	0.343135004	3.081099258	1.057233007
71 03 30 0.74300102 0.32431303 2.714/6313/ 0.343000013 3.001334031 1.03/213421	71° 03′ 50″	0.94588102	0.32451363	2.914765137	0.343080815	3.081534651	1.057215421

533 71° 03′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
71° 04′ 00″	0.94589675	0.32446777	2.915225574	0.343026629	3.081970173	1.057197838
71° 04′ 10″	0.94591248	0.32442191	2.915686141	0.342972443	3.082405826	1.057177058
71° 04′ 20″	0.94592821	0.32437606	2.916146839	0.342918260	3.082841609	1.057162681
71° 04′ 30″	0.94594393	0.32433019	2.916607667	0.342864079	3.083277523	1.057145107
71° 04′ 40″	0.94595966	0.32428433	2.917068625	0.342809899	3.083713567	1.057127536
71° 04′ 50″	0.94597538	0.32423847	2.917529713	0.342755721	3.084149742	1.057109968
71° 05′ 00″	0.94599110	0.32419261	2.917990932	0.342701545	3.084586047	1.057092403
71° 05′ 10″	0.94600681	0.32414675	2.918452282	0.342647370	3.085022483	1.057074841
71° 05′ 20″	0.94602253	0.32410088	2.918913762	0.342593198	3.085459050	1.057057283
71° 05′ 30″	0.94603824	0.32405502	2.919375373	0.342539027	3.085895748	1.057039727
71° 05′ 40″	0.94605395	0.32400915	2.919837114	0.342484858	3.086332577	1.057022175
71° 05′ 50″	0.94606965	0.32396329	2.920298986	0.342430691	3.086769536	1.057004625
71° 06′ 00″	0.94608536	0.32391742	2.920760989	0.342376526	3.087206627	1.056987079
71° 06′ 10″	0.94610106	0.32387155	2.921223123	0.342322362	3.087643848	1.056969536
71° 06′ 20″	0.94611676	0.32382568	2.921685388	0.342268200	3.088081201	1.056951996
71° 06′ 30″	0.94613246	0.32377981	2.922147784	0.342214041	3.088518685	1.056934458
71° 06′ 40″	0.94614816	0.32373394	2.922610310	0.342159882	3.088956300	1.056916924
71° 06′ 50″	0.94616385	0.32368807	2.923072968	0.342105726	3.089394047	1.056899393
71° 07′ 00″	0.94617954	0.32364220	2.923535757	0.342051571	3.089831925	1.056881865
71° 07′ 10″	0.94619523	0.32359633	2.923998677	0.341997419	3.090269934	1.056864341
71° 07′ 20″	0.94621092	0.32355045	2.924461729	0.341943268	3.090708075	1.056846819
71° 07′ 30″	0.94622660	0.32350458	2.924924912	0.341889119	3.091146347	1.056829300
71° 07′ 40″	0.94624229	0.32345871	2.925388226	0.341834971	3.091584751	1.056811784
71° 07′ 50″	0.94625797	0.32341283	2.925851671	0.341780826	3.092023286	1.056794272
71° 08′ 00″	0.94627365	0.32336695	2.926315249	0.341726682	3.092461954	1.056776762
71° 08′ 10″	0.94628932	0.32332108	2.926778957	0.341672540	3.092900752	1.056759256
71° 08′ 20″	0.94630500	0.32327520	2.927242798	0.341618400	3.093339683	1.056741752
71° 08′ 30″	0.94632067	0.32322932	2.927706770	0.341564261	3.093778746	1.056724252
71° 08′ 40″	0.94633634	0.32318344	2.928170873	0.341510125	3.094217940	1.056706755
71° 08′ 50″	0.94635200	0.32313756	2.928635109	0.341455990	3.094657267	1.056689260
71° 09′ 00″	0.94636767	0.32309168	2.929099476	0.341401857	3.095096726	1.056671769
71° 09′ 10″	0.94638333	0.32304580	2.929563975	0.341347726	3.095536316	1.056654281
71° 09′ 20″	0.94639899	0.32299992	2.930028606	0.341293596	3.095976039	1.056636796
71° 09′ 30″	0.94641465	0.32295403	2.930493370	0.341239469	3.096415894	1.056619314
71° 09′ 40″	0.94643031	0.32290815	2.930958265	0.341185343	3.096855881	1.056601835
71° 09′ 50″	0.94644596	0.32286226	2.931423292	0.341131219	3.097296001	1.056584359
71° 10′ 00″	0.94646161	0.32281638	2.931888452	0.341077096	3.097736253	1.056566887
71° 10′ 10″	0.94647726	0.32277049	2.932353744	0.341022976	3.098176638	1.056549417
71° 10′ 20″	0.94649291	0.32272461	2.932819168	0.340968857	3.098617155	1.056531950
71° 10′ 30″	0.94650856	0.32267872	2.933284725	0.340914740	3.099057805	1.056514486
71° 10′ 40″	0.94652420	0.32263283	2.933750414	0.340860625	3.099498587	1.056497026
71° 10′ 50″	0.94653984	0.32258694	2.934216235	0.340806512	3.099939502	1.056479568
71° 11′ 00″	0.94655548	0.32254105	2.934682189	0.340752400	3.100380549	1.056462114
71° 11′ 10″	0.94657111	0.32249516	2.935148276	0.340698291	3.100821730	1.056444663
71° 11′ 20″ 71° 11′ 30″	0.94658675	0.32244927	2.935614495	0.340644183	3.101263043	1.056427214
71° 11′ 30″ 71° 11′ 40″	0.94660238	0.32240338	2.936080847	0.340590076	3.101704490	1.056409769
71° 11′ 40″ 71° 11′ 50″	0.94661801	0.32235748 0.32231159	2.936547332 2.937013950	0.340535972	3.102146069 3.102587781	1.056392327 1.056374888
	0.74063364	0.34431139	2.73/013730	0.340481869	3.10438/781	1.0303/4888

534 71° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
71° 12′ 00″	0.94664926	0.32226570	2.937480700	0.340427769	3.103029627	1.056357452
71° 12′ 10″	0.94666488	0.32221980	2.937947584	0.340373670	3.103027027	1.056340019
71° 12′ 20″	0.94668050	0.32217390	2.938414600	0.340319572	3.103913717	1.056322589
71° 12′ 30″	0.94669612	0.32217370	2.938881750	0.340265477	3.104355962	1.056305162
71° 12′ 40″	0.94671174	0.32208211	2.939349033	0.340211383	3.104798341	1.056287738
71° 12′ 50″	0.94672735	0.32203621	2.939816449	0.340157291	3.105240853	1.056270317
71° 13′ 00″	0.94674296	0.32199031	2.940283998	0.340103201	3.105683498	1.056252899
71° 13′ 10″	0.94675857	0.32194441	2.940751681	0.340049113	3.106126277	1.056235485
71° 13′ 20″	0.94677418	0.32189851	2.941219497	0.339995026	3.106569189	1.056218073
71° 13′ 30″	0.94678978	0.32185261	2.941687446	0.339940942	3.107012235	1.056200665
71° 13′ 40″	0.94680539	0.32180671	2.942155529	0.339886859	3.107455415	1.056183259
71° 13′ 50″	0.94682099	0.32176081	2.942623745	0.339832777	3.107898728	1.056165857
71° 14′ 00″	0.94683659	0.32171490	2.943092095	0.339778698	3.108342176	1.056148457
71° 14′ 10″	0.94685218	0.32166900	2.943560579	0.339724620	3.108785757	1.056131061
71° 14′ 20″	0.94686778	0.32162309	2.944029196	0.339670544	3.109229472	1.056113668
71° 14′ 30″	0.94688337	0.32157719	2.944497948	0.339616470	3.109673321	1.056096277
71° 14′ 40″	0.94689896	0.32153128	2.944966833	0.339562398	3.110117304	1.056078890
71° 14′ 50″	0.94691454	0.32148537	2.945435852	0.339508328	3.110561421	1.056061506
71° 15′ 00″	0.94693013	0.32143947	2.945905005	0.339454259	3.111005673	1.056044125
71° 15′ 10″	0.94694571	0.32139356	2.946374292	0.339400192	3.111450058	1.056026747
71° 15′ 20″	0.94696129	0.32134765	2.946843713	0.339346127	3.111894578	1.056009372
71° 15′ 30″	0.94697687	0.32130174	2.947313268	0.339292063	3.112339233	1.055992000
71° 15′ 40″	0.94699245	0.32125583	2.947782957	0.339238002	3.112784021	1.055974631
71° 15′ 50″	0.94700802	0.32120991	2.948252781	0.339183942	3.113228944	1.055957265
71° 16′ 00″	0.94702359	0.32116400	2.948722739	0.339129884	3.113674002	1.055939903
71° 16′ 10″	0.94703916	0.32111809	2.949192831	0.339075828	3.114119194	1.055922543
71° 16′ 20″	0.94705473	0.32107217	2.949663058	0.339021773	3.114564521	1.055905186
71° 16′ 30″	0.94707029	0.32102626	2.950133420	0.338967720	3.115009983	1.055887833
71° 16′ 40″	0.94708586	0.32098034	2.950603916	0.338913669	3.115455579	1.055870482
71° 16′ 50″	0.94710142	0.32093443	2.951074546	0.338859620	3.115901310	1.055853135
71° 17′ 00″	0.94711698	0.32088851	2.951545311	0.338805573	3.116347177	1.055835790
71° 17′ 10″	0.94713253	0.32084259	2.952016211	0.338751527	3.116793178	1.055818449
71° 17′ 20″	0.94714808	0.32079667	2.952487246	0.338697483	3.117239314	1.055801111
71° 17′ 30″	0.94716364	0.32075075	2.952958416	0.338643441	3.117685585	1.055783775
71° 17′ 40″	0.94717919	0.32070483	2.953429720	0.338589401	3.118131991	1.055766443
71° 17′ 50″	0.94719473	0.32065891	2.953901160	0.338535363	3.118578532	1.055749114
71° 18′ 00″	0.94721028	0.32061299	2.954372735	0.338481326	3.119025209	1.055731788
71° 18′ 10″	0.94722582	0.32056707	2.954844444	0.338427291	3.119472021	1.055714465
71° 18′ 20″	0.94724136	0.32052114	2.955316289	0.338373258	3.119918968	1.055697145
71° 18′ 30″	0.94725690	0.32047522	2.955788269	0.338319226	3.120366051	1.055679828
71° 18′ 40″ 71° 18′ 50″	0.94727243 0.94728797	0.32042930 0.32038337	2.956260385 2.956732636	0.338265197 0.338211169	3.120813269 3.121260623	1.055662514 1.055645203
71° 18′ 30″ 71° 19′ 00″	0.94728797	0.32038337	2.957205022	0.338157143	3.121260623	1.055627895
71° 19′ 00″ 71° 19′ 10″	0.94730330	0.32033744	2.957677543	0.338103118	3.121708113	1.055610590
71° 19′ 10′′ 71° 19′ 20′′′	0.94731903	0.32024132	2.958150201	0.338049096	3.122133738	1.055593289
71° 19′ 30″	0.94735008	0.32024339	2.958622993	0.337995075	3.122603477	1.055575990
71° 19′ 40″	0.94736560	0.32017766	2.758622773	0.337941056	3.123031373	1.055558694
71° 19′ 50″	0.94738112	0.32010780	2.959568986	0.337887039	3.123477428	1.055541402
=======================================	0.77730112	0.32010700	2.737300700	0.337007037	3.123/4/3/0	1.033341402

535 71° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
71° 20′ 00″	0.94739664	0.32006187	2.960042186	0.337833023	3.124395900	1.055524112
71° 20′ 10″	0.94741216	0.3200167	2.960515522	0.337779009	3.124844341	1.055506826
71° 20′ 20″	0.94741216	0.31997001	2.960988993	0.337777007	3.125292917	1.055489542
71° 20′ 30″	0.94744318	0.31777001	2.961462601	0.337670987	3.125741630	1.055472262
71° 20′ 40″	0.94745869	0.31772400	2.961936345	0.337616979	3.126190479	1.055454985
71° 20′ 50″	0.94747420	0.31787814	2.962410224	0.337562972	3.126170477	1.055437710
71° 21′ 00″	0.94748970	0.31783221	2.962884240	0.337508967	3.127088585	1.055420439
71° 21′ 10″	0.94750521	0.31974034	2.963358392	0.337454964	3.127537843	1.055403171
71° 21′ 20″	0.94752071	0.31969440	2.963832680	0.337400963	3.127987237	1.055385906
71° 21′ 30″	0.94753621	0.31964846	2.964307105	0.337346963	3.128436768	1.055368643
71° 21′ 40″	0.94755170	0.31960252	2.964781666	0.337292965	3.128886436	1.055351384
71° 21′ 50″	0.94756720	0.31955658	2.965256364	0.337238969	3.129336240	1.055334128
71° 22′ 00″	0.94758269	0.31951064	2.965731198	0.337184975	3.129786181	1.055316875
71° 22′ 10″	0.94759818	0.31946470	2.966206168	0.337130983	3.130236258	1.055299625
71° 22′ 20″	0.94761366	0.31941876	2.966681275	0.337076992	3.130686472	1.055282379
71° 22′ 30″	0.94762915	0.31937282	2.967156519	0.337023003	3.131136824	1.055265135
71° 22′ 40″	0.94764463	0.31932688	2.967631900	0.336969016	3.131587312	1.055247894
71° 22′ 50″	0.94766011	0.31928093	2.968107417	0.336915030	3.132037937	1.055230656
71° 23′ 00″	0.94767559	0.31923499	2.968583071	0.336861047	3.132488699	1.055213421
71° 23′ 10″	0.94769106	0.31918905	2.969058862	0.336807065	3.132939599	1.055196190
71° 23′ 20″	0.94770654	0.31914310	2.969534791	0.336753084	3.133390635	1.055178961
71° 23′ 30″	0.94772201	0.31909715	2.970010856	0.336699106	3.133841809	1.055161735
71° 23′ 40″	0.94773748	0.31905121	2.970487058	0.336645129	3.134293120	1.055144513
71° 23′ 50″	0.94775295	0.31900526	2.970963398	0.336591154	3.134744569	1.055127293
71° 24′ 00″	0.94776841	0.31895931	2.971439875	0.336537181	3.135196155	1.055110077
71° 24′ 10″	0.94778387	0.31891336	2.971916489	0.336483210	3.135647878	1.055092864
71° 24′ 20″	0.94779933	0.31886741	2.972393240	0.336429240	3.136099739	1.055075653
71° 24′ 30″	0.94781479	0.31882146	2.972870129	0.336375273	3.136551738	1.055058446
71° 24′ 40″	0.94783025	0.31877551	2.973347155	0.336321307	3.137003874	1.055041241
71° 24′ 50″	0.94784570	0.31872955	2.973824319	0.336267342	3.137456148	1.055024040
71° 25′ 00″	0.94786115	0.31868360	2.974301621	0.336213380	3.137908560	1.055006842
71° 25′ 10″	0.94787660	0.31863765	2.974779060	0.336159419	3.138361110	1.054989647
71° 25′ 20″	0.94789205	0.31859169	2.975256637	0.336105460	3.138813797	1.054972455
71° 25′ 30″	0.94790749	0.31854574	2.975734352	0.336051503	3.139266623	1.054955266
71° 25′ 40″	0.94792293	0.31849978	2.976212204	0.335997547	3.139719587	1.054938080
71° 25′ 50″	0.94793837	0.31845382	2.976690195	0.335943593	3.140172689	1.054920896
71° 26′ 00″	0.94795381	0.31840787	2.977168323	0.335889641	3.140625929	1.054903717
71° 26′ 10″	0.94796925	0.31836191	2.977646590	0.335835691	3.141079307	1.054886540
71° 26′ 20″	0.94798468	0.31831595	2.978124994	0.335781743	3.141532824	1.054869366
71° 26′ 30″	0.94800011	0.31826999	2.978603537	0.335727796	3.141986478	1.054852195
71° 26′ 40″	0.94801554	0.31822403	2.979082218	0.335673851	3.142440272	1.054835027
71° 26′ 50″	0.94803097	0.31817807	2.979561037	0.335619908	3.142894204	1.054817862
71° 27′ 00″ 71° 27′ 10″	0.94804639	0.31813210	2.980039995	0.335565966	3.143348274	1.054800700
71° 27′ 10″ 71° 27′ 20″	0.94806182	0.31808614	2.980519091	0.335512026	3.143802483	1.054783542
71° 27′ 20″ 71° 27′ 30″	0.94807724 0.94809265	0.31804018 0.31799421	2.980998326 2.981477699	0.335458088 0.335404152	3.144256831 3.144711317	1.054766386 1.054749233
71° 27′ 40″	0.94809265	0.31799421	2.981957211	0.335350218	3.144711317	1.054749233
71° 27′ 50″	0.94812348	0.31794823	2.982436861	0.335296285	3.145163742	1.054732084
=======================================	0./4012340	0.317/0220	2.702730001	0.3334/0403	3.173020707	1,037/14/3/

536 71° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
71° 28′ 00″	0.94813889	0.31785632	2.982916650	0.335242354	3.146075610	1.054697794
71° 28′ 00″ 71° 28′ 10″	0.94815430	0.31783632	2.983396578	0.335188425	3.146530652	
71° 28′ 10″ 71° 28′ 20″	0.94816971	0.31761033	2.765576576	0.335134498	3.146985833	1.054680653 1.054663516
71° 28′ 30″					3.147441153	
71° 28′ 40″	0.94818511	0.31771841	2.984356850	0.335080572		1.054646381
71° 28′ 40″ 71° 28′ 50″	0.94820052	0.31767244	2.984837195	0.335026648	3.147896612	1.054629250
71° 28′ 50″ 71° 29′ 00″	0.94821592	0.31762647	2.985317679	0.334972726	3.148352211	1.054612122 1.054594996
71° 29′ 00″ 71° 29′ 10″	0.94823131	0.31758050	2.985798301 2.986279063	0.334918805	3.148807949 3.149263826	
71° 29′ 10″ 71° 29′ 20″	0.94824671	0.31753453		0.334864887		1.054577874
71° 29′ 30″	0.94826210	0.31748855	2.986759965	0.334810970	3.149719842	1.054560755 1.054543639
	0.94827750	0.31744258	2.987241005	0.334757055	3.150175999	
71° 29′ 40″	0.94829288	0.31739661	2.987722185	0.334703141	3.150632294	1.054526525
71° 29′ 50″	0.94830827	0.31735063	2.988203504	0.334649229	3.151088730	1.054509415
71° 30′ 00″	0.94832366	0.31730466	2.988684963	0.334595320	3.151545305	1.054492308
71° 30′ 10″	0.94833904	0.31725868	2.989166561	0.334541411	3.152002019	1.054475204
71° 30′ 20″	0.94835442	0.31721270	2.989648299	0.334487505	3.152458874	1.054458103
71° 30′ 30″	0.94836980	0.31716672	2.990130176	0.334433600	3.152915868	1.054441005
71° 30′ 40″	0.94838517	0.31712075	2.990612194	0.334379697	3.153373003	1.054423910
71° 30′ 50″	0.94840054	0.31707477	2.991094351	0.334325796	3.153830277	1.054406818
71° 31′ 00″	0.94841592	0.31702879	2.991576648	0.334271897	3.154287691	1.054389729
71° 31′ 10″	0.94843128	0.31698281	2.992059084	0.334217999	3.154745246	1.054372643
71° 31′ 20″	0.94844665	0.31693682	2.992541661	0.334164103	3.155202940	1.054355560
71° 31′ 30″	0.94846202	0.31689084	2.993024378	0.334110209	3.155660775	1.054338481
71° 31′ 40″	0.94847738	0.31684486	2.993507235	0.334056316	3.156118750	1.054321404
71° 31′ 50″	0.94849274	0.31679887	2.993990232	0.334002426	3.156576866	1.054304330
71° 32′ 00″	0.94850810	0.31675289	2.994473370	0.333948537	3.157035122	1.054287259
71° 32′ 10″	0.94852345	0.31670691	2.994956647	0.333894649	3.157493519	1.054270192
71° 32′ 20″ 71° 32′ 30″	0.94853880	0.31666092	2.995440065	0.333840764	3.157952056	1.054253127
71° 32′ 30″ 71° 32′ 40″	0.94855415	0.31661493	2.995923624	0.333786880	3.158410733	1.054236065
71° 32′ 40″ 71° 32′ 50″	0.94856950	0.31656894	2.996407323	0.333732998	3.158869552	1.054219007
71° 32′ 50″ 71° 33′ 00″	0.94858485	0.31652296 0.31647697	2.996891162	0.333679118	3.159328511	1.054201951
71° 33′ 00″ 71° 33′ 10″			2.997375143	0.333625240	3.159787611	1.054184899
71° 33′ 10″ 71° 33′ 20″	0.94861554 0.94863088	0.31643098 0.31638499	2.997859263 2.998343525	0.333571363	3.160246852	1.054167849
71° 33′ 30″	0.94864621	0.31633900	2.998827927	0.333517488 0.333463615	3.160706233 3.161165756	1.054150803 1.054133759
71° 33′ 40″	0.94866155	0.31633700	2.999312471	0.333409743	3.161625420	1.054116719
71° 33′ 50″	0.94867688	0.31624701	2.999797155	0.333355873	3.162085225	1.054099681
71° 34′ 00″	0.94869221	0.31624701	3.000281980	0.333302005	3.162063223	1.054099681
71° 34′ 10″					3.162343171	
71° 34′ 10″	0.94870754	0.31615502	3.000766946	0.333248139	3.163005257	1.054065616 1.054048587
71° 34′ 30″	0.94872287	0.31610903	3.001252054	0.333194274 0.333140411		1.054046367
71° 34′ 30″ 71° 34′ 40″	0.94873819	0.31606303	3.001737302		3.163925857	
71° 34′ 40″ 71° 34′ 50″	0.94875352	0.31601704	3.002222692	0.333086550	3.164386369	1.054014540
71° 34′ 50″ 71° 35′ 00″	0.94876884	0.31597104	3.002708223	0.333032691	3.164847022	1.053997521
71° 35′ 00″ 71° 35′ 10″	0.94878415	0.31592504	3.003193896	0.332978833	3.165307817	1.053980504
71° 35′ 10″ 71° 35′ 20″	0.94879947	0.31587904	3.003679710	0.332924978 0.332871123	3.165768753	1.053963491
71° 35′ 20″ 71° 35′ 30″		0.31583304	3.004165665		3.166229831	1.053946481
71° 35′ 30″ 71° 35′ 40″	0.94883009	0.31578704 0.31574104	3.004651762 3.005138001	0.332817271 0.332763420	3.166691051 3.167152413	1.053929474 1.053912470
71° 35′ 40″ 71° 35′ 50″	0.94886071	0.31574104	3.005624381	0.332763420	3.167132413	1.053912470
71 33 30°°	U.74000U/ I	0.31367304	3.003024301	0.334/073/2	3.10/013716	1.033073407

537 71° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
71° 36′ 00″	0.94887601	0.31564904	3.006110903	0.332655724	3.168075562	1.053878471
71° 36′ 10″	0.94889131	0.31560303	3.006597568	0.332601879	3.168537349	1.053861476
71° 36′ 20″	0.94890661	0.31555703	3.007084373	0.332548035	3.168999279	1.053844484
71° 36′ 30″	0.94892191	0.31551103	3.007571321	0.332494193	3.169461351	1.053827495
71° 36′ 40″	0.94893721	0.31546502	3.008058411	0.332440353	3.169923565	1.053827473
71° 36′ 50″	0.94895250	0.31541901	3.008545643	0.332386514	3.170385921	1.053793526
71° 37′ 00″	0.94896779	0.31537301	3.009033017	0.332332678	3.170848419	1.053776546
71° 37′ 10″	0.94898308	0.31532700	3.009520534	0.332278843	3.171311060	1.053759569
71° 37′ 20″	0.94899837	0.31528099	3.010008192	0.332225009	3.171773844	1.053742595
71° 37′ 30″	0.94901365	0.31523498	3.010495993	0.332171178	3.172236770	1.053725624
71° 37′ 40″	0.94902893	0.31518897	3.010983937	0.332117348	3.172699839	1.053708657
71° 37′ 50″	0.94904421	0.31514296	3.011472023	0.332063520	3.173163050	1.053691692
71° 38′ 00″	0.94905949	0.31509695	3.011960251	0.332009694	3.173626404	1.053674730
71° 38′ 10″	0.94907476	0.31505094	3.012448622	0.331955869	3.174089901	1.053657771
71° 38′ 20″	0.94909004	0.31500492	3.012937136	0.331902046	3.174553541	1.053640816
71° 38′ 30″	0.94910531	0.31495891	3.013425792	0.331848225	3.175017324	1.053623863
71° 38′ 40″	0.94912058	0.31491290	3.013914591	0.331794405	3.175481249	1.053606913
71° 38′ 50″	0.94913584	0.31486688	3.014403533	0.331740588	3.175945318	1.053589967
71° 39′ 00″	0.94915111	0.31482087	3.014892618	0.331686772	3.176409530	1.053573023
71° 39′ 10″	0.94916637	0.31477485	3.015381847	0.331632958	3.176873885	1.053556082
71° 39′ 20″	0.94918163	0.31472883	3.015871218	0.331579145	3.177338383	1.053539145
71° 39′ 30″	0.94919688	0.31468281	3.016360732	0.331525334	3.177803025	1.053522210
71° 39′ 40″	0.94921214	0.31463680	3.016850389	0.331471525	3.178267810	1.053505279
71° 39′ 50″	0.94922739	0.31459078	3.017340190	0.331417718	3.178732738	1.053488350
71° 40′ 00″	0.94924264	0.31454476	3.017830134	0.331363912	3.179197810	1.053471425
71° 40′ 10″	0.94925789	0.31449874	3.018320221	0.331310109	3.179663026	1.053454502
71° 40′ 20″	0.94927314	0.31445271	3.018810452	0.331256306	3.180128385	1.053437583
71° 40′ 30″	0.94928838	0.31440669	3.019300826	0.331202506	3.180593888	1.053420666
71° 40′ 40″	0.94930362	0.31436067	3.019791344	0.331148707	3.181059535	1.053403753
71° 40′ 50″	0.94931886	0.31431464	3.020282006	0.331094910	3.181525325	1.053386842
71° 41′ 00″	0.94933410	0.31426862	3.020772811	0.331041115	3.181991260	1.053369935
71° 41′ 10″	0.94934934	0.31422259	3.021263760	0.330987322	3.182457338	1.053353031
71° 41′ 20″	0.94936457	0.31417657	3.021754853	0.330933530	3.182923561	1.053336129
71° 41′ 30″	0.94937980	0.31413054	3.022246090	0.330879740	3.183389927	1.053319231
71° 41′ 40″	0.94939503	0.31408451	3.022737471	0.330825952	3.183856438	1.053302336
71° 41′ 50″	0.94941025	0.31403849	3.023228996	0.330772165	3.184323093	1.053285443
71° 42′ 00″	0.94942548	0.31399246	3.023720665	0.330718380	3.184789892	1.053268554
71° 42′ 10″	0.94944070	0.31394643	3.024212478	0.330664597	3.185256836	1.053251668
71° 42′ 20″	0.94945592	0.31390040	3.024704435	0.330610816	3.185723924	1.053234785
71° 42′ 30″	0.94947114	0.31385436	3.025196537	0.330557036	3.186191157	1.053217904
71° 42′ 40″	0.94948635	0.31380833	3.025688783	0.330503258	3.186658534	1.053201027
71° 42′ 50″	0.94950156	0.31376230	3.026181173	0.330449482	3.187126055	1.053184153
71° 43′ 00″ 71° 43′ 10″	0.94951677 0.94953198	0.31371627	3.026673708	0.330395707	3.187593722	1.053167282
71° 43′ 10″ 71° 43′ 20″		0.31367023	3.027166388	0.330341934	3.188061533 3.188529489	1.053150414
71° 43′ 20″ 71° 43′ 30″	0.94954719 0.94956239	0.31362420 0.31357816	3.027659212 3.028152181	0.330288163 0.330234394	3.188529489	1.053133548 1.053116686
71° 43′ 30″ 71° 43′ 40″	0.94956239	0.31357816	3.028645294	0.330180626	3.189465836	1.053116686
71° 43′ 40″ 71° 43′ 50″	0.94957759	0.31333212	3.028643294	0.330126860	3.189934227	1.053099827
	0.74737217	0.31340007	3.04/130333	0.330120000	3.10//3444/	1.033004771

538 71° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
71° 44′ 00″	0.94960799	0.31344005	3.029631956	0.330073096	3.190402763	1.053066118
71° 44′ 10″	0.94962319	0.31339401	3.030125505	0.330019334	3.190871444	1.053049268
71° 44′ 20″	0.94963838	0.31334797	3.030619198	0.329965573	3.191340271	1.053032421
71° 44′ 30″	0.94965357	0.31330193	3.031113036	0.329911814	3.191809242	1.053015577
71° 44′ 40″	0.94966876	0.31325589	3.031607020	0.329858057	3.192278359	1.052998736
71° 44′ 50″	0.94968394	0.31320985	3.032101149	0.329804301	3.192747622	1.052981898
71° 45′ 00″	0.94969913	0.31316381	3.032595423	0.329750547	3.193217030	1.052965063
71° 45′ 10″	0.94971431	0.31311776	3.033089843	0.329696795	3.193686583	1.052948231
71° 45′ 20″	0.94972949	0.31307172	3.033584407	0.329643045	3.194156283	1.052931402
71° 45′ 30″	0.94974466	0.31302568	3.034079118	0.329589296	3.194626127	1.052914576
71° 45′ 40″	0.94975984	0.31297963	3.034573974	0.329535549	3.195096118	1.052897753
71° 45′ 50″	0.94977501	0.31293358	3.035068976	0.329481804	3.195566254	1.052880933
71° 46′ 00″	0.94979018	0.31288754	3.035564123	0.329428060	3.196036537	1.052864116
71° 46′ 10″	0.94980535	0.31284149	3.036059416	0.329374318	3.196506965	1.052847302
71° 46′ 20″	0.94982052	0.31279544	3.036554855	0.329320578	3.196977539	1.052830491
71° 46′ 30″	0.94983568	0.31274939	3.037050440	0.329266840	3.197448260	1.052813683
71° 46′ 40″	0.94985084	0.31270334	3.037546170	0.329213103	3.197919126	1.052796878
71° 46′ 50″	0.94986600	0.31265729	3.038042047	0.329159368	3.198390139	1.052780077
71° 47′ 00″	0.94988116	0.31261124	3.038538070	0.329105635	3.198861298	1.052763278
71° 47′ 10″	0.94989631	0.31256519	3.039034239	0.329051903	3.199332603	1.052746482
71° 47′ 20″	0.94991146	0.31251914	3.039530554	0.328998173	3.199804055	1.052729689
71° 47′ 30″	0.94992661	0.31247308	3.040027016	0.328944445	3.200275653	1.052712899
71° 47′ 40″	0.94994176	0.31242703	3.040523624	0.328890719	3.200747398	1.052696112
71° 47′ 50″	0.94995691	0.31238097	3.041020378	0.328836994	3.201219290	1.052679328
71° 48′ 00″	0.94997205	0.31233492	3.041517279	0.328783271	3.201691328	1.052662548
71° 48′ 10″	0.94998719	0.31228886	3.042014327	0.328729550	3.202163513	1.052645770
71° 48′ 20″	0.95000233	0.31224281	3.042511521	0.328675830	3.202635845	1.052628995
71° 48′ 30″	0.95001747	0.31219675	3.043008861	0.328622112	3.203108323	1.052612223
71° 48′ 40″	0.95003260	0.31215069	3.043506349	0.328568396	3.203580949	1.052595455
71° 48′ 50″	0.95004774	0.31210463	3.044003983	0.328514682	3.204053721	1.052578689
71° 49′ 00″	0.95006287	0.31205857	3.044501765	0.328460969	3.204526641	1.052561926
71° 49′ 10″	0.95007799	0.31201251	3.044999693	0.328407258	3.204999708	1.052545166
71° 49′ 20″	0.95009312	0.31196645	3.045497768	0.328353549	3.205472922	1.052528410
71° 49′ 30″	0.95010824	0.31192039	3.045995990	0.328299841	3.205946284	1.052511656
71° 49′ 40″		0.31187432	3.046494360	0.328246135	3.206419792	1.052494905
71° 49′ 50″ 71° 50′ 00″	0.95013848	0.31182826	3.046992877	0.328192431	3.206893449	1.052478157
71° 50′ 00″ 71° 50′ 10″	0.95015360	0.31178219	3.047491541	0.328138729	3.207367252	1.052461413
71° 50′ 10″ 71° 50′ 20″	0.95016871	0.31173613	3.047990352	0.328085028	3.207841204	1.052444671
71° 50′ 20″ 71° 50′ 30″	0.95018383	0.31169006	3.048489311 3.048988418	0.328031329	3.208315302 3.208789549	1.052427932
71° 50′ 30″ 71° 50′ 40″		0.31164400	3.048788418	0.327977632		1.052411197
71° 50′ 40″ 71° 50′ 50″	0.95021404 0.95022915	0.31159793 0.31155186	3.049487671	0.327923936 0.327870242	3.209263943 3.209738486	1.052394464 1.052377734
71° 51′ 00″	0.95024425	0.31150579	3.047787073	0.327816550	3.210213176	1.052377734
71° 51′ 10″	0.95025935	0.31130377	3.050486822	0.327762859	3.210213176	1.052361008
71° 51′ 20″	0.75025735	0.31141365	3.051486165	0.327762637	3.211163000	1.052327563
71° 51′ 30″	0.95028955	0.31136758	3.051486163	0.327655483	3.211638134	1.052327363
71° 51′ 40″	0.95030464	0.31136736	3.052486298	0.327633463	3.211030134	1.052310848
71° 51′ 50″	0.95031974	0.31132131	3.052986587	0.327548114	3.212588847	1.052274131
	0.73031774	0.5112/577	3.032700307	5.5 <u>2</u> 1 5 7 011 9	J,212JUUUT/	1.0322// 171/

539 71° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
71° 52′ 00″	0.95033483	0.31122936	3.053487024	0.327494432	3.213064426	1.052260711
71° 52′ 10″	0.95034991	0.31118329	3.053987609	0.327440752	3.213540154	1.052244005
71° 52′ 20″	0.95036500	0.31113722	3.054488343	0.327387074	3.214016029	1.052227302
71° 52′ 30″	0.95038008	0.31109114	3.054989225	0.327333397	3.214492054	1.052210603
71° 52′ 40″	0.95039516	0.31104506	3.055490255	0.327279722	3.214968227	1.052193906
71° 52′ 50″	0.95041024	0.31099899	3.055991434	0.327226048	3.215444548	1.052177213
71° 53′ 00″	0.95042532	0.31095291	3.056492761	0.327172376	3.215921018	1.052160522
71° 53′ 10″	0.95044039	0.31090683	3.056994237	0.327118706	3.216397638	1.052143834
71° 53′ 20″	0.95045547	0.31086075	3.057495861	0.327065038	3.216874405	1.052127150
71° 53′ 30″	0.95047054	0.31081467	3.057997634	0.327011371	3.217351322	1.052110468
71° 53′ 40″	0.95048560	0.31076859	3.058499556	0.326957706	3.217828388	1.052093789
71° 53′ 50″	0.95050067	0.31072251	3.059001627	0.326904043	3.218305603	1.052077114
71° 54′ 00″	0.95051573	0.31067643	3.059503847	0.326850382	3.218782967	1.052060441
71° 54′ 10″	0.95053079	0.31063035	3.060006216	0.326796722	3.219260480	1.052043772
71° 54′ 20″	0.95054585	0.31058426	3.060508734	0.326743064	3.219738143	1.052027105
71° 54′ 30″	0.95056091	0.31053818	3.061011401	0.326689407	3.220215955	1.052010441
71° 54′ 40″	0.95057596	0.31049209	3.061514217	0.326635752	3.220693916	1.051993781
71° 54′ 50″	0.95059101	0.31044601	3.062017183	0.326582099	3.221172027	1.051977123
71° 55′ 00″	0.95060606	0.31039992	3.062520297	0.326528448	3.221650287	1.051960469
71° 55′ 10″	0.95062111	0.31035384	3.063023562	0.326474798	3.222128697	1.051943817
71° 55′ 20″	0.95063616	0.31030775	3.063526976	0.326421151	3.222607257	1.051927168
71° 55′ 30″	0.95065120	0.31026166	3.064030539	0.326367504	3.223085966	1.051910523
71° 55′ 40″	0.95066624	0.31021557	3.064534252	0.326313860	3.223564825	1.051893880
71° 55′ 50″	0.95068128	0.31016948	3.065038115	0.326260217	3.224043834	1.051877241
71° 56′ 00″	0.95069631	0.31012339	3.065542127	0.326206576	3.224522993	1.051860604
71° 56′ 10″	0.95071135	0.31007730	3.066046289	0.326152936	3.225002302	1.051843970
71° 56′ 20″	0.95072638	0.31003121	3.066550602	0.326099298	3.225481761	1.051827340
71° 56′ 30″	0.95074141	0.30998511	3.067055064	0.326045662	3.225961371	1.051810712
71° 56′ 40″	0.95075644	0.30993902	3.067559676	0.325992028	3.226441130	1.051794087
71° 56′ 50″	0.95077146	0.30989293	3.068064438	0.325938395	3.226921040	1.051777466
71° 57′ 00″	0.95078649	0.30984683	3.068569351	0.325884764	3.227401100	1.051760847
71° 57′ 10″	0.95080151	0.30980073	3.069074414	0.325831135	3.227881311	1.051744232
71° 57′ 20″	0.95081653	0.30975464	3.069579627	0.325777508	3.228361672	1.051727619
71° 57′ 30″	0.95083154	0.30970854	3.070084990	0.325723882	3.228842184	1.051711009
71° 57′ 40″	0.95084656	0.30966244	3.070590504	0.325670257	3.229322846	1.051694403
71° 57′ 50″	0.95086157	0.30961634	3.071096169	0.325616635	3.229803659	1.051677799
71° 58′ 00″	0.95087658	0.30957024	3.071601984	0.325563014	3.230284623	1.051661198
71° 58′ 10″	0.95089158	0.30952414	3.072107950	0.325509395	3.230765738	1.051644601
71° 58′ 20″	0.95090659	0.30947804	3.072614066	0.325455778	3.231247004	1.051628006
71° 58′ 30″	0.95092159	0.30943194	3.073120333	0.325402162	3.231728421	1.051611414
71° 58′ 40″	0.95093659	0.30938584	3.073626752	0.325348548	3.232209988	1.051594826
71° 58′ 50″	0.95095159	0.30933974	3.074133321	0.325294935	3.232691707	1.051578240
71° 59′ 00″	0.95096659	0.30929363	3.074640041	0.325241325	3.233173577	1.051561657
71° 59′ 10″	0.95098158	0.30924753	3.075146912	0.325187716	3.233655599	1.051545078
71° 59′ 20″	0.95099657	0.30920142	3.075653935	0.325134108	3.234137772	1.051528501
71° 59′ 30″	0.95101156	0.30915532	3.076161108	0.325080503	3.234620096	1.051511927
71° 59′ 40″	0.95102655	0.30910921	3.076668433	0.325026899	3.235102571	1.051495357
71° 59′ 50″	0.95104153	0.30906310	3.077175909	0.324973297	3.235585199	1.051478789

540 71° 59′ 50″

<u> </u>	sin(x)	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\csc(x)$
72° 00′ 00″	0.95105652	0.30901699	3.077683537	0.324919696	3.236067977	1.051462224
72° 00′ 10″	0.95107150	0.30897089	3.078191316	0.324866097	3.236550908	1.051445663
72° 00′ 20″	0.95108647	0.30892478	3.078699247	0.324812500	3.237033990	1.051429104
72° 00′ 30″	0.95110145	0.30887867	3.079207330	0.324758905	3.237517225	1.051412548
72° 00′ 40″	0.95111642	0.30883255	3.079715564	0.324705311	3.238000611	1.051395995
72° 00′ 50″	0.95113140	0.30878644	3.080223950	0.324651719	3.238484149	1.051379446
72° 01′ 00″	0.95114637	0.30874033	3.080732488	0.324598129	3.238967839	1.051362899
72° 01′ 10″	0.95116133	0.30869422	3.081241178	0.324544540	3.239451681	1.051346355
72° 01′ 20″	0.95117630	0.30864810	3.081750019	0.324490953	3.239935676	1.051329814
72° 01′ 30″	0.95119126	0.30860199	3.082259013	0.324437367	3.240419822	1.051313277
72° 01′ 40″	0.95120622	0.30855587	3.082768159	0.324383784	3.240904121	1.051296742
72° 01′ 50″	0.95122118	0.30850976	3.083277457	0.324330202	3.241388573	1.051280210
72° 02′ 00″	0.95123613	0.30846364	3.083786908	0.324276622	3.241873177	1.051263681
72° 02′ 10″	0.95125109	0.30841752	3.084296511	0.324223043	3.242357933	1.051247155
72° 02′ 20″	0.95126604	0.30837140	3.084806266	0.324169466	3.242842842	1.051230632
72° 02′ 30″	0.95128099	0.30832528	3.085316174	0.324115891	3.243327904	1.051214113
72° 02′ 40″	0.95129594	0.30827917	3.085826234	0.324062317	3.243813118	1.051197596
72° 02′ 50″	0.95131088	0.30823304	3.086336447	0.324008745	3.244298486	1.051181082
72° 03′ 00″	0.95132582	0.30818692	3.086846813	0.323955175	3.244784006	1.051164571
72° 03′ 10″	0.95134076	0.30814080	3.087357331	0.323901607	3.245269679	1.051148063
72° 03′ 20″	0.95135570	0.30809468	3.087868002	0.323848040	3.245755505	1.051131558
72° 03′ 30″	0.95137064	0.30804856	3.088378827	0.323794475	3.246241485	1.051115056
72° 03′ 40″	0.95138557	0.30800243	3.088889804	0.323740911	3.246727617	1.051098558
72° 03′ 50″	0.95140050	0.30795631	3.089400934	0.323687350	3.247213903	1.051082062
72° 04′ 00″	0.95141543	0.30791018	3.089912218	0.323633789	3.247700342	1.051065569
72° 04′ 10″	0.95143036	0.30786405	3.090423654	0.323580231	3.248186935	1.051049079
72° 04′ 20″	0.95144528	0.30781793	3.090935244	0.323526674	3.248673681	1.051032592
72° 04′ 30″	0.95146020	0.30777180	3.091446987	0.323473119	3.249160580	1.051016108
72° 04′ 40″	0.95147512	0.30772567	3.091958884	0.323419566	3.249647633	1.050999627
72° 04′ 50″	0.95149004	0.30767954	3.092470934	0.323366014	3.250134840	1.050983149
72° 05′ 00″	0.95150496	0.30763341	3.092983138	0.323312464	3.250622201	1.050966674
72° 05′ 10″	0.95151987	0.30758728	3.093495495	0.323258916	3.251109715	1.050950202
72° 05′ 20″ 72° 05′ 30″	0.95153478	0.30754115 0.30749502	3.094008007	0.323205369	3.251597383	1.050933733
72° 05′ 30″ 72° 05′ 40″	0.95154969	0.30744889	3.094520671 3.095033490	0.323151824 0.323098281	3.252085206 3.252573182	1.050917267 1.050900804
72° 05′ 50″	0.95157950	0.30744889	3.095546463		3.253061312	1.050900804
72° 06′ 00″	0.95159440	0.30740273	3.096059589	0.323044739 0.322991199	3.253549597	1.050867886
72° 06′ 10″	0.95160930	0.30733062	3.076037387	0.322937661	3.254038036	1.050857888
72° 06′ 20″	0.95162420	0.30731048	3.076372870	0.322884124	3.254526629	1.050834981
72° 06′ 30″	0.75162420	0.30721821	3.097599894	0.322830590	3.255015377	1.050834781
72° 06′ 40″	0.95165399	0.30721821	3.098113637	0.322777056	3.255504279	1.050802088
72° 06′ 50″	0.75165377	0.30717207	3.098627535	0.322777036	3.255993335	1.050802088
72° 07′ 00″	0.95168377	0.30712374	3.099141587	0.322669995	3.256482547	1.050769207
72° 07′ 10″	0.75168377	0.30707780	3.099655794	0.322616467	3.256971912	1.050752770
72° 07′ 20″	0.95171354	0.30698752	3.100170155	0.322562940	3.257461433	1.050736337
72° 07′ 30″	0.75171334	0.30694138	3.100684670	0.322509415	3.257951109	1.050730337
72° 07′ 40″	0.95174330	0.30689524	3.101199341	0.322455892	3.258440939	1.050703480
72° 07′ 50″	0.95175818	0.30684909	3.101714166	0.322402371	3.258930924	1.050687055
	1,701,70010		2.1.2.7.11100	1.022 1020/ 1	3.2007.507.21	

541 72° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
72° 08′ 00″	0.95177306	0.30680295	3.102229146	0.322348851	3.259421065	1.050670634
72° 08′ 10″	0.75177300	0.30675681	3.102744281	0.322295333	3.257421063	1.050670634
72° 08′ 20″	0.75176773	0.30671066	3.102744281	0.322241816	3.260401811	1.050637801
72° 08′ 30″	0.75180280	0.30666452	3.103237372	0.322188301	3.260892417	1.050621388
72° 08′ 40″	0.95183253	0.30661837	3.104290617	0.322134788	3.261383178	1.050604979
72° 08′ 50″	0.95184740	0.30657223	3.104806373	0.322081277	3.261874095	1.050588573
72° 09′ 00″	0.95186226	0.30652608	3.105322283	0.322027767	3.262365167	1.050572169
72° 09′ 10″	0.95187712	0.30647993	3.105838350	0.321974259	3.262856395	1.050555769
72° 09′ 20″	0.95189198	0.30643378	3.106354571	0.321920752	3.263347778	1.050539371
72° 09′ 30″	0.95190683	0.30638763	3.106870948	0.321867247	3.263839317	1.050522977
72° 09′ 40″	0.95192169	0.30634148	3.107387481	0.321813744	3.264331012	1.050506585
72° 09′ 50″	0.95193654	0.30629533	3.107904169	0.321760243	3.264822863	1.050490197
72° 10′ 00″	0.95195139	0.30624918	3.108421013	0.321706743	3.265314869	1.050473811
72° 10′ 10″	0.95196623	0.30620303	3.108938013	0.321653245	3.265807032	1.050457429
72° 10′ 20″	0.95198108	0.30615687	3.109455169	0.321599748	3.266299351	1.050441049
72° 10′ 30″	0.95199592	0.30611072	3.109972481	0.321546254	3.266791826	1.050424673
72° 10′ 40″	0.95201076	0.30606457	3.110489949	0.321492760	3.267284457	1.050408299
72° 10′ 50″	0.95202559	0.30601841	3.111007572	0.321439269	3.267777244	1.050391929
72° 11′ 00″	0.95204043	0.30597226	3.111525352	0.321385779	3.268270187	1.050375561
72° 11′ 10″	0.95205526	0.30592610	3.112043289	0.321332291	3.268763288	1.050359196
72° 11′ 20″	0.95207009	0.30587994	3.112561381	0.321278805	3.269256544	1.050342835
72° 11′ 30″	0.95208492	0.30583378	3.113079630	0.321225320	3.269749957	1.050326476
72° 11′ 40″	0.95209975	0.30578762	3.113598035	0.321171837	3.270243527	1.050310120
72° 11′ 50″	0.95211457	0.30574147	3.114116597	0.321118355	3.270737254	1.050293768
72° 12′ 00″	0.95212939	0.30569530	3.114635316	0.321064876	3.271231137	1.050277418
72° 12′ 10″	0.95214421	0.30564914	3.115154191	0.321011397	3.271725177	1.050261071
72° 12′ 20″	0.95215903	0.30560298	3.115673223	0.320957921	3.272219374	1.050244727
72° 12′ 30″	0.95217384	0.30555682	3.116192412	0.320904446	3.272713728	1.050228386
72° 12′ 40″	0.95218866	0.30551066	3.116711758	0.320850973	3.273208240	1.050212049
72° 12′ 50″	0.95220347	0.30546449	3.117231260	0.320797502	3.273702908	1.050195714
72° 13′ 00″	0.95221828	0.30541833	3.117750920	0.320744032	3.274197734	1.050179382
72° 13′ 10″	0.95223308	0.30537216	3.118270737	0.320690564	3.274692716	1.050163053
72° 13′ 20″	0.95224789	0.30532600	3.118790711	0.320637097	3.275187857	1.050146727
72° 13′ 30″	0.95226269	0.30527983	3.119310842	0.320583632	3.275683155	1.050130404
72° 13′ 40″	0.95227749	0.30523366	3.119831131	0.320530169	3.276178610	1.050114084
72° 13′ 50″	0.95229228	0.30518750	3.120351577	0.320476708	3.276674223	1.050097767
72° 14′ 00″	0.95230708	0.30514133	3.120872180	0.320423248	3.277169993	1.050081453
72° 14′ 10″	0.95232187	0.30509516	3.121392941	0.320369790	3.277665922	1.050065142
72° 14′ 20″	0.95233666	0.30504899	3.121913860	0.320316333	3.278162008	1.050048834
72° 14′ 30″	0.95235145	0.30500282	3.122434936	0.320262878	3.278658252	1.050032529
72° 14′ 40″	0.95236623	0.30495664	3.122956171	0.320209425	3.279154654	1.050016227
72° 14′ 50″	0.95238102	0.30491047	3.123477563	0.320155974	3.279651214	1.049999927
72° 15′ 00″	0.95239580	0.30486430	3.123999113	0.320102524	3.280147932	1.049983631
72° 15′ 10″	0.95241058	0.30481813 0.30477195	3.124520821	0.320049075	3.280644808	1.049967338
72° 15′ 20″ 72° 15′ 30″	0.95242536	0.30477195	3.125042687 3.125564711	0.319995629 0.319942184	3.281141843 3.281639036	1.049951048 1.049934760
72° 15′ 30″ 72° 15′ 40″	0.95244013	0.30472378	3.125564711	0.319942184	3.282136387	1.049934760
72° 15′ 40″ 72° 15′ 50″	0.95245490	0.30467960	3.126086894	0.319835299	3.282633897	1.049918476
=======================================	0.73240707	0.30403342	3.120007234	0.31/033477	3.20203307/	1.04//04173

542 72° 15′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
72° 16′ 00″	0.95248444	0.30458725	3.127131733	0.319781859	3.283131566	1.049885916
72° 16′ 10″	0.95249921	0.30454107	3.127654391	0.319728421	3.283629393	1.049869641
72° 16′ 20″	0.95251397	0.30449489	3.128177207	0.319674984	3.284127379	1.049853369
72° 16′ 30″	0.95252873	0.30444871	3.128700182	0.319621549	3.284625523	1.049837099
72° 16′ 40″	0.95254349	0.30440253	3.129223315	0.319568116	3.285123827	1.049820833
72° 16′ 50″	0.95255825	0.30435635	3.129746608	0.319514685	3.285622289	1.049804569
72° 17′ 00″	0.95257300	0.30431017	3.130270059	0.319461255	3.286120911	1.049788309
72° 17′ 10″	0.95258775	0.30426398	3.130793669	0.319407826	3.286619691	1.049772051
72° 17′ 20″	0.95260250	0.30421780	3.131317437	0.319354400	3.287118631	1.049755797
72° 17′ 30″	0.95261725	0.30417162	3.131841365	0.319300975	3.287617730	1.049739545
72° 17′ 40″	0.95263200	0.30412543	3.132365452	0.319247551	3.288116988	1.049723296
72° 17′ 50″	0.95264674	0.30407925	3.132889699	0.319194129	3.288616406	1.049707051
72° 18′ 00″	0.95266148	0.30403306	3.133414104	0.319140709	3.289115983	1.049690808
72° 18′ 10″	0.95267622	0.30398687	3.133938669	0.319087291	3.289615719	1.049674568
72° 18′ 20″	0.95269096	0.30394069	3.134463393	0.319033874	3.290115616	1.049658332
72° 18′ 30″	0.95270569	0.30389450	3.134988277	0.318980459	3.290615672	1.049642098
72° 18′ 40″	0.95272042	0.30384831	3.135513321	0.318927046	3.291115887	1.049625867
72° 18′ 50″	0.95273515	0.30380212	3.136038524	0.318873634	3.291616263	1.049609639
72° 19′ 00″	0.95274988	0.30375593	3.136563886	0.318820224	3.292116798	1.049593414
72° 19′ 10″	0.95276461	0.30370974	3.137089409	0.318766815	3.292617494	1.049577192
72° 19′ 20″	0.95277933	0.30366355	3.137615092	0.318713408	3.293118349	1.049560973
72° 19′ 30″	0.95279405	0.30361736	3.138140934	0.318660003	3.293619365	1.049544757
72° 19′ 40″	0.95280877	0.30357116	3.138666936	0.318606600	3.294120541	1.049528544
72° 19′ 50″	0.95282349	0.30352497	3.139193099	0.318553198	3.294621877	1.049512334
72° 20′ 00″	0.95283820	0.30347877	3.139719422	0.318499797	3.295123374	1.049496127
72° 20′ 10″	0.95285291	0.30343258	3.140245905	0.318446399	3.295625031	1.049479923
72° 20′ 20″	0.95286762	0.30338638	3.140772548	0.318393002	3.296126848	1.049463722
72° 20′ 30″	0.95288233	0.30334019	3.141299352	0.318339607	3.296628826	1.049447524
72° 20′ 40″	0.95289703	0.30329399	3.141826316	0.318286213	3.297130965	1.049431329
72° 20′ 50″	0.95291174	0.30324779	3.142353441	0.318232821	3.297633264	1.049415136
72° 21′ 00″	0.95292644	0.30320159	3.142880726	0.318179431	3.298135725	1.049398947
72° 21′ 10″	0.95294114	0.30315539	3.143408172	0.318126042	3.298638346	1.049382761
72° 21′ 20″	0.95295583	0.30310919	3.143935779	0.318072655	3.299141128	1.049366577
72° 21′ 30″	0.95297053	0.30306299	3.144463547	0.318019269	3.299644071	1.049350397
72° 21′ 40″	0.95298522	0.30301679	3.144991476	0.317965886	3.300147176	1.049334220
72° 21′ 50″	0.95299991	0.30297059	3.145519565	0.317912504	3.300650441	1.049318045
72° 22′ 00″	0.95301459	0.30292438	3.146047816	0.317859123	3.301153868	1.049301874
72° 22′ 10″	0.95302928	0.30287818	3.146576228	0.317805744	3.301657456	1.049285705
72° 22′ 20″	0.95304396	0.30283198	3.147104801	0.317752367	3.302161206	1.049269540
72° 22′ 30″	0.95305864	0.30278577	3.147633536	0.317698992	3.302665117	1.049253377
72° 22′ 40″	0.95307332	0.30273956	3.148162432	0.317645618	3.303169190	1.049237217
72° 22′ 50″	0.95308800	0.30269336	3.148691489	0.317592245	3.303673424	1.049221061
72° 23′ 00″ 72° 23′ 10″	0.95310267 0.95311734	0.30264715 0.30260094	3.149220708	0.317538875	3.304177820	1.049204907
72° 23′ 10″ 72° 23′ 20″			3.149750089	0.317485506	3.304682378	1.049188756
72° 23′ 20″ 72° 23′ 30″	0.95313201	0.30255473 0.30250852	3.150279631	0.317432138	3.305187098	1.049172609
72° 23′ 30″ 72° 23′ 40″	0.95314668		3.150809335	0.317378773	3.305691980	1.049156464
72° 23′ 50″	0.95316134 0.95317601	0.30246231 0.30241610	3.151339201 3.151869229	0.317325409 0.317272046	3.306197024 3.306702230	1.049140322 1.049124183
	0.73317601	0.30241010	3.13100/227	0.317272040	3.300702230	1.04/124103

543 72° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
72° 24′ 00″	0.95319067	0.30236989	3.152399419	0.317218686	3.307207598	1.049108047
72° 24′ 10″	0.95320533	0.30232368	3.152929771	0.317165326	3.307713128	1.049091914
72° 24′ 20″	0.95321998	0.30227747	3.153460285	0.317111969	3.308218821	1.049075784
72° 24′ 30″	0.95323464	0.30223125	3.153990961	0.317058613	3.308724676	1.049059657
72° 24′ 40″	0.95324929	0.30218504	3.154521800	0.317005259	3.309230694	1.049043533
72° 24′ 50″	0.95326394	0.30213882	3.155052801	0.316951906	3.309736874	1.049027412
72° 25′ 00″	0.95327858	0.30209261	3.155583964	0.316898555	3.310243217	1.049011294
72° 25′ 10″	0.95329323	0.30204639	3.156115290	0.316845206	3.310749723	1.048995179
72° 25′ 20″	0.95330787	0.30200017	3.156646779	0.316791859	3.311256391	1.048979066
72° 25′ 30″	0.95332251	0.30195395	3.157178430	0.316738513	3.311763222	1.048962957
72° 25′ 40″	0.95333715	0.30190774	3.157710244	0.316685168	3.312270217	1.048946851
72° 25′ 50″	0.95335178	0.30186152	3.158242222	0.316631826	3.312777374	1.048930747
72° 26′ 00″	0.95336642	0.30181530	3.158774361	0.316578484	3.313284694	1.048914647
72° 26′ 10″	0.95338105	0.30176907	3.159306664	0.316525145	3.313792178	1.048898550
72° 26′ 20″	0.95339568	0.30172285	3.159839130	0.316471807	3.314299825	1.048882455
72° 26′ 30″	0.95341031	0.30167663	3.160371760	0.316418471	3.314807635	1.048866364
72° 26′ 40″	0.95342493	0.30163041	3.160904552	0.316365136	3.315315609	1.048850275
72° 26′ 50″	0.95343955	0.30158418	3.161437508	0.316311804	3.315823746	1.048834190
72° 27′ 00″	0.95345417	0.30153796	3.161970627	0.316258472	3.316332047	1.048818107
72° 27′ 10″	0.95346879	0.30149173	3.162503910	0.316205143	3.316840512	1.048802027
72° 27′ 20″	0.95348341	0.30144551	3.163037356	0.316151815	3.317349140	1.048785950
72° 27′ 30″	0.95349802	0.30139928	3.163570966	0.316098488	3.317857932	1.048769877
72° 27′ 40″	0.95351263	0.30135306	3.164104739	0.316045164	3.318366888	1.048753806
72° 27′ 50″	0.95352724	0.30130683	3.164638677	0.315991841	3.318876008	1.048737738
72° 28′ 00″	0.95354185	0.30126060	3.165172778	0.315938519	3.319385292	1.048721673
72° 28′ 10″	0.95355645	0.30121437	3.165707043	0.315885199	3.319894740	1.048705611
72° 28′ 20″	0.95357105	0.30116814	3.166241472	0.315831881	3.320404352	1.048689552
72° 28′ 30″	0.95358565	0.30112191	3.166776066	0.315778564	3.320914129	1.048673496
72° 28′ 40″	0.95360025	0.30107568	3.167310823	0.315725250	3.321424070	1.048657443
72° 28′ 50″	0.95361485	0.30102944	3.167845745	0.315671936	3.321934175	1.048641393
72° 29′ 00″	0.95362944	0.30098321	3.168380831	0.315618625	3.322444445	1.048625346
72° 29′ 10″	0.95364403	0.30093698	3.168916081	0.315565315	3.322954879	1.048609302
72° 29′ 20″	0.95365862	0.30089074	3.169451496	0.315512006	3.323465478	1.048593261
72° 29′ 30″	0.95367320	0.30084451	3.169987076	0.315458699	3.323976242	1.048577222
72° 29′ 40″	0.95368779	0.30079827	3.170522820	0.315405394	3.324487171	1.048561187
72° 29′ 50″	0.95370237	0.30075204	3.171058729	0.315352091	3.324998265	1.048545155
72° 30′ 00″	0.95371695	0.30070580	3.171594802	0.315298789	3.325509523	1.048529125
72° 30′ 10″	0.95373153	0.30065956	3.172131041	0.315245489	3.326020947	1.048513099
72° 30′ 20″	0.95374610	0.30061332	3.172667444	0.315192190	3.326532536	1.048497075
72° 30′ 30″	0.95376068	0.30056708	3.173204013	0.315138893	3.327044290	1.048481055
72° 30′ 40″ 72° 30′ 50″	0.95377525	0.30052084	3.173740747	0.315085598	3.327556209	1.048465037
72° 30′ 50″ 72° 31′ 00″	0.95378982	0.30047460	3.174277646	0.315032304	3.328068294	1.048449022
72° 31′ 00″ 72° 31′ 10″	0.95380438	0.30042836	3.174814710	0.314979012	3.328580544 3.329092960	1.048433011 1.048417002
72° 31′ 10″ 72° 31′ 20″	0.95381895	0.30038212	3.175351939 3.175889334	0.314925721		1.048417002
72° 31′ 20″ 72° 31′ 30″	0.95383351 0.95384807	0.30033588 0.30028963		0.314872432	3.329605542	
72° 31′ 30″ 72° 31′ 40″	0.95384807	0.30028963	3.176426895 3.176964621	0.314819145 0.314765860	3.330118289 3.330631202	1.048384993 1.048368993
72° 31′ 50″	0.95387718	0.30024337	3.176764621	0.314763660	3.331144280	1.048352997
=======================================	0.73307710	0.30017/14	3.11/302312	0.314/123/0	J.JJ114440U	1.040334777

544 72° 31′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
72° 32′ 00″	0.95389173	0.30015090	3.178040570	0.314659293	3.331657525	1.048337003
72° 32′ 10″	0.95390628	0.30010465	3.178578793	0.314606013	3.332170936	1.048321012
72° 32′ 20″	0.95392083	0.30005841	3.179117182	0.314552734	3.332684512	1.048305023
72° 32′ 30″	0.95393538	0.30001216	3.179655738	0.314499456	3.333198255	1.048289038
72° 32′ 40″	0.95394992	0.29996591	3.180194459	0.314446180	3.333712165	1.048273056
72° 32′ 50″	0.95396446	0.29991966	3.180733346	0.314392906	3.334226240	1.048257077
72° 33′ 00″	0.95397900	0.29987341	3.181272400	0.314339633	3.334740482	1.048241101
72° 33′ 10″	0.95399354	0.29982716	3.181811620	0.314286362	3.335254890	1.048225127
72° 33′ 20″	0.95400807	0.29978091	3.182351006	0.314233093	3.335769465	1.048209157
72° 33′ 30″	0.95402261	0.29973466	3.182890559	0.314179825	3.336284207	1.048193190
72° 33′ 40″	0.95403714	0.29968840	3.183430278	0.314126559	3.336799115	1.048177225
72° 33′ 50″	0.95405167	0.29964215	3.183970164	0.314073295	3.337314191	1.048161264
72° 34′ 00″	0.95406619	0.29959590	3.184510217	0.314020032	3.337829433	1.048145305
72° 34′ 10″	0.95408072	0.29954964	3.185050436	0.313966771	3.338344842	1.048129349
72° 34′ 20″	0.95409524	0.29950339	3.185590823	0.313913511	3.338860418	1.048113397
72° 34′ 30″	0.95410976	0.29945713	3.186131376	0.313860253	3.339376161	1.048097447
72° 34′ 40″	0.95412427	0.29941087	3.186672096	0.313806997	3.339892071	1.048081500
72° 34′ 50″	0.95413879	0.29936462	3.187212983	0.313753742	3.340408149	1.048065556
72° 35′ 00″	0.95415330	0.29931836	3.187754038	0.313700489	3.340924394	1.048049616
72° 35′ 10″	0.95416781	0.29927210	3.188295260	0.313647237	3.341440806	1.048033678
72° 35′ 20″	0.95418232	0.29922584	3.188836649	0.313593987	3.341957387	1.048017743
72° 35′ 30″	0.95419682	0.29917958	3.189378205	0.313540739	3.342474134	1.048001811
72° 35′ 40″	0.95421133	0.29913332	3.189919930	0.313487493	3.342991049	1.047985882
72° 35′ 50″	0.95422583	0.29908705	3.190461821	0.313434247	3.343508133	1.047969955
72° 36′ 00″	0.95424033	0.29904079	3.191003880	0.313381004	3.344025383	1.047954032
72° 36′ 10″	0.95425483	0.29899453	3.191546108	0.313327762	3.344542802	1.047938112
72° 36′ 20″	0.95426932	0.29894827	3.192088502	0.313274522	3.345060389	1.047922195
72° 36′ 30″	0.95428381	0.29890200	3.192631065	0.313221284	3.345578144	1.047906280
72° 36′ 40″	0.95429830	0.29885574	3.193173796	0.313168047	3.346096067	1.047890369
72° 36′ 50″	0.95431279	0.29880947	3.193716695	0.313114811	3.346614159	1.047874461
72° 37′ 00″	0.95432728	0.29876320	3.194259762	0.313061578	3.347132418	1.047858555
72° 37′ 10″	0.95434176	0.29871693	3.194802997	0.313008345	3.347650847	1.047842652
72° 37′ 20″	0.95435624	0.29867067	3.195346401	0.312955115	3.348169443	1.047826753
72° 37′ 30″	0.95437072	0.29862440	3.195889973	0.312901886	3.348688208	1.047810856
72° 37′ 40″	0.95438520	0.29857813	3.196433713	0.312848659	3.349207142	1.047794962
72° 37′ 50″	0.95439967	0.29853186	3.196977622	0.312795433	3.349726245	1.047779072
72° 38′ 00″	0.95441414	0.29848559	3.197521699	0.312742209	3.350245516	1.047763184
72° 38′ 10″	0.95442861	0.29843932	3.198065946	0.312688987	3.350764956	1.047747299
72° 38′ 20″	0.95444308	0.29839304	3.198610361	0.312635766	3.351284566	1.047731417
72° 38′ 30″	0.95445754	0.29834677	3.199154945	0.312582547	3.351804344	1.047715538
72° 38′ 40″	0.95447201	0.29830050	3.199699698	0.312529329	3.352324291	1.047699662
72° 38′ 50″	0.95448647	0.29825422	3.200244620	0.312476113	3.352844408	1.047683789
72° 39′ 00″	0.95450093	0.29820795	3.200789711	0.312422899	3.353364694	1.047667919
72° 39′ 10″	0.95451538	0.29816167	3.201334971	0.312369686	3.353885149	1.047652051
72° 39′ 20″	0.95452984	0.29811539	3.201880400	0.312316475	3.354405774	1.047636187
72° 39′ 30″	0.95454429	0.29806912	3.202425999	0.312263265	3.354926569	1.047620326
72° 39′ 40″	0.95455874	0.29802284	3.202971768	0.312210058	3.355447533	1.047604467
72° 39′ 50″	0.95457319	0.29797656	3.203517705	0.312156851	3.355968666	1.047588612

545 72° 39′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
72° 40′ 00″	0.95458763	0.29793028	3.204063813	0.312103647	3.356489970	1.047572759
72° 40′ 10″	0.75456763	0.27773028	3.204610090	0.312103647	3.357011443	1.047572739
72° 40′ 10″	0.75460208	0.29783772	3.205156537	0.312030444	3.357533086	1.047541063
72° 40′ 30″	0.75461632	0.29779144	3.205703154	0.311944042	3.358054900	1.047541063
72° 40′ 40″	0.75463073	0.29774516	3.206249940	0.311890844	3.358576883	1.047523217
72° 40′ 50″	0.75464537	0.27774316	3.206247740	0.311837647	3.359099037	1.047493541
72° 41′ 00″	0.95467426	0.29765259	3.206776677	0.311784452	3.359621361	1.047473341
72° 41′ 10″	0.95468869	0.29760631	3.207891321	0.311731259	3.360143855	1.047477706
72° 41′ 10″	0.75466667	0.29756002	3.208438788	0.311/31237	3.360666520	1.047446045
72° 41′ 30″	0.75470311	0.29751374	3.208986426	0.311624877	3.361189355	1.047446043
72° 41′ 40″	0.75471734	0.29746745	3.209534234	0.311571688	3.361712361	1.047430217
72° 41′ 50″	0.75473176	0.29742116	3.210082213	0.311518501	3.362235538	1.047414376
72° 42′ 00″	0.75474636	0.29737487	3.210630362	0.311465316	3.362758885	1.047378378
72° 42′ 10″	0.75476080	0.27737467	3.211178681	0.311412132	3.363282403	1.047366944
72° 42′ 20″	0.75477322	0.27732837	3.211778081	0.311358950	3.363806092	1.047351133
72° 42′ 30″	0.75478783	0.27728230	3.212275833	0.311305769	3.364329953	1.047331133
72° 42′ 40″	0.95481845	0.27723001	3.212824666	0.311252590	3.364853984	1.047333323
72° 42′ 50″	0.75483286	0.27710772	3.212324669	0.311199413	3.365378186	1.047303717
72° 43′ 00″	0.75483286	0.27714342	3.213973007	0.311146237	3.365902560	1.047287917
72° 43′ 10″	0.75486166	0.27707713	3.214472189	0.311140237	3.366427105	1.047272120
72° 43′ 20″	0.75487606	0.27703064	3.215021706	0.311039891	3.366951822	1.047256327
72° 43′ 30″	0.75487000	0.27700433	3.215571394	0.310986720	3.367476710	1.047240536
72° 43′ 40″	0.75490486	0.27673623	3.216121253	0.310733750	3.368001769	1.047224748
72° 43′ 50″	0.95491925	0.29686566	3.216671285	0.310880383	3.368527000	1.047208963
72° 44′ 00″	0.95493364	0.29681937	3.217221487	0.310827217	3.369052404	1.047193181
72° 44′ 10″	0.95494803	0.29677307	3.217771861	0.310774052	3.369577978	1.047177402
72° 44′ 20″	0.95496242	0.29672677	3.218322408	0.310720889	3.370103725	1.047161626
72° 44′ 30″	0.95497680	0.29668047	3.218873125	0.310667728	3.370629644	1.047145853
72° 44′ 40″	0.95499119	0.29663417	3.219424015	0.310614568	3.371155735	1.047130083
72° 44′ 50″	0.95500557	0.29658788	3.219975077	0.310561410	3.371681998	1.047114315
72° 45′ 00″	0.95501994	0.29654157	3.220526311	0.310508253	3.372208433	1.047098551
72° 45′ 10″	0.95503432	0.29649527	3.221077717	0.310455099	3.372735041	1.047082790
72° 45′ 20″	0.95504869	0.29644897	3.221629295	0.310401945	3.373261821	1.047067031
72° 45′ 30″	0.95506306	0.29640267	3.222181046	0.310348794	3.373788774	1.047051276
72° 45′ 40″	0.95507743	0.29635637	3.222732969	0.310295643	3.374315899	1.047035523
72° 45′ 50″	0.95509180	0.29631006	3.223285064	0.310242495	3.374843197	1.047019773
72° 46′ 00″	0.95510616	0.29626376	3.223837332	0.310189348	3.375370668	1.047004027
72° 46′ 10″	0.95512053	0.29621745	3.224389773	0.310136203	3.375898311	1.046988283
72° 46′ 20″	0.95513489	0.29617115	3.224942386	0.310083059	3.376426128	1.046972542
72° 46′ 30″	0.95514924	0.29612484	3.225495173	0.310029917	3.376954117	1.046956804
72° 46′ 40″	0.95516360	0.29607853	3.226048132	0.309976776	3.377482280	1.046941069
72° 46′ 50″	0.95517795	0.29603223	3.226601264	0.309923637	3.378010615	1.046925337
72° 47′ 00″	0.95519230	0.29598592	3.227154570	0.309870500	3.378539124	1.046909608
72° 47′ 10″	0.95520665	0.29593961	3.227708048	0.309817364	3.379067807	1.046893882
72° 47′ 20″	0.95522100	0.29589330	3.228261700	0.309764230	3.379596663	1.046878158
72° 47′ 30″	0.95523534	0.29584699	3.228815525	0.309711098	3.380125692	1.046862438
72° 47′ 40″	0.95524968	0.29580068	3.229369523	0.309657967	3.380654895	1.046846721
72° 47′ 50″	0.95526402	0.29575436	3.229923695	0.309604837	3.381184271	1.046831006
	1 22.22.02		· -			

546 72° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
72° 48′ 00″	0.95527836	0.29570805	3.230478041	0.309551710	3.381713822	1.046815295
72° 48′ 10″	0.95529270	0.29566174	3.231032560	0.309498583	3.382243546	1.046799586
72° 48′ 20″	0.95530703	0.29561542	3.231587253	0.309445459	3.382773444	1.046783880
72° 48′ 30″	0.95532136	0.29556911	3.232142120	0.309392336	3.383303516	1.046768178
72° 48′ 40″	0.95533569	0.29552279	3.232697160	0.309339214	3.383833762	1.046752478
72° 48′ 50″	0.95535002	0.29547648	3.233252375	0.309286095	3.384364183	1.046736781
72° 49′ 00″	0.95536434	0.29543016	3.233807764	0.309232976	3.384894777	1.046721087
72° 49′ 10″	0.95537866	0.29538384	3.234363327	0.309179860	3.385425546	1.046705396
72° 49′ 20″	0.95539298	0.29533752	3.234919064	0.309126745	3.385956490	1.046689708
72° 49′ 30″	0.95540730	0.29529120	3.235474976	0.309073631	3.386487608	1.046674023
72° 49′ 40″	0.95542161	0.29524488	3.236031062	0.309020520	3.387018901	1.046658340
72° 49′ 50″	0.95543593	0.29519856	3.236587322	0.308967409	3.387550368	1.046642661
72° 50′ 00″	0.95545024	0.29515224	3.237143757	0.308914301	3.388082010	1.046626985
72° 50′ 10″	0.95546454	0.29510592	3.237700367	0.308861194	3.388613827	1.046611311
72° 50′ 20″	0.95547885	0.29505960	3.238257152	0.308808088	3.389145819	1.046595641
72° 50′ 30″	0.95549315	0.29501327	3.238814111	0.308754984	3.389677986	1.046579973
72° 50′ 40″	0.95550746	0.29496695	3.239371246	0.308701882	3.390210328	1.046564309
72° 50′ 50″	0.95552176	0.29492063	3.239928555	0.308648781	3.390742845	1.046548647
72° 51′ 00″	0.95553605	0.29487430	3.240486040	0.308595682	3.391275538	1.046532988
72° 51′ 10″	0.95555035	0.29482797	3.241043699	0.308542585	3.391808406	1.046517332
72° 51′ 20″	0.95556464	0.29478165	3.241601534	0.308489489	3.392341449	1.046501679
72° 51′ 30″	0.95557893	0.29473532	3.242159545	0.308436394	3.392874668	1.046486029
72° 51′ 40″	0.95559322	0.29468899	3.242717730	0.308383302	3.393408062	1.046470382
72° 51′ 50″	0.95560750	0.29464266	3.243276092	0.308330210	3.393941633	1.046454738
72° 52′ 00″	0.95562179	0.29459633	3.243834629	0.308277121	3.394475379	1.046439097
72° 52′ 10″	0.95563607	0.29455000	3.244393341	0.308224033	3.395009301	1.046423458
72° 52′ 20″	0.95565035	0.29450367	3.244952230	0.308170947	3.395543399	1.046407823
72° 52′ 30″	0.95566462	0.29445734	3.245511294	0.308117862	3.396077673	1.046392191
72° 52′ 40″	0.95567890	0.29441101	3.246070534	0.308064778	3.396612123	1.046376561
72° 52′ 50″	0.95569317	0.29436468	3.246629951	0.308011697	3.397146749	1.046360935
72° 53′ 00″	0.95570744	0.29431834	3.247189543	0.307958617	3.397681552	1.046345311
72° 53′ 10″	0.95572171	0.29427201	3.247749312	0.307905538	3.398216531	1.046329690
72° 53′ 20″ 72° 53′ 30″	0.95573597	0.29422567	3.248309257	0.307852461	3.398751687	1.046314072
72° 53′ 40″	0.95575024 0.95576450	0.29417934 0.29413300	3.248869378 3.249429676	0.307799386 0.307746312	3.399287019 3.399822527	1.046298457 1.046282845
72° 53′ 40″ 72° 53′ 50″	0.95577876	0.29413300	3.249429676	0.307746312	3.400358213	1.046262845
72° 54′ 00″	0.95579301	0.29404033	3.250550801	0.307640170	3.400338213	1.046257236
72° 54′ 10″	0.95580727	0.27404033	3.251111629	0.307587101	3.401430115	1.046236027
72° 54′ 20″	0.75580727	0.27377377	3.251672634	0.307534033	3.401966331	1.046220427
72° 54′ 30″	0.75582152	0.27374763	3.252233815	0.307480967	3.402502724	1.046204830
72° 54′ 40″	0.95585002	0.29385497	3.252795174	0.307427903	3.403039295	1.046189235
72° 54′ 50″	0.95586426	0.29380863	3.253356709	0.307374841	3.403576043	1.046173644
72° 55′ 00″	0.95587851	0.29376228	3.253918422	0.307321780	3.404112968	1.046158055
72° 55′ 10″	0.95589275	0.29371594	3.254480312	0.307321780	3.404650070	1.046142469
72° 55′ 20″	0.95590699	0.29366960	3.255042379	0.307215662	3.405187350	1.046126887
72° 55′ 30″	0.95592122	0.29362325	3.255604624	0.307162606	3.405724808	1.046111307
72° 55′ 40″	0.95593546	0.29357691	3.256167047	0.307109551	3.406262444	1.046095730
72° 55′ 50″	0.95594969	0.29353056	3.256729646	0.307056498	3.406800257	1.046080156
	1 2227 17.07	3.2.00000	2.200.270.0	1.00.000170	223300207	

547 72° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
72° 56′ 00″	0.95596392	0.29348422	3.257292424	0.307003446	3.407338248	1.046064585
72° 56′ 10″	0.95597815	0.29343787	3.257855379	0.306950396	3.407876417	1.046049017
72° 56′ 20″	0.95599237	0.29339152	3.258418513	0.306897348	3.408414764	1.046033452
72° 56′ 30″	0.95600659	0.29334518	3.258981824	0.306844301	3.408953289	1.046017889
72° 56′ 40″	0.95602081	0.29329883	3.259545313	0.306791256	3.409491992	1.046002330
72° 56′ 50″	0.95603503	0.29325248	3.260108980	0.306738212	3.410030874	1.045986774
72° 57′ 00″	0.95604925	0.29320613	3.260672826	0.306685170	3.410569934	1.045971220
72° 57′ 10″	0.95606346	0.29315978	3.261236850	0.306632130	3.411109173	1.045955670
72° 57′ 20″	0.95607767	0.29311342	3.261801052	0.306579091	3.411648590	1.045940122
72° 57′ 30″	0.95609188	0.29306707	3.262365432	0.306526053	3.412188186	1.045924577
72° 57′ 40″	0.95610609	0.29302072	3.262929992	0.306473017	3.412727960	1.045909035
72° 57′ 50″	0.95612030	0.29297437	3.263494730	0.306419983	3.413267914	1.045893497
72° 58′ 00″	0.95613450	0.29292801	3.264059646	0.306366950	3.413808046	1.045877961
72° 58′ 10″	0.95614870	0.29288166	3.264624742	0.306313919	3.414348357	1.045862427
72° 58′ 20″	0.95616290	0.29283530	3.265190016	0.306260890	3.414888847	1.045846897
72° 58′ 30″	0.95617709	0.29278894	3.265755469	0.306207862	3.415429517	1.045831370
72° 58′ 40″	0.95619129	0.29274259	3.266321102	0.306154836	3.415970366	1.045815846
72° 58′ 50″	0.95620548	0.29269623	3.266886913	0.306101811	3.416511394	1.045800324
72° 59′ 00″	0.95621967	0.29264987	3.267452904	0.306048788	3.417052601	1.045784806
72° 59′ 10″	0.95623385	0.29260351	3.268019074	0.305995766	3.417593988	1.045769290
72° 59′ 20″	0.95624804	0.29255715	3.268585424	0.305942746	3.418135555	1.045753778
72° 59′ 30″	0.95626222	0.29251079	3.269151953	0.305889727	3.418677302	1.045738268
72° 59′ 40″	0.95627640	0.29246443	3.269718662	0.305836711	3.419219228	1.045722761
72° 59′ 50″	0.95629058	0.29241807	3.270285550	0.305783695	3.419761334	1.045707257
73° 00′ 00″	0.95630476	0.29237170	3.270852618	0.305730681	3.420303620	1.045691756
73° 00′ 10″	0.95631893	0.29232534	3.271419867	0.305677669	3.420846086	1.045676258
73° 00′ 20″	0.95633310	0.29227898	3.271987295	0.305624659	3.421388732	1.045660763
73° 00′ 30″	0.95634727	0.29223261	3.272554903	0.305571650	3.421931559	1.045645271
73° 00′ 40″	0.95636144	0.29218625	3.273122691	0.305518642	3.422474565	1.045629782
73° 00′ 50″	0.95637560	0.29213988	3.273690660	0.305465636	3.423017753	1.045614295
73° 01′ 00″	0.95638976	0.29209351	3.274258808	0.305412632	3.423561120	1.045598812
73° 01′ 10″	0.95640392	0.29204715	3.274827138	0.305359629	3.424104669	1.045583331
73° 01′ 20″	0.95641808	0.29200078	3.275395647	0.305306628	3.424648397	1.045567854
73° 01′ 30″	0.95643224	0.29195441	3.275964338	0.305253628	3.425192307	1.045552379
73° 01′ 40″	0.95644639	0.29190804	3.276533209	0.305200630	3.425736398	1.045536907
73° 01′ 50″	0.95646054	0.29186167	3.277102260	0.305147634	3.426280669	1.045521438
73° 02′ 00″	0.95647469	0.29181530	3.277671493	0.305094639	3.426825122	1.045505973
73° 02′ 10″	0.95648884	0.29176893	3.278240906	0.305041645	3.427369755	1.045490509
73° 02′ 20″	0.95650298	0.29172256	3.278810501	0.304988654	3.427914570	1.045475049
73° 02′ 30″	0.95651712	0.29167618	3.279380277	0.304935663	3.428459566	1.045459592
73° 02′ 40″	0.95653126	0.29162981	3.279950233	0.304882675	3.429004744	1.045444138
73° 02′ 50″	0.95654540	0.29158344	3.280520372	0.304829688	3.429550103	1.045428686
73° 03′ 00″	0.95655953	0.29153706	3.281090691	0.304776702	3.430095643	1.045413238
73° 03′ 10″	0.95657367	0.29149068	3.281661192	0.304723718	3.430641366	1.045397792
73° 03′ 20″	0.95658780	0.29144431	3.282231875	0.304670736	3.431187270	1.045382350
73° 03′ 30″	0.95660193	0.29139793	3.282802739	0.304617755	3.431733355	1.045366910
73° 03′ 40″	0.95661605	0.29135155	3.283373785	0.304564776	3.432279623	1.045351473
73° 03′ 50″	0.95663018	0.29130518	3.283945013	0.304511798	3.432826073	1.045336039

548 73° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
73° 04′ 00″	0.95664430	0.29125880	3.284516422	0.304458822	3.433372705	1.045320608
73° 04′ 10″	0.95665842	0.29121242	3.285088014	0.304405847	3.433919519	1.045305180
73° 04′ 20″	0.95667254	0.29116604	3.285659788	0.304352874	3.434466515	1.045289755
73° 04′ 30″	0.95668665	0.29111965	3.286231744	0.304299903	3.435013694	1.045274333
73° 04′ 40″	0.95670076	0.29107327	3.286803882	0.304246933	3.435561055	1.045258913
73° 04′ 50″	0.95671487	0.29102689	3.287376203	0.304193965	3.436108598	1.045243497
73° 05′ 00″	0.95672898	0.29098051	3.287948706	0.304140998	3.436656325	1.045228083
73° 05′ 10″	0.95674309	0.29093412	3.288521392	0.304088033	3.437204234	1.045212673
73° 05′ 20″	0.95675719	0.29088774	3.289094260	0.304035069	3.437752325	1.045197265
73° 05′ 30″	0.95677129	0.29084135	3.289667311	0.303982107	3.438300600	1.045181860
73° 05′ 40″	0.95678539	0.29079497	3.290240545	0.303929146	3.438849058	1.045166459
73° 05′ 50″	0.95679949	0.29074858	3.290813962	0.303876187	3.439397699	1.045151060
73° 06′ 00″	0.95681358	0.29070219	3.291387561	0.303823230	3.439946523	1.045135663
73° 06′ 10″	0.95682768	0.29065581	3.291961344	0.303770274	3.440495530	1.045120270
73° 06′ 20″	0.95684177	0.29060942	3.292535310	0.303717320	3.441044721	1.045104880
73° 06′ 30″	0.95685585	0.29056303	3.293109459	0.303664367	3.441594095	1.045089493
73° 06′ 40″	0.95686994	0.29051664	3.293683792	0.303611416	3.442143652	1.045074108
73° 06′ 50″	0.95688402	0.29047025	3.294258308	0.303558466	3.442693393	1.045058727
73° 07′ 00″	0.95689811	0.29042386	3.294833008	0.303505518	3.443243318	1.045043348
73° 07′ 10″	0.95691218	0.29037746	3.295407891	0.303452572	3.443793427	1.045027973
73° 07′ 20″	0.95692626	0.29033107	3.295982958	0.303399627	3.444343720	1.045012600
73° 07′ 30″	0.95694034	0.29028468	3.296558209	0.303346684	3.444894196	1.044997230
73° 07′ 40″	0.95695441	0.29023828	3.297133644	0.303293742	3.445444857	1.044981863
73° 07′ 50″	0.95696848	0.29019189	3.297709262	0.303240802	3.445995702	1.044966499
73° 08′ 00″	0.95698255	0.29014549	3.298285065	0.303187863	3.446546731	1.044951138
73° 08′ 10″	0.95699661	0.29009910	3.298861052	0.303134926	3.447097945	1.044935779
73° 08′ 20″	0.95701067	0.29005270	3.299437223	0.303081990	3.447649343	1.044920424
73° 08′ 30″	0.95702474	0.29000630	3.300013579	0.303029056	3.448200925	1.044905072
73° 08′ 40″	0.95703879	0.28995990	3.300590119	0.302976124	3.448752692	1.044889722
73° 08′ 50″	0.95705285	0.28991351	3.301166844	0.302923193	3.449304644	1.044874376
73° 09′ 00″	0.95706691	0.28986711	3.301743753	0.302870263	3.449856781	1.044859032
73° 09′ 10″	0.95708096	0.28982071	3.302320847	0.302817336	3.450409103	1.044843691
73° 09′ 20″	0.95709501	0.28977430	3.302898126	0.302764409	3.450961609	1.044828353
73° 09′ 30″	0.95710905	0.28972790	3.303475589	0.302711485	3.451514301	1.044813018
73° 09′ 40″	0.95712310	0.28968150	3.304053238	0.302658561	3.452067178	1.044797686
73° 09′ 50″	0.95713714	0.28963510	3.304631072	0.302605640	3.452620240	1.044782357
73° 10′ 00″	0.95715118	0.28958869	3.305209091	0.302552720	3.453173487	1.044767031
73° 10′ 10″	0.95716522	0.28954229	3.305787295	0.302499801	3.453726920	1.044751707
73° 10′ 20″	0.95717926	0.28949588	3.306365684	0.302446884	3.454280539	1.044736387
73° 10′ 30″	0.95719329	0.28944948	3.306944260	0.302393969	3.454834343	1.044721069
73° 10′ 40″	0.95720732	0.28940307	3.307523020	0.302341055	3.455388333	1.044705755
73° 10′ 50″	0.95722135	0.28935667	3.308101966	0.302288143	3.455942508	1.044690443
73° 11′ 00″	0.95723538	0.28931026	3.308681098	0.302235232	3.456496870	1.044675134
73° 11′ 10″	0.95724941	0.28926385	3.309260416	0.302182323	3.457051417	1.044659828
73° 11′ 20″	0.95726343	0.28921744	3.309839920	0.302129415	3.457606151	1.044644525
73° 11′ 30″ 73° 11′ 40″	0.95727745	0.28917103	3.310419610	0.302076509	3.458161071	1.044629225
73° 11′ 40″ 73° 11′ 50″	0.95729147 0.95730548	0.28912462 0.28907821	3.310999485 3.311579547	0.302023605 0.301970702	3.458716177 3.459271469	1.044613928 1.044598633
13 II 30 ·	0.73730348	0.4070/041	3.3113/734/	0.3017/0/02	3.4374/1407	1.044370033

549 73° 11′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
73° 12′ 00″	0.95731950	0.28903180	3.312159796	0.301917800	3.459826948	1.044583342
73° 12′ 10″	0.95733351	0.28898538	3.312740230	0.301864900	3.460382614	1.044568053
73° 12′ 20″	0.75733331	0.28893897	3.313320852	0.301812002	3.460938466	1.044552768
73° 12′ 30″	0.95736153	0.28889256	3.313901659	0.301759105	3.461494505	1.044537485
73° 12′ 40″	0.95737553	0.28884614	3.314482654	0.301706210	3.462050731	1.044522205
73° 12′ 50″	0.95738953	0.28879973	3.315063835	0.301653316	3.462607143	1.044506928
73° 13′ 00″	0.95740353	0.28875331	3.315645203	0.301600424	3.463163743	1.044491654
73° 13′ 10″	0.95741753	0.28870690	3.316226758	0.301547534	3.463720530	1.044476383
73° 13′ 20″	0.95743153	0.28866048	3.316808500	0.301494645	3.464277504	1.044461115
73° 13′ 30″	0.95744552	0.28861406	3.317390429	0.301441757	3.464834665	1.044445850
73° 13′ 40″	0.95745951	0.28856764	3.317972545	0.301388871	3.465392014	1.044430587
73° 13′ 50″	0.95747350	0.28852122	3.318554849	0.301335987	3.465949550	1.044415328
73° 14′ 00″	0.95748749	0.28847480	3.319137340	0.301283104	3.466507274	1.044400071
73° 14′ 10″	0.95750147	0.28842838	3.319720018	0.301230223	3.467065185	1.044384817
73° 14′ 20″	0.95751545	0.28838196	3.320302884	0.301177343	3.467623285	1.044369567
73° 14′ 30″	0.95752943	0.28833554	3.320885938	0.301124465	3.468181572	1.044354319
73° 14′ 40″	0.95754341	0.28828912	3.321469180	0.301071588	3.468740047	1.044339074
73° 14′ 50″	0.95755739	0.28824269	3.322052609	0.301018713	3.469298710	1.044323832
73° 15′ 00″	0.95757136	0.28819627	3.322636226	0.300965839	3.469857561	1.044308592
73° 15′ 10″	0.95758533	0.28814984	3.323220032	0.300912967	3.470416600	1.044293356
73° 15′ 20″	0.95759930	0.28810342	3.323804025	0.300860097	3.470975828	1.044278123
73° 15′ 30″	0.95761327	0.28805699	3.324388207	0.300807228	3.471535244	1.044262892
73° 15′ 40″	0.95762723	0.28801057	3.324972577	0.300754360	3.472094849	1.044247665
73° 15′ 50″	0.95764119	0.28796414	3.325557136	0.300701494	3.472654642	1.044232440
73° 16′ 00″	0.95765515	0.28791771	3.326141883	0.300648630	3.473214624	1.044217218
73° 16′ 10″	0.95766911	0.28787128	3.326726819	0.300595767	3.473774795	1.044201999
73° 16′ 20″	0.95768307	0.28782485	3.327311943	0.300542906	3.474335155	1.044186783
73° 16′ 30″	0.95769702	0.28777842	3.327897256	0.300490046	3.474895703	1.044171570
73° 16′ 40″	0.95771097	0.28773199	3.328482759	0.300437188	3.475456441	1.044156360
73° 16′ 50″	0.95772492	0.28768556	3.329068450	0.300384331	3.476017368	1.044141153
73° 17′ 00″	0.95773886	0.28763913	3.329654330	0.300331476	3.476578484	1.044125948
73° 17′ 10″	0.95775281	0.28759269	3.330240399	0.300278623	3.477139790	1.044110747
73° 17′ 20″	0.95776675	0.28754626	3.330826658	0.300225771	3.477701285	1.044095548
73° 17′ 30″	0.95778069	0.28749983	3.331413106	0.300172920	3.478262969	1.044080352
73° 17′ 40″	0.95779463	0.28745339	3.331999744	0.300120071	3.478824843	1.044065159
73° 17′ 50″	0.95780856	0.28740696	3.332586571	0.300067224	3.479386907	1.044049969
73° 18′ 00″	0.95782249	0.28736052	3.333173587	0.300014378	3.479949161	1.044034782
73° 18′ 10″	0.95783643	0.28731408	3.333760794	0.299961533	3.480511605	1.044019598
73° 18′ 20″	0.95785035	0.28726765	3.334348190	0.299908691	3.481074239	1.044004417
73° 18′ 30″	0.95786428	0.28722121	3.334935777	0.299855849	3.481637062	1.043989239
73° 18′ 40″ 73° 18′ 50″	0.95787820 0.95789212	0.28717477 0.28712833	3.335523553 3.336111519	0.299803010 0.299750171	3.482200076 3.482763281	1.043974063 1.043958891
73° 18′ 30″ 73° 19′ 00″	0.95789212	0.28712833	3.336699676	0.299697335	3.482763281	1.043938891
73° 19′ 00″ 73° 19′ 10″	0.95790604	0.28703545	3.337288023	0.299644500	3.483890261	1.043943721
73° 19′ 20″	0.95793388	0.28698901	3.337876560	0.299591666	3.484454037	1.043928334
73° 19′ 30″	0.95794779	0.28694256	3.338465288	0.299538834	3.485018003	1.043913390
73° 19′ 40″	0.73774777	0.28689612	3.339054207	0.277338634	3.485582160	1.043878227
73° 17′ 40′ 73° 19′ 50″	0.75776170	0.28684968	3.339643316	0.299433175	3.486146509	1.043867916
=======================================	0.73177301	0.20004700	3.337043310	0.4//4001/0	3.700170307	1.073007710

550 73° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
73° 20′ 00″	0.95798951	0.28680323	3.340232616	0.299380347	3.486711048	1.043852764
73° 20′ 10″	0.95800342	0.28675679	3.340822107	0.299327521	3.487275778	1.043837614
73° 20′ 20″	0.95801732	0.28671034	3.341411789	0.299274697	3.487840699	1.043822468
73° 20′ 30″	0.95803122	0.28666390	3.342001662	0.299221874	3.488405812	1.043807324
73° 20′ 40″	0.95804511	0.28661745	3.342591726	0.299169053	3.488971116	1.043792183
73° 20′ 50″	0.95805901	0.28657100	3.343181982	0.299116233	3.489536611	1.043777046
73° 21′ 00″	0.95807290	0.28652455	3.343772428	0.299063415	3.490102298	1.043761911
73° 21′ 10″	0.95808679	0.28647810	3.344363067	0.299010598	3.490668177	1.043746778
73° 21′ 20″	0.95810068	0.28643165	3.344953896	0.298957783	3.491234247	1.043731649
73° 21′ 30″	0.95811456	0.28638520	3.345544918	0.298904969	3.491800510	1.043716523
73° 21′ 40″	0.95812845	0.28633875	3.346136131	0.298852157	3.492366964	1.043701400
73° 21′ 50″	0.95814233	0.28629230	3.346727536	0.298799346	3.492933610	1.043686279
73° 22′ 00″	0.95815621	0.28624585	3.347319133	0.298746537	3.493500448	1.043671162
73° 22′ 10″	0.95817008	0.28619940	3.347910922	0.298693730	3.494067479	1.043656047
73° 22′ 20″	0.95818396	0.28615294	3.348502904	0.298640924	3.494634701	1.043640935
73° 22′ 30″	0.95819783	0.28610649	3.349095077	0.298588119	3.495202117	1.043625826
73° 22′ 40″	0.95821170	0.28606003	3.349687443	0.298535316	3.495769724	1.043610720
73° 22′ 50″	0.95822557	0.28601358	3.350280001	0.298482515	3.496337525	1.043595617
73° 23′ 00″	0.95823943	0.28596712	3.350872752	0.298429715	3.496905518	1.043580517
73° 23′ 10″	0.95825329	0.28592066	3.351465695	0.298376917	3.497473704	1.043565419
73° 23′ 20″	0.95826715	0.28587421	3.352058831	0.298324120	3.498042082	1.043550325
73° 23′ 30″	0.95828101	0.28582775	3.352652160	0.298271324	3.498610654	1.043535233
73° 23′ 40″	0.95829487	0.28578129	3.353245682	0.298218531	3.499179419	1.043520145
73° 23′ 50″	0.95830872	0.28573483	3.353839397	0.298165738	3.499748377	1.043505059
73° 24′ 00″	0.95832257	0.28568837	3.354433305	0.298112948	3.500317528	1.043489976
73° 24′ 10″	0.95833642	0.28564191	3.355027406	0.298060158	3.500886873	1.043474896
73° 24′ 20″	0.95835027	0.28559544	3.355621701	0.298007371	3.501456411	1.043459819
73° 24′ 30″	0.95836412	0.28554898	3.356216188	0.297954585	3.502026143	1.043444744
73° 24′ 40″	0.95837796	0.28550252	3.356810870	0.297901800	3.502596068	1.043429673
73° 24′ 50″	0.95839180	0.28545606	3.357405745	0.297849017	3.503166187	1.043414604
73° 25′ 00″	0.95840564	0.28540959	3.358000813	0.297796235	3.503736500	1.043399539
73° 25′ 10″	0.95841947	0.28536313	3.358596076	0.297743455	3.504307007	1.043384476
73° 25′ 20″	0.95843331	0.28531666	3.359191532	0.297690677	3.504877708	1.043369416
73° 25′ 30″	0.95844714	0.28527019	3.359787182	0.297637900	3.505448603	1.043354359
73° 25′ 40″	0.95846097	0.28522373	3.360383027	0.297585124	3.506019693	1.043339305
73° 25′ 50″	0.95847479	0.28517726	3.360979065	0.297532350	3.506590976	1.043324254
73° 26′ 00″	0.95848862	0.28513079	3.361575298	0.297479578	3.507162455	1.043309206
73° 26′ 10″	0.95850244	0.28508432	3.362171725	0.297426807	3.507734127	1.043294161
73° 26′ 20″	0.95851626	0.28503785	3.362768347	0.297374037	3.508305995	1.043279118
73° 26′ 30″	0.95853008	0.28499138	3.363365163	0.297321269	3.508878057	1.043264078
73° 26′ 40″	0.95854390	0.28494491	3.363962174	0.297268503	3.509450314	1.043249042
73° 26′ 50″ 73° 27′ 00″	0.95855771	0.28489844	3.364559379	0.297215738	3.510022766	1.043234008
	0.95857152	0.28485196	3.365156780	0.297162975	3.510595413	1.043218977
73° 27′ 10″ 73° 27′ 20″	0.95858533	0.28480549	3.365754375	0.297110213	3.511168255	1.043203949
73° 27′ 20″ 73° 27′ 30″	0.95859914	0.28475902	3.366352166	0.297057453 0.297004694	3.511741292	1.043188924 1.043173901
73° 27′ 40″	0.95861294	0.28471254	3.366950152	0.297004694	3.512314525	
73° 27′ 40″ 73° 27′ 50″	0.95862674	0.28466607 0.28461959	3.367548332 3.368146709	0.296951937	3.512887953 3.513461577	1.043158882 1.043143865
=======================================	0.73004034	0.40401737	3.300140/07	0.2/0077101	3,3134013//	1,043143003

551 73° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
73° 28′ 00″	0.95865434	0.28457312	3.368745280	0.296846427	3.514035396	1.043128852
73° 28′ 10″	0.95866813	0.28452664	3.369344048	0.296793674	3.514609411	1.043128832
73° 28′ 20″	0.95868193	0.28448016	3.369943011	0.296740923	3.515183622	1.043113641
73° 28′ 30″						
	0.95869572	0.28443368	3.370542169	0.296688174	3.515758029	1.043083828
73° 28′ 40″	0.95870951	0.28438720	3.371141524	0.296635425	3.516332631	1.043068826
73° 28′ 50″	0.95872329	0.28434072	3.371741074	0.296582679	3.516907430	1.043053827
73° 29′ 00″	0.95873708	0.28429424	3.372340821	0.296529934	3.517482425	1.043038830
73° 29′ 10″	0.95875086	0.28424776	3.372940764	0.296477190	3.518057617	1.043023837
73° 29′ 20″	0.95876464	0.28420128	3.373540903	0.296424448	3.518633005	1.043008846
73° 29′ 30″	0.95877842	0.28415480	3.374141238	0.296371708	3.519208589	1.042993859
73° 29′ 40″	0.95879219	0.28410831	3.374741769	0.296318968	3.519784370	1.042978874
73° 29′ 50″	0.95880596	0.28406183	3.375342498	0.296266231	3.520360348	1.042963892
73° 30′ 00″	0.95881973	0.28401534	3.375943423	0.296213495	3.520936522	1.042948913
73° 30′ 10″	0.95883350	0.28396886	3.376544544	0.296160760	3.521512893	1.042933937
73° 30′ 20″	0.95884727	0.28392237	3.377145863	0.296108028	3.522089462	1.042918963
73° 30′ 30″	0.95886103	0.28387589	3.377747378	0.296055296	3.522666227	1.042903993
73° 30′ 40″	0.95887479	0.28382940	3.378349090	0.296002566	3.523243190	1.042889025
73° 30′ 50″	0.95888855	0.28378291	3.378951000	0.295949838	3.523820350	1.042874061
73° 31′ 00″	0.95890231	0.28373642	3.379553107	0.295897111	3.524397708	1.042859099
73° 31′ 10″	0.95891607	0.28368993	3.380155411	0.295844385	3.524975263	1.042844140
73° 31′ 20″	0.95892982	0.28364344	3.380757913	0.295791661	3.525553015	1.042829184
73° 31′ 30″	0.95894357	0.28359695	3.381360612	0.295738939	3.526130966	1.042814231
73° 31′ 40″	0.95895732	0.28355046	3.381963508	0.295686218	3.526709114	1.042799281
73° 31′ 50″	0.95897106	0.28350397	3.382566603	0.295633499	3.527287460	1.042784333
73° 32′ 00″	0.95898481	0.28345748	3.383169895	0.295580781	3.527866004	1.042769389
73° 32′ 10″	0.95899855	0.28341098	3.383773386	0.295528065	3.528444746	1.042754447
73° 32′ 20″	0.95901229	0.28336449	3.384377074	0.295475350	3.529023686	1.042739508
73° 32′ 30″	0.95902602	0.28331800	3.384980960	0.295422637	3.529602825	1.042724573
73° 32′ 40″	0.95903976	0.28327150	3.385585045	0.295369925	3.530182162	1.042709640
73° 32′ 50″	0.95905349	0.28322501	3.386189328	0.295317214	3.530761698	1.042694709
73° 33′ 00″	0.95906722	0.28317851	3.386793809	0.295264506	3.531341432	1.042679782
73° 33′ 10″	0.95908095	0.28313201	3.387398489	0.295211798	3.531921365	1.042664858
73° 33′ 20″	0.95909467	0.28308551	3.388003368	0.295159093	3.532501496	1.042649936
73° 33′ 30″	0.95910840	0.28303901	3.388608445	0.295106388	3.533081827	1.042635018
73° 33′ 40″	0.95912212	0.28299252	3.389213722	0.295053686	3.533662357	1.042620102
73° 33′ 50″	0.95913584	0.28294602	3.389819197	0.295000984	3.534243085	1.042605189
73° 34′ 00″	0.95914955	0.28289952	3.390424871	0.294948285	3.534824013	1.042590279
73° 34′ 10″	0.95916327	0.28285301	3.391030744	0.294895586	3.535405141	1.042575372
73° 34′ 20″	0.95917698	0.28280651	3.391636817	0.294842890	3.535986468	1.042560468
73° 34′ 30″	0.95919069	0.28276001	3.392243089	0.294790195	3.536567994	1.042545567
73° 34′ 40″	0.95920440	0.28271351	3.392849560	0.294737501	3.537149720	1.042530668
73° 34′ 50″	0.95921810	0.28266700	3.393456231	0.294684809	3.537731645	1.042515773
73° 35′ 00″	0.95923180	0.28262050	3.394063102	0.294632118	3.538313771	1.042500880
73° 35′ 10″	0.95924550	0.28257399	3.394670172	0.294579429	3.538896096	1.042485990
73° 35′ 20″	0.95925920	0.28252749	3.395277442	0.294526741	3.539478621	1.042471103
73° 35′ 30″	0.95927290	0.28248098	3.395884913	0.294474055	3.540061347	1.042456219
73° 35′ 40″	0.95928659	0.28243447	3.396492583	0.294421370	3.540644273	1.042441338
73° 35′ 50″	0.95930029	0.28238797	3.397100453	0.294368687	3.541227399	1.042426460

552 73° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
73° 36′ 00″	0.95931397	0.28234146	3.397708524	0.294316005	3.541810725	1.042411584
73° 36′ 10″	0.95932766	0.28229495	3.398316795	0.294263325	3.542394252	1.042396712
73° 36′ 20″	0.95934135	0.28224844	3.398925266	0.294210647	3.542977980	1.042381842
73° 36′ 30″	0.95935503	0.28220193	3.399533938	0.294157969	3.543561908	1.042366975
73° 36′ 40″	0.95936871	0.28215542	3.400142811	0.294105294	3.544146038	1.042352111
73° 36′ 50″	0.95938239	0.28210890	3.400751884	0.294052620	3.544730368	1.042337250
73° 37′ 00″	0.95939606	0.28206239	3.401361159	0.293999947	3.545314899	1.042322392
73° 37′ 10″	0.95940974	0.28201588	3.401970634	0.293947276	3.545899631	1.042307537
73° 37′ 20″	0.95942341	0.28196936	3.402580311	0.293894606	3.546484565	1.042292684
73° 37′ 30″	0.95943708	0.28192285	3.403190188	0.293841938	3.547069700	1.042277835
73° 37′ 40″	0.95945074	0.28187634	3.403800267	0.293789271	3.547655036	1.042262988
73° 37′ 50″	0.95946441	0.28182982	3.404410547	0.293736606	3.548240574	1.042248144
73° 38′ 00″	0.95947807	0.28178330	3.405021029	0.293683942	3.548826314	1.042233303
73° 38′ 10″	0.95949173	0.28173679	3.405631712	0.293631280	3.549412255	1.042218465
73° 38′ 20″	0.95950539	0.28169027	3.406242597	0.293578620	3.549998399	1.042203630
73° 38′ 30″	0.95951905	0.28164375	3.406853684	0.293525961	3.550584744	1.042188797
73° 38′ 40″	0.95953270	0.28159723	3.407464973	0.293473303	3.551171291	1.042173968
73° 38′ 50″	0.95954635	0.28155071	3.408076463	0.293420647	3.551758041	1.042159141
73° 39′ 00″	0.95956000	0.28150419	3.408688156	0.293367992	3.552344993	1.042144318
73° 39′ 10″	0.95957365	0.28145767	3.409300051	0.293315339	3.552932147	1.042129497
73° 39′ 20″	0.95958729	0.28141115	3.409912149	0.293262687	3.553519503	1.042114679
73° 39′ 30″	0.95960093	0.28136462	3.410524448	0.293210037	3.554107063	1.042099864
73° 39′ 40″	0.95961457	0.28131810	3.411136951	0.293157388	3.554694825	1.042085051
73° 39′ 50″	0.95962821	0.28127158	3.411749655	0.293104741	3.555282789	1.042070242
73° 40′ 00″	0.95964184	0.28122505	3.412362563	0.293052096	3.555870957	1.042055436
73° 40′ 10″	0.95965548	0.28117853	3.412975674	0.292999451	3.556459327	1.042040632
73° 40′ 20″	0.95966911	0.28113200	3.413588987	0.292946809	3.557047901	1.042025831
73° 40′ 30″	0.95968274	0.28108548	3.414202503	0.292894168	3.557636678	1.042011033
73° 40′ 40″	0.95969636	0.28103895	3.414816223	0.292841528	3.558225658	1.041996238
73° 40′ 50″	0.95970999	0.28099242	3.415430146	0.292788890	3.558814842	1.041981446
73° 41′ 00″	0.95972361	0.28094589	3.416044272	0.292736253	3.559404229	1.041966657
73° 41′ 10″	0.95973723	0.28089936	3.416658601	0.292683618	3.559993820	1.041951870
73° 41′ 20″	0.95975085	0.28085283	3.417273134	0.292630984	3.560583614	1.041937087
73° 41′ 30″	0.95976446	0.28080630	3.417887871	0.292578352	3.561173613	1.041922306
73° 41′ 40″	0.95977807	0.28075977	3.418502812	0.292525721	3.561763815	1.041907528
73° 41′ 50″ 73° 42′ 00″	0.95979168	0.28071324	3.419117956	0.292473092	3.562354221	1.041892753
73° 42′ 10″	0.95980529	0.28066671	3.419733305 3.420348857	0.292420464	3.562944832	1.041877981 1.041863212
73° 42′ 20″	0.95983250	0.28062018 0.28057364	3.420348637	0.292367838 0.292315213	3.563535646 3.564126666	
73° 42′ 30″	0.95984610	0.28052711	3.420764614	0.272313213	3.564717889	1.041848446 1.041833682
73° 42′ 40″	0.95985970	0.28032711	3.421380373	0.272262370	3.565309317	1.041818922
73° 42′ 40″ 73° 42′ 50″	0.95987330	0.28043404	3.422176740	0.292157348	3.565900950	1.041804164
73° 43′ 00″	0.95988689	0.28038750	3.423429684	0.292104729	3.566492787	1.041789409
73° 43′ 10″	0.75788887	0.28034096	3.423427664	0.292052112	3.567084830	1.041774657
73° 43′ 20″	0.75770047	0.28029443	3.424663447	0.291999496	3.567677077	1.041774637
73° 43′ 30″	0.75771408	0.28027443	3.425280636	0.291946882	3.568269529	1.041745162
73° 43′ 40″	0.75772766	0.28024787	3.425898030	0.291894269	3.568862187	1.041743162
73° 43′ 50″	0.95995483	0.28020133	3.426515629	0.291841657	3.569455050	1.041715678
	0.73773703	C.20010T01	3,12031302/	J.=/ 10 1103/	3,307 133030	1.0 11/ 130/0

553 73° 43′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
73° 44′ 00″	0.95996841	0.28010827	3.427133433	0.291789047	3.570048118	1.041700940
73° 44′ 10″	0.95998199	0.28006173	3.427751442	0.291736439	3.570641392	1.041686205
73° 44′ 20″	0.95999557	0.28001519	3.428369657	0.291683832	3.571234872	1.041671473
73° 44′ 30″	0.96000914	0.27996864	3.428988078	0.291631227	3.571828557	1.041656744
73° 44′ 40″	0.96002272	0.27992210	3.429606704	0.291578623	3.572422448	1.041642018
73° 44′ 50″	0.96003629	0.27987556	3.430225536	0.291526021	3.573016545	1.041627294
73° 45′ 00″	0.96004985	0.27982901	3.430844574	0.291473420	3.573610848	1.041612574
73° 45′ 10″	0.96006342	0.27978247	3.431463818	0.291420820	3.574205357	1.041597856
73° 45′ 20″	0.96007698	0.27973592	3.432083267	0.291368222	3.574800072	1.041583142
73° 45′ 30″	0.96009054	0.27968938	3.432702923	0.291315626	3.575394994	1.041568430
73° 45′ 40″	0.96010410	0.27964283	3.433322786	0.291263031	3.575990122	1.041553721
73° 45′ 50″	0.96011766	0.27959628	3.433942854	0.291210437	3.576585456	1.041539015
73° 46′ 00″	0.96013121	0.27954974	3.434563129	0.291157845	3.577180998	1.041524311
73° 46′ 10″	0.96014476	0.27950319	3.435183611	0.291105255	3.577776746	1.041509611
73° 46′ 20″	0.96015831	0.27945664	3.435804300	0.291052666	3.578372701	1.041494913
73° 46′ 30″	0.96017186	0.27941009	3.436425195	0.291000078	3.578968863	1.041480218
73° 46′ 40″	0.96018541	0.27936354	3.437046297	0.290947492	3.579565232	1.041465527
73° 46′ 50″	0.96019895	0.27931698	3.437667606	0.290894907	3.580161808	1.041450838
73° 47′ 00″	0.96021249	0.27927043	3.438289123	0.290842324	3.580758592	1.041436151
73° 47′ 10″	0.96022603	0.27922388	3.438910846	0.290789743	3.581355583	1.041421468
73° 47′ 20″	0.96023956	0.27917733	3.439532777	0.290737163	3.581952781	1.041406788
73° 47′ 30″	0.96025310	0.27913077	3.440154916	0.290684584	3.582550187	1.041392110
73° 47′ 40″	0.96026663	0.27908422	3.440777262	0.290632007	3.583147801	1.041377436
73° 47′ 50″	0.96028016	0.27903766	3.441399815	0.290579431	3.583745623	1.041362764
73° 48′ 00″	0.96029369	0.27899111	3.442022577	0.290526857	3.584343652	1.041348095
73° 48′ 10″	0.96030721	0.27894455	3.442645546	0.290474284	3.584941890	1.041333429
73° 48′ 20″	0.96032073	0.27889799	3.443268723	0.290421713	3.585540336	1.041318765
73° 48′ 30″	0.96033425	0.27885143	3.443892109	0.290369143	3.586138990	1.041304105
73° 48′ 40″	0.96034777	0.27880488	3.444515702	0.290316575	3.586737852	1.041289448
73° 48′ 50″	0.96036129	0.27875832	3.445139504	0.290264008	3.587336923	1.041274793
73° 49′ 00″	0.96037480	0.27871176	3.445763514	0.290211443	3.587936203	1.041260141
73° 49′ 10″	0.96038831	0.27866520	3.446387733	0.290158879	3.588535691	1.041245492
73° 49′ 20″	0.96040182	0.27861863	3.447012161	0.290106316	3.589135388	1.041230846
73° 49′ 30″	0.96041533	0.27857207	3.447636797	0.290053755	3.589735294	1.041216203
73° 49′ 40″	0.96042883	0.27852551	3.448261642	0.290001196	3.590335409	1.041201562
73° 49′ 50″	0.96044233	0.27847895	3.448886696	0.289948638	3.590935733	1.041186925
73° 50′ 00″	0.96045583	0.27843238	3.449511959	0.289896082	3.591536266	1.041172290
73° 50′ 10″	0.96046933	0.27838582	3.450137431	0.289843527	3.592137009	1.041157659
73° 50′ 20″	0.96048283	0.27833925	3.450763112	0.289790973	3.592737961	1.041143030
73° 50′ 30″	0.96049632	0.27829269	3.451389003	0.289738421	3.593339123	1.0411128404
73° 50′ 40″	0.96050981	0.27824612	3.452015104	0.289685870	3.593940494	1.041113780
73° 50′ 50″	0.96052330	0.27819955	3.452641414	0.289633321	3.594542075	1.041099160
73° 51′ 00″	0.96053679	0.27815299	3.453267933	0.289580774	3.595143866	1.041084542
73° 51′ 10″	0.96055027	0.27810642	3.453894663	0.289528228	3.595745867	1.041069928
73° 51′ 20″	0.96056375	0.27805985	3.454521602	0.289475683	3.596348078	1.041055316
73° 51′ 30″	0.96057723	0.27801328	3.455148752	0.289423140	3.596950500	1.041040707
73° 51′ 40″	0.96059071	0.27796671	3.455776111	0.289370598	3.597553131	1.041026101
73° 51′ 50″	0.96060418	0.27792014	3.456403681	0.289318058	3.598155973	1.041011498

554 73° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
73° 52′ 00″	0.96061766	0.27787356	3.457031461	0.289265519	3.598759026	1.040996897
73° 52′ 10″	0.96063113	0.27782699	3.457659452	0.289212982	3.599362289	1.040982300
73° 52′ 20″	0.96064460	0.27778042	3.458287653	0.289160446	3.599965763	1.040967705
73° 52′ 30″	0.96065806	0.27773385	3.458916065	0.289107912	3.600569447	1.040953114
73° 52′ 40″	0.96067153	0.27768727	3.459544688	0.289055379	3.601173343	1.040938525
73° 52′ 50″	0.96068499	0.27764070	3.460173522	0.289002847	3.601777450	1.040923939
73° 53′ 00″	0.96069845	0.27759412	3.460802566	0.288950317	3.602381768	1.040909355
73° 53′ 10″	0.96071190	0.27754754	3.461431822	0.288897789	3.602986297	1.040894775
73° 53′ 20″	0.96072536	0.27750097	3.462061289	0.288845262	3.603591038	1.040880197
73° 53′ 30″	0.96073881	0.27745439	3.462690967	0.288792736	3.604195990	1.040865623
73° 53′ 40″	0.96075226	0.27740781	3.463320857	0.288740212	3.604801154	1.040851051
73° 53′ 50″	0.96076571	0.27736123	3.463950959	0.288687690	3.605406530	1.040836482
73° 54′ 00″	0.96077915	0.27731465	3.464581272	0.288635169	3.606012117	1.040821916
73° 54′ 10″	0.96079260	0.27726807	3.465211796	0.288582649	3.606617916	1.040807353
73° 54′ 20″	0.96080604	0.27722149	3.465842533	0.288530131	3.607223928	1.040792792
73° 54′ 30″	0.96081948	0.27717491	3.466473482	0.288477614	3.607830151	1.040778235
73° 54′ 40″	0.96083291	0.27712833	3.467104643	0.288425099	3.608436587	1.040763680
73° 54′ 50″	0.96084635	0.27708175	3.467736016	0.288372585	3.609043235	1.040749128
73° 55′ 00″	0.96085978	0.27703516	3.468367601	0.288320073	3.609650096	1.040734579
73° 55′ 10″	0.96087321	0.27698858	3.468999399	0.288267562	3.610257169	1.040720033
73° 55′ 20″	0.96088664	0.27694199	3.469631409	0.288215053	3.610864455	1.040705490
73° 55′ 30″	0.96090006	0.27689541	3.470263632	0.288162545	3.611471954	1.040690949
73° 55′ 40″	0.96091349	0.27684882	3.470896068	0.288110039	3.612079666	1.040676412
73° 55′ 50″	0.96092691	0.27680224	3.471528717	0.288057534	3.612687591	1.040661877
73° 56′ 00″	0.96094033	0.27675565	3.472161578	0.288005030	3.613295729	1.040647345
73° 56′ 10″	0.96095374	0.27670906	3.472794653	0.287952528	3.613904080	1.040632816
73° 56′ 20″	0.96096716	0.27666247	3.473427941	0.287900028	3.614512645	1.040618290
73° 56′ 30″	0.96098057	0.27661588	3.474061442	0.287847528	3.615121423	1.040603767
73° 56′ 40″	0.96099398	0.27656929	3.474695157	0.287795031	3.615730415	1.040589246
73° 56′ 50″	0.96100739	0.27652270	3.475329085	0.287742535	3.616339621	1.040574729
73° 57′ 00″	0.96102079	0.27647611	3.475963227	0.287690040	3.616949040	1.040560214
73° 57′ 10″	0.96103419	0.27642952	3.476597583	0.287637547	3.617558673	1.040545702
73° 57′ 20″ 73° 57′ 30″	0.96104739	0.27638293 0.27633633	3.477232152 3.477866936	0.287585055 0.287532565	3.618168520 3.618778582	1.040531193 1.040516687
73° 57′ 40″	0.96107439	0.27633633	3.478501934	0.287480076	3.619388858	1.040502184
73° 57′ 50″	0.96107437	0.27624314	3.479137146	0.287427589	3.617388838	1.040302184
73° 58′ 00″	0.96110117	0.27624314	3.479772572	0.287375103	3.620610052	1.040473185
73° 58′ 10″	0.96111456	0.27617633	3.480408212	0.287373103	3.621220972	1.040473183
73° 58′ 20″	0.96112795	0.27610336	3.481044068	0.287270135	3.621832105	1.040444199
73° 58′ 30″	0.96114133	0.27605676	3.481680137	0.287217654	3.622443454	1.040429710
73° 58′ 40″	0.96115472	0.27601016	3.482316422	0.287165174	3.623055018	1.040415223
73° 58′ 50″	0.96116810	0.27596356	3.482952921	0.287112695	3.623666797	1.040400740
73° 59′ 00″	0.96118148	0.27591696	3.483589636	0.287060218	3.624278791	1.040386259
73° 59′ 10″	0.96119485	0.27587036	3.484226565	0.287007742	3.624891000	1.040371782
73° 59′ 20″	0.96120822	0.27582376	3.484863710	0.286955268	3.625503424	1.040357307
73° 59′ 30″	0.96122160	0.27577716	3.485501070	0.286902795	3.626116064	1.040342835
73° 59′ 40″	0.96123496	0.27573056	3.486138646	0.286850324	3.626728920	1.040328366
73° 59′ 50″	0.96124833	0.27568396	3.486776437	0.286797854	3.627341991	1.040313899
	1					

555 73° 59′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
74° 00′ 00″	0.96126170	0.27563736	3.487414444	0.286745386	3.627955279	1.040299436
74° 00′ 10″	0.96127506	0.27559075	3.488052666	0.286692919	3.628568782	1.040284975
74° 00′ 20″	0.96128842	0.27554415	3.488691105	0.286640453	3.629182501	1.040270517
74° 00′ 30″	0.96130178	0.27549754	3.489329759	0.286587989	3.629796436	1.040256063
74° 00′ 40″	0.96131513	0.27545094	3.489968630	0.286535527	3.630410588	1.040241610
74° 00′ 50″	0.96132848	0.27540433	3.490607717	0.286483066	3.631024956	1.040227161
74° 01′ 00″	0.96134183	0.27535772	3.491247020	0.286430606	3.631639541	1.040212715
74° 01′ 10″	0.96135518	0.27531112	3.491886539	0.286378148	3.632254342	1.040198271
74° 01′ 20″	0.96136853	0.27526451	3.492526276	0.286325691	3.632869360	1.040183831
74° 01′ 30″	0.96138187	0.27521790	3.493166228	0.286273236	3.633484595	1.040169393
74° 01′ 40″	0.96139522	0.27517129	3.493806398	0.286220782	3.634100046	1.040154958
74° 01′ 50″	0.96140856	0.27512468	3.494446785	0.286168330	3.634715715	1.040140526
74° 02′ 00″	0.96142189	0.27507807	3.495087388	0.286115879	3.635331601	1.040126096
74° 02′ 10″	0.96143523	0.27503146	3.495728209	0.286063429	3.635947705	1.040111670
74° 02′ 20″	0.96144856	0.27498485	3.496369247	0.286010982	3.636564025	1.040097246
74° 02′ 30″	0.96146189	0.27493823	3.497010502	0.285958535	3.637180564	1.040082825
74° 02′ 40″	0.96147522	0.27489162	3.497651975	0.285906090	3.637797319	1.040068407
74° 02′ 50″	0.96148855	0.27484501	3.498293665	0.285853646	3.638414293	1.040053992
74° 03′ 00″	0.96150187	0.27479839	3.498935573	0.285801204	3.639031485	1.040039580
74° 03′ 10″	0.96151519	0.27475178	3.499577699	0.285748763	3.639648894	1.040025171
74° 03′ 20″	0.96152851	0.27470516	3.500220043	0.285696324	3.640266522	1.040010764
74° 03′ 30″	0.96154183	0.27465854	3.500862605	0.285643886	3.640884368	1.039996360
74° 03′ 40″	0.96155514	0.27461193	3.501505385	0.285591450	3.641502432	1.039981960
74° 03′ 50″	0.96156845	0.27456531	3.502148383	0.285539015	3.642120714	1.039967562
74° 04′ 00″	0.96158176	0.27451869	3.502791600	0.285486582	3.642739215	1.039953166
74° 04′ 10″	0.96159507	0.27447207	3.503435035	0.285434150	3.643357935	1.039938774
74° 04′ 20″	0.96160838	0.27442545	3.504078689	0.285381719	3.643976874	1.039924385
74° 04′ 30″	0.96162168	0.27437883	3.504722561	0.285329290	3.644596031	1.039909998
74° 04′ 40″	0.96163498	0.27433221	3.505366652	0.285276862	3.645215408	1.039895614
74° 04′ 50″	0.96164828	0.27428559	3.506010963	0.285224436	3.645835003	1.039881233
74° 05′ 00″	0.96166158	0.27423897	3.506655492	0.285172011	3.646454818	1.039866855
74° 05′ 10″	0.96167487	0.27419234	3.507300241	0.285119588	3.647074852	1.039852480
74° 05′ 20″	0.96168816	0.27414572	3.507945209	0.285067166	3.647695106	1.039838107
74° 05′ 30″	0.96170145	0.27409910	3.508590396	0.285014746	3.648315579	1.039823738
74° 05′ 40″	0.96171474	0.27405247	3.509235803	0.284962327	3.648936272	1.039809371
74° 05′ 50″	0.96172803	0.27400584	3.509881429	0.284909909	3.649557185	1.039795007
74° 06′ 00″	0.96174131	0.27395922	3.510527275	0.284857493	3.650178318	1.039780646
74° 06′ 10″	0.96175459	0.27391259	3.511173341	0.284805079	3.650799670	1.039766288
74° 06′ 20″	0.96176787	0.27386596	3.511819628	0.284752666	3.651421243	1.039751932
74° 06′ 30″	0.96178115	0.27381934	3.512466134	0.284700254	3.652043037	1.039737580
74° 06′ 40″	0.96179442	0.27377271	3.513112860	0.284647844	3.652665050	1.039723230
74° 06′ 50″	0.96180769	0.27372608	3.513759807	0.284595435	3.653287284	1.039708883
74° 07′ 00″	0.96182096	0.27367945	3.514406974	0.284543027	3.653909739	1.039694539
74° 07′ 10″	0.96183423	0.27363282	3.515054362	0.284490621	3.654532414	1.039680198
74° 07′ 20″	0.96184749	0.27358619	3.515701970	0.284438217	3.655155311	1.039665859
74° 07′ 30″	0.96186076	0.27353955	3.516349800	0.284385814	3.655778428	1.039651524
74° 07′ 40″	0.96187402	0.27349292	3.516997850	0.284333412	3.656401766	1.039637191
74° 07′ 50″	0.96188727	0.27344629	3.517646121	0.284281012	3.657025326	1.039622861

556 74° 07′ 50″

x sin(x) cos(x) tan(x) cot(x) sec(x) csc(x)		• ()	()			()	()
74° 08′ 10″ 0,96191378 0.27335302 3.518943227 0.284176216 3.658273109 1.0395798210 74° 08′ 30″ 0,96194028 0.2733638 3.519592262 0.284071426 3.659521778 1.039575857 74° 08′ 40″ 0,96195353 0.27321311 3.520890797 0.284071426 3.659521778 1.039558570 74° 08′ 60″ 0,9619802 0.27311984 3.522190218 0.283914252 3.66136446 1.039552632 74° 09′ 10″ 0,96199326 0.27307320 3.522480262 0.283861863 3.662021779 1.0395932632 74° 09′ 30″ 0,96201973 0.27297328 3.524141016 0.28375700 3.663273113 1.039494202 74° 09′ 50″ 0,96204620 0.27288664 3.525491659 0.283652323 3.664525336 1.039445125 74° 10′ 0° 0,96207265 0.27279335 3.526475192 0.28375700 3.6665151782 1.039458125 74° 10′ 0° 0,96202565 0.27278375 3.526475192 0.283652323 3.66651525336 1.03945125 74° 10′ 0° 0,9621255		$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(\mathbf{x})$
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74° 13′ 50″ 0.96236306 0.27176706 3.541132080 0.282395567 3.679621775 1.039108876 74° 14′ 00″ 0.96237624 0.27172041 3.541788612 0.282343220 3.680253601 1.039094651 74° 14′ 10″ 0.96238941 0.27167375 3.542445369 0.282290874 3.680885653 1.039080429 74° 14′ 20″ 0.96240258 0.27162709 3.543102352 0.282238530 3.681517931 1.039066210 74° 14′ 30″ 0.96241575 0.27158043 3.543759561 0.282186188 3.682150435 1.039051993 74° 14′ 40″ 0.96242891 0.27153377 3.544416995 0.282186188 3.682783165 1.039037780 74° 15′ 0″ 0.96244208 0.27148711 3.545074656 0.282081507 3.683416120 1.039023569 74° 15′ 10″ 0.96246840 0.27139379 3.546390655 0.281976831 3.684049303 1.038995156 74° 15′ 30″ 0.96249471 0.27130046 3.547707560 0.281872162 3.685950208 1.038966754 74° 15′ 40″ 0.96250786							
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74° 15′ 40″ 0.96250786 0.27125380 3.548366353 0.281819829 3.686584296 1.038952557							
74° 15′ 50′′ 0.96252101 0.2/120/14 3.5490253/2 0.281/6/498 3.68/218611 1.038938363							
	74° 15′ 50″	0.96252101	0.2/120/14	3.5490253/2	0.281/6/498	3.68/218611	1.038938363

557 74° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
74° 16′ 00″	0.96253415	0.27116047	3.549684617	0.281715168	3.687853154	1.038924172
74° 16′ 10″	0.96254730	0.27111381	3.550344090	0.281662840	3.688487923	1.038909984
74° 16′ 20″	0.96256044	0.27106714	3.551003790	0.281610513	3.689122920	1.038895799
74° 16′ 30″	0.96257358	0.27102047	3.551663717	0.281558188	3.689758144	1.038881617
74° 16′ 40″	0.96258672	0.27097381	3.552323871	0.281505864	3.690393595	1.038867437
74° 16′ 50″	0.96259986	0.27092714	3.552984253	0.281453541	3.691029274	1.038853260
74° 17′ 00″	0.96261299	0.27088047	3.553644862	0.281401220	3.691665181	1.038839086
74° 17′ 10″	0.96262612	0.27083380	3.554305699	0.281348900	3.692301315	1.038824915
74° 17′ 20″	0.96263925	0.27078713	3.554966764	0.281296582	3.692937678	1.038810747
74° 17′ 30″	0.96265238	0.27074046	3.555628057	0.281244265	3.693574268	1.038796581
74° 17′ 40″	0.96266550	0.27069379	3.556289577	0.281191950	3.694211087	1.038782418
74° 17′ 50″	0.96267863	0.27064712	3.556951326	0.281139636	3.694848134	1.038768258
74° 18′ 00″	0.96269175	0.27060045	3.557613303	0.281087323	3.695485410	1.038754101
74° 18′ 10″	0.96270486	0.27055377	3.558275509	0.281035012	3.696122914	1.038739947
74° 18′ 20″	0.96271798	0.27050710	3.558937943	0.280982702	3.696760647	1.038725796
74° 18′ 30″	0.96273109	0.27046043	3.559600605	0.280930394	3.697398608	1.038711647
74° 18′ 40″	0.96274420	0.27041375	3.560263497	0.280878087	3.698036799	1.038697502
74° 18′ 50″	0.96275731	0.27036707	3.560926617	0.280825781	3.698675218	1.038683359
74° 19′ 00″	0.96277042	0.27032040	3.561589966	0.280773477	3.699313867	1.038669219
74° 19′ 10″	0.96278352	0.27027372	3.562253544	0.280721175	3.699952745	1.038655081
74° 19′ 20″	0.96279663	0.27022704	3.562917352	0.280668874	3.700591852	1.038640947
74° 19′ 30″	0.96280973	0.27018037	3.563581389	0.280616574	3.701231189	1.038626815
74° 19′ 40″	0.96282282	0.27013369	3.564245655	0.280564275	3.701870756	1.038612687
74° 19′ 50″	0.96283592	0.27008701	3.564910152	0.280511979	3.702510552	1.038598561
74° 20′ 00″	0.96284901	0.27004033	3.565574877	0.280459683	3.703150578	1.038584437
74° 20′ 10″	0.96286210	0.26999365	3.566239833	0.280407389	3.703790835	1.038570317
74° 20′ 20″	0.96287519	0.26994697	3.566905019	0.280355096	3.704431321	1.038556200
74° 20′ 30″	0.96288828	0.26990029	3.567570434	0.280302805	3.705072038	1.038542085
74° 20′ 40″	0.96290136	0.26985360	3.568236080	0.280250515	3.705712985	1.038527973
74° 20′ 50″	0.96291444	0.26980692	3.568901957	0.280198227	3.706354162	1.038513864
74° 21′ 00″	0.96292752	0.26976024	3.569568063	0.280145940	3.706995571	1.038499758
74° 21′ 10″	0.96294060	0.26971355	3.570234401	0.280093654	3.707637209	1.038485655
74° 21′ 20″	0.96295368	0.26966687	3.570900969	0.280041370	3.708279079	1.038471554
74° 21′ 30″	0.96296675	0.26962018	3.571567768	0.279989087	3.708921180	1.038457457
74° 21′ 40″	0.96297982	0.26957349	3.572234798	0.279936806	3.709563512	1.038443362
74° 21′ 50″	0.96299289	0.26952681	3.572902059	0.279884526	3.710206075	1.038429270
74° 22′ 00″	0.96300595	0.26948012	3.573569551	0.279832248	3.710848870	1.038415180
74° 22′ 10″	0.96301902	0.26943343	3.574237274	0.279779971	3.711491896	1.038401094
74° 22′ 20″	0.96303208	0.26938674	3.574905229	0.279727695	3.712135154	1.038387010
74° 22′ 30″	0.96304514	0.26934005	3.575573416	0.279675421	3.712778643	1.038372930
74° 22′ 40″	0.96305819	0.26929336	3.576241834	0.279623148	3.713422364	1.038358852
74° 22′ 50″	0.96307125	0.26924667	3.576910484	0.279570877	3.714066317	1.038344777
74° 23′ 00″ 74° 23′ 10″	0.96308430	0.26919998	3.577579366	0.279518607	3.714710503	1.038330704
74° 23′ 10″ 74° 23′ 20″	0.96309735	0.26915329	3.578248480	0.279466338	3.715354920	1.038316635
74° 23′ 20″ 74° 23′ 30″	0.96311040	0.26910660	3.578917826	0.279414071	3.715999570 2.716644452	1.038302568 1.038288504
74° 23′ 30″ 74° 23′ 40″	0.96312344	0.26905990	3.579587405	0.279361805	3.716644453	
74° 23′ 40″ 74° 23′ 50″	0.96313649 0.96314953	0.26901321 0.26896652	3.580257216 3.580927259	0.279309541 0.279257278	3.717289568 3.717934916	1.038274443 1.038260385
=======================================	0.70314733	0.20070032	3,300/2/237	0.21/23/2/0	J./ 1//J4710	1.030200303

558 74° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
74° 24′ 00″	0.96316257	0.26891982	3.581597536	0.279205017	3.718580496	1.038246330
74° 24′ 10″	0.96317560	0.26887312	3.582268045	0.279152757	3.719226310	1.038232277
74° 24′ 20″	0.96318864	0.26882643	3.582938787	0.279100498	3.719872357	1.038218228
74° 24′ 30″	0.96320167	0.26877973	3.583609762	0.279048241	3.720518637	1.038204181
74° 24′ 40″	0.96321470	0.26873303	3.584280970	0.278995985	3.721165150	1.038190137
74° 24′ 50″	0.96322773	0.26868634	3.584952412	0.278943731	3.721811897	1.038176095
74° 25′ 00″	0.96324075	0.26863964	3.585624087	0.278891478	3.722458877	1.038162057
74° 25′ 10″	0.96325377	0.26859294	3.586295995	0.278839226	3.723106091	1.038148021
74° 25′ 20″	0.96326680	0.26854624	3.586968138	0.278786976	3.723753539	1.038133988
74° 25′ 30″	0.96327981	0.26849954	3.587640514	0.278734727	3.724401221	1.038119958
74° 25′ 40″	0.96329283	0.26845283	3.588313124	0.278682480	3.725049137	1.038105931
74° 25′ 50″	0.96330584	0.26840613	3.588985968	0.278630234	3.725697287	1.038091907
74° 26′ 00″	0.96331886	0.26835943	3.589659046	0.278577989	3.726345672	1.038077885
74° 26′ 10″	0.96333186	0.26831273	3.590332359	0.278525746	3.726994291	1.038063867
74° 26′ 20″	0.96334487	0.26826602	3.591005906	0.278473505	3.727643145	1.038049851
74° 26′ 30″	0.96335788	0.26821932	3.591679687	0.278421264	3.728292233	1.038035838
74° 26′ 40″	0.96337088	0.26817261	3.592353703	0.278369026	3.728941556	1.038021828
74° 26′ 50″	0.96338388	0.26812591	3.593027955	0.278316788	3.729591115	1.038007820
74° 27′ 00″	0.96339688	0.26807920	3.593702441	0.278264552	3.730240908	1.037993815
74° 27′ 10″	0.96340987	0.26803249	3.594377162	0.278212317	3.730890937	1.037979814
74° 27′ 20″	0.96342287	0.26798579	3.595052118	0.278160084	3.731541201	1.037965815
74° 27′ 30″	0.96343586	0.26793908	3.595727310	0.278107852	3.732191700	1.037951819
74° 27′ 40″	0.96344885	0.26789237	3.596402737	0.278055622	3.732842435	1.037937825
74° 27′ 50″	0.96346183	0.26784566	3.597078399	0.278003393	3.733493406	1.037923835
74° 28′ 00″	0.96347482	0.26779895	3.597754298	0.277951165	3.734144612	1.037909847
74° 28′ 10″	0.96348780	0.26775224	3.598430432	0.277898939	3.734796055	1.037895862
74° 28′ 20″	0.96350078	0.26770553	3.599106802	0.277846714	3.735447734	1.037881880
74° 28′ 30″	0.96351376	0.26765881	3.599783408	0.277794491	3.736099649	1.037867901
74° 28′ 40″	0.96352673	0.26761210	3.600460251	0.277742269	3.736751800	1.037853924
74° 28′ 50″	0.96353971	0.26756539	3.601137329	0.277690049	3.737404188	1.037839951
74° 29′ 00″	0.96355268	0.26751867	3.601814645	0.277637829	3.738056813	1.037825980
74° 29′ 10″	0.96356564	0.26747196	3.602492196	0.277585612	3.738709674	1.037812012
74° 29′ 20″	0.96357861	0.26742524	3.603169985	0.277533395	3.739362772	1.037798047
74° 29′ 30″	0.96359157	0.26737853	3.603848010	0.277481180	3.740016107	1.037784084
74° 29′ 40″	0.96360454	0.26733181	3.604526273	0.277428967	3.740669679	1.037770125
74° 29′ 50″	0.96361750	0.26728509	3.605204772	0.277376755	3.741323489	1.037756168
74° 30′ 00″	0.96363045	0.26723838	3.605883509	0.277324544	3.741977536	1.037742214
74° 30′ 10″	0.96364341	0.26719166	3.606562483	0.277272335	3.742631820	1.037728263
74° 30′ 20″	0.96365636	0.26714494	3.607241694	0.277220127	3.743286342	1.037714315
74° 30′ 30″	0.96366931	0.26709822	3.607921143	0.277167920	3.743941102	1.037700369
74° 30′ 40″	0.96368226	0.26705150	3.608600830	0.277115715	3.744596100	1.037686426
74° 30′ 50″	0.96369521	0.26700478	3.609280755	0.277063512	3.745251336	1.037672487
74° 31′ 00″	0.96370815	0.26695806	3.609960918	0.277011309	3.745906810	1.037658550
74° 31′ 10″	0.96372109	0.26691133	3.610641318	0.276959108	3.746562522	1.037644615
74° 31′ 20″	0.96373403	0.26686461	3.611321957	0.276906909	3.747218472	1.037630684
74° 31′ 30″	0.96374697	0.26681789	3.612002835	0.276854711	3.747874662	1.037616755
74° 31′ 40″	0.96375990	0.26677116	3.612683951	0.276802514	3.748531089	1.037602829
74° 31′ 50″	0.96377283	0.26672444	3.613365305	0.276750319	3.749187756	1.037588907

559 74° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
74° 32′ 00″	0.96378576	0.26667771	3.614046899	0.276698125	3.749844662	1.037574986
74° 32′ 10″	0.96379869	0.26663099	3.614728731	0.276645932	3.750501806	1.037561069
74° 32′ 20″	0.96381162	0.26658426	3.615410802	0.276593741	3.751159190	1.037547154
74° 32′ 30″	0.96382454	0.26653753	3.616093113	0.276541552	3.751816813	1.037533243
74° 32′ 40″	0.96383746	0.26649081	3.616775662	0.276489363	3.752474676	1.037519334
74° 32′ 50″	0.96385038	0.26644408	3.617458451	0.276437176	3.753132778	1.037505428
74° 33′ 00″	0.96386330	0.26639735	3.618141480	0.276384991	3.753791119	1.037491524
74° 33′ 10″	0.96387621	0.26635062	3.618824748	0.276332807	3.754449701	1.037477624
74° 33′ 20″	0.96388912	0.26630389	3.619508256	0.276280624	3.755108523	1.037463726
74° 33′ 30″	0.96390203	0.26625716	3.620192004	0.276228443	3.755767584	1.037449831
74° 33′ 40″	0.96391494	0.26621043	3.620875992	0.276176263	3.756426886	1.037435939
74° 33′ 50″	0.96392784	0.26616369	3.621560221	0.276124084	3.757086428	1.037422050
74° 34′ 00″	0.96394075	0.26611696	3.622244689	0.276071907	3.757746211	1.037408164
74° 34′ 10″	0.96395365	0.26607023	3.622929398	0.276019732	3.758406235	1.037394280
74° 34′ 20″	0.96396655	0.26602349	3.623614348	0.275967557	3.759066499	1.037380399
74° 34′ 30″	0.96397944	0.26597676	3.624299538	0.275915384	3.759727003	1.037366521
74° 34′ 40″	0.96399234	0.26593002	3.624984969	0.275863213	3.760387749	1.037352646
74° 34′ 50″	0.96400523	0.26588329	3.625670641	0.275811043	3.761048736	1.037338774
74° 35′ 00″	0.96401812	0.26583655	3.626356554	0.275758874	3.761709965	1.037324904
74° 35′ 10″	0.96403100	0.26578981	3.627042709	0.275706707	3.762371434	1.037311037
74° 35′ 20″	0.96404389	0.26574308	3.627729104	0.275654541	3.763033146	1.037297173
74° 35′ 30″	0.96405677	0.26569634	3.628415742	0.275602376	3.763695098	1.037283312
74° 35′ 40″	0.96406965	0.26564960	3.629102620	0.275550213	3.764357293	1.037269454
74° 35′ 50″	0.96408253	0.26560286	3.629789741	0.275498051	3.765019730	1.037255598
74° 36′ 00″	0.96409540	0.26555612	3.630477104	0.275445891	3.765682408	1.037241746
74° 36′ 10″	0.96410828	0.26550938	3.631164708	0.275393732	3.766345329	1.037227896
74° 36′ 20″	0.96412115	0.26546263	3.631852555	0.275341574	3.767008492	1.037214049
74° 36′ 30″	0.96413402	0.26541589	3.632540643	0.275289418	3.767671897	1.037200204
74° 36′ 40″	0.96414688	0.26536915	3.633228975	0.275237263	3.768335545	1.037186363
74° 36′ 50″	0.96415975	0.26532241	3.633917549	0.275185110	3.768999436	1.037172524
74° 37′ 00″	0.96417261	0.26527566	3.634606365	0.275132958	3.769663570	1.037158688
74° 37′ 10″	0.96418547	0.26522892	3.635295424	0.275080807	3.770327946	1.037144855
74° 37′ 20″	0.96419833	0.26518217	3.635984727	0.275028658	3.770992566	1.037131025
74° 37′ 30″	0.96421118	0.26513543	3.636674272	0.274976510	3.771657429	1.037117197
74° 37′ 40″	0.96422404	0.26508868	3.637364060	0.274924364	3.772322535	1.037103373
74° 37′ 50″	0.96423689	0.26504193	3.638054092	0.274872219	3.772987885	1.037089551
74° 38′ 00″	0.96424974	0.26499518	3.638744367	0.274820075	3.773653478	1.037075732
74° 38′ 10″	0.96426258	0.26494844	3.639434886	0.274767933	3.774319315	1.037061916
74° 38′ 20″	0.96427543	0.26490169	3.640125649	0.274715792	3.774985396	1.037048102
74° 38′ 30″	0.96428827	0.26485494	3.640816655	0.274663652	3.775651721	1.037034292
74° 38′ 40″	0.96430111	0.26480819	3.641507905	0.274611514	3.776318290	1.037020484
74° 38′ 50″	0.96431394	0.26476144	3.642199400	0.274559378	3.776985103	1.037006679
74° 39′ 00″	0.96432678	0.26471468	3.642891139	0.274507242	3.777652161	1.036992877
74° 39′ 10″	0.96433961	0.26466793	3.643583122	0.274455108	3.778319463	1.036979077
74° 39′ 20″	0.96435244	0.26462118	3.644275350	0.274402976	3.778987010	1.036965281
74° 39′ 30″	0.96436527	0.26457443	3.644967822	0.274350844	3.779654802	1.036951487
74° 39′ 40″ 74° 39′ 50″	0.96437810	0.26452767	3.645660539	0.274298715	3.780322839	1.036937696
<u> </u>	0.96439092	0.26448092	3.646353501	0.274246586	3.780991120	1.036923908

560 74° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
74° 40′ 00″	0.96440374	0.26443416	3.647046708	0.274194459	3.781659648	1.036910122
74° 40′ 10″	0.96441656	0.26438741	3.647740160	0.274142334	3.782328420	1.036896340
74° 40′ 20″	0.96442938	0.26434065	3.648433858	0.274090209	3.782997438	1.036882560
74° 40′ 30″	0.96444219	0.26429389	3.649127801	0.274038087	3.783666701	1.036868783
74° 40′ 40″	0.96445500	0.26424713	3.649821989	0.273985965	3.784336210	1.036855009
74° 40′ 50″	0.96446781	0.26420038	3.650516423	0.273933845	3.785005965	1.036841237
74° 41′ 00″	0.96448062	0.26415362	3.651211104	0.273881726	3.785675966	1.036827469
74° 41′ 10″	0.96449343	0.26410686	3.651906030	0.273829609	3.786346214	1.036813703
74° 41′ 20″	0.96450623	0.26406010	3.652601202	0.273777493	3.787016707	1.036799940
74° 41′ 30″	0.96451903	0.26401334	3.653296620	0.273725378	3.787687447	1.036786180
74° 41′ 40″	0.96453183	0.26396657	3.653992285	0.273673265	3.788358433	1.036772423
74° 41′ 50″	0.96454462	0.26391981	3.654688197	0.273621153	3.789029667	1.036758668
74° 42′ 00″	0.96455742	0.26387305	3.655384355	0.273569043	3.789701147	1.036744916
74° 42′ 10″	0.96457021	0.26382629	3.656080759	0.273516934	3.790372873	1.036731167
74° 42′ 20″	0.96458300	0.26377952	3.656777411	0.273464826	3.791044847	1.036717421
74° 42′ 30″	0.96459579	0.26373276	3.657474310	0.273412720	3.791717069	1.036703678
74° 42′ 40″	0.96460857	0.26368599	3.658171456	0.273360615	3.792389537	1.036689937
74° 42′ 50″	0.96462135	0.26363923	3.658868849	0.273308512	3.793062253	1.036676200
74° 43′ 00″	0.96463414	0.26359246	3.659566490	0.273256410	3.793735217	1.036662465
74° 43′ 10″	0.96464691	0.26354569	3.660264378	0.273204309	3.794408428	1.036648732
74° 43′ 20″	0.96465969	0.26349893	3.660962515	0.273152210	3.795081887	1.036635003
74° 43′ 30″	0.96467246	0.26345216	3.661660898	0.273100112	3.795755595	1.036621277
74° 43′ 40″	0.96468523	0.26340539	3.662359530	0.273048015	3.796429550	1.036607553
74° 43′ 50″	0.96469800	0.26335862	3.663058411	0.272995920	3.797103754	1.036593832
74° 44′ 00″	0.96471077	0.26331185	3.663757539	0.272943826	3.797778206	1.036580114
74° 44′ 10″	0.96472353	0.26326508	3.664456916	0.272891733	3.798452907	1.036566398
74° 44′ 20″	0.96473630	0.26321831	3.665156541	0.272839642	3.799127857	1.036552686
74° 44′ 30″	0.96474906	0.26317153	3.665856415	0.272787553	3.799803055	1.036538976
74° 44′ 40″	0.96476182	0.26312476	3.666556538	0.272735464	3.800478502	1.036525269
74° 44′ 50″	0.96477457	0.26307799	3.667256910	0.272683377	3.801154199	1.036511565
74° 45′ 00″	0.96478732	0.26303121	3.667957531	0.272631292	3.801830144	1.036497864
74° 45′ 10″	0.96480007	0.26298444	3.668658401	0.272579208	3.802506339	1.036484165
74° 45′ 20″	0.96481282	0.26293766	3.669359520	0.272527125	3.803182784	1.036470469
74° 45′ 30″	0.96482557	0.26289089	3.670060889	0.272475043	3.803859478	1.036456776
74° 45′ 40″	0.96483831	0.26284411	3.670762508	0.272422963	3.804536422	1.036443086
74° 45′ 50″	0.96485106	0.26279734	3.671464376	0.272370885	3.805213616	1.036429399
74° 46′ 00″	0.96486380	0.26275056	3.672166494	0.272318807	3.805891060	1.036415714
74° 46′ 10″	0.96487653	0.26270378	3.672868862	0.272266731	3.806568754	1.036402033
74° 46′ 20″	0.96488927	0.26265700	3.673571481	0.272214657	3.807246699	1.036388354
74° 46′ 30″	0.96490200	0.26261022	3.674274350	0.272162584	3.807924894	1.036374677
74° 46′ 40″	0.96491473	0.26256344	3.674977469	0.272110512	3.808603339	1.036361004
74° 46′ 50″	0.96492746	0.26251666	3.675680839	0.272058441	3.809282036	1.036347333
74° 47′ 00″	0.96494019	0.26246988	3.676384459	0.272006372	3.809960983	1.036333666
74° 47′ 10″	0.96495291	0.26242310	3.677088331	0.271954305	3.810640181	1.036320001
74° 47′ 20″	0.96496563	0.26237631	3.677792453	0.271902238	3.811319631	1.036306338
74° 47′ 30″	0.96497835	0.26232953	3.678496827	0.271850173	3.811999332	1.036292679
74° 47′ 40″ 74° 47′ 50″	0.96499107	0.26228275 0.26223596	3.679201452	0.271798110 0.271746048	3.812679284	1.036279022
<u> </u>	0.76300378	0.20223376	3.679906328	0.2/1/46048	3.813359488	1.036265369

561 74° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
74° 48′ 00″	0.96501649	0.26218918	3.680611456	0.271693987	3.814039943	1.036251718
74° 48′ 10″	0.96502920	0.26214239	3.681316835	0.271641927	3.814720651	1.036238069
74° 48′ 20″	0.96504191	0.26209561	3.682022467	0.271589869	3.815401610	1.036224424
74° 48′ 30″	0.96505462	0.26204882	3.682728350	0.271537812	3.816082821	1.036210781
74° 48′ 40″	0.96506732	0.26200203	3.683434485	0.271485757	3.816764285	1.036197142
74° 48′ 50″	0.96508002	0.26195524	3.684140873	0.271433703	3.817446001	1.036183505
74° 49′ 00″	0.96509272	0.26190846	3.684847513	0.271381651	3.818127970	1.036169870
74° 49′ 10″	0.96510542	0.26186167	3.685554406	0.271329599	3.818810191	1.036156239
74° 49′ 20″	0.96511811	0.26181488	3.686261551	0.271277549	3.819492665	1.036142610
74° 49′ 30″	0.96513080	0.26176809	3.686968949	0.271225501	3.820175393	1.036128984
74° 49′ 40″	0.96514349	0.26172129	3.687676600	0.271173454	3.820858373	1.036115361
74° 49′ 50″	0.96515618	0.26167450	3.688384504	0.271121408	3.821541606	1.036101741
74° 50′ 00″	0.96516887	0.26162771	3.689092661	0.271069364	3.822225093	1.036088124
74° 50′ 10″	0.96518155	0.26158092	3.689801072	0.271017321	3.822908834	1.036074509
74° 50′ 20″	0.96519423	0.26153412	3.690509736	0.270965279	3.823592828	1.036060897
74° 50′ 30″	0.96520691	0.26148733	3.691218654	0.270913239	3.824277075	1.036047288
74° 50′ 40″	0.96521958	0.26144053	3.691927825	0.270861200	3.824961577	1.036033682
74° 50′ 50″	0.96523226	0.26139374	3.692637251	0.270809162	3.825646333	1.036020078
74° 51′ 00″	0.96524493	0.26134694	3.693346930	0.270757126	3.826331343	1.036006477
74° 51′ 10″	0.96525760	0.26130015	3.694056864	0.270705091	3.827016607	1.035992879
74° 51′ 20″	0.96527027	0.26125335	3.694767052	0.270653058	3.827702126	1.035979284
74° 51′ 30″	0.96528293	0.26120655	3.695477494	0.270601026	3.828387900	1.035965692
74° 51′ 40″	0.96529559	0.26115975	3.696188192	0.270548995	3.829073928	1.035952102
74° 51′ 50″	0.96530825	0.26111295	3.696899143	0.270496965	3.829760211	1.035938516
74° 52′ 00″	0.96532091	0.26106615	3.697610350	0.270444937	3.830446750	1.035924932
74° 52′ 10″	0.96533357	0.26101935	3.698321812	0.270392911	3.831133543	1.035911351
74° 52′ 20″	0.96534622	0.26097255	3.699033529	0.270340886	3.831820592	1.035897772
74° 52′ 30″	0.96535887	0.26092575	3.699745501	0.270288862	3.832507896	1.035884197
74° 52′ 40″	0.96537152	0.26087895	3.700457729	0.270236839	3.833195456	1.035870624
74° 52′ 50″	0.96538417	0.26083215	3.701170212	0.270184818	3.833883272	1.035857054
74° 53′ 00″	0.96539681	0.26078534	3.701882951	0.270132798	3.834571343	1.035843487
74° 53′ 10″	0.96540945	0.26073854	3.702595946	0.270080780	3.835259671	1.035829922
74° 53′ 20″	0.96542209	0.26069173	3.703309197	0.270028763	3.835948254	1.035816360
74° 53′ 30″	0.96543473	0.26064493	3.704022704	0.269976747	3.836637095	1.035802802
74° 53′ 40″ 74° 53′ 50″	0.96544737	0.26059812	3.704736468 3.705450488	0.269924732	3.837326191	1.035789246
74° 54′ 00″	0.96546000	0.26055132		0.269872719 0.269820708	3.838015544	1.035775692 1.035762142
74° 54′ 10″	0.96548526	0.26050451 0.26045770	3.706164764 3.706879298	0.269768698	3.838705154 3.839395021	1.035762142
74° 54′ 20″	0.96549789	0.26043770	3.706677278	0.269716689	3.840085145	1.035746574
74° 54′ 30″	0.96551051	0.26036408	3.708309135	0.269664681	3.840775526	1.035733047
74° 54′ 40″	0.96552313	0.26036408	3.709024439	0.269612675	3.841466164	1.035707968
74° 54′ 50″	0.96553575	0.26027046	3.709740001	0.269560670	3.842157060	1.035694431
74° 55′ 00″	0.76553373	0.26027046	3.710455819	0.267508666	3.842848213	1.035680897
74° 55′ 10″	0.76554837	0.26022363	3.711171896	0.269456664	3.843539624	1.035667366
74° 55′ 20″	0.96557360	0.26017684	3.711888230	0.269404664	3.844231293	1.035653838
74° 55′ 30″	0.96558621	0.26008322	3.712604822	0.269352664	3.844923220	1.035640313
74° 55′ 40″	0.96559881	0.26003640	3.713321673	0.269300666	3.845615405	1.035626790
74° 55′ 50″	0.96561142	0.25998959	3.714038781	0.269248669	3.846307849	1.035613270
	31, 0001112	3.2 3,73737		2.20,210007	2.0.10307017	

562 74° 55′ 50″

	sin(x)	$\cos(x)$	tan(x)	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
74° 56′ 00″	0.96562402	0.25994278	3.714756148	0.269196674	3.847000551	1.035599753
74° 56′ 10″	0.96563662	0.25989596	3.715473773	0.269144680	3.847693511	1.035586239
74° 56′ 20″	0.96564922	0.25984914	3.716191656	0.269092687	3.848386730	1.035572728
74° 56′ 30″	0.96566182	0.25980233	3.716909799	0.269040696	3.849080208	1.035559219
74° 56′ 40″	0.96567441	0.25975551	3.717628200	0.268988706	3.849773946	1.035545713
74° 56′ 50″	0.96568701	0.25970869	3.718346860	0.268936718	3.850467942	1.035532210
74° 57′ 00″	0.96569960	0.25966188	3.719065779	0.268884731	3.851162198	1.035518710
74° 57′ 10″	0.96571218	0.25961506	3.719784958	0.268832745	3.851856713	1.035505212
74° 57′ 20″	0.96572477	0.25956824	3.720504396	0.268780760	3.852551487	1.035491718
74° 57′ 30″	0.96573735	0.25952142	3.721224094	0.268728777	3.853246522	1.035478226
74° 57′ 40″	0.96574993	0.25947460	3.721944051	0.268676795	3.853941816	1.035464736
74° 57′ 50″	0.96576251	0.25942778	3.722664269	0.268624815	3.854637370	1.035451250
74° 58′ 00″	0.96577509	0.25938095	3.723384746	0.268572836	3.855333185	1.035437766
74° 58′ 10″	0.96578766	0.25933413	3.724105483	0.268520858	3.856029260	1.035424286
74° 58′ 20″	0.96580023	0.25928731	3.724826481	0.268468882	3.856725595	1.035410808
74° 58′ 30″	0.96581280	0.25924049	3.725547739	0.268416907	3.857422191	1.035397332
74° 58′ 40″	0.96582537	0.25919366	3.726269258	0.268364933	3.858119048	1.035383860
74° 58′ 50″	0.96583794	0.25914684	3.726991038	0.268312961	3.858816165	1.035370390
74° 59′ 00″	0.96585050	0.25910001	3.727713078	0.268260990	3.859513544	1.035356923
74° 59′ 10″	0.96586306	0.25905318	3.728435380	0.268209020	3.860211183	1.035343459
74° 59′ 20″	0.96587562	0.25900636	3.729157942	0.268157052	3.860909085	1.035329998
74° 59′ 30″	0.96588817	0.25895953	3.729880766	0.268105085	3.861607247	1.035316539
74° 59′ 40″	0.96590073	0.25891270	3.730603852	0.268053119	3.862305671	1.035303084
74° 59′ 50″	0.96591328	0.25886587	3.731327199	0.268001155	3.863004357	1.035289631
75° 00′ 00″	0.96592583	0.25881905	3.732050808	0.267949192	3.863703305	1.035276180
75° 00′ 10″	0.96593837	0.25877222	3.732774678	0.267897231	3.864402515	1.035262733
75° 00′ 20″	0.96595092	0.25872539	3.733498811	0.267845271	3.865101987	1.035249288
75° 00′ 30″	0.96596346	0.25867855	3.734223206	0.267793312	3.865801722	1.035235847
75° 00′ 40″	0.96597600	0.25863172	3.734947863	0.267741355	3.866501719	1.035222407
75° 00′ 50″	0.96598854	0.25858489	3.735672783	0.267689398	3.867201978	1.035208971
75° 01′ 00″	0.96600107	0.25853806	3.736397965	0.267637444	3.867902501	1.035195538
75° 01′ 10″	0.96601361	0.25849122	3.737123410	0.267585490	3.868603286	1.035182107
75° 01′ 20″	0.96602614	0.25844439	3.737849119	0.267533538	3.869304334	1.035168679
75° 01′ 30″	0.96603867	0.25839756	3.738575090	0.267481588	3.870005646	1.035155254
75° 01′ 40″	0.96605119	0.25835072	3.739301324	0.267429638	3.870707221	1.035141832
75° 01′ 50″	0.96606372	0.25830388	3.740027822	0.267377690	3.871409060	1.035128412
75° 02′ 00″	0.96607624	0.25825705	3.740754583	0.267325743	3.872111162	1.035114995
75° 02′ 10″	0.96608876	0.25821021	3.741481608	0.267273798	3.872813528	1.035101581
75° 02′ 20″	0.96610127	0.25816337	3.742208896	0.267221854	3.873516158	1.035088170
75° 02′ 30″	0.96611379	0.25811654	3.742936449	0.267169912	3.874219052	1.035074761
75° 02′ 40″	0.96612630	0.25806970	3.743664266	0.267117970	3.874922210	1.035061356
75° 02′ 50″	0.96613881	0.25802286	3.744392347	0.267066030	3.875625633	1.035047953
75° 03′ 00″	0.96615132	0.25797602	3.745120692	0.267014092	3.876329320	1.035034553
75° 03′ 10″	0.96616383	0.25792918	3.745849302	0.266962154	3.877033272	1.035021155
75° 03′ 20″	0.96617633	0.25788234	3.746578177	0.266910219	3.877737489	1.035007761
75° 03′ 30″	0.96618883	0.25783549	3.747307316	0.266858284	3.878441971	1.034994369
75° 03′ 40″	0.96620133	0.25778865	3.748036720	0.266806351	3.879146718	1.034980980
75° 03′ 50″	0.96621383	0.25774181	3.748766390	0.266754419	3.879851730	1.034967594

563 75° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
75° 04′ 00″	0.96622632	0.25769496	3.749496325	0.266702488	3.880557008	1.034954210
75° 04′ 10″	0.96623881	0.25764812	3.750226525	0.266650559	3.881262551	1.034940830
75° 04′ 20″	0.96625130	0.25760128	3.750956991	0.266598631	3.881968360	1.034927452
75° 04′ 30″	0.96626379	0.25755443	3.751687722	0.266546705	3.882674435	1.034914077
75° 04′ 40″	0.96627628	0.25750758	3.752418720	0.266494780	3.883380775	1.034900704
75° 04′ 50″	0.96628876	0.25746074	3.753149983	0.266442856	3.884087382	1.034887335
75° 05′ 00″	0.96630124	0.25741389	3.753881513	0.266390933	3.884794256	1.034873968
75° 05′ 10″	0.96631372	0.25736704	3.754613308	0.266339012	3.885501396	1.034860604
75° 05′ 20″	0.96632620	0.25732019	3.755345371	0.266287092	3.886208802	1.034847243
75° 05′ 30″	0.96633867	0.25727334	3.756077700	0.266235174	3.886916475	1.034833884
75° 05′ 40″	0.96635114	0.25722649	3.756810295	0.266183257	3.887624416	1.034820529
75° 05′ 50″	0.96636361	0.25717964	3.757543158	0.266131341	3.888332623	1.034807176
75° 06′ 00″	0.96637608	0.25713279	3.758276288	0.266079427	3.889041097	1.034793826
75° 06′ 10″	0.96638854	0.25708594	3.759009685	0.266027514	3.889749839	1.034780478
75° 06′ 20″	0.96640101	0.25703909	3.759743349	0.265975602	3.890458848	1.034767134
75° 06′ 30″	0.96641347	0.25699224	3.760477281	0.265923691	3.891168125	1.034753792
75° 06′ 40″	0.96642593	0.25694538	3.761211480	0.265871782	3.891877670	1.034740453
75° 06′ 50″	0.96643838	0.25689853	3.761945947	0.265819875	3.892587483	1.034727117
75° 07′ 00″	0.96645084	0.25685167	3.762680683	0.265767968	3.893297564	1.034713783
75° 07′ 10″	0.96646329	0.25680482	3.763415686	0.265716063	3.894007913	1.034700452
75° 07′ 20″	0.96647574	0.25675796	3.764150957	0.265664159	3.894718530	1.034687124
75° 07′ 30″	0.96648818	0.25671111	3.764886497	0.265612257	3.895429416	1.034673799
75° 07′ 40″	0.96650063	0.25666425	3.765622306	0.265560356	3.896140571	1.034660477
75° 07′ 50″	0.96651307	0.25661739	3.766358383	0.265508456	3.896851995	1.034647157
75° 08′ 00″	0.96652551	0.25657053	3.767094729	0.265456558	3.897563688	1.034633841
75° 08′ 10″	0.96653795	0.25652368	3.767831344	0.265404661	3.898275650	1.034620527
75° 08′ 20″	0.96655038	0.25647682	3.768568229	0.265352765	3.898987881	1.034607215
75° 08′ 30″	0.96656282	0.25642996	3.769305382	0.265300871	3.899700381	1.034593907
75° 08′ 40″	0.96657525	0.25638310	3.770042805	0.265248978	3.900413152	1.034580601
75° 08′ 50″	0.96658768	0.25633623	3.770780498	0.265197086	3.901126192	1.034567298
75° 09′ 00″	0.96660010	0.25628937	3.771518461	0.265145196	3.901839502	1.034553998
75° 09′ 10″	0.96661253	0.25624251	3.772256693	0.265093307	3.902553082	1.034540701
75° 09′ 20″	0.96662495	0.25619565	3.772995195	0.265041419	3.903266932	1.034527406
75° 09′ 30″	0.96663737	0.25614878	3.773733968	0.264989533	3.903981053	1.034514114
75° 09′ 40″	0.96664978	0.25610192	3.774473011	0.264937647	3.904695444	1.034500825
75° 09′ 50″	0.96666220	0.25605506	3.775212325	0.264885764	3.905410106	1.034487539
75° 10′ 00″	0.96667461	0.25600819	3.775951909	0.264833881	3.906125039	1.034474255
75° 10′ 10″	0.96668702	0.25596132	3.776691764	0.264782000	3.906840242	1.034460974
75° 10′ 20″	0.96669943	0.25591446	3.777431890	0.264730121	3.907555717	1.034447696
75° 10′ 30″	0.96671184	0.25586759	3.778172287	0.264678242	3.908271463	1.034434421
75° 10′ 40″	0.96672424	0.25582072	3.778912956	0.264626365	3.908987481	1.034421149
75° 10′ 50″ 75° 11′ 00″	0.96673664	0.25577385	3.779653896	0.264574490	3.909703770	1.034407879
75° 11′ 00″ 75° 11′ 10″	0.96674904	0.25572698	3.780395107 3.781136590	0.264522615	3.910420331	1.034394612
75° 11′ 10″ 75° 11′ 20″	0.96676144	0.25568012 0.25563324		0.264470742	3.911137164	1.034381348
75° 11′ 20″ 75° 11′ 30″	0.96677383		3.781878346	0.264418870	3.911854269	1.034368087
75° 11′ 30″ 75° 11′ 40″	0.96678623	0.25558637 0.25553950	3.782620373 3.783362672	0.264367000 0.264315131	3.912571646 3.913289295	1.034354828 1.034341572
75° 11′ 50″	0.96681100	0.25549263	3.784105244	0.264263263	3.914007217	1.034341372
	0.70001100	0.23347203	J./ UT 1UJZ44	0.204203203	J./ 1700/ Z1/	1.034340317

564 75° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
75° 12′ 00″	0.96682339	0.25544576	3.784848088	0.264211397	3.914725412	1.034315069
75° 12′ 10″	0.96683577	0.25539888	3.785591205	0.264159532	3.915443880	1.034301822
75° 12′ 20″	0.96684815	0.25535201	3.786334595	0.264107668	3.916162620	1.034288577
75° 12′ 30″	0.96686053	0.25530514	3.787078258	0.264055806	3.916881634	1.034275335
75° 12′ 40″	0.96687291	0.25525826	3.787822194	0.264003944	3.917600920	1.034262096
75° 12′ 50″	0.96688528	0.25521139	3.788566403	0.263952085	3.918320481	1.034248859
75° 13′ 00″	0.96689765	0.25516451	3.789310886	0.263900226	3.919040315	1.034235626
75° 13′ 10″	0.96691002	0.25511763	3.790055642	0.263848369	3.919760422	1.034222395
75° 13′ 20″	0.96692239	0.25507076	3.790800672	0.263796513	3.920480804	1.034209167
75° 13′ 30″	0.96693476	0.25502388	3.791545975	0.263744659	3.921201459	1.034195941
75° 13′ 40″	0.96694712	0.25497700	3.792291553	0.263692806	3.921922389	1.034182719
75° 13′ 50″	0.96695948	0.25493012	3.793037405	0.263640954	3.922643593	1.034169499
75° 14′ 00″	0.96697184	0.25488324	3.793783532	0.263589103	3.923365072	1.034156282
75° 14′ 10″	0.96698419	0.25483636	3.794529933	0.263537254	3.924086825	1.034143068
75° 14′ 20″	0.96699655	0.25478948	3.795276609	0.263485407	3.924808853	1.034129856
75° 14′ 30″	0.96700890	0.25474260	3.796023559	0.263433560	3.925531156	1.034116647
75° 14′ 40″	0.96702125	0.25469571	3.796770784	0.263381715	3.926253735	1.034103441
75° 14′ 50″	0.96703359	0.25464883	3.797518285	0.263329871	3.926976588	1.034090238
75° 15′ 00″	0.96704594	0.25460195	3.798266061	0.263278028	3.927699717	1.034077038
75° 15′ 10″	0.96705828	0.25455506	3.799014112	0.263226187	3.928423122	1.034063840
75° 15′ 20″	0.96707062	0.25450818	3.799762439	0.263174347	3.929146802	1.034050645
75° 15′ 30″	0.96708296	0.25446129	3.800511042	0.263122509	3.929870759	1.034037453
75° 15′ 40″	0.96709529	0.25441441	3.801259921	0.263070672	3.930594991	1.034024264
75° 15′ 50″	0.96710763	0.25436752	3.802009075	0.263018836	3.931319500	1.034011077
75° 16′ 00″	0.96711996	0.25432064	3.802758506	0.262967001	3.932044285	1.033997893
75° 16′ 10″	0.96713229	0.25427375	3.803508213	0.262915168	3.932769346	1.033984712
75° 16′ 20″	0.96714461	0.25422686	3.804258197	0.262863336	3.933494684	1.033971534
75° 16′ 30″	0.96715694	0.25417997	3.805008458	0.262811505	3.934220299	1.033958359
75° 16′ 40″	0.96716926	0.25413308	3.805758995	0.262759676	3.934946191	1.033945186
75° 16′ 50″	0.96718158	0.25408619	3.806509810	0.262707848	3.935672361	1.033932016
75° 17′ 00″	0.96719390	0.25403930	3.807260901	0.262656021	3.936398807	1.033918849
75° 17′ 10″	0.96720621	0.25399241	3.808012270	0.262604196	3.937125531	1.033905684
75° 17′ 20″	0.96721852	0.25394552	3.808763917	0.262552372	3.937852533	1.033892522
75° 17′ 30″	0.96723083	0.25389863	3.809515841	0.262500549	3.938579813	1.033879364
75° 17′ 40″	0.96724314	0.25385173	3.810268042	0.262448728	3.939307370	1.033866207
75° 17′ 50″	0.96725545	0.25380484	3.811020522	0.262396908	3.940035205	1.033853054
75° 18′ 00″	0.96726775	0.25375794	3.811773280	0.262345089	3.940763319	1.033839903
75° 18′ 10″	0.96728005	0.25371105	3.812526316	0.262293271	3.941491712	1.033826755
75° 18′ 20″	0.96729235	0.25366415	3.813279631	0.262241455	3.942220382	1.033813610
75° 18′ 30″	0.96730465	0.25361726	3.814033224	0.262189641	3.942949332	1.033800468
75° 18′ 40″	0.96731694	0.25357036	3.814787096	0.262137827	3.943678560	1.033787328
75° 18′ 50″	0.96732924	0.25352346	3.815541247	0.262086015	3.944408068	1.033774192
75° 19′ 00″ 75° 19′ 10″	0.96734153	0.25347657	3.816295677	0.262034204	3.945137855	1.033761058
	0.96735381	0.25342967	3.817050386	0.261982395	3.945867921	1.033747926
75° 19′ 20″	0.96736610	0.25338277	3.817805374	0.261930586	3.946598266	1.033734798
75° 19′ 30″ 75° 19′ 40″	0.96737838	0.25333587	3.818560642	0.261878779	3.947328892	1.033721672
75° 19′ 40″ 75° 19′ 50″	0.96739066 0.96740294	0.25328897 0.25324207	3.819316190 3.820072018	0.261826974 0.261775170	3.948059797 3.948790982	1.033708549 1.033695429
13 17 30	0./0/40274	0.4334440/	3.0400/4018	0.201//31/0	3./40/70702	1.033073447

565 75° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
75° 20′ 00″	0.96741522	0.25319517	3.820828125	0.261723367	3.949522447	1.033682311
75° 20′ 10″	0.96742749	0.25314827	3.821584513	0.261671565	3.950254193	1.033669197
75° 20′ 20″	0.96743977	0.25310136	3.822341181	0.261619765	3.950986219	1.033656085
75° 20′ 30″	0.96745203	0.25305446	3.823098130	0.261567966	3.951718526	1.033642975
75° 20′ 40″	0.96746430	0.25300756	3.823855359	0.261516168	3.952451114	1.033629869
75° 20′ 50″	0.96747657	0.25296065	3.824612869	0.261464371	3.953183982	1.033616765
75° 21′ 00″	0.96748883	0.25291375	3.825370660	0.261412576	3.953917132	1.033603664
75° 21′ 10″	0.96750109	0.25286684	3.826128732	0.261360783	3.954650563	1.033590566
75° 21′ 20″	0.96751335	0.25281994	3.826887086	0.261308990	3.955384275	1.033577471
75° 21′ 30″	0.96752560	0.25277303	3.827645720	0.261257199	3.956118269	1.033564378
75° 21′ 40″	0.96753786	0.25272612	3.828404637	0.261205409	3.956852545	1.033551288
75° 21′ 50″	0.96755011	0.25267921	3.829163835	0.261153621	3.957587103	1.033538201
75° 22′ 00″	0.96756236	0.25263231	3.829923315	0.261101834	3.958321943	1.033525117
75° 22′ 10″	0.96757461	0.25258540	3.830683078	0.261050048	3.959057065	1.033512035
75° 22′ 20″	0.96758685	0.25253849	3.831443122	0.260998263	3.959792469	1.033498957
75° 22′ 30″	0.96759909	0.25249158	3.832203449	0.260946480	3.960528156	1.033485881
75° 22′ 40″	0.96761133	0.25244467	3.832964059	0.260894698	3.961264126	1.033472807
75° 22′ 50″	0.96762357	0.25239775	3.833724951	0.260842917	3.962000379	1.033459737
75° 23′ 00″	0.96763581	0.25235084	3.834486126	0.260791138	3.962736914	1.033446669
75° 23′ 10″	0.96764804	0.25230393	3.835247585	0.260739360	3.963473733	1.033433604
75° 23′ 20″	0.96766027	0.25225702	3.836009326	0.260687583	3.964210836	1.033420542
75° 23′ 30″	0.96767250	0.25221010	3.836771351	0.260635808	3.964948221	1.033407482
75° 23′ 40″	0.96768472	0.25216319	3.837533659	0.260584034	3.965685891	1.033394425
75° 23′ 50″	0.96769695	0.25211627	3.838296251	0.260532261	3.966423844	1.033381371
75° 24′ 00″	0.96770917	0.25206936	3.839059127	0.260480489	3.967162082	1.033368320
75° 24′ 10″	0.96772139	0.25202244	3.839822287	0.260428719	3.967900603	1.033355272
75° 24′ 20″	0.96773361	0.25197553	3.840585732	0.260376950	3.968639409	1.033342226
75° 24′ 30″	0.96774582	0.25192861	3.841349460	0.260325183	3.969378500	1.033329183
75° 24′ 40″	0.96775803	0.25188169	3.842113473	0.260273416	3.970117875	1.033316143
75° 24′ 50″	0.96777025	0.25183477	3.842877771	0.260221651	3.970857535	1.033303106
75° 25′ 00″	0.96778245	0.25178785	3.843642353	0.260169888	3.971597480	1.033290071
75° 25′ 10″	0.96779466	0.25174093	3.844407221	0.260118126	3.972337710	1.033277039
75° 25′ 20″	0.96780686	0.25169401	3.845172374	0.260066364	3.973078225	1.033264010
75° 25′ 30″	0.96781906	0.25164709	3.845937812	0.260014605	3.973819026	1.033250983
75° 25′ 40″	0.96783126	0.25160017	3.846703535	0.259962846	3.974560113	1.033237960
75° 25′ 50″	0.96784346	0.25155325	3.847469545	0.259911089	3.975301485	1.033224939
75° 26′ 00″	0.96785565	0.25150633	3.848235840	0.259859333	3.976043143	1.033211921
75° 26′ 10″	0.96786785	0.25145940	3.849002421	0.259807579	3.976785088	1.033198905
75° 26′ 20″	0.96788004	0.25141248	3.849769288	0.259755826	3.977527319	1.033185893
75° 26′ 30″	0.96789222	0.25136555	3.850536441	0.259704074	3.978269836	1.033172883
75° 26′ 40″	0.96790441	0.25131863	3.851303881	0.259652323	3.979012640	1.033159876
75° 26′ 50″ 75° 27′ 00″	0.96791659	0.25127170	3.852071608	0.259600574	3.979755730	1.033146871
	0.96792877	0.25122478	3.852839622	0.259548826	3.980499108	1.033133870
75° 27′ 10″ 75° 27′ 20″	0.96794095	0.25117785	3.853607922	0.259497079	3.981242773	1.033120871
75° 27′ 20″ 75° 27′ 30″	0.96795313	0.25113092	3.854376509	0.259445334	3.981986725	1.033107875
75° 27′ 40″	0.96796530	0.25108399 0.25103707	3.855145384	0.259393590	3.982730964	1.033094882
75° 27′ 40″ 75° 27′ 50″	0.96797747	0.25103707	3.855914547 3.856683996	0.259341847 0.259290105	3.983475491 3.984220306	1.033081891 1.033068903
13 21 30	0.70770704	0.23077014	3.030003770	0.23/270103	J./044ZUJUB	1.033000703

566 75° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
75° 28′ 00″	0.96800181	0.25094321	3.857453734	0.259238365	3.984965409	1.033055918
75° 28′ 10″	0.96801398	0.25089628	3.858223760	0.259186626	3.985710800	1.033042936
75° 28′ 20″	0.96802614	0.25084935	3.858994074	0.259134889	3.986456479	1.033029956
75° 28′ 30″	0.96803830	0.25080241	3.859764676	0.259083152	3.987202447	1.033016979
75° 28′ 40″	0.96805046	0.25075548	3.860535566	0.259031417	3.987948703	1.033004005
75° 28′ 50″	0.96806261	0.25070855	3.861306745	0.258979684	3.988695248	1.032991034
75° 29′ 00″	0.96807477	0.25066162	3.862078213	0.258927951	3.989442082	1.032978066
75° 29′ 10″	0.96808692	0.25061468	3.862849970	0.258876220	3.990189205	1.032965100
75° 29′ 20″	0.96809907	0.25056775	3.863622016	0.258824491	3.990936618	1.032952137
75° 29′ 30″	0.96811121	0.25052081	3.864394352	0.258772762	3.991684319	1.032939177
75° 29′ 40″	0.96812336	0.25047388	3.865166976	0.258721035	3.992432311	1.032926219
75° 29′ 50″	0.96813550	0.25042694	3.865939891	0.258669309	3.993180592	1.032913264
75° 30′ 00″	0.96814764	0.25038000	3.866713095	0.258617584	3.993929163	1.032900312
75° 30′ 10″	0.96815978	0.25033307	3.867486589	0.258565861	3.994678024	1.032887363
75° 30′ 20″	0.96817191	0.25028613	3.868260373	0.258514139	3.995427176	1.032874416
75° 30′ 30″	0.96818405	0.25023919	3.869034448	0.258462418	3.996176617	1.032861473
75° 30′ 40″	0.96819618	0.25019225	3.869808813	0.258410699	3.996926350	1.032848532
75° 30′ 50″	0.96820831	0.25014531	3.870583468	0.258358981	3.997676373	1.032835593
75° 31′ 00″	0.96822043	0.25009837	3.871358415	0.258307264	3.998426687	1.032822658
75° 31′ 10″	0.96823256	0.25005143	3.872133652	0.258255548	3.999177293	1.032809725
75° 31′ 20″	0.96824468	0.25000449	3.872909180	0.258203834	3.999928189	1.032796795
75° 31′ 30″	0.96825680	0.24995755	3.873685000	0.258152121	4.000679377	1.032783868
75° 31′ 40″	0.96826891	0.24991060	3.874461111	0.258100410	4.001430857	1.032770943
75° 31′ 50″	0.96828103	0.24986366	3.875237514	0.258048699	4.002182628	1.032758022
75° 32′ 00″	0.96829314	0.24981672	3.876014209	0.257996990	4.002934692	1.032745103
75° 32′ 10″	0.96830525	0.24976977	3.876791195	0.257945282	4.003687047	1.032732186
75° 32′ 20″	0.96831736	0.24972283	3.877568474	0.257893576	4.004439695	1.032719273
75° 32′ 30″	0.96832947	0.24967588	3.878346045	0.257841871	4.005192635	1.032706362
75° 32′ 40″	0.96834157	0.24962893	3.879123908	0.257790167	4.005945868	1.032693454
75° 32′ 50″	0.96835367	0.24958199	3.879902064	0.257738464	4.006699393	1.032680549
75° 33′ 00″	0.96836577	0.24953504	3.880680513	0.257686763	4.007453212	1.032667646
75° 33′ 10″	0.96837787	0.24948809	3.881459255	0.257635063	4.008207323	1.032654747
75° 33′ 20″	0.96838996	0.24944114	3.882238290	0.257583364	4.008961728	1.032641850
75° 33′ 30″	0.96840205	0.24939419	3.883017618	0.257531667	4.009716427	1.032628955
75° 33′ 40″	0.96841414	0.24934725	3.883797240	0.257479971	4.010471419	1.032616064
75° 33′ 50″	0.96842623	0.24930029	3.884577155	0.257428276	4.011226705	1.032603175
75° 34′ 00″	0.96843832	0.24925334	3.885357365	0.257376582	4.011982284	1.032590289
75° 34′ 10″	0.96845040	0.24920639	3.886137868	0.257324890	4.012738158	1.032577406
75° 34′ 20″	0.96846248	0.24915944	3.886918665	0.257273199	4.013494327	1.032564525
75° 34′ 30″	0.96847456	0.24911249	3.887699757	0.257221510	4.014250789	1.032551648
75° 34′ 40″ 75° 34′ 50″	0.96848663	0.24906553	3.888481143	0.257169821 0.257118134	4.015007547	1.032538773 1.032525900
75° 34′ 50″ 75° 35′ 00″	0.96849871	0.24901858	3.889262824 3.890044800	0.25/118134	4.015764599	
75° 35′ 00″ 75° 35′ 10″	0.96851078	0.24897163			4.016521946	1.032513031 1.032500164
75° 35′ 10″ 75° 35′ 20″	0.96852285	0.24892467	3.890827070	0.257014764	4.017279588 4.018037526	
75° 35′ 20″ 75° 35′ 30″	0.96853492	0.24887772	3.891609636	0.256963080		1.032487300
75° 35′ 30″ 75° 35′ 40″	0.96854698	0.24883076 0.24878380	3.892392497 3.893175654	0.256911398 0.256859718	4.018795759 4.019554288	1.032474439 1.032461580
75° 35′ 50″	0.96857110	0.24873685	3.893959107	0.256808038	4.017334288	1.032448724
=======================================	0.7003/110	0.240/3003	3.0/3/3710/	0.230000030	7.020313113	1.034440/44

567 75° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
75° 36′ 00″	0.96858316	0.24868989	3.894742855		4.021072233	
75° 36′ 10″				0.256756360		1.032435871
	0.96859522	0.24864293	3.895526899	0.256704684	4.021831650	1.032423021
75° 36′ 20″	0.96860727	0.24859597	3.896311240	0.256653008	4.022591363	1.032410174
75° 36′ 30″	0.96861932	0.24854901	3.897095877	0.256601334	4.023351373	1.032397329
75° 36′ 40″	0.96863137	0.24850205	3.897880810	0.256549661	4.024111680	1.032384487
75° 36′ 50″	0.96864342	0.24845509	3.898666040	0.256497989	4.024872283	1.032371647
75° 37′ 00″	0.96865546	0.24840813	3.899451568	0.256446319	4.025633183	1.032358811
75° 37′ 10″	0.96866750	0.24836117	3.900237392	0.256394650	4.026394381	1.032345977
75° 37′ 20″	0.96867954	0.24831420	3.901023513	0.256342982	4.027155876	1.032333146
75° 37′ 30″	0.96869158	0.24826724	3.901809932	0.256291315	4.027917669	1.032320318
75° 37′ 40″	0.96870362	0.24822028	3.902596648	0.256239650	4.028679759	1.032307492
75° 37′ 50″	0.96871565	0.24817331	3.903383662	0.256187986	4.029442147	1.032294669
75° 38′ 00″	0.96872768	0.24812635	3.904170975	0.256136324	4.030204833	1.032281849
75° 38′ 10″	0.96873971	0.24807938	3.904958585	0.256084662	4.030967818	1.032269032
75° 38′ 20″	0.96875173	0.24803241	3.905746493	0.256033002	4.031731101	1.032256217
75° 38′ 30″	0.96876376	0.24798545	3.906534700	0.255981343	4.032494682	1.032243405
75° 38′ 40″	0.96877578	0.24793848	3.907323206	0.255929686	4.033258563	1.032230596
75° 38′ 50″	0.96878780	0.24789151	3.908112010	0.255878029	4.034022742	1.032217790
75° 39′ 00″	0.96879982	0.24784454	3.908901113	0.255826374	4.034787220	1.032204986
75° 39′ 10″	0.96881183	0.24779758	3.909690516	0.255774721	4.035551998	1.032192185
75° 39′ 20″	0.96882384	0.24775061	3.910480217	0.255723068	4.036317075	1.032179387
75° 39′ 30″	0.96883585	0.24770364	3.911270218	0.255671417	4.037082452	1.032166592
75° 39′ 40″	0.96884786	0.24765666	3.912060519	0.255619767	4.037848128	1.032153799
75° 39′ 50″	0.96885987	0.24760969	3.912851120	0.255568119	4.038614105	1.032141009
75° 40′ 00″	0.96887187	0.24756272	3.913642021	0.255516472	4.039380382	1.032128222
75° 40′ 10″	0.96888387	0.24751575	3.914433222	0.255464826	4.040146959	1.032115438
75° 40′ 20″	0.96889587	0.24746878	3.915224723	0.255413181	4.040913836	1.032102656
75° 40′ 30″	0.96890787	0.24742180	3.916016525	0.255361537	4.041681014	1.032089877
75° 40′ 40″	0.96891986	0.24737483	3.916808627	0.255309895	4.042448494	1.032077101
75° 40′ 50″	0.96893185	0.24732785	3.917601031	0.255258254	4.043216274	1.032064328
75° 41′ 00″	0.96894384	0.24728088	3.918393735	0.255206615	4.043984355	1.032051557
75° 41′ 10″ 75° 41′ 20″	0.96895583	0.24723390	3.919186741	0.255154976	4.044752738	1.032038789
75° 41′ 20″ 75° 41′ 30″	0.96896781	0.24718692	3.919980048	0.255103339	4.045521422	1.032026024
	0.96897980	0.24713995	3.920773657	0.255051703	4.046290408	1.032013261
75° 41′ 40″	0.96899178	0.24709297	3.921567567	0.255000069	4.047059696	1.032000502
75° 41′ 50″	0.96900376	0.24704599	3.922361780	0.254948436	4.047829286	1.031987745
75° 42′ 00″	0.96901573	0.24699901	3.923156294	0.254896804	4.048599179	1.031974990
75° 42′ 10″	0.96902771	0.24695203	3.923951111	0.254845173	4.049369373	1.031962239
75° 42′ 20″	0.96903968	0.24690505	3.924746230	0.254793544	4.050139871	1.031949490
75° 42′ 30″	0.96905165	0.24685807	3.925541652	0.254741916	4.050910671	1.031936744
75° 42′ 40″	0.96906361	0.24681109	3.926337377	0.254690289	4.051681774	1.031924001
75° 42′ 50″	0.96907558	0.24676411	3.927133405	0.254638663	4.052453180	1.031911260
75° 43′ 00″	0.96908754	0.24671713	3.927929736	0.254587039	4.053224890	1.031898522
75° 43′ 10″	0.96909950	0.24667014	3.928726370	0.254535416	4.053996903	1.031885787
75° 43′ 20″	0.96911146	0.24662316	3.929523308	0.254483794	4.054769220	1.031873055
75° 43′ 30″	0.96912341	0.24657618	3.930320549	0.254432174	4.055541840	1.031860325
75° 43′ 40″	0.96913537	0.24652919	3.931118094	0.254380554	4.056314765	1.031847598
75° 43′ 50″	0.96914732	0.24648221	3.931915944	0.254328936	4.057087994	1.031834874

568 75° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
75° 44′ 00″	0.96915927	0.24643522	3.932714098	0.254277320	4.057861527	1.031822153
75° 44′ 00″ 75° 44′ 10″	0.96913927	0.24643522	3.932/14098 3.933512556	0.254277320	4.05/86152/	1.031822153
75° 44′ 10″	0.96917121	0.24636025	3.934311318	0.254174090	4.059409507	1.031796718
75° 44′ 30″	0.96919510	0.24634123	3.935110386	0.254174090	4.060183955	1.031796718
75° 44′ 40″	0.96919310	0.24624426	3.935909758	0.254070866	4.060183733	1.031784003
75° 44′ 50″	0.96921897	0.24624727	3.936709436	0.254070866	4.060738708	1.031771293
75° 45′ 00″	0.96923091	0.24620028	3.937509419	0.253967646	4.061733763	1.031736367
75° 45′ 10″	0.96924284	0.24613329	3.938309707	0.253916039	4.062309129	1.031743882
75° 45′ 20″	0.76724284	0.24605931	3.939110301	0.253864432	4.064060772	1.031733180
75° 45′ 30″	0.76723477	0.24603731	3.939911201	0.253812827	4.064837053	1.031720481
75° 45′ 40″	0.96927863	0.24596533	3.940712407	0.253761223	4.065613640	1.031707704
75° 45′ 50″	0.76727863	0.24570333	3.941513919	0.253707620	4.066390533	1.031682399
75° 46′ 00″	0.96930247	0.24571034	3.942315737	0.253658019	4.067167733	1.031662377
75° 46′ 10″	0.96931439	0.24582435	3.943117862	0.253606419	4.067945240	1.031657024
75° 46′ 20″	0.96932631	0.24577736	3.943920294	0.253554820	4.068723053	1.031644341
75° 46′ 30″	0.96933822	0.24577736	3.944723032	0.253503222	4.069501174	1.031631661
75° 46′ 40″	0.96935013	0.24568337	3.945526078	0.253451626	4.070279601	1.031618983
75° 46′ 50″	0.96936204	0.24563637	3.946329431	0.253400031	4.071058337	1.031606308
75° 47′ 00″	0.96937395	0.24558938	3.947133092	0.253348437	4.071837379	1.031593636
75° 47′ 10″	0.96938586	0.24554238	3.947937060	0.253296845	4.072616730	1.031580967
75° 47′ 20″	0.96939776	0.24549538	3.948741336	0.253245253	4.073396388	1.031568300
75° 47′ 30″	0.96940966	0.24544838	3.949545920	0.253193663	4.074176355	1.031555636
75° 47′ 40″	0.96942156	0.24540138	3.950350812	0.253142075	4.074956630	1.031542975
75° 47′ 50″	0.96943346	0.24535439	3.951156012	0.253090487	4.075737214	1.031530317
75° 48′ 00″	0.96944535	0.24530739	3.951961521	0.253038901	4.076518106	1.031517661
75° 48′ 10″	0.96945724	0.24526039	3.952767339	0.252987316	4.077299307	1.031505008
75° 48′ 20″	0.96946913	0.24521338	3.953573466	0.252935732	4.078080817	1.031492358
75° 48′ 30″	0.96948102	0.24516638	3.954379902	0.252884150	4.078862636	1.031479711
75° 48′ 40″	0.96949290	0.24511938	3.955186647	0.252832569	4.079644765	1.031467066
75° 48′ 50″	0.96950479	0.24507238	3.955993701	0.252780989	4.080427203	1.031454424
75° 49′ 00″	0.96951667	0.24502538	3.956801065	0.252729410	4.081209952	1.031441785
75° 49′ 10″	0.96952854	0.24497837	3.957608739	0.252677833	4.081993010	1.031429148
75° 49′ 20″	0.96954042	0.24493137	3.958416723	0.252626257	4.082776378	1.031416514
75° 49′ 30″	0.96955229	0.24488436	3.959225017	0.252574682	4.083560057	1.031403883
75° 49′ 40″	0.96956416	0.24483736	3.960033622	0.252523109	4.084344046	1.031391255
75° 49′ 50″	0.96957603	0.24479035	3.960842537	0.252471536	4.085128345	1.031378629
75° 50′ 00″	0.96958790	0.24474334	3.961651762	0.252419965	4.085912956	1.031366006
75° 50′ 10″	0.96959976	0.24469634	3.962461299	0.252368395	4.086697878	1.031353386
75° 50′ 20″	0.96961163	0.24464933	3.963271147	0.252316827	4.087483111	1.031340769
75° 50′ 30″	0.96962349	0.24460232	3.964081306	0.252265260	4.088268655	1.031328154
75° 50′ 40″	0.96963534	0.24455531	3.964891776	0.252213694	4.089054511	1.031315542
75° 50′ 50″	0.96964720	0.24450830	3.965702558	0.252162129	4.089840679	1.031302933
75° 51′ 00″	0.96965905	0.24446129	3.966513652	0.252110566	4.090627159	1.031290326
75° 51′ 10″	0.96967090	0.24441428	3.967325058	0.252059003	4.091413951	1.031277723
75° 51′ 20″	0.96968275	0.24436727	3.968136776	0.252007442	4.092201055	1.031265122
75° 51′ 30″	0.96969460	0.24432026	3.968948807	0.251955883	4.092988472	1.031252523
75° 51′ 40″	0.96970644	0.24427325	3.969761150	0.251904324	4.093776201	1.031239928
75° 51′ 50″	0.96971828	0.24422623	3.970573806	0.251852767	4.094564244	1.031227335

569 75° 51′ 50″

	gin (a)	222(24)	tom(ac)	22+(24)	555(24)	252(24)
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
75° 52′ 00″	0.96973012	0.24417922	3.971386774	0.251801211	4.095352599	1.031214745
75° 52′ 10″	0.96974196	0.24413221	3.972200056	0.251749657	4.096141268	1.031202157
75° 52′ 20″	0.96975379	0.24408519	3.973013651	0.251698103	4.096930250	1.031189573
75° 52′ 30″	0.96976563	0.24403818	3.973827560	0.251646551	4.097719546	1.031176991
75° 52′ 40″	0.96977746	0.24399116	3.974641782	0.251595000	4.098509156	1.031164412
75° 52′ 50″	0.96978928	0.24394414	3.975456319	0.251543451	4.099299079	1.031151835
75° 53′ 00″	0.96980111	0.24389713	3.976271169	0.251491902	4.100089317	1.031139262
75° 53′ 10″	0.96981293	0.24385011	3.977086333	0.251440355	4.100879869	1.031126691
75° 53′ 20″	0.96982475	0.24380309	3.977901812	0.251388809	4.101670736	1.031114122
75° 53′ 30″	0.96983657	0.24375607	3.978717606	0.251337265	4.102461918	1.031101557
75° 53′ 40″	0.96984839	0.24370905	3.979533714	0.251285721	4.103253414	1.031088994
75° 53′ 50″	0.96986020	0.24366203	3.980350137	0.251234179	4.104045226	1.031076434
75° 54′ 00″	0.96987202	0.24361501	3.981166875	0.251182638	4.104837352	1.031063877
75° 54′ 10″	0.96988382	0.24356799	3.981983929	0.251131099	4.105629795	1.031051322
75° 54′ 20″	0.96989563	0.24352097	3.982801298	0.251079561	4.106422553	1.031038770
75° 54′ 30″	0.96990744	0.24347395	3.983618983	0.251028024	4.107215627	1.031026221
75° 54′ 40″	0.96991924	0.24342692	3.984436984	0.250976488	4.108009017	1.031013675
75° 54′ 50″	0.96993104	0.24337990	3.985255301	0.250924953	4.108802723	1.031001131
75° 55′ 00″	0.96994284	0.24333288	3.986073934	0.250873420	4.109596745	1.030988590
75° 55′ 10″	0.96995463	0.24328585	3.986892884	0.250821888	4.110391085	1.030976052
75° 55′ 20″	0.96996643	0.24323883	3.987712150	0.250770357	4.111185741	1.030963516
75° 55′ 30″	0.96997822	0.24319180	3.988531734	0.250718828	4.111980714	1.030950984
75° 55′ 40″	0.96999001	0.24314478	3.989351634	0.250667299	4.112776004	1.030938454
75° 55′ 50″	0.97000180	0.24309775	3.990171851	0.250615772	4.113571611	1.030925926
75° 56′ 00″	0.97001358	0.24305072	3.990992386	0.250564247	4.114367536	1.030913402
75° 56′ 10″	0.97002536	0.24300369	3.991813238	0.250512722	4.115163779	1.030900880
75° 56′ 20″	0.97003714	0.24295667	3.992634409	0.250461199	4.115960340	1.030888361
75° 56′ 30″	0.97004892	0.24290964	3.993455897	0.250409677	4.116757219	1.030875844
75° 56′ 40″	0.97006070	0.24286261	3.994277703	0.250358156	4.117554416	1.030863331
75° 56′ 50″	0.97007247	0.24281558	3.995099828	0.250306636	4.118351932	1.030850820
75° 57′ 00″	0.97008424	0.24276855	3.995922271	0.250255118	4.119149766	1.030838311
75° 57′ 10″	0.97009601	0.24272151	3.996745033	0.250203601	4.119947919	1.030825806
75° 57′ 20″	0.97010778	0.24267448	3.997568114	0.250152085	4.120746391	1.030813303
75° 57′ 30″	0.97011954	0.24262745	3.998391514	0.250100571	4.121545183	1.030800803
75° 57′ 40″	0.97013130	0.24258042	3.999215233	0.250049058	4.122344294	1.030788306
75° 57′ 50″	0.97014306	0.24253338	4.000039271	0.249997546	4.123143725	1.030775811
75° 58′ 00″	0.97015482	0.24248635	4.000863630	0.249946035	4.123943475	1.030763319
75° 58′ 10″	0.97016657	0.24243932	4.001688308	0.249894525	4.124743545	1.030750830
75° 58′ 20″	0.97017833	0.24239228	4.002513306	0.249843017	4.125543936	1.030738344
75° 58′ 30″	0.97019008	0.24234524	4.003338625	0.249791510	4.126344647	1.030725860
75° 58′ 40″	0.97020182	0.24229821	4.004164264	0.249740004	4.127145678	1.030713379
75° 58′ 50″	0.97021357	0.24225117	4.004990223	0.249688500	4.127947031	1.030700901
75° 59′ 00″	0.97022531	0.24220413	4.005816504	0.249636996	4.128748704	1.030688425
75° 59′ 10″	0.97023705	0.24215709	4.006643105	0.249585494	4.129550698	1.030675952
75° 59′ 20″	0.97024879	0.24211006	4.007470028	0.249533994	4.130353014	1.030663482
75° 59′ 30″	0.97026053	0.24206302	4.008297271	0.249482494	4.131155651	1.030651015
75° 59′ 40″	0.97027226	0.24201598	4.009124837	0.249430996	4.131958610	1.030638550
75° 59′ 50″	0.97028400	0.24196894	4.009952724	0.249379499	4.132761891	1.030626089

570 75° 59′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	asa(v)
						csc(x)
76° 00′ 00″	0.97029573	0.24192190	4.010780934	0.249328003	4.133565494	1.030613629
76° 00′ 10″	0.97030745	0.24187485	4.011609465	0.249276508	4.134369420	1.030601173
76° 00′ 20″	0.97031918	0.24182781	4.012438319	0.249225015	4.135173668	1.030588719
76° 00′ 30″	0.97033090	0.24178077	4.013267495	0.249173523	4.135978238	1.030576268
76° 00′ 40″	0.97034262	0.24173373	4.014096994	0.249122032	4.136783131	1.030563820
76° 00′ 50″	0.97035434	0.24168668	4.014926816	0.249070542	4.137588348	1.030551374
76° 01′ 00″	0.97036606	0.24163964	4.015756961	0.249019054	4.138393888	1.030538931
76° 01′ 10″	0.97037777	0.24159259	4.016587429	0.248967567	4.139199751	1.030526491
76° 01′ 20″	0.97038948	0.24154555	4.017418221	0.248916081	4.140005938	1.030514054
76° 01′ 30″	0.97040119	0.24149850	4.018249337	0.248864597	4.140812448	1.030501619
76° 01′ 40″	0.97041290	0.24145145	4.019080776	0.248813113	4.141619283	1.030489187
76° 01′ 50″	0.97042460	0.24140441	4.019912539	0.248761631	4.142426442	1.030476758
76° 02′ 00″	0.97043631	0.24135736	4.020744627	0.248710150	4.143233925	1.030464332
76° 02′ 10″	0.97044801	0.24131031	4.021577039	0.248658671	4.144041733	1.030451908
76° 02′ 20″	0.97045970	0.24126326	4.022409776	0.248607192	4.144849866	1.030439487
76° 02′ 30″	0.97047140	0.24121621	4.023242838	0.248555715	4.145658323	1.030427068
76° 02′ 40″	0.97048309	0.24116916	4.024076225	0.248504239	4.146467106	1.030414653
76° 02′ 50″	0.97049478	0.24112211	4.024909937	0.248452764	4.147276214	1.030402240
76° 03′ 00″	0.97050647	0.24107506	4.025743974	0.248401291	4.148085648	1.030389830
76° 03′ 10″	0.97051816	0.24102801	4.026578337	0.248349819	4.148895408	1.030377422
76° 03′ 20″	0.97052984	0.24098096	4.027413026	0.248298348	4.149705494	1.030365018
76° 03′ 30″	0.97054153	0.24093390	4.028248041	0.248246878	4.150515905	1.030352616
76° 03′ 40″	0.97055321	0.24088685	4.029083382	0.248195410	4.151326643	1.030340216
76° 03′ 50″	0.97056488	0.24083980	4.029919050	0.248143942	4.152137708	1.030327820
76° 04′ 00″	0.97057656	0.24079274	4.030755044	0.248092476	4.152949099	1.030315426
76° 04′ 10″ 76° 04′ 20″	0.97058823	0.24074569	4.031591365	0.248041011	4.153760818	1.030303035
76° 04′ 20″ 76° 04′ 30″	0.97059990	0.24069863	4.032428013	0.247989548	4.154572863	1.030290646
76° 04′ 40″	0.97061157	0.24065157	4.033264988	0.247938086	4.155385236	1.030278261
76° 04′ 50″	0.97062324	0.24060452 0.24055746	4.034102290 4.034939920	0.247886625 0.247835165	4.156197937 4.157010965	1.030265878 1.030253497
76° 05′ 00″	0.97063490	0.24055746		0.24783706	4.157824321	1.030253497
76° 05′ 10″	0.97064636	0.24031040	4.035777878 4.036616164	0.247732249	4.158638005	1.030241120
76° 05′ 20″	0.97063822	0.24041628	4.036616164	0.247732249	4.159452017	1.030226743
76° 05′ 30″	0.97068153	0.24041628	4.038293720	0.247629338	4.137432017	1.030216373
76° 05′ 40″	0.77068133	0.24032216	4.039132991	0.247577884	4.161081028	1.030204004
76° 05′ 50″	0.97070483	0.24032210	4.037732771	0.247577684	4.161896026	1.030171037
76° 06′ 00″	0.97071648	0.24027310	4.040812520	0.247474981	4.162711354	1.030177273
76° 06′ 10″	0.97072813	0.24022804	4.041652777	0.247474781	4.163527011	1.030154553
76° 06′ 20″	0.97073977	0.24013392	4.041632777	0.247423331	4.163327011	1.030134333
76° 06′ 30″	0.97075141	0.24013372	4.042473364	0.247372082	4.164342778	1.030142177
76° 06′ 40″	0.97076305	0.24003979	4.043334281	0.247320633	4.165975960	1.030127844
76° 06′ 40″ 76° 06′ 50″	0.97076303	0.24003777	4.044173328	0.247217743	4.163773760	1.030117474
76° 07′ 00″	0.97077469	0.23994566	4.045859011	0.247217743	4.166/72736	1.030103146
76° 07′ 00″ 76° 07′ 10″	0.97078632	0.23989860	4.045859011	0.247114857	4.167610242	1.030092801
76° 07′ 10″ 76° 07′ 20″	0.97079793	0.23985153	4.046701247		4.168427879	1.030080439
76° 07′ 30″	0.97080938	0.23980446	4.04/343813	0.247063416 0.247011976		1.030068120
76° 07′ 40″	0.97082121	0.23980446	4.048386713	0.24/0119/6	4.170064146	1.030055785
76° 07′ 40″ 76° 07′ 50″	0.97083283	0.23975740	4.049229942	0.246960537	4.170882775 4.171701736	1.030043449
76 U/ 3U**	0.77004446	0.437/1033	4.0300/3302	0.240707077	4.1/1/01/36	1.030031118

571 76° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\csc(x)$
76° 08′ 00″	0.97085608	0.23966326	4.050917394	0.246857663	4.172521028	1.030018789
76° 08′ 10″	0.97086769	0.23760520	4.051761617	0.246806228	4.173340652	1.030006463
76° 08′ 20″	0.97087931	0.23956912	4.052606172	0.246754794	4.174160608	1.029994140
76° 08′ 30″	0.97089092	0.23750712	4.053451059	0.246703361	4.174780896	1.029981819
76° 08′ 40″	0.97090253	0.23732203	4.054296278	0.246651930	4.175801517	1.029969502
76° 08′ 50″	0.97091414	0.23942791	4.055141829	0.246600499	4.176622469	1.029957187
76° 09′ 00″	0.97092575	0.23742771	4.055987713	0.246549070	4.177443755	1.029944874
76° 09′ 10″	0.97093735	0.23933377	4.056833929	0.246497643	4.178265373	1.029932565
76° 09′ 20″	0.97094896	0.23928670	4.057680479	0.246446216	4.179087325	1.029920258
76° 09′ 30″	0.97096056	0.23723070	4.058527361	0.246394791	4.179909609	1.029907954
76° 09′ 40″	0.97097215	0.23723762	4.059374577	0.246343367	4.180732227	1.029895652
76° 09′ 50″	0.97098375	0.23717233	4.060222127	0.246291944	4.181555179	1.029883353
76° 10′ 00″	0.97099534	0.23909840	4.061070010	0.246240522	4.182378465	1.029871057
76° 10′ 10″	0.97100693	0.23905132	4.061918227	0.246189102	4.183202085	1.029858764
76° 10′ 20″	0.97101852	0.23900425	4.062766778	0.246137683	4.184026039	1.029846473
76° 10′ 30″	0.97103011	0.23895717	4.063615664	0.246086265	4.184850327	1.029834186
76° 10′ 40″	0.97104169	0.23891009	4.064464884	0.246034848	4.185674951	1.029821900
76° 10′ 50″	0.97105327	0.23886302	4.065314439	0.245983433	4.186499909	1.029809618
76° 11′ 00″	0.97106485	0.23881594	4.066164329	0.245932018	4.187325202	1.029797338
76° 11′ 10″	0.97107643	0.23876886	4.067014554	0.245880605	4.188150831	1.029785061
76° 11′ 20″	0.97108800	0.23872178	4.067865114	0.245829193	4.188976795	1.029772787
76° 11′ 30″	0.97109958	0.23867470	4.068716010	0.245777783	4.189803094	1.029760515
76° 11′ 40″	0.97111115	0.23862762	4.069567242	0.245726374	4.190629730	1.029748246
76° 11′ 50″	0.97112271	0.23858054	4.070418809	0.245674965	4.191456702	1.029735980
76° 12′ 00″	0.97113428	0.23853346	4.071270713	0.245623558	4.192284010	1.029723717
76° 12′ 10″	0.97114584	0.23848638	4.072122953	0.245572153	4.193111654	1.029711456
76° 12′ 20″	0.97115740	0.23843929	4.072975530	0.245520748	4.193939636	1.029699198
76° 12′ 30″	0.97116896	0.23839221	4.073828443	0.245469345	4.194767954	1.029686942
76° 12′ 40″	0.97118052	0.23834513	4.074681694	0.245417943	4.195596609	1.029674690
76° 12′ 50″	0.97119207	0.23829804	4.075535281	0.245366542	4.196425602	1.029662440
76° 13′ 00″	0.97120363	0.23825096	4.076389206	0.245315143	4.197254932	1.029650193
76° 13′ 10″	0.97121517	0.23820387	4.077243469	0.245263744	4.198084600	1.029637948
76° 13′ 20″	0.97122672	0.23815678	4.078098070	0.245212347	4.198914606	1.029625706
76° 13′ 30″	0.97123827	0.23810970	4.078953008	0.245160951	4.199744949	1.029613467
76° 13′ 40″	0.97124981	0.23806261	4.079808285	0.245109557	4.200575632	1.029601231
76° 13′ 50″	0.97126135	0.23801552	4.080663900	0.245058163	4.201406653	1.029588997
76° 14′ 00″	0.97127289	0.23796843	4.081519853	0.245006771	4.202238012	1.029576766
76° 14′ 10″	0.97128442	0.23792135	4.082376146	0.244955380	4.203069711	1.029564538
76° 14′ 20″	0.97129596	0.23787426	4.083232777	0.244903990	4.203901749	1.029552313
76° 14′ 30″	0.97130749	0.23782717	4.084089748	0.244852602	4.204734126	1.029540090
76° 14′ 40″	0.97131902	0.23778008	4.084947058	0.244801214	4.205566842	1.029527870
76° 14′ 50″	0.97133055	0.23773298	4.085804708	0.244749828	4.206399899	1.029515652
76° 15′ 00″	0.97134207	0.23768589	4.086662697	0.244698443	4.207233295	1.029503438
76° 15′ 10″	0.97135359	0.23763880	4.087521027	0.244647060	4.208067032	1.029491226
76° 15′ 20″	0.97136511	0.23759171	4.088379697	0.244595677	4.208901109	1.029479016
76° 15′ 30″	0.97137663	0.23754461	4.089238707	0.244544296	4.209735527	1.029466810
76° 15′ 40″	0.97138814	0.23749752	4.090098058	0.244492916	4.210570285	1.029454606
76° 15′ 50″	0.97139966	0.23745043	4.090957750	0.244441537	4.211405384	1.029442405

572 76° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
76° 16′ 00″	0.97141117	0.23740333	4.091817783	0.244390159	4.212240825	1.029430206
76° 16′ 10″	0.97142268	0.23735623	4.092678157	0.244338783	4.213076607	1.029418011
76° 16′ 20″	0.97143418	0.23730914	4.093538873	0.244287408	4.213912731	1.029405818
76° 16′ 30″	0.97144569	0.23726204	4.094399930	0.244236034	4.214749197	1.029393627
76° 16′ 40″	0.97145719	0.23721494	4.095261330	0.244184661	4.215586004	1.029381440
76° 16′ 50″	0.97146869	0.23716785	4.096123071	0.244133290	4.216423154	1.029369255
76° 17′ 00″	0.97148019	0.23712075	4.096985155	0.244081919	4.217260647	1.029357073
76° 17′ 10″	0.97149168	0.23707365	4.097847582	0.244030550	4.218098482	1.029344893
76° 17′ 20″	0.97150317	0.23702655	4.098710351	0.243979182	4.218936660	1.029332717
76° 17′ 30″	0.97151466	0.23697945	4.099573463	0.243927816	4.219775181	1.029320543
76° 17′ 40″	0.97152615	0.23693235	4.100436918	0.243876450	4.220614045	1.029308371
76° 17′ 50″	0.97153764	0.23688525	4.101300717	0.243825086	4.221453253	1.029296203
76° 18′ 00″	0.97154912	0.23683815	4.102164859	0.243773723	4.222292805	1.029284037
76° 18′ 10″	0.97156060	0.23679104	4.103029345	0.243722361	4.223132700	1.029271873
76° 18′ 20″	0.97157208	0.23674394	4.103894175	0.243671001	4.223972940	1.029259713
76° 18′ 30″	0.97158356	0.23669684	4.104759349	0.243619641	4.224813524	1.029247555
76° 18′ 40″	0.97159503	0.23664973	4.105624867	0.243568283	4.225654452	1.029235400
76° 18′ 50″	0.97160650	0.23660263	4.106490731	0.243516926	4.226495726	1.029223248
76° 19′ 00″	0.97161797	0.23655552	4.107356939	0.243465570	4.227337344	1.029211098
76° 19′ 10″	0.97162944	0.23650842	4.108223492	0.243414216	4.228179308	1.029198951
76° 19′ 20″	0.97164090	0.23646131	4.109090390	0.243362863	4.229021617	1.029186807
76° 19′ 30″	0.97165237	0.23641421	4.109957634	0.243311511	4.229864271	1.029174665
76° 19′ 40″	0.97166383	0.23636710	4.110825223	0.243260160	4.230707271	1.029162526
76° 19′ 50″	0.97167529	0.23631999	4.111693159	0.243208810	4.231550618	1.029150390
76° 20′ 00″	0.97168674	0.23627288	4.112561440	0.243157461	4.232394310	1.029138257
76° 20′ 10″	0.97169820	0.23622577	4.113430068	0.243106114	4.233238349	1.029126126
76° 20′ 20″	0.97170965	0.23617866	4.114299042	0.243054768	4.234082735	1.029113998
76° 20′ 30″	0.97172110	0.23613155	4.115168363	0.243003423	4.234927468	1.029101872
76° 20′ 40″	0.97173254	0.23608444	4.116038031	0.242952080	4.235772547	1.029089750
76° 20′ 50″	0.97174399	0.23603733	4.116908046	0.242900737	4.236617974	1.029077630
76° 21′ 00″	0.97175543	0.23599022	4.117778409	0.242849396	4.237463749	1.029065513
76° 21′ 10″	0.97176687	0.23594311	4.118649119	0.242798056	4.238309871	1.029053398
76° 21′ 20″	0.97177831	0.23589599	4.119520177	0.242746717	4.239156341	1.029041286
76° 21′ 30″	0.97178974	0.23584888	4.120391583	0.242695380	4.240003160	1.029029177
76° 21′ 40″	0.97180118	0.23580177	4.121263337	0.242644043	4.240850326	1.029017071
76° 21′ 50″	0.97181261	0.23575465	4.122135439	0.242592708	4.241697842	1.029004967
76° 22′ 00″	0.97182404	0.23570754	4.123007890	0.242541374	4.242545706	1.028992866
76° 22′ 10″	0.97183546	0.23566042	4.123880690	0.242490042	4.243393919	1.028980768
76° 22′ 20″	0.97184689	0.23561331	4.124753839	0.242438710	4.244242481	1.028968672
76° 22′ 30″	0.97185831	0.23556619	4.125627338	0.242387380	4.245091392	1.028956579
76° 22′ 40″	0.97186973	0.23551907	4.126501186	0.242336051	4.245940654	1.028944489
76° 22′ 50″	0.97188114	0.23547195	4.127375383	0.242284723	4.246790265	1.028932401
76° 23′ 00″	0.97189256	0.23542484	4.128249931	0.242233396	4.247640226	1.028920317
76° 23′ 10″	0.97190397	0.23537772	4.129124828	0.242182070	4.248490538	1.028908235
76° 23′ 20″	0.97191538	0.23533060	4.130000076	0.242130746	4.249341200	1.028896155
76° 23′ 30″	0.97192679	0.23528348	4.130875675	0.242079423	4.250192212	1.028884079
76° 23′ 40″ 76° 23′ 50″	0.97193820	0.23523636	4.131751624	0.242028101	4.251043576	1.028872005
76- 23: 50"	0.97194960	0.23518923	4.132627925	0.241976780	4.251895291	1.028859933

573 76° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
76° 24′ 00″	0.97196100	0.23514211		0.241925461	4.252747357	1.028847865
76° 24′ 00″ 76° 24′ 10″	0.97196100	0.23514211	4.133504576 4.134381579	0.241923461	4.253599775	1.028835799
76° 24′ 10″ 76° 24′ 20″	0.97197240	0.23504477	4.135258934	0.241822826	4.253377773	1.028823736
76° 24′ 30″	1					
76° 24′ 40″	0.97199519	0.23500074	4.136136640	0.241771510	4.255305666	1.028811675
76° 24′ 40″ 76° 24′ 50″	0.97200658	0.23495362	4.137014699	0.241720195	4.256159139	1.028799617
76° 24′ 30″ 76° 25′ 00″	0.97201797	0.23490650	4.137893110	0.241668882	4.257012965	1.028787562 1.028775510
76° 25′ 10″	0.97202936	0.23485937	4.138771873 4.139650989	0.241617569 0.241566258	4.257867144	
76° 25′ 10″ 76° 25′ 20″		0.23481225			4.258721676	1.028763460
76° 25′ 30″	0.97205213	0.23476512	4.140530458	0.241514948	4.259576561	1.028751413 1.028739369
	0.97206351	0.23471799	4.141410280	0.241463640	4.260431799	
76° 25′ 40″	0.97207489	0.23467087	4.142290456	0.241412332	4.261287390	1.028727327
76° 25′ 50″	0.97208626	0.23462374	4.143170985	0.241361026	4.262143336	1.028715289
76° 26′ 00″	0.97209764	0.23457661	4.144051868	0.241309721	4.262999635	1.028703252
76° 26′ 10″	0.97210901	0.23452948	4.144933105	0.241258417	4.263856288	1.028691219
76° 26′ 20″	0.97212038	0.23448235	4.145814696	0.241207114	4.264713296	1.028679188
76° 26′ 30″	0.97213174	0.23443522	4.146696642	0.241155813	4.265570658	1.028667160
76° 26′ 40″	0.97214311	0.23438809	4.147578943	0.241104513	4.266428376	1.028655135
76° 26′ 50″	0.97215447	0.23434096	4.148461598	0.241053214	4.267286448	1.028643112
76° 27′ 00″	0.97216583	0.23429383	4.149344608	0.241001916	4.268144875	1.028631092
76° 27′ 10″	0.97217719	0.23424670	4.150227974	0.240950619	4.269003658	1.028619075
76° 27′ 20″	0.97218854	0.23419956	4.151111695	0.240899324	4.269862797	1.028607060
76° 27′ 30″	0.97219990	0.23415243	4.151995772	0.240848029	4.270722292	1.028595048
76° 27′ 40″	0.97221125	0.23410530	4.152880205	0.240796736	4.271582142	1.028583039
76° 27′ 50″	0.97222260	0.23405816	4.153764995	0.240745445	4.272442350	1.028571033
76° 28′ 00″	0.97223394	0.23401103	4.154650140	0.240694154	4.273302913	1.028559029
76° 28′ 10″	0.97224529	0.23396389	4.155535643	0.240642864	4.274163834	1.028547028
76° 28′ 20″ 76° 28′ 30″	0.97225663	0.23391675	4.156421502	0.240591576	4.275025111	1.028535029
	0.97226797	0.23386962	4.157307718	0.240540289	4.275886746	1.028523034
76° 28′ 40″	0.97227931	0.23382248	4.158194292	0.240489003	4.276748738	1.028511041
76° 28′ 50″ 76° 29′ 00″	0.97229064	0.23377534	4.159081223	0.240437718	4.277611088	1.028499050
	0.97230197	0.23372820	4.159968512	0.240386435	4.278473795	1.028487063
76° 29′ 10″ 76° 29′ 20″	0.97231330	0.23368107	4.160856159	0.240335153	4.279336861	1.028475078
76° 29′ 30″	0.97232463 0.97233596	0.23363393	4.161744164	0.240283872 0.240232592	4.280200285	1.028463096 1.028451116
76° 29′ 40″	0.97234728	0.23358679 0.23353965	4.162632527 4.163521249	0.240232372	4.281064068 4.281928210	1.028437116
76° 29′ 50″	0.97235860		4.163321249	0.240131313	4.282792710	1.028427165
76° 30′ 00″		0.23349251 0.23344536				
76° 30′ 10″	0.97236992		4.165299770	0.240078759	4.283657570	1.028415194
76° 30′ 20″	0.97238124	0.23339822 0.23335108	4.166189569	0.240027484 0.239976210	4.284522789	1.028403225
76° 30′ 30″	0.97239255		4.167079728	0.239924937	4.285388368	1.028391259
76° 30′ 40″	0.97240386	0.23330394	4.167970247		4.286254306	1.028379296
76° 30′ 40″ 76° 30′ 50″	0.97241517	0.23325679 0.23320965	4.168861125	0.239873666	4.287120605	1.028367335
76° 30′ 50″ 76° 31′ 00″	0.97242648		4.169752364	0.239822395	4.287987264	1.028355377
76° 31′ 00″ 76° 31′ 10″		0.23316250	4.170643963	0.239771126 0.239719858	4.288854284	1.028343422
	0.97244909	0.23311536	4.171535923		4.289721664	1.028331469
76° 31′ 20″	0.97246039	0.23306821	4.172428244	0.239668591	4.290589406	1.028319519
76° 31′ 30″	0.97247169	0.23302107	4.173320925	0.239617326	4.291457508	1.028307572
76° 31′ 40″ 76° 31′ 50″	0.97248298	0.23297392	4.174213968	0.239566061	4.292325972	1.028295628
76 31 30"	0.97249428	0.23292677	4.175107373	0.239514798	4.293194798	1.028283686

574 76° 31′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
76° 32′ 00″	0.97250557	0.23287962	4.176001139	0.239463536	4.294063986	1.028271747
76° 32′ 10″	0.97251686	0.23287762	4.176895268	0.239412275	4.294933536	1.028259810
76° 32′ 20″	0.97252814	0.23278532	4.177789758	0.239361016	4.295803448	1.028247877
76° 32′ 30″	0.97253943	0.23273317	4.178684611	0.239309757	4.296673722	1.028235946
76° 32′ 40″	0.77255743	0.23269102	4.179579826	0.239258500	4.297544360	1.028224017
76° 32′ 50″	0.97256199	0.23264387	4.180475405	0.237238300	4.298415360	1.028212092
76° 33′ 00″	0.97257327	0.23259672	4.181371346	0.237207244	4.299286724	1.028200169
76° 33′ 10″	0.97258455	0.23254957	4.182267651	0.239104735	4.300158451	1.028188249
76° 33′ 20″	0.97259582	0.23250242	4.183164320	0.239053483	4.301030542	1.028176331
76° 33′ 30″	0.97260709	0.23245526	4.184061352	0.239002232	4.301902997	1.028164416
76° 33′ 40″	0.97261836	0.23240811	4.184958748	0.238950981	4.302775816	1.028152504
76° 33′ 50″	0.97262962	0.23236096	4.185856508	0.238899732	4.303648999	1.028140595
76° 34′ 00″	0.97264089	0.23231380	4.186754633	0.238848485	4.304522547	1.028128688
76° 34′ 10″	0.97265215	0.23226665	4.187653123	0.238797238	4.305396460	1.028116784
76° 34′ 20″	0.97266341	0.23221949	4.188551977	0.238745993	4.306270737	1.028104882
76° 34′ 30″	0.97267467	0.23217233	4.189451196	0.238694749	4.307145380	1.028092984
76° 34′ 40″	0.97268592	0.23212518	4.190350781	0.238643506	4.308020389	1.028081088
76° 34′ 50″	0.97269717	0.23207802	4.191250732	0.238592264	4.308895763	1.028069194
76° 35′ 00″	0.97270842	0.23203086	4.192151048	0.238541023	4.309771503	1.028057304
76° 35′ 10″	0.97271967	0.23198370	4.193051730	0.238489784	4.310647610	1.028045416
76° 35′ 20″	0.97273092	0.23193655	4.193952779	0.238438545	4.311524082	1.028033531
76° 35′ 30″	0.97274216	0.23188939	4.194854194	0.238387308	4.312400922	1.028021648
76° 35′ 40″	0.97275340	0.23184223	4.195755976	0.238336072	4.313278128	1.028009768
76° 35′ 50″	0.97276464	0.23179506	4.196658125	0.238284838	4.314155701	1.027997891
76° 36′ 00″	0.97277588	0.23174790	4.197560640	0.238233604	4.315033642	1.027986017
76° 36′ 10″	0.97278711	0.23170074	4.198463524	0.238182372	4.315911950	1.027974145
76° 36′ 20″	0.97279834	0.23165358	4.199366775	0.238131141	4.316790626	1.027962276
76° 36′ 30″	0.97280957	0.23160642	4.200270394	0.238079911	4.317669670	1.027950409
76° 36′ 40″	0.97282080	0.23155925	4.201174380	0.238028682	4.318549082	1.027938546
76° 36′ 50″	0.97283203	0.23151209	4.202078736	0.237977454	4.319428863	1.027926685
76° 37′ 00″	0.97284325	0.23146492	4.202983459	0.237926228	4.320309012	1.027914826
76° 37′ 10″	0.97285447	0.23141776	4.203888552	0.237875003	4.321189530	1.027902971
76° 37′ 20″	0.97286569	0.23137059	4.204794014	0.237823778	4.322070418	1.027891118
76° 37′ 30″	0.97287690	0.23132343	4.205699844	0.237772556	4.322951675	1.027879267
76° 37′ 40″	0.97288812	0.23127626	4.206606045	0.237721334	4.323833301	1.027867420
76° 37′ 50″	0.97289933	0.23122909	4.207512615	0.237670113	4.324715297	1.027855575
76° 38′ 00″	0.97291054	0.23118193	4.208419554	0.237618894	4.325597664	1.027843733
76° 38′ 10″	0.97292175	0.23113476	4.209326865	0.237567676	4.326480400	1.027831893
76° 38′ 20″	0.97293295	0.23108759	4.210234545	0.237516459	4.327363507	1.027820056
76° 38′ 30″	0.97294415	0.23104042	4.211142596	0.237465243	4.328246985	1.027808222
76° 38′ 40″	0.97295535	0.23099325	4.212051018	0.237414028	4.329130834	1.027796391
76° 38′ 50″	0.97296655	0.23094608	4.212959811	0.237362815	4.330015054	1.027784562
76° 39′ 00″ 76° 39′ 10″	0.97297775	0.23089891	4.213868975	0.237311603	4.330899646	1.027772736
76° 39′ 10″ 76° 39′ 20″	0.97298894	0.23085174	4.214778511	0.237260392	4.331784609 4.332669944	1.027760913
76° 39′ 20″ 76° 39′ 30″	0.97300013	0.23080456 0.23075739	4.215688419 4.216598699	0.237209182 0.237157973		1.027749092
76° 39′ 40″	0.97301132	0.23073739	4.217509351	0.237137973	4.333555652 4.334441731	1.027737274 1.027725459
76° 39′ 50″	0.97302230	0.23071022	4.217307331	0.237106763	4.335328184	1.027723439
=======================================	0.77303307	0.23000303	7,4107403/3	0.431033337	7.333340104	1.04//13040

575 76° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
76° 40′ 00″	0.97304487	0.23061587	4.219331772	0.237004354	4.336215009	1.027701836
76° 40′ 10″	0.97305605	0.23056870	4.220243542	0.236953150	4.337102207	1.027690029
76° 40′ 20″	0.97306723	0.23052152	4.221155685	0.236901947	4.337989779	1.027678224
76° 40′ 30″	0.97307840	0.23047434	4.222068202	0.236850745	4.338877724	1.027666422
76° 40′ 40″	0.97308957	0.23042717	4.222981092	0.236799545	4.339766043	1.027654623
76° 40′ 50″	0.97310074	0.23037999	4.223894357	0.236748345	4.340654736	1.027642827
76° 41′ 00″	0.97311191	0.23033281	4.224807995	0.236697147	4.341543803	1.027631033
76° 41′ 10″	0.97312308	0.23028564	4.225722008	0.236645950	4.342433245	1.027619242
76° 41′ 20″	0.97313424	0.23023846	4.226636395	0.236594754	4.343323061	1.027607453
76° 41′ 30″	0.97314540	0.23019128	4.227551157	0.236543560	4.344213253	1.027595667
76° 41′ 40″	0.97315656	0.23014410	4.228466294	0.236492366	4.345103819	1.027583884
76° 41′ 50″	0.97316772	0.23009692	4.229381806	0.236441174	4.345994761	1.027572104
76° 42′ 00″	0.97317887	0.23004974	4.230297694	0.236389983	4.346886079	1.027560326
76° 42′ 10″	0.97319002	0.23000256	4.231213958	0.236338793	4.347777772	1.027548551
76° 42′ 20″	0.97320117	0.22995537	4.232130598	0.236287604	4.348669842	1.027536779
76° 42′ 30″	0.97321232	0.22990819	4.233047613	0.236236417	4.349562288	1.027525009
76° 42′ 40″	0.97322347	0.22986101	4.233965006	0.236185230	4.350455111	1.027513242
76° 42′ 50″	0.97323461	0.22981383	4.234882775	0.236134045	4.351348310	1.027501478
76° 43′ 00″	0.97324575	0.22976664	4.235800921	0.236082861	4.352241887	1.027489716
76° 43′ 10″	0.97325689	0.22971946	4.236719444	0.236031678	4.353135841	1.027477957
76° 43′ 20″	0.97326802	0.22967227	4.237638345	0.235980496	4.354030172	1.027466201
76° 43′ 30″	0.97327916	0.22962509	4.238557623	0.235929316	4.354924881	1.027454448
76° 43′ 40″	0.97329029	0.22957790	4.239477279	0.235878136	4.355819968	1.027442697
76° 43′ 50″	0.97330142	0.22953071	4.240397313	0.235826958	4.356715434	1.027430949
76° 44′ 00″	0.97331255	0.22948353	4.241317726	0.235775781	4.357611278	1.027419203
76° 44′ 10″	0.97332367	0.22943634	4.242238517	0.235724605	4.358507501	1.027407460
76° 44′ 20″	0.97333479	0.22938915	4.243159687	0.235673431	4.359404102	1.027395720
76° 44′ 30″	0.97334591	0.22934196	4.244081236	0.235622257	4.360301083	1.027383983
76° 44′ 40″	0.97335703	0.22929477	4.245003164	0.235571085	4.361198444	1.027372248
76° 44′ 50″	0.97336815	0.22924758	4.245925472	0.235519914	4.362096184	1.027360516
76° 45′ 00″	0.97337926	0.22920039	4.246848160	0.235468743	4.362994304	1.027348787
76° 45′ 10″	0.97339037	0.22915320	4.247771228	0.235417575	4.363892804	1.027337060
76° 45′ 20″	0.97340148	0.22910601	4.248694676	0.235366407	4.364791684	1.027325336
76° 45′ 30″	0.97341258	0.22905882	4.249618504	0.235315240	4.365690946	1.027313614
76° 45′ 40″	0.97342369	0.22901162	4.250542714	0.235264075	4.366590588	1.027301896
76° 45′ 50″	0.97343479	0.22896443	4.251467304	0.235212911	4.367490611	1.027290180
76° 46′ 00″	0.97344589	0.22891724	4.252392275	0.235161748	4.368391015	1.027278466
76° 46′ 10″	0.97345699	0.22887004	4.253317628	0.235110586	4.369291802	1.027266756
76° 46′ 20″	0.97346808	0.22882285	4.254243363	0.235059425	4.370192970	1.027255048
76° 46′ 30″	0.97347917	0.22877565	4.255169480	0.235008266	4.371094520	1.027243343
76° 46′ 40″	0.97349026	0.22872846	4.256095978	0.234957107	4.371996452	1.027231640
76° 46′ 50″	0.97350135	0.22868126	4.257022860	0.234905950	4.372898767	1.027219940
76° 47′ 00″	0.97351244	0.22863406	4.257950124	0.234854794	4.373801465	1.027208243
76° 47′ 10″	0.97352352	0.22858687	4.258877770	0.234803639	4.374704546	1.027196548
76° 47′ 20″	0.97353460	0.22853967	4.259805800	0.234752486	4.375608010	1.027184857
76° 47′ 30″	0.97354568	0.22849247	4.260734214	0.234701333	4.376511858	1.027173167
76° 47′ 40″ 76° 47′ 50″	0.97355676	0.22844527	4.261663011	0.234650182	4.377416089	1.027161481
	0.97356783	0.22839807	4.262592192	0.234599032	4.378320705	1.027149797

576 76° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
76° 48′ 00″	0.97357890	0.22835087	4.263521757	0.234547882	4.379225704	1.027138116
76° 48′ 10″	0.97358997	0.22830367	4.264451706	0.234496735	4.380131089	1.027126437
76° 48′ 20″	0.97360104	0.22825647	4.265382040	0.234445588	4.381036858	1.027114762
76° 48′ 30″	0.97361210	0.22820927	4.266312759	0.234394442	4.381943012	1.027103089
76° 48′ 40″	0.97362317	0.22816206	4.267243863	0.234343298	4.382849551	1.027091418
76° 48′ 50″	0.97363423	0.22811486	4.268175352	0.234292155	4.383756475	1.027079750
76° 49′ 00″	0.97364529	0.22806766	4.269107227	0.234241013	4.384663786	1.027068085
76° 49′ 10″	0.97365634	0.22802045	4.270039488	0.234189872	4.385571482	1.027056423
76° 49′ 20″	0.97366740	0.22797325	4.270972134	0.234138732	4.386479565	1.027044763
76° 49′ 30″	0.97367845	0.22792604	4.271905167	0.234087593	4.387388034	1.027033106
76° 49′ 40″	0.97368950	0.22787884	4.272838587	0.234036456	4.388296889	1.027021452
76° 49′ 50″	0.97370054	0.22783163	4.273772393	0.233985320	4.389206132	1.027009800
76° 50′ 00″	0.97371159	0.22778443	4.274706587	0.233934185	4.390115762	1.026998151
76° 50′ 10″	0.97372263	0.22773722	4.275641167	0.233883051	4.391025779	1.026986505
76° 50′ 20″	0.97373367	0.22769001	4.276576136	0.233831918	4.391936184	1.026974861
76° 50′ 30″	0.97374471	0.22764280	4.277511492	0.233780786	4.392846977	1.026963220
76° 50′ 40″	0.97375574	0.22759559	4.278447236	0.233729656	4.393758158	1.026951582
76° 50′ 50″	0.97376678	0.22754839	4.279383368	0.233678527	4.394669727	1.026939947
76° 51′ 00″	0.97377781	0.22750118	4.280319889	0.233627398	4.395581685	1.026928314
76° 51′ 10″	0.97378883	0.22745397	4.281256799	0.233576271	4.396494032	1.026916683
76° 51′ 20″	0.97379986	0.22740675	4.282194097	0.233525146	4.397406769	1.026905056
76° 51′ 30″	0.97381088	0.22735954	4.283131785	0.233474021	4.398319894	1.026893431
76° 51′ 40″	0.97382191	0.22731233	4.284069863	0.233422897	4.399233409	1.026881809
76° 51′ 50″	0.97383293	0.22726512	4.285008330	0.233371775	4.400147314	1.026870189
76° 52′ 00″	0.97384394	0.22721791	4.285947187	0.233320654	4.401061610	1.026858572
76° 52′ 10″	0.97385496	0.22717069	4.286886435	0.233269534	4.401976295	1.026846958
76° 52′ 20″	0.97386597	0.22712348	4.287826072	0.233218415	4.402891371	1.026835347
76° 52′ 30″	0.97387698	0.22707626	4.288766101	0.233167297	4.403806838	1.026823738
76° 52′ 40″	0.97388799	0.22702905	4.289706521	0.233116181	4.404722697	1.026812132
76° 52′ 50″	0.97389899	0.22698183	4.290647332	0.233065065	4.405638946	1.026800528
76° 53′ 00″	0.97391000	0.22693462	4.291588534	0.233013951	4.406555588	1.026788927
76° 53′ 10″	0.97392100	0.22688740	4.292530128	0.232962838	4.407472621	1.026777329
76° 53′ 20″ 76° 53′ 30″	0.97393200	0.22684018 0.22679296	4.293472114 4.294414493	0.232911726 0.232860615	4.408390046 4.409307864	1.026765734
76° 53′ 40″	0.97395399	0.22674276	4.295357264	0.232809505	4.410226074	1.026754141 1.026742551
76° 53′ 50″	0.97396498	0.22669853	4.275357264	0.232758397	4.411144677	1.026742331
76° 54′ 00″	0.97397597	0.22665131	4.297243984	0.232707290	4.412063673	1.026730763
76° 54′ 10″	0.77377377	0.22660409	4.298187933	0.232707270	4.412983063	1.026707797
76° 54′ 20″	0.97399794	0.22655687	4.299132277	0.232605078	4.413902846	1.026696217
76° 54′ 30″	0.97400892	0.22650965	4.300077014	0.232553974	4.414823023	1.026684640
76° 54′ 40″	0.97401990	0.22646242	4.301022145	0.232502872	4.415743594	1.026673066
76° 54′ 50″	0.97403088	0.22641520	4.301967670	0.232451770	4.416664560	1.026661495
76° 55′ 00″	0.97404186	0.22636798	4.302913590	0.232400670	4.417585920	1.026649926
76° 55′ 10″	0.97405283	0.22632076	4.303859904	0.232349570	4.418507675	1.026638360
76° 55′ 20″	0.97406380	0.22627353	4.304806614	0.232298472	4.419429825	1.026626797
76° 55′ 30″	0.97407477	0.22622631	4.305753718	0.232247375	4.420352371	1.026615236
76° 55′ 40″	0.97408574	0.22617908	4.306701219	0.232176280	4.421275312	1.026603678
76° 55′ 50″	0.97409670	0.22613186	4.307649115	0.232145185	4.422198649	1.026592123
	1 2	3.220.0100		1,2027,10,100		

577 76° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
76° 56′ 00″	0.97410766	0.22608463	4.308597407	0.232094091	4.423122383	1.026580570
76° 56′ 10″	0.97411862	0.22603741	4.309546095	0.232074071	4.424046512	1.026569020
76° 56′ 20″	0.97411862	0.22599018	4.310495180	0.231991908	4.424971039	1.026557473
76° 56′ 30″	0.97414054	0.22577018	4.311444661	0.231771708	4.425895962	1.026545928
76° 56′ 40″	0.97415149	0.22589572	4.312394540	0.231889729	4.426821282	1.026534386
76° 56′ 50″	0.77413147	0.22584850	4.313344815	0.231838641	4.427747000	1.026522847
76° 57′ 00″	0.77410244	0.22580127	4.314295489	0.231787554	4.428673115	1.026522847
76° 57′ 10″	0.77417337	0.22575404	4.315246560	0.231736469	4.429599629	1.026311310
76° 57′ 20″	0.97419528	0.22570681	4.316198029	0.231685385	4.430526540	1.026488245
76° 57′ 30″	0.97420622	0.22565958	4.317149896	0.231634301	4.431453850	1.026476717
76° 57′ 40″	0.97421716	0.22561235	4.318102162	0.231583219	4.432381559	1.026465191
76° 57′ 50″	0.97421710	0.22556511	4.319054827	0.23153217	4.433309666	1.026453667
76° 58′ 00″	0.97423903	0.22551788	4.320007890	0.231481059	4.434238173	1.026442147
76° 58′ 10″	0.77423703	0.22547065	4.320961354	0.231429980	4.435167079	1.026430629
76° 58′ 20″	0.97426089	0.22542342	4.321915216	0.231427780	4.436096385	1.026430627
76° 58′ 30″	0.77426087	0.22537618	4.322869479	0.231378703	4.437026091	1.026407601
76° 58′ 40″	0.97428274	0.22532895	4.323824141	0.231276751	4.437956197	1.026396091
76° 58′ 50″	0.77428274	0.22528171	4.324779204	0.231276731	4.438886703	1.026376071
76° 59′ 00″	0.77427367	0.22523448	4.325734667	0.231223677	4.439817610	1.026373079
76° 59′ 10″	0.77430437	0.22518724	4.326690532	0.231174604	4.440748918	1.026373077
76° 59′ 20″	0.77431331	0.22514001	4.327646797	0.231123333	4.441680628	1.026350078
76° 59′ 30″	0.97433734	0.22514001	4.328603464	0.231072462	4.442612739	1.026330078
76° 59′ 40″	0.77433734	0.22504553	4.329560532	0.231021373	4.443545251	1.026327088
76° 59′ 50″	0.97435916	0.22304333	4.330518002	0.230970324	4.444478166	1.026327088
76° 37° 30° 77° 00′ 00′′	0.97437006	0.22477827	4.331475874	0.230868191	4.445411483	1.026313376
77° 00′ 10″	0.77437000	0.22473103	4.332434149	0.230808171	4.446345202	1.026304108
77° 00′ 20″	0.77438077	0.22470382	4.333392826	0.230766063	4.447279324	1.026272622
77° 00′ 30″	0.97440277	0.22480934	4.334351906	0.230715000	4.448213849	1.026267658
77° 00′ 40″	0.97441367	0.22476209	4.335311390	0.230663939	4.449148778	1.026257638
77° 00′ 50″	0.97442457	0.22471485	4.336271277	0.230612878	4.450084110	1.026246705
77° 01′ 00″	0.97443546	0.22471463	4.337231567	0.230561819	4.451019846	1.026235233
77° 01′ 10″	0.97444635	0.22462037	4.338192262	0.230510761	4.451955986	1.026223763
77° 01′ 20″	0.97445724	0.22457313	4.339153360	0.230459704	4.452892530	1.026212295
77° 01′ 30″	0.97446813	0.22452588	4.340114863	0.230408649	4.453829479	1.026200831
77° 01′ 40″	0.97447901	0.22447864	4.341076771	0.230357594	4.454766832	1.026189369
77° 01′ 50″	0.97448989	0.22443140	4.342039084	0.230306540	4.455704591	1.026177910
77° 02′ 00″	0.97450077	0.22438415	4.343001802	0.230255488	4.456642755	1.026166453
77° 02′ 10″	0.97451165	0.22433691	4.343964925	0.230204437	4.457581325	1.026154999
77° 02′ 20″	0.97452252	0.22428966	4.344928454	0.230153387	4.458520301	1.026143548
77° 02′ 30″	0.97453340	0.22424241	4.345892390	0.230102338	4.459459683	1.026132100
77° 02′ 40″	0.97454427	0.22419517	4.346856731	0.230051290	4.460399471	1.026120654
77° 02′ 50″	0.97455513	0.22414792	4.347821479	0.230000244	4.461339666	1.026109211
77° 03′ 00″	0.97456600	0.22410067	4.348786634	0.229949198	4.462280268	1.026097770
77° 03′ 10″	0.97457686	0.22405342	4.349752196	0.229898154	4.463221277	1.026086332
77° 03′ 20″	0.97458773	0.22400617	4.350718165	0.229847111	4.464162693	1.026074897
77° 03′ 30″	0.97459858	0.22395892	4.351684542	0.229796069	4.465104518	1.026063465
77° 03′ 40″	0.97460944	0.22373672	4.352651327	0.229745028	4.466046750	1.026052035
77° 03′ 50″	0.97462030	0.22371107	4.353618519	0.229693988	4.466989390	1.026040607
	0.77402030	0.22300442	т.эээнгээт7	0.22/0/3/00	т.тоо/о/3/0	1.02007000/

578 77° 03′ 50″

77° 04′ 10″ (77° 04′ 20″ (77° 04′ 30″ (77° 04′ 40″ (77° 04′ 50″ (77° 05′ 00″ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″)	0.97463115 0.97464200 0.97465284 0.97466369 0.97467453	0.22381717 0.22376992 0.22372267	4.354586121 4.355554130	0.229642949	4.467932439	1.026029183
77° 04′ 10″ (77° 04′ 20″ (77° 04′ 30″ (77° 04′ 40″ (77° 04′ 50″ (77° 05′ 00″ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″ (77° 05′ 00″)	0.97464200 0.97465284 0.97466369	0.22376992		4 222521212		
77° 04′ 20″ (77° 04′ 30″ (77° 04′ 40″ (77° 04′ 50″ (77° 05′ 00″ (77° 00″ 00″ (77° 00″ 00″ 00″ (77° 00″ 00″ 00″ 00″ 00″ (77° 00″ 00″ 00″ 00″ 00″ 00″ 00″ 00″ 00″ 00	0.97465284 0.97466369			0.229591912	4.468875897	1.026017761
77° 04′ 30″ (77° 04′ 40″ (77° 04′ 50″ (77° 05′ 00″ (77° 00″ (77°	0.97466369		4.356522549	0.229540875	4.469819764	1.026006342
77° 04′ 40″ (77° 04′ 50″ (77° 05′ 00″ (0.22367541	4.357491377	0.229489840	4.470764040	1.025994925
77° 04′ 50″ (77° 05′ 00″ (0.22362816	4.358460614	0.229438806	4.471708726	1.025983511
77° 05′ 00″ (0.97468537	0.22358091	4.359430261	0.229387773	4.472653821	1.025972100
	0.97469621	0.22353365	4.360400318	0.229336741	4.473599327	1.025960692
77° 05′ 10″ (0.97470705	0.22348640	4.361370785	0.229285711	4.474545243	1.025949286
I	0.97471788	0.22343914	4.362341663	0.229234681	4.475491569	1.025937883
	0.97472871	0.22339189	4.363312952	0.229183653	4.476438307	1.025926482
I	0.97473954	0.22334463	4.364284651	0.229132625	4.477385455	1.025915084
	0.97475037	0.22329737	4.365256762	0.229081599	4.478333015	1.025903689
	0.97476119	0.22325012	4.366229284	0.229030574	4.479280987	1.025892296
	0.97477202	0.22320286	4.367202218	0.228979550	4.480229371	1.025880907
I	0.97478284	0.22315560	4.368175564	0.228928528	4.481178167	1.025869519
	0.97479365	0.22310834	4.369149323	0.228877506	4.482127375	1.025858135
	0.97480447	0.22306108	4.370123494	0.228826485	4.483076996	1.025846753
	0.97481528	0.22301382	4.371098078	0.228775466	4.484027030	1.025835374
	0.97482609	0.22296656	4.372073075	0.228724448	4.484977478	1.025823997
	0.97483690	0.22291930	4.373048486	0.228673431	4.485928339	1.025812623
I	0.97484771	0.22287204	4.374024310	0.228622415	4.486879613	1.025801252
	0.97485851	0.22282477	4.375000548	0.228571400	4.487831302	1.025789883
I	0.97486931	0.22277751	4.375977201	0.228520386	4.488783405	1.025778517
	0.97488011	0.22273025	4.376954268	0.228469374	4.489735923	1.025767154
I	0.97489091	0.22268299	4.377931749	0.228418362	4.490688856	1.025755794
I	0.97490171	0.22263572	4.378909646	0.228367352	4.491642204	1.025744436
	0.97491250	0.22258846	4.379887958	0.228316343	4.492595967	1.025733080
	0.97492329	0.22254119	4.380866686	0.228265335	4.493550146	1.025721728
	0.97493408	0.22249392	4.381845829	0.228214328	4.494504741	1.025710378
	0.97494486	0.22244666	4.382825388	0.228163322	4.495459752	1.025699031
	0.97495565	0.22239939	4.383805364	0.228112317	4.496415180	1.025687686
	0.97496643	0.22235212	4.384785757	0.228061314	4.497371025	1.025676344
I	0.97497721	0.22230486	4.385766566	0.228010311	4.498327286	1.025665005
	0.97498798	0.22225759	4.386747793	0.227959310	4.499283965	1.025653668
77° 09′ 40″ (0.97499876	0.22221032	4.387729437	0.227908310	4.500241062	1.025642334
I	0.97500953	0.22216305	4.388711499	0.227857311	4.501198576	1.025631003
	0.97502030	0.22211578	4.389693979	0.227806313	4.502156508	1.025619674
	0.97503106	0.22206851	4.390676877	0.227755316	4.503114859	1.025608348
	0.97504183	0.22202124	4.391660193	0.227704320	4.504073629	1.025597025
	0.97505259	0.22197397	4.392643929	0.227653326	4.505032817	1.025585704
	0.97506335	0.22192669	4.393628083	0.227602333	4.505992425	1.025574386
	0.97507411	0.22187942	4.394612657	0.227551340	4.506952452	1.025563071
	0.97508487	0.22183215	4.395597651	0.227500349	4.507912899	1.025551758
I	0.97509562	0.22178487	4.396583064	0.227449359	4.508873766	1.025540448
I	0.97510637	0.22173760	4.397568897	0.227398370	4.509835053	1.025529141
	0.97511712	0.22169033	4.398555152	0.227347382	4.510796761	1.025517836
I	0.97512787	0.22164305	4.399541826	0.227296396	4.511758890	1.025506534
I	0.97513861	0.22159577	4.400528922	0.227245410	4.512721440	1.025495235

579 77° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
77° 12′ 00″	0.97514935	0.22154850	4.401516439	0.227194426	4.513684411	1.025483938
77° 12′ 10″	0.97516009	0.22150122	4.402504378	0.227143443	4.514647804	1.025472644
77° 12′ 20″	0.97517083	0.22145394	4.403492738	0.227092460	4.515611619	1.025461353
77° 12′ 30″	0.97518157	0.22140667	4.404481520	0.227041479	4.516575856	1.025450064
77° 12′ 40″	0.97519230	0.22135939	4.405470725	0.226990499	4.517540516	1.025438778
77° 12′ 50″	0.97520303	0.22131211	4.406460353	0.226939521	4.518505598	1.025427494
77° 13′ 00″	0.97521376	0.22126483	4.407450403	0.226888543	4.519471104	1.025416214
77° 13′ 10″	0.97522448	0.22121755	4.408440877	0.226837566	4.520437032	1.025404935
77° 13′ 20″	0.97523521	0.22117027	4.409431774	0.226786591	4.521403385	1.025393660
77° 13′ 30″	0.97524593	0.22112299	4.410423095	0.226735617	4.522370161	1.025382387
77° 13′ 40″	0.97525665	0.22107571	4.411414839	0.226684643	4.523337361	1.025371117
77° 13′ 50″	0.97526737	0.22102842	4.412407009	0.226633671	4.524304986	1.025359850
77° 14′ 00″	0.97527808	0.22098114	4.413399602	0.226582700	4.525273036	1.025348585
77° 14′ 10″	0.97528879	0.22093386	4.414392621	0.226531731	4.526241511	1.025337323
77° 14′ 20″	0.97529950	0.22088657	4.415386065	0.226480762	4.527210410	1.025326063
77° 14′ 30″	0.97531021	0.22083929	4.416379934	0.226429794	4.528179736	1.025314806
77° 14′ 40″	0.97532092	0.22079201	4.417374229	0.226378828	4.529149487	1.025303552
77° 14′ 50″	0.97533162	0.22074472	4.418368949	0.226327862	4.530119664	1.025292300
77° 15′ 00″	0.97534232	0.22069744	4.419364096	0.226276898	4.531090268	1.025281052
77° 15′ 10″	0.97535302	0.22065015	4.420359670	0.226225935	4.532061298	1.025269805
77° 15′ 20″	0.97536372	0.22060286	4.421355670	0.226174973	4.533032756	1.025258562
77° 15′ 30″	0.97537441	0.22055557	4.422352098	0.226124012	4.534004640	1.025247321
77° 15′ 40″	0.97538510	0.22050829	4.423348953	0.226073053	4.534976952	1.025236083
77° 15′ 50″	0.97539579	0.22046100	4.424346235	0.226022094	4.535949692	1.025224847
77° 16′ 00″	0.97540648	0.22041371	4.425343945	0.225971136	4.536922860	1.025213614
77° 16′ 10″	0.97541716	0.22036642	4.426342084	0.225920180	4.537896456	1.025202384
77° 16′ 20″	0.97542784	0.22031913	4.427340651	0.225869225	4.538870481	1.025191156
77° 16′ 30″	0.97543853	0.22027184	4.428339647	0.225818270	4.539844934	1.025179931
77° 16′ 40″	0.97544920	0.22022455	4.429339072	0.225767317	4.540819817	1.025168709
77° 16′ 50″	0.97545988	0.22017726	4.430338926	0.225716365	4.541795130	1.025157489
77° 17′ 00″	0.97547055	0.22012997	4.431339210	0.225665415	4.542770872	1.025146272
77° 17′ 10″	0.97548122	0.22008267	4.432339924	0.225614465	4.543747044	1.025135058
77° 17′ 20″ 77° 17′ 30″	0.97549189	0.22003538	4.433341067	0.225563516	4.544723646	1.025123846 1.025112637
77° 17′ 30″ 77° 17′ 40″	0.97550256	0.21998809	4.434342642 4.435344647	0.225512569 0.225461622	4.545700679 4.546678143	1.025112637
77° 17′ 40″ 77° 17′ 50″	0.97552388	0.21989350	4.436347083	0.225410677	4.547656038	1.025101431
77° 18′ 00″	0.97553454	0.21984620	4.436347063	0.225359733	4.548634364	1.025070227
77° 18′ 10″	0.97554520	0.21764620	4.438353249	0.225308790	4.549613123	1.025067827
77° 18′ 20″	0.97555586	0.21975161	4.439356980	0.225257848	4.550592313	1.025056632
77° 18′ 30″	0.97556651	0.21773161	4.440361143	0.225206907	4.551571935	1.025045439
77° 18′ 40″	0.97557716	0.21770432	4.441365738	0.225155968	4.552551990	1.025034248
77° 18′ 50″	0.97558781	0.21760762	4.442370767	0.225105029	4.553532478	1.025023060
77° 19′ 00″	0.97559845	0.21760772	4.443376228	0.225054091	4.554513399	1.025023000
77° 19′ 10″	0.97560910	0.21750242	4.444382122	0.225003155	4.555494753	1.025000693
77° 19′ 20″	0.97561974	0.21731312	4.445388450	0.224952220	4.556476541	1.024989513
77° 19′ 30″	0.97563038	0.21740763	4.446395212	0.224732220	4.557458764	1.024787313
77° 19′ 40″	0.97564101	0.21937323	4.447402408	0.224850353	4.558441420	1.024967161
77° 19′ 50″	0.97565165	0.21932593	4.448410038	0.224799421	4.559424511	1.024955989
	1.7.000100	3.2.7.32373		J, // 1_1	.,007 12 10 11	

580 77° 19′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
77° 20′ 00″	0.97566228	0.21927862	4.449418104	0.224748490	4.560408037	1.024944820
77° 20′ 00″ 77° 20′ 10″	0.97567291	0.21927862	4.449418104	0.224748490	4.561391998	1.024944820
77° 20′ 10″	0.97568354	0.21923132	4.451435539	0.224646632	4.562376394	1.024933633
77° 20′ 30″						
77° 20′ 30″ 77° 20′ 40″	0.97569416	0.21913672	4.452444910	0.224595704	4.563361226	1.024911328
77° 20′ 40″ 77° 20′ 50″	0.97570479	0.21908941	4.453454717	0.224544778	4.564346494	1.024900169
77° 20′ 30″	0.97571541	0.21904211	4.454464960	0.224493853	4.565332198 4.566318339	1.024889013
77° 21′ 00″ 77° 21′ 10″	0.97572602	0.21899481	4.455475639 4.456486756	0.224442928 0.224392005		1.024877860
77° 21′ 10″ 77° 21′ 20″		0.21894750			4.567304917	1.024866709
77° 21′ 20″ 77° 21′ 30″	0.97574725	0.21890020	4.457498309	0.224341083 0.224290163	4.568291932	1.024855561
77° 21′ 30″ 77° 21′ 40″	0.97575787	0.21885289	4.458510299		4.569279384	1.024844416
	0.97576847	0.21880558	4.459522727	0.224239243	4.570267274	1.024833273
77° 21′ 50″	0.97577908	0.21875828	4.460535593	0.224188324	4.571255602	1.024822133
77° 22′ 00″	0.97578969	0.21871097	4.461548897	0.224137407	4.572244368	1.024810996
77° 22′ 10″	0.97580029	0.21866366	4.462562640	0.224086490	4.573233573	1.024799861
77° 22′ 20″	0.97581089	0.21861635	4.463576821	0.224035575	4.574223217	1.024788729
77° 22′ 30″	0.97582149	0.21856904	4.464591442	0.223984661	4.575213300	1.024777599
77° 22′ 40″	0.97583208	0.21852174	4.465606501	0.223933748	4.576203822	1.024766473
77° 22′ 50″	0.97584267	0.21847443	4.466622001	0.223882836	4.577194785	1.024755348
77° 23′ 00″	0.97585327	0.21842711	4.467637940	0.223831925	4.578186187	1.024744227
77° 23′ 10″	0.97586385	0.21837980	4.468654319	0.223781015	4.579178029	1.024733108
77° 23′ 20″	0.97587444	0.21833249	4.469671139	0.223730107	4.580170312	1.024721992
77° 23′ 30″	0.97588502	0.21828518	4.470688400	0.223679199	4.581163037	1.024710878
77° 23′ 40″	0.97589561	0.21823787	4.471706101	0.223628292	4.582156202	1.024699767
77° 23′ 50″	0.97590618	0.21819055	4.472724244	0.223577387	4.583149809	1.024688659
77° 24′ 00″	0.97591676	0.21814324	4.473742829	0.223526483	4.584143857	1.024677553
77° 24′ 10″ 77° 24′ 20″	0.97592734	0.21809593	4.474761856	0.223475580	4.585138348	1.024666450
77° 24′ 20″ 77° 24′ 30″	0.97593791	0.21804861	4.475781325	0.223424678	4.586133281	1.024655350
77° 24′ 30″ 77° 24′ 40″	0.97594848	0.21800130	4.476801236	0.223373777	4.587128656	1.024644252
77° 24′ 40″ 77° 24′ 50″	0.97595905	0.21795398	4.477821590	0.223322877	4.588124475	1.024633157
77° 24′ 30″ 77° 25′ 00″	0.97596961	0.21790667 0.21785935	4.478842388 4.479863629	0.223271978	4.589120737	1.024622065
77° 25′ 10″	0.97598018			0.223221081	4.590117442	1.024610975
77° 25′ 10″ 77° 25′ 20″	0.97599074 0.97600130	0.21781203 0.21776471	4.480885313 4.481907442	0.223170184 0.223119289	4.591114591 4.592112184	1.024599888 1.024588804
77° 25′ 30″	0.97601185	0.21776471	4.481907442	0.223117287	4.593110222	1.024588804
77° 25′ 40″	0.97601183	0.21771740	4.483953032	0.223017501	4.594108705	1.024577722
77° 25′ 50″	0.97603296	0.21767008	4.484976494	0.223017301	4.595107632	1.024555566
77° 26′ 00″	0.97603296	0.21762276	4.486000401	0.222915718	4.596107005	
77° 26′ 10″	0.97605405			0.222864828		1.024544493
77° 26′ 20″		0.21752812	4.487024754		4.597106823 4.598107088	1.024533421
77° 26′ 20″	0.97606460	0.21748080	4.488049553 4.489074798	0.222813939		1.024522353
77° 26′ 30″ 77° 26′ 40″	0.97607514	0.21743348		0.222763051 0.222712165	4.599107798	1.024511287
77° 26′ 40″ 77° 26′ 50″	0.97608568	0.21738616	4.490100489		4.600108955	1.024500224 1.024489163
77° 26′ 50″ 77° 27′ 00″		0.21733883	4.491126626	0.222661279	4.601110559	
77° 27′ 00″ 77° 27′ 10″	0.97610676	0.21729151	4.492153211	0.222610395 0.222559512	4.602112610	1.024478105
77° 27′ 10″ 77° 27′ 20″	0.97611729	0.21724419	4.493180243		4.603115108	1.024467050
77° 27′ 20″ 77° 27′ 30″	0.97612782	0.21719686	4.494207722	0.222508629	4.604118054	1.024455997
77° 27′ 30″ 77° 27′ 40″	0.97613835	0.21714954	4.495235650	0.222457748	4.605121448	1.024444947
77° 27′ 40″ 77° 27′ 50″	0.97614888	0.21710221	4.496264025	0.222406868	4.606125290	1.024433900
	0.97615940	0.21705489	4.497292849	0.222355989	4.607129580	1.024422855

581 77° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
77° 28′ 00″	0.97616992	0.21700756	4.498322122	0.222305111	4.608134320	1.024411813
77° 28′ 10″	0.97618044	0.21696024	4.499351843	0.222254235	4.609139509	1.024400774
77° 28′ 20″	0.97619096	0.21691291	4.500382014	0.222203359	4.610145147	1.024389737
77° 28′ 30″	0.97620147	0.21686558	4.501412635	0.222152484	4.611151235	1.024378703
77° 28′ 40″	0.97621199	0.21681825	4.502443706	0.222101611	4.612157773	1.024367671
77° 28′ 50″	0.97622250	0.21677093	4.503475226	0.222050739	4.613164761	1.024356642
77° 29′ 00″	0.97623301	0.21672360	4.504507198	0.221999867	4.614172200	1.024345616
77° 29′ 10″	0.97624351	0.21667627	4.505539620	0.221948997	4.615180090	1.024334592
77° 29′ 20″	0.97625402	0.21662894	4.506572493	0.221898128	4.616188432	1.024323572
77° 29′ 30″	0.97626452	0.21658161	4.507605818	0.221847260	4.617197224	1.024312553
77° 29′ 40″	0.97627502	0.21653428	4.508639594	0.221796393	4.618206469	1.024301538
77° 29′ 50″	0.97628551	0.21648695	4.509673823	0.221745527	4.619216166	1.024290525
77° 30′ 00″	0.97629601	0.21643961	4.510708504	0.221694663	4.620226315	1.024279514
77° 30′ 10″	0.97630650	0.21639228	4.511743637	0.221643799	4.621236917	1.024268507
77° 30′ 20″	0.97631699	0.21634495	4.512779224	0.221592937	4.622247973	1.024257502
77° 30′ 30″	0.97632748	0.21629762	4.513815263	0.221542075	4.623259481	1.024246499
77° 30′ 40″	0.97633796	0.21625028	4.514851756	0.221491215	4.624271443	1.024235499
77° 30′ 50″	0.97634844	0.21620295	4.515888703	0.221440356	4.625283860	1.024224502
77° 31′ 00″	0.97635893	0.21615561	4.516926105	0.221389497	4.626296730	1.024213508
77° 31′ 10″	0.97636940	0.21610828	4.517963960	0.221338640	4.627310055	1.024202516
77° 31′ 20″	0.97637988	0.21606094	4.519002271	0.221287784	4.628323835	1.024191527
77° 31′ 30″	0.97639035	0.21601360	4.520041036	0.221236929	4.629338070	1.024180540
77° 31′ 40″	0.97640083	0.21596627	4.521080257	0.221186076	4.630352761	1.024169556
77° 31′ 50″	0.97641129	0.21591893	4.522119933	0.221135223	4.631367907	1.024158575
77° 32′ 00″	0.97642176	0.21587159	4.523160066	0.221084371	4.632383510	1.024147596
77° 32′ 10″	0.97643223	0.21582425	4.524200655	0.221033521	4.633399569	1.024136620
77° 32′ 20″	0.97644269	0.21577691	4.525241700	0.220982671	4.634416084	1.024125647
77° 32′ 30″	0.97645315	0.21572957	4.526283202	0.220931823	4.635433057	1.024114676
77° 32′ 40″	0.97646361	0.21568223	4.527325162	0.220880976	4.636450487	1.024103708
77° 32′ 50″	0.97647406	0.21563489	4.528367579	0.220830130	4.637468375	1.024092743
77° 33′ 00″	0.97648451	0.21558755	4.529410453	0.220779285	4.638486720	1.024081780
77° 33′ 10″	0.97649497	0.21554021	4.530453786	0.220728441	4.639505524	1.024070820
77° 33′ 20″	0.97650541	0.21549287	4.531497577	0.220677598	4.640524787	1.024059863
77° 33′ 30″	0.97651586	0.21544553	4.532541827	0.220626756	4.641544508	1.024048908
77° 33′ 40″	0.97652630	0.21539818	4.533586536	0.220575915	4.642564688	1.024037956
77° 33′ 50″	0.97653675	0.21535084	4.534631705	0.220525076	4.643585328	1.024027006
77° 34′ 00″	0.97654719	0.21530350	4.535677333	0.220474237	4.644606428	1.024016059
77° 34′ 10″	0.97655762	0.21525615	4.536723421	0.220423400	4.645627987	1.024005115
77° 34′ 20″	0.97656806	0.21520881	4.537769969	0.220372563	4.646650008	1.023994173
77° 34′ 30″	0.97657849	0.21516146	4.538816978	0.220321728	4.647672488	1.023983234
77° 34′ 40″	0.97658892	0.21511411	4.539864448	0.220270894	4.648695430	1.023972298
77° 34′ 50″	0.97659935	0.21506677	4.540912379	0.220220061	4.649718833	1.023961364
77° 35′ 00″	0.97660977	0.21501942	4.541960771	0.220169229	4.650742698	1.023950433
77° 35′ 10″ 77° 35′ 20″	0.97662020	0.21497207	4.543009625	0.220118398	4.651767025	1.023939505
	0.97663062	0.21492472	4.544058942	0.220067568	4.652791814	1.023928579
77° 35′ 30″ 77° 35′ 40″	0.97664104	0.21487738	4.545108720	0.220016739	4.653817066	1.023917656
77° 35′ 40″ 77° 35′ 50″	0.97665145	0.21483003 0.21478268	4.546158962 4.547209667	0.219965912 0.219915085	4.654842780 4.655868958	1.023906735 1.023895817
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582 77° 35′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
77° 36′ 00″	0.97667228	0.21473533	4.548260834	0.219864259	4.656895599	1.023884902
77° 36′ 10″	0.97668269	0.21468798	4.549312466	0.219813435	4.657922704	1.023873989
77° 36′ 20″	0.97669310	0.21464063	4.550364562	0.219762612	4.658950273	1.023863079
77° 36′ 30″	0.97670350	0.21459327	4.551417122	0.219711789	4.659978306	1.023852172
77° 36′ 40″	0.97671390	0.21454592	4.552470146	0.219660968	4.661006805	1.023841267
77° 36′ 50″	0.97672430	0.21449857	4.553523636	0.219610148	4.662035768	1.023830365
77° 37′ 00″	0.97673470	0.21445122	4.554577590	0.219559329	4.663065197	1.023819466
77° 37′ 10″	0.97674510	0.21440386	4.555632011	0.219508511	4.664095091	1.023808569
77° 37′ 20″	0.97675549	0.21435651	4.556686897	0.219457694	4.665125451	1.023797675
77° 37′ 30″	0.97676588	0.21430915	4.557742249	0.219406879	4.666156278	1.023786784
77° 37′ 40″	0.97677627	0.21426180	4.558798068	0.219356064	4.667187571	1.023775895
77° 37′ 50″	0.97678666	0.21421444	4.559854354	0.219305250	4.668219331	1.023765009
77° 38′ 00″	0.97679704	0.21416709	4.560911106	0.219254438	4.669251559	1.023754125
77° 38′ 10″	0.97680742	0.21411973	4.561968327	0.219203626	4.670284254	1.023743244
77° 38′ 20″	0.97681780	0.21407237	4.563026015	0.219152816	4.671317417	1.023732366
77° 38′ 30″	0.97682818	0.21402501	4.564084171	0.219102007	4.672351048	1.023721490
77° 38′ 40″	0.97683856	0.21397766	4.565142795	0.219051198	4.673385148	1.023710617
77° 38′ 50″	0.97684893	0.21393030	4.566201888	0.219000391	4.674419716	1.023699747
77° 39′ 00″	0.97685930	0.21388294	4.567261450	0.218949585	4.675454754	1.023688879
77° 39′ 10″	0.97686967	0.21383558	4.568321482	0.218898780	4.676490261	1.023678014
77° 39′ 20″	0.97688003	0.21378822	4.569381983	0.218847976	4.677526238	1.023667151
77° 39′ 30″	0.97689040	0.21374086	4.570442954	0.218797174	4.678562685	1.023656292
77° 39′ 40″	0.97690076	0.21369350	4.571504395	0.218746372	4.679599602	1.023645434
77° 39′ 50″	0.97691112	0.21364613	4.572566307	0.218695571	4.680636990	1.023634580
77° 40′ 00″	0.97692147	0.21359877	4.573628690	0.218644772	4.681674850	1.023623728
77° 40′ 10″	0.97693183	0.21355141	4.574691544	0.218593973	4.682713180	1.023612879
77° 40′ 20″	0.97694218	0.21350405	4.575754870	0.218543176	4.683751982	1.023602032
77° 40′ 30″	0.97695253	0.21345668	4.576818668	0.218492379	4.684791257	1.023591188
77° 40′ 40″	0.97696288	0.21340932	4.577882938	0.218441584	4.685831003	1.023580346
77° 40′ 50″	0.97697322	0.21336195	4.578947680	0.218390790	4.686871222	1.023569508
77° 41′ 00″	0.97698357	0.21331459	4.580012895	0.218339997	4.687911914	1.023558672
77° 41′ 10″	0.97699391	0.21326722	4.581078583	0.218289205	4.688953080	1.023547838
77° 41′ 20″	0.97700424	0.21321986	4.582144745	0.218238414	4.689994719	1.023537007
77° 41′ 30″	0.97701458	0.21317249	4.583211381	0.218187624	4.691036832	1.023526179
77° 41′ 40″	0.97702491	0.21312512	4.584278490	0.218136835	4.692079419	1.023515353
77° 41′ 50″	0.97703525	0.21307775	4.585346074	0.218086047	4.693122481	1.023504530
77° 42′ 00″	0.97704557	0.21303039	4.586414133	0.218035260	4.694166018	1.023493710
77° 42′ 10″	0.97705590	0.21298302	4.587482667	0.217984475	4.695210030	1.023482893
77° 42′ 20″	0.97706623	0.21293565	4.588551677	0.217933690	4.696254517	1.023472077
77° 42′ 30″	0.97707655	0.21288828	4.589621162	0.217882907	4.697299480	1.023461265
77° 42′ 40″	0.97708687	0.21284091	4.590691123	0.217832124	4.698344920	1.023450455
77° 42′ 50″	0.97709719	0.21279354	4.591761560	0.217781343	4.699390836	1.023439648
77° 43′ 00″	0.97710750	0.21274617	4.592832475	0.217730563	4.700437229	1.023428844
77° 43′ 10″	0.97711781	0.21269879	4.593903866	0.217679784	4.701484099	1.023418042
77° 43′ 20″	0.97712812	0.21265142	4.594975735	0.217629006	4.702531446	1.023407243
77° 43′ 30″	0.97713843	0.21260405	4.596048081	0.217578229	4.703579271	1.023396446
77° 43′ 40″	0.97714874	0.21255668	4.597120905	0.217527453	4.704627575	1.023385652
77° 43′ 50″	0.97715904	0.21250930	4.598194208	0.217476678	4.705676356	1.023374861
	1					

583 77° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
77° 44′ 00″	0.97716935	0.21246193	4.599267989	0.217425904	4.706725617	1.023364072
77° 44′ 10″	0.97717964	0.21241455	4.600342249	0.217375131	4.707775357	1.023353286
77° 44′ 20″	0.97718994	0.21236718	4.601416989	0.217324360	4.708825576	1.023342502
77° 44′ 30″	0.97720024	0.21231980	4.602492208	0.217273589	4.709876275	1.023331722
77° 44′ 40″	0.97721053	0.21227243	4.603567907	0.217222819	4.710927453	1.023320943
77° 44′ 50″	0.97722082	0.21222505	4.604644086	0.217172051	4.711979113	1.023310168
77° 45′ 00″	0.97723111	0.21217767	4.605720746	0.217121284	4.713031253	1.023299395
77° 45′ 10″	0.97724139	0.21213029	4.606797887	0.217070517	4.714083874	1.023288625
77° 45′ 20″	0.97725168	0.21208292	4.607875509	0.217019752	4.715136976	1.023277857
77° 45′ 30″	0.97726196	0.21203554	4.608953612	0.216968988	4.716190560	1.023267092
77° 45′ 40″	0.97727223	0.21198816	4.610032198	0.216918225	4.717244627	1.023256330
77° 45′ 50″	0.97728251	0.21194078	4.611111266	0.216867463	4.718299175	1.023245570
77° 46′ 00″	0.97729279	0.21189340	4.612190816	0.216816702	4.719354206	1.023234813
77° 46′ 10″	0.97730306	0.21184602	4.613270850	0.216765942	4.720409721	1.023224058
77° 46′ 20″	0.97731333	0.21179864	4.614351366	0.216715183	4.721465718	1.023213306
77° 46′ 30″	0.97732359	0.21175125	4.615432366	0.216664425	4.722522200	1.023202557
77° 46′ 40″	0.97733386	0.21170387	4.616513850	0.216613668	4.723579165	1.023191811
77° 46′ 50″	0.97734412	0.21165649	4.617595818	0.216562913	4.724636615	1.023181067
77° 47′ 00″	0.97735438	0.21160911	4.618678271	0.216512158	4.725694549	1.023170325
77° 47′ 10″	0.97736464	0.21156172	4.619761208	0.216461405	4.726752968	1.023159587
77° 47′ 20″	0.97737489	0.21151434	4.620844631	0.216410652	4.727811873	1.023148851
77° 47′ 30″	0.97738515	0.21146695	4.621928540	0.216359901	4.728871263	1.023138117
77° 47′ 40″	0.97739540	0.21141957	4.623012934	0.216309150	4.729931140	1.023127386
77° 47′ 50″	0.97740565	0.21137218	4.624097814	0.216258401	4.730991502	1.023116658
77° 48′ 00″	0.97741589	0.21132480	4.625183181	0.216207653	4.732052352	1.023105933
77° 48′ 10″	0.97742614	0.21127741	4.626269035	0.216156906	4.733113688	1.023095210
77° 48′ 20″	0.97743638	0.21123002	4.627355376	0.216106160	4.734175511	1.023084489
77° 48′ 30″	0.97744662	0.21118263	4.628442204	0.216055415	4.735237823	1.023073772
77° 48′ 40″	0.97745686	0.21113525	4.629529521	0.216004671	4.736300622	1.023063057
77° 48′ 50″	0.97746709	0.21108786	4.630617325	0.215953928	4.737363910	1.023052344
77° 49′ 00″	0.97747732	0.21104047	4.631705618	0.215903186	4.738427686	1.023041634
77° 49′ 10″	0.97748756	0.21099308	4.632794400	0.215852445	4.739491951	1.023030927
77° 49′ 20″	0.97749778	0.21094569	4.633883671	0.215801706	4.740556706	1.023020223
77° 49′ 30″	0.97750801	0.21089830	4.634973432	0.215750967	4.741621950	1.023009521
77° 49′ 40″	0.97751823	0.21085091	4.636063683	0.215700229	4.742687684	1.022998822
77° 49′ 50″	0.97752845	0.21080352	4.637154423	0.215649493	4.743753909	1.022988125
77° 50′ 00″	0.97753867	0.21075612	4.638245655	0.215598757	4.744820624	1.022977431
77° 50′ 10″ 77° 50′ 20″	0.97754889	0.21070873	4.639337377	0.215548023	4.745887830	1.022966740
	0.97755910	0.21066134	4.640429590	0.215497290	4.746955528	1.022956051
77° 50′ 30″ 77° 50′ 40″	0.97756932	0.21061394	4.641522295	0.215446557	4.748023717	1.022945365
	0.97757953	0.21056655	4.642615492	0.215395826	4.749092398	1.022934681
77° 50′ 50″ 77° 51′ 00″	0.97758973	0.21051915	4.643709181	0.215345096	4.750161572	1.022924000
77° 51′ 00″ 77° 51′ 10″		0.21047176	4.644803363	0.215294367	4.751231238	1.022913322
77° 51′ 10″ 77° 51′ 20″	0.97761014	0.21042436	4.645898037 4.646993205	0.215243639	4.752301397	1.022902646
77° 51′ 20″ 77° 51′ 30″	0.97762034 0.97763054	0.21037697 0.21032957		0.215192912	4.753372050 4.754443197	1.022891973
77° 51′ 30″ 77° 51′ 40″	0.97763054	0.21032937	4.648088866 4.649185022	0.215142186 0.215091461	4.754443197 4.755514837	1.022881303 1.022870635
77° 51′ 50″	0.97765093	0.21028217	4.649183022	0.215040737	4.756586972	1.022859970
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584 77° 51′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
77° 52′ 00″	0.97766112	0.21018738	4.651378815	0.214990015	4.757659601	1.022849308
77° 52′ 10″	0.97767131	0.21013998	4.652476454	0.214939293	4.758732726	1.022838648
77° 52′ 20″	0.97768150	0.21009258	4.653574589	0.214888572	4.759806346	1.022827991
77° 52′ 30″	0.97769168	0.21004518	4.654673218	0.214837853	4.760880462	1.022817336
77° 52′ 40″	0.97770186	0.20999778	4.655772344	0.214787134	4.761955074	1.022806684
77° 52′ 50″	0.97771204	0.20995038	4.656871967	0.214736417	4.763030182	1.022796035
77° 53′ 00″	0.97772222	0.20990298	4.657972085	0.214685700	4.764105787	1.022785388
77° 53′ 10″	0.97773240	0.20985558	4.659072701	0.214634985	4.765181889	1.022774744
77° 53′ 20″	0.97774257	0.20980818	4.660173814	0.214584271	4.766258489	1.022764102
77° 53′ 30″	0.97775274	0.20976077	4.661275425	0.214533558	4.767335586	1.022753464
77° 53′ 40″	0.97776291	0.20971337	4.662377534	0.214482845	4.768413181	1.022742827
77° 53′ 50″	0.97777307	0.20966597	4.663480141	0.214432134	4.769491275	1.022732194
77° 54′ 00″	0.97778324	0.20961856	4.664583247	0.214381424	4.770569868	1.022721563
77° 54′ 10″	0.97779340	0.20957116	4.665686852	0.214330715	4.771648960	1.022710934
77° 54′ 20″	0.97780356	0.20952375	4.666790956	0.214280007	4.772728552	1.022700309
77° 54′ 30″	0.97781371	0.20947635	4.667895560	0.214229300	4.773808643	1.022689686
77° 54′ 40″	0.97782387	0.20942894	4.669000664	0.214178595	4.774889234	1.022679065
77° 54′ 50″	0.97783402	0.20938154	4.670106269	0.214127890	4.775970327	1.022668447
77° 55′ 00″	0.97784417	0.20933413	4.671212374	0.214077186	4.777051919	1.022657832
77° 55′ 10″	0.97785432	0.20928672	4.672318980	0.214026483	4.778134014	1.022647219
77° 55′ 20″	0.97786446	0.20923931	4.673426088	0.213975782	4.779216609	1.022636610
77° 55′ 30″	0.97787461	0.20919190	4.674533698	0.213925081	4.780299707	1.022626002
77° 55′ 40″	0.97788475	0.20914450	4.675641809	0.213874381	4.781383307	1.022615397
77° 55′ 50″	0.97789489	0.20909709	4.676750423	0.213823683	4.782467410	1.022604795
77° 56′ 00″	0.97790502	0.20904968	4.677859541	0.213772986	4.783552015	1.022594196
77° 56′ 10″	0.97791516	0.20900227	4.678969161	0.213722289	4.784637124	1.022583599
77° 56′ 20″	0.97792529	0.20895485	4.680079285	0.213671594	4.785722736	1.022573005
77° 56′ 30″	0.97793542	0.20890744	4.681189912	0.213620900	4.786808853	1.022562413
77° 56′ 40″	0.97794554	0.20886003	4.682301044	0.213570206	4.787895474	1.022551824
77° 56′ 50″	0.97795567	0.20881262	4.683412681	0.213519514	4.788982599	1.022541238
77° 57′ 00″	0.97796579	0.20876521	4.684524822	0.213468823	4.790070230	1.022530654
77° 57′ 10″	0.97797591	0.20871779	4.685637469	0.213418133	4.791158366	1.022520073
77° 57′ 20″	0.97798603	0.20867038	4.686750621	0.213367444	4.792247008	1.022509494
77° 57′ 30″	0.97799614	0.20862296	4.687864279	0.213316756	4.793336156	1.022498919
77° 57′ 40″	0.97800626	0.20857555	4.688978444	0.213266069	4.794425810	1.022488345
77° 57′ 50″	0.97801637	0.20852813	4.690093115	0.213215383	4.795515971	1.022477775
77° 58′ 00″	0.97802648	0.20848072	4.691208293	0.213164698	4.796606639	1.022467207
77° 58′ 10″	0.97803658	0.20843330	4.692323979	0.213114014	4.797697815	1.022456641
77° 58′ 20″	0.97804669	0.20838589	4.693440173	0.213063332	4.798789499	1.022446078
77° 58′ 30″	0.97805679	0.20833847	4.694556874	0.213012650	4.799881691	1.022435518
77° 58′ 40″	0.97806689	0.20829105	4.695674084	0.212961969	4.800974391	1.022424961
77° 58′ 50″	0.97807699	0.20824363	4.696791803	0.212911290	4.802067600	1.022414406
77° 59′ 00″	0.97808708	0.20819621	4.697910031	0.212860611	4.803161319	1.022403854
77° 59′ 10″	0.97809717	0.20814879	4.699028768	0.212809934	4.804255547	1.022393304
77° 59′ 20″	0.97810726	0.20810137	4.700148015	0.212759257	4.805350285	1.022382757
77° 59′ 30″	0.97811735	0.20805395	4.701267773	0.212708582	4.806445534	1.022372212
77° 59′ 40″	0.97812744	0.20800653	4.702388040	0.212657907	4.807541293	1.022361671
77° 59′ 50″	0.97813752	0.20795911	4.703508819	0.212607234	4.808637563	1.022351131

585 77° 59′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
78° 00′ 00″	0.97814760	0.20791169	4.704630109	0.212556562	4.809734345	1.022340595
78° 00′ 10″	0.97815768	0.20786427	4.705751911	0.212505890	4.810831638	1.022330061
78° 00′ 20″	0.97816776	0.20781685	4.706874225	0.212455220	4.811929444	1.022319530
78° 00′ 30″	0.97817783	0.20776942	4.707997051	0.212404551	4.813027761	1.022309001
78° 00′ 40″	0.97818790	0.20772200	4.709120390	0.212353883	4.814126592	1.022298475
78° 00′ 50″	0.97819797	0.20767458	4.710244242	0.212303216	4.815225936	1.022287951
78° 01′ 00″	0.97820804	0.20762715	4.711368607	0.212252550	4.816325793	1.022277431
78° 01′ 10″	0.97821810	0.20757973	4.712493486	0.212201885	4.817426165	1.022266912
78° 01′ 20″	0.97822817	0.20753230	4.713618879	0.212151221	4.818527050	1.022256397
78° 01′ 30″	0.97823823	0.20748487	4.714744786	0.212100558	4.819628450	1.022245884
78° 01′ 40″	0.97824828	0.20743745	4.715871209	0.212049896	4.820730366	1.022235373
78° 01′ 50″	0.97825834	0.20739002	4.716998146	0.211999235	4.821832796	1.022224866
78° 02′ 00″	0.97826839	0.20734259	4.718125599	0.211948576	4.822935742	1.022214360
78° 02′ 10″	0.97827844	0.20729516	4.719253568	0.211897917	4.824039204	1.022203858
78° 02′ 20″	0.97828849	0.20724774	4.720382054	0.211847259	4.825143183	1.022193358
78° 02′ 30″	0.97829854	0.20720031	4.721511056	0.211796602	4.826247678	1.022182861
78° 02′ 40″	0.97830858	0.20715288	4.722640574	0.211745947	4.827352690	1.022172366
78° 02′ 50″	0.97831863	0.20710545	4.723770611	0.211695292	4.828458220	1.022161874
78° 03′ 00″	0.97832867	0.20705802	4.724901165	0.211644639	4.829564268	1.022151385
78° 03′ 10″	0.97833870	0.20701059	4.726032237	0.211593986	4.830670834	1.022140898
78° 03′ 20″	0.97834874	0.20696315	4.727163827	0.211543335	4.831777918	1.022130414
78° 03′ 30″	0.97835877	0.20691572	4.728295936	0.211492684	4.832885521	1.022119932
78° 03′ 40″	0.97836880	0.20686829	4.729428565	0.211442035	4.833993644	1.022109453
78° 03′ 50″	0.97837883	0.20682086	4.730561713	0.211391387	4.835102286	1.022098977
78° 04′ 00″	0.97838885	0.20677342	4.731695381	0.211340739	4.836211448	1.022088503
78° 04′ 10″	0.97839888	0.20672599	4.732829569	0.211290093	4.837321131	1.022078032
78° 04′ 20″	0.97840890	0.20667856	4.733964277	0.211239448	4.838431334	1.022067563
78° 04′ 30″	0.97841892	0.20663112	4.735099507	0.211188804	4.839542059	1.022057098
78° 04′ 40″	0.97842894	0.20658369	4.736235258	0.211138160	4.840653305	1.022046634
78° 04′ 50″	0.97843895	0.20653625	4.737371531	0.211087518	4.841765073	1.022036174
78° 05′ 00″	0.97844896	0.20648881	4.738508325	0.211036877	4.842877363	1.022025716
78° 05′ 10″	0.97845897	0.20644138	4.739645642	0.210986237	4.843990175	1.022015260
78° 05′ 20″	0.97846898	0.20639394	4.740783482	0.210935598	4.845103510	1.022004808
78° 05′ 30″	0.97847898	0.20634650	4.741921845	0.210884960	4.846217369	1.021994357
78° 05′ 40″	0.97848899	0.20629906	4.743060732	0.210834323	4.847331751	1.021983910
78° 05′ 50″	0.97849899	0.20625162	4.744200143	0.210783687	4.848446658	1.021973465
78° 06′ 00″	0.97850899	0.20620419	4.745340077	0.210733053	4.849562089	1.021963023
78° 06′ 10″	0.97851898	0.20615675	4.746480537	0.210682419	4.850678044	1.021952583
78° 06′ 20″	0.97852897	0.20610931	4.747621521	0.210631786	4.851794525	1.021942146
78° 06′ 30″	0.97853897	0.20606186	4.748763031	0.210581154	4.852911531	1.021931711
78° 06′ 40″	0.97854895	0.20601442	4.749905067	0.210530523	4.854029063	1.021921279
78° 06′ 50″	0.97855894	0.20596698	4.751047628	0.210479894	4.855147121	1.021910850
78° 07′ 00″	0.97856893	0.20591954	4.752190716	0.210429265	4.856265706	1.021900424
78° 07′ 10″	0.97857891	0.20587210	4.753334331	0.210378637	4.857384817	1.021890000
78° 07′ 20″	0.97858889	0.20582465	4.754478473	0.210328011	4.858504457	1.021879578
78° 07′ 30″	0.97859887	0.20577721	4.755623143	0.210277385	4.859624623	1.021869159
78° 07′ 40″	0.97860884	0.20572977	4.756768341	0.210226761	4.860745318	1.021858743
78° 07′ 50″	0.97861881	0.20568232	4.757914067	0.210176137	4.861866541	1.021848330

586 **78° 07′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
78° 08′ 00″	0.97862878	0.20563488	4.759060322	0.210125515	4.862988294	1.021837919
78° 08′ 10″	0.97863875	0.20558743	4.760207105	0.210074893	4.864110575	1.021827510
78° 08′ 20″	0.97864872	0.20553999	4.761354418	0.210024273	4.865233386	1.021817105
78° 08′ 30″	0.97865868	0.20549254	4.762502261	0.209973654	4.866356727	1.021806701
78° 08′ 40″	0.97866864	0.20544509	4.763650635	0.209923035	4.867480598	1.021796301
78° 08′ 50″	0.97867860	0.20539764	4.764799538	0.209872418	4.868604999	1.021785903
78° 09′ 00″	0.97868856	0.20535020	4.765948973	0.209821802	4.869729932	1.021775508
78° 09′ 10″	0.97869851	0.20530275	4.767098939	0.209771186	4.870855396	1.021765115
78° 09′ 20″	0.97870847	0.20525530	4.768249437	0.209720572	4.871981393	1.021754725
78° 09′ 30″	0.97871842	0.20520785	4.769400466	0.209669959	4.873107921	1.021744338
78° 09′ 40″	0.97872836	0.20516040	4.770552028	0.209619347	4.874234981	1.021733953
78° 09′ 50″	0.97873831	0.20511295	4.771704123	0.209568736	4.875362575	1.021723571
78° 10′ 00″	0.97874825	0.20506550	4.772856751	0.209518126	4.876490702	1.021713191
78° 10′ 10″	0.97875819	0.20501805	4.774009913	0.209467516	4.877619363	1.021702814
78° 10′ 20″	0.97876813	0.20497060	4.775163608	0.209416908	4.878748557	1.021692440
78° 10′ 30″	0.97877807	0.20492314	4.776317838	0.209366301	4.879878287	1.021682068
78° 10′ 40″	0.97878800	0.20487569	4.777472603	0.209315695	4.881008550	1.021671699
78° 10′ 50″	0.97879793	0.20482824	4.778627902	0.209265090	4.882139350	1.021661332
78° 11′ 00″	0.97880786	0.20478078	4.779783737	0.209214486	4.883270684	1.021650968
78° 11′ 10″	0.97881779	0.20473333	4.780940108	0.209163884	4.884402555	1.021640607
78° 11′ 20″	0.97882771	0.20468588	4.782097015	0.209113282	4.885534962	1.021630248
78° 11′ 30″	0.97883764	0.20463842	4.783254459	0.209062681	4.886667905	1.021619892
78° 11′ 40″	0.97884756	0.20459096	4.784412439	0.209012081	4.887801386	1.021609539
78° 11′ 50″	0.97885747	0.20454351	4.785570957	0.208961482	4.888935404	1.021599188
78° 12′ 00″	0.97886739	0.20449605	4.786730012	0.208910884	4.890069960	1.021588840
78° 12′ 10″	0.97887730	0.20444859	4.787889606	0.208860288	4.891205054	1.021578494
78° 12′ 20″	0.97888721	0.20440114	4.789049738	0.208809692	4.892340687	1.021568151
78° 12′ 30″	0.97889712	0.20435368	4.790210409	0.208759097	4.893476858	1.021557811
78° 12′ 40″	0.97890703	0.20430622	4.791371619	0.208708503	4.894613569	1.021547473
78° 12′ 50″	0.97891693	0.20425876	4.792533369	0.208657911	4.895750820	1.021537138
78° 13′ 00″	0.97892683	0.20421130	4.793695659	0.208607319	4.896888611	1.021526805
78° 13′ 10″	0.97893673	0.20416384	4.794858489	0.208556728	4.898026942	1.021516475
78° 13′ 20″ 78° 13′ 30″	0.97894663	0.20411638	4.796021859	0.208506139	4.899165814	1.021506148 1.021495823
78° 13′ 40″	0.97895652	0.20406892 0.20402146	4.797185771 4.798350225	0.208455550 0.208404963	4.900305228 4.901445183	1.021493823
78° 13′ 40″ 78° 13′ 50″	0.97897631	0.20402146	4.798530223	0.208354376	4.901445185	1.021485501
78° 14′ 00″	0.97898619	0.20397400	4.777515220	0.208303791	4.902363660	1.021473181
78° 14′ 10″	0.97899608	0.20372634	4.801846838	0.208253206	4.703726720	1.021454550
78° 14′ 10′′′ 78° 14′ 20′′′	0.97899608	0.20383161	4.803013462	0.208202623	4.906010427	1.021444238
78° 14′ 30″	0.97901584	0.20378415	4.804180629	0.208202023	4.907153096	1.021444238
78° 14′ 40″	0.97902572	0.20378413	4.805348339	0.208101459	4.908296309	1.021433727
78° 14′ 50″	0.97903560	0.20373688	4.805346337	0.208050879	4.909440067	1.021423623
78° 15′ 00″	0.97904547	0.20364175	4.807685394	0.208030877	4.910584369	1.021413317
78° 15′ 10″	0.97905534	0.20359429	4.808854738	0.207949721	4.911729216	1.021403018
78° 15′ 20″	0.97906521	0.20354682	4.810024628	0.207899143	4.912874609	1.021372717
78° 15′ 30″	0.97907508	0.20334082	4.811195063	0.207848567	4.914020547	1.021372129
78° 15′ 40″	0.97908495	0.20345189	4.812366045	0.207797992	4.915167032	1.021361839
78° 15′ 50″	0.97909481	0.20340442	4.813537573	0.207747418	4.916314063	1.021351550
	1 2.77 707 101	3.203 10 1 12		5.2077 17 110	, 10311003	

587 **78° 15′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
78° 16′ 00″	0.97910467	0.20335695	4.814709649	0.207696844	4.917461642	1.021341265
78° 16′ 10″	0.97911453	0.20330948	4.815882271	0.207646272	4.918609768	1.021330982
78° 16′ 20″	0.97912438	0.20326201	4.817055441	0.207595701	4.919758442	1.021320701
78° 16′ 30″	0.97913423	0.20321454	4.818229160	0.207545131	4.920907664	1.021310424
78° 16′ 40″	0.97914409	0.20316707	4.819403426	0.207494561	4.922057434	1.021300148
78° 16′ 50″	0.97915393	0.20311960	4.820578242	0.207443993	4.923207754	1.021289876
78° 17′ 00″	0.97916378	0.20307213	4.821753607	0.207393426	4.924358623	1.021279606
78° 17′ 10″	0.97917362	0.20302466	4.822929521	0.207342860	4.925510041	1.021269338
78° 17′ 20″	0.97918347	0.20297719	4.824105986	0.207292295	4.926662010	1.021259074
78° 17′ 30″	0.97919331	0.20292972	4.825283001	0.207241731	4.927814530	1.021248811
78° 17′ 40″	0.97920314	0.20288224	4.826460567	0.207191168	4.928967600	1.021238552
78° 17′ 50″	0.97921298	0.20283477	4.827638684	0.207140605	4.930121222	1.021228295
78° 18′ 00″	0.97922281	0.20278730	4.828817352	0.207090044	4.931275395	1.021218041
78° 18′ 10″	0.97923264	0.20273982	4.829996573	0.207039484	4.932430120	1.021207789
78° 18′ 20″	0.97924247	0.20269235	4.831176346	0.206988925	4.933585399	1.021197540
78° 18′ 30″	0.97925229	0.20264487	4.832356672	0.206938367	4.934741229	1.021187293
78° 18′ 40″	0.97926212	0.20259740	4.833537551	0.206887810	4.935897614	1.021177049
78° 18′ 50″	0.97927194	0.20254992	4.834718983	0.206837254	4.937054552	1.021166808
78° 19′ 00″	0.97928176	0.20250244	4.835900970	0.206786699	4.938212044	1.021156569
78° 19′ 10″	0.97929157	0.20245497	4.837083511	0.206736145	4.939370090	1.021146333
78° 19′ 20″	0.97930139	0.20240749	4.838266606	0.206685592	4.940528692	1.021136100
78° 19′ 30″	0.97931120	0.20236001	4.839450257	0.206635041	4.941687848	1.021125869
78° 19′ 40″	0.97932101	0.20231253	4.840634463	0.206584490	4.942847561	1.021115641
78° 19′ 50″	0.97933082	0.20226505	4.841819226	0.206533940	4.944007829	1.021105415
78° 20′ 00″	0.97934062	0.20221757	4.843004544	0.206483391	4.945168654	1.021095192
78° 20′ 10″	0.97935042	0.20217009	4.844190420	0.206432843	4.946330036	1.021084971
78° 20′ 20″	0.97936022	0.20212261	4.845376852	0.206382296	4.947491975	1.021074753
78° 20′ 30″	0.97937002	0.20207513	4.846563842	0.206331750	4.948654472	1.021064538
78° 20′ 40″	0.97937982	0.20202765	4.847751391	0.206281205	4.949817526	1.021054326
78° 20′ 50″	0.97938961	0.20198017	4.848939497	0.206230661	4.950981140	1.021044115
78° 21′ 00″	0.97939940	0.20193269	4.850128162	0.206180119	4.952145312	1.021033908
78° 21′ 10″ 78° 21′ 20″	0.97940919	0.20188520	4.851317386	0.206129577	4.953310043	1.021023703
78° 21′ 20″ 78° 21′ 30″	0.97941898	0.20183772	4.852507170	0.206079036	4.954475334	1.021013501 1.021003301
78° 21′ 40″	0.97942876	0.20179024 0.20174275	4.853697514 4.854888418	0.206028496 0.205977957	4.955641185 4.956807597	1.021003301
78° 21′ 50″	0.97944832	0.20174273	4.856079883	0.205927420	4.957974569	1.020993104
78° 22′ 00″	0.97945810	0.20164527	4.857271909	0.205927420	4.959142103	1.020972718
78° 22′ 10″	0.97946788	0.20164778	4.858464496	0.205826347	4.960310198	1.020972718
78° 22′ 20″	0.97947765	0.20155281	4.859657646	0.205826347	4.960310198	1.020952342
78° 22′ 30″	0.97948742	0.20150532	4.860851357	0.205725279	4.962648075	1.020932342
78° 22′ 40″	0.97949719	0.20130332	4.862045632	0.205674746	4.963817858	1.020942138
78° 22′ 50″	0.97950695	0.20143784	4.863240470	0.205624214	4.964988204	1.020731777
78° 23′ 00″	0.77750673	0.20141033	4.864435871	0.205573683	4.966159114	1.020721778
78° 23′ 10″	0.77751672	0.20130280	4.865631836	0.205523154	4.967330588	1.020711622
78° 23′ 20″	0.97953624	0.20131337	4.866828366	0.205472625	4.968502626	1.020891277
78° 23′ 30″	0.97954599	0.20122039	4.868025460	0.205422097	4.969675229	1.020871277
78° 23′ 40″	0.97955575	0.20117290	4.869223120	0.205371571	4.970848398	1.020870943
78° 23′ 50″	0.97956550	0.20117270	4.870421345	0.205321045	4.972022132	1.020860780
	1 2.77 7 3 6 3 3 6	3.20.12011		5.200521010	,,	

588 **78° 23′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
78° 24′ 00″	0.97957525	0.20107792	4.871620136	0.205270520	4.973196432	1.020850619
78° 24′ 10″	0.97958500	0.20107772	4.872819494	0.205219997	4.974371299	1.020840461
78° 24′ 20″	0.97959474	0.20098294	4.874019418	0.205169474	4.975546733	1.020830306
78° 24′ 30″	0.97960448	0.20073274	4.875219910	0.205118952	4.976722734	1.020820153
78° 24′ 40″	0.97961423	0.20088795	4.876420969	0.205068432	4.977899303	1.020810003
78° 24′ 50″	0.97962396	0.20084046	4.877622596	0.205017912	4.979076440	1.020799855
78° 25′ 00″	0.97963370	0.20079297	4.878824792	0.204967393	4.980254145	1.020789710
78° 25′ 10″	0.97964343	0.20074547	4.880027556	0.204916876	4.981432420	1.020779568
78° 25′ 20″	0.97965316	0.20069798	4.881230890	0.204866359	4.982611264	1.020769428
78° 25′ 30″	0.97966289	0.20065048	4.882434794	0.204815843	4.983790677	1.020759291
78° 25′ 40″	0.97967262	0.20060299	4.883639267	0.204765329	4.984970661	1.020749156
78° 25′ 50″	0.97968234	0.20055549	4.884844311	0.204714815	4.986151216	1.020739024
78° 26′ 00″	0.97969207	0.20050799	4.886049926	0.204664302	4.987332341	1.020728895
78° 26′ 10″	0.97970179	0.20046050	4.887256112	0.204613791	4.988514038	1.020718768
78° 26′ 20″	0.97971150	0.20041300	4.888462870	0.204563280	4.989696307	1.020708644
78° 26′ 30″	0.97972122	0.20036550	4.889670201	0.204512771	4.990879148	1.020698522
78° 26′ 40″	0.97973093	0.20031800	4.890878103	0.204462262	4.992062562	1.020688403
78° 26′ 50″	0.97974064	0.20027050	4.892086579	0.204411754	4.993246549	1.020678287
78° 27′ 00″	0.97975035	0.20022300	4.893295628	0.204361248	4.994431109	1.020668173
78° 27′ 10″	0.97976006	0.20017550	4.894505251	0.204310742	4.995616243	1.020658062
78° 27′ 20″	0.97976976	0.20012800	4.895715448	0.204260237	4.996801952	1.020647953
78° 27′ 30″	0.97977946	0.20008050	4.896926219	0.204209734	4.997988235	1.020637847
78° 27′ 40″	0.97978916	0.20003300	4.898137566	0.204159231	4.999175093	1.020627744
78° 27′ 50″	0.97979886	0.19998550	4.899349488	0.204108730	5.000362527	1.020617643
78° 28′ 00″	0.97980855	0.19993800	4.900561986	0.204058229	5.001550537	1.020607545
78° 28′ 10″	0.97981824	0.19989050	4.901775060	0.204007729	5.002739124	1.020597449
78° 28′ 20″	0.97982793	0.19984299	4.902988711	0.203957231	5.003928287	1.020587356
78° 28′ 30″	0.97983762	0.19979549	4.904202939	0.203906733	5.005118028	1.020577266
78° 28′ 40″	0.97984731	0.19974798	4.905417745	0.203856237	5.006308346	1.020567178
78° 28′ 50″	0.97985699	0.19970048	4.906633128	0.203805741	5.007499242	1.020557093
78° 29′ 00″	0.97986667	0.19965297	4.907849090	0.203755246	5.008690716	1.020547010
78° 29′ 10″	0.97987635	0.19960547	4.909065631	0.203704753	5.009882770	1.020536930
78° 29′ 20″	0.97988602	0.19955796	4.910282751	0.203654260	5.011075403	1.020526853
78° 29′ 30″	0.97989570	0.19951046	4.911500450	0.203603768	5.012268616	1.020516778
78° 29′ 40″	0.97990537	0.19946295	4.912718730	0.203553278	5.013462408	1.020506706
78° 29′ 50″	0.97991504	0.19941544	4.913937590	0.203502788	5.014656782	1.020496636
78° 30′ 00″	0.97992470	0.19936793	4.915157031	0.203452299	5.015851736	1.020486569
78° 30′ 10″	0.97993437	0.19932043	4.916377053	0.203401812	5.017047272	1.020476505
78° 30′ 20″	0.97994403	0.19927292	4.917597657	0.203351325	5.018243390	1.020466443
78° 30′ 30″	0.97995369	0.19922541	4.918818843	0.203300839	5.019440090	1.020456384
78° 30′ 40″	0.97996335	0.19917790	4.920040612	0.203250355	5.020637372	1.020446327
78° 30′ 50″	0.97997300	0.19913039	4.921262964	0.203199871	5.021835238	1.020436273
78° 31′ 00″	0.97998266	0.19908288	4.922485899	0.203149388	5.023033687	1.020426222
78° 31′ 10″	0.97999231	0.19903537	4.923709418	0.203098907	5.024232721	1.020416173
78° 31′ 20″	0.98000196	0.19898785	4.924933521	0.203048426	5.025432338	1.020406127
78° 31′ 30″	0.98001160	0.19894034	4.926158209	0.202997946	5.026632541	1.020396083
78° 31′ 40″	0.98002125	0.19889283	4.927383482	0.202947468	5.027833329	1.020386042
78° 31′ 50″	0.98003089	0.19884532	4.928609341	0.202896990	5.029034702	1.020376004

589 **78° 31′ 50″**

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
78° 32′ 00″	0.98004053	0.19879780	4.929835785	0.202846513	5.030236661	1.020365968
78° 32′ 10″	0.98005016	0.19875029	4.931062816	0.202796038	5.031439207	1.020355934
78° 32′ 20″	0.98005980	0.19870278	4.932290434	0.202745563	5.032642340	1.020345904
78° 32′ 30″	0.98006943	0.19865526	4.933518639	0.202695089	5.033846061	1.020335876
78° 32′ 40″	0.98007906	0.19860775	4.934747432	0.202644616	5.035050369	1.020325850
78° 32′ 50″	0.98008869	0.19856023	4.935976812	0.202594145	5.036255265	1.020315827
78° 33′ 00″	0.98009831	0.19851271	4.937206782	0.202543674	5.037460750	1.020305807
78° 33′ 10″	0.98010794	0.19846520	4.938437340	0.202493204	5.038666824	1.020295789
78° 33′ 20″	0.98011756	0.19841768	4.939668488	0.202442735	5.039873487	1.020285774
78° 33′ 30″	0.98012717	0.19837016	4.940900225	0.202392267	5.041080741	1.020275762
78° 33′ 40″	0.98013679	0.19832264	4.942132553	0.202341801	5.042288585	1.020265752
78° 33′ 50″	0.98014640	0.19827512	4.943365471	0.202291335	5.043497019	1.020255744
78° 34′ 00″	0.98015602	0.19822761	4.944598981	0.202240870	5.044706045	1.020245740
78° 34′ 10″	0.98016563	0.19818009	4.945833082	0.202190406	5.045915662	1.020235738
78° 34′ 20″	0.98017523	0.19813257	4.947067775	0.202139943	5.047125872	1.020225738
78° 34′ 30″	0.98018484	0.19808505	4.948303060	0.202089482	5.048336674	1.020215741
78° 34′ 40″	0.98019444	0.19803752	4.949538938	0.202039021	5.049548069	1.020205747
78° 34′ 50″	0.98020404	0.19799000	4.950775410	0.201988561	5.050760058	1.020195755
78° 35′ 00″	0.98021364	0.19794248	4.952012475	0.201938102	5.051972640	1.020185766
78° 35′ 10″	0.98022323	0.19789496	4.953250135	0.201887644	5.053185816	1.020175779
78° 35′ 20″	0.98023283	0.19784744	4.954488388	0.201837187	5.054399588	1.020165795
78° 35′ 30″	0.98024242	0.19779991	4.955727237	0.201786731	5.055613954	1.020155814
78° 35′ 40″	0.98025200	0.19775239	4.956966682	0.201736276	5.056828916	1.020145835
78° 35′ 50″	0.98026159	0.19770487	4.958206722	0.201685822	5.058044474	1.020135859
78° 36′ 00″	0.98027117	0.19765734	4.959447358	0.201635369	5.059260628	1.020125885
78° 36′ 10″	0.98028076	0.19760982	4.960688592	0.201584917	5.060477379	1.020115914
78° 36′ 20″	0.98029034	0.19756229	4.961930422	0.201534466	5.061694728	1.020105946
78° 36′ 30″	0.98029991	0.19751476	4.963172850	0.201484016	5.062912674	1.020095980
78° 36′ 40″	0.98030949	0.19746724	4.964415876	0.201433567	5.064131218	1.020086017
78° 36′ 50″	0.98031906	0.19741971	4.965659501	0.201383119	5.065350361	1.020076056
78° 37′ 00″	0.98032863	0.19737218	4.966903724	0.201332672	5.066570103	1.020066098
78° 37′ 10″ 78° 37′ 20″	0.98033820 0.98034776	0.19732465 0.19727713	4.968148547 4.969393970	0.201282226 0.201231781	5.067790444	1.020056143
78° 37′ 30″	0.98035733	0.19727713	4.970639993	0.201231781	5.069011386 5.070232928	1.020046190 1.020036240
78° 37′ 40″	0.78033733	0.17722760	4.971886617	0.201130894	5.070232728	1.020036240
78° 37′ 50″	0.98037644	0.17718207	4.973133841	0.201130874	5.072677814	1.020026272
78° 38′ 00″	0.98038600	0.17713434	4.974381668	0.201030432	5.073901160	1.020016347
78° 38′ 10″	0.98039555	0.17703701	4.975630096	0.200979571	5.075125107	1.019996465
78° 38′ 20″	0.98040511	0.17703748	4.976879127	0.200777371	5.076349657	1.017776463
78° 38′ 30″	0.98041466	0.17677173	4.978128761	0.200727131	5.077574811	1.017766527
78° 38′ 40″	0.98042420	0.19689688	4.979378998	0.200828256	5.078800567	1.017776373
78° 38′ 50″	0.98043375	0.19684935	4.980629839	0.200777820	5.080026928	1.019956731
78° 39′ 00″	0.98044329	0.17684733	4.981881284	0.200727385	5.081253893	1.017736731
78° 39′ 10″	0.98045283	0.17666162	4.983133333	0.200727383	5.082481462	1.019936880
78° 39′ 20″	0.98046237	0.17670428	4.984385988	0.200626517	5.083709637	1.019926958
78° 39′ 30″	0.98047190	0.17676673	4.985639248	0.200576085	5.084938418	1.019917039
78° 39′ 40″	0.98048144	0.19661168	4.986893115	0.200525653	5.086167805	1.019907122
78° 39′ 50″	0.98049097	0.19656415	4.988147588	0.200475223	5.087397798	1.019897208
	1 2.7.00 17077	2117000110	.,,	5.200 17 5225	2.00.077770	

590 **78° 39′ 50″**

<u>x</u>	$\sin(\mathbf{x})$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
78° 40′ 00″	0.98050050	0.19651661	4.989402667	0.200424794	5.088628398	1.019887297
78° 40′ 10″	0.98051002	0.19646907	4.990658354	0.200374365	5.089859606	1.019877388
78° 40′ 20″	0.98051955	0.19642154	4.991914649	0.200323938	5.091091422	1.019867482
78° 40′ 30″	0.98052907	0.19637400	4.993171552	0.200273511	5.092323846	1.019857578
78° 40′ 40″	0.98053859	0.19632646	4.994429064	0.200223086	5.093556878	1.019847677
78° 40′ 50″	0.98054810	0.19627892	4.995687185	0.200172662	5.094790520	1.019837778
78° 41′ 00″	0.98055762	0.19623139	4.996945915	0.200122238	5.096024772	1.019827883
78° 41′ 10″	0.98056713	0.19618385	4.998205256	0.200071816	5.097259634	1.019817989
78° 41′ 20″	0.98057664	0.19613631	4.999465206	0.200021394	5.098495106	1.019808099
78° 41′ 30″	0.98058615	0.19608877	5.000725768	0.199970973	5.099731190	1.019798211
78° 41′ 40″	0.98059565	0.19604123	5.001986942	0.199920554	5.100967885	1.019788325
78° 41′ 50″	0.98060516	0.19599369	5.003248727	0.199870135	5.102205192	1.019778442
78° 42′ 00″	0.98061466	0.19594614	5.004511124	0.199819718	5.103443111	1.019768562
78° 42′ 10″	0.98062416	0.19589860	5.005774134	0.199769301	5.104681643	1.019758684
78° 42′ 20″	0.98063365	0.19585106	5.007037757	0.199718885	5.105920789	1.019748809
78° 42′ 30″	0.98064315	0.19580352	5.008301994	0.199668471	5.107160548	1.019738936
78° 42′ 40″	0.98065264	0.19575597	5.009566845	0.199618057	5.108400921	1.019729066
78° 42′ 50″	0.98066213	0.19570843	5.010832310	0.199567644	5.109641910	1.019719199
78° 43′ 00″	0.98067162	0.19566089	5.012098391	0.199517233	5.110883513	1.019709334
78° 43′ 10″	0.98068110	0.19561334	5.013365087	0.199466822	5.112125731	1.019699472
78° 43′ 20″	0.98069058	0.19556580	5.014632399	0.199416412	5.113368566	1.019689612
78° 43′ 30″	0.98070006	0.19551825	5.015900327	0.199366003	5.114612018	1.019679755
78° 43′ 40″	0.98070954	0.19547071	5.017168872	0.199315595	5.115856086	1.019669901
78° 43′ 50″	0.98071902	0.19542316	5.018438034	0.199265188	5.117100771	1.019660049
78° 44′ 00″	0.98072849	0.19537561	5.019707814	0.199214782	5.118346075	1.019650200
78° 44′ 10″ 78° 44′ 20″	0.98073796	0.19532807	5.020978212	0.199164377	5.119591996	1.019640353
78° 44′ 20″ 78° 44′ 30″	0.98074743	0.19528052	5.022249229	0.199113974	5.120838537	1.019630509
78° 44′ 40″	0.98075690	0.19523297	5.023520865	0.199063571	5.122085697 5.122222476	1.019620667
78° 44′ 50″	0.98076636 0.98077582	0.19518542 0.19513787	5.024793121 5.026065996	0.199013169 0.198962767	5.123333476 5.124581875	1.019610828 1.019600992
78° 45′ 00″	0.78077382	0.17513787	5.027339492	0.198912367	5.125830895	1.019591158
78° 45′ 10″	0.98079474	0.17507032	5.028613609	0.178712367	5.127080537	1.017571138
78° 45′ 20″	0.98080419	0.17304277	5.029888347	0.198811570	5.128330799	1.019571498
78° 45′ 30″	0.98081364	0.19494767	5.031163708	0.198761173	5.129581684	1.019561672
78° 45′ 40″	0.98082309	0.19490012	5.032439690	0.198710777	5.130833191	1.019551849
78° 45′ 50″	0.98083254	0.19485257	5.033716295	0.198660382	5.132085321	1.019542028
78° 46′ 00″	0.98084199	0.19480501	5.034993524	0.198609987	5.133338074	1.019532210
78° 46′ 10″	0.98085143	0.19475746	5.036271376	0.198559594	5.134591451	1.019522394
78° 46′ 20″	0.98086087	0.19470991	5.037549852	0.198509202	5.135845453	1.019512581
78° 46′ 30″	0.98087031	0.19466236	5.038828953	0.198458810	5.137100079	1.019502771
78° 46′ 40″	0.98087975	0.19461480	5.040108679	0.198408420	5.138355330	1.019492963
78° 46′ 50″	0.98088918	0.19456725	5.041389031	0.198358031	5.139611207	1.019483157
78° 47′ 00″	0.98089861	0.19451969	5.042670009	0.198307642	5.140867711	1.019473355
78° 47′ 10″	0.98090804	0.19447214	5.043951613	0.198257255	5.142124840	1.019463555
78° 47′ 20″	0.98091747	0.19442458	5.045233844	0.198206868	5.143382597	1.019453757
78° 47′ 30″	0.98092689	0.19437702	5.046516703	0.198156483	5.144640982	1.019443962
78° 47′ 40″	0.98093632	0.19432947	5.047800189	0.198106098	5.145899994	1.019434170
78° 47′ 50″	0.98094574	0.19428191	5.049084304	0.198055715	5.147159635	1.019424380

591 78° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
78° 48′ 00″	0.98095516	0.19423435		0.198005332	5.148419905	1.019414593
78° 48′ 00″ 78° 48′ 10″	0.98095516	0.19423435	5.050369047 5.051654420	0.198005332	5.148419905	1.019414593
78° 48′ 10″ 78° 48′ 20″	0.98097398	0.19413923	5.051634420	0.197904570	5.150942333	1.019404606
78° 48′ 30″				0.197904370		
78° 48′ 40″	0.98098340	0.19409168	5.054227056		5.152204492	1.019385246
78° 48′ 50″	0.98099280	0.19404412	5.055514319	0.197803811	5.153467283	1.019375469
78° 49′ 00″	0.98100221	0.19399656 0.19394899	5.056802214	0.197753433	5.154730704	1.019365695 1.019355923
78° 49′ 10″	0.98101161		5.058090741	0.197703057	5.155994758	
78° 49′ 10″ 78° 49′ 20″	0.98102102	0.19390143	5.059379899	0.197652681	5.157259443	1.019346154 1.019336388
78° 49′ 30″	0.98103042	0.19385387 0.19380631	5.060669690	0.197602306	5.158524761	1.019326624
78° 49′ 40″	0.98103981		5.061960114	0.197551932	5.159790713	
78° 49′ 40″ 78° 49′ 50″	0.98104921	0.19375875	5.063251172	0.197501559	5.161057298	1.019316862
78° 50′ 00″	0.98105860	0.19371119	5.064542864	0.197451187	5.162324517	1.019307104
	0.98106799	0.19366362	5.065835190	0.197400816	5.163592371	1.019297347
78° 50′ 10″ 78° 50′ 20″	0.98107738 0.98108676	0.19361606 0.19356849	5.067128151 5.068421747	0.197350446 0.197300077	5.164860859 5.166129984	1.019287594 1.019277843
78° 50′ 30″	0.98109615	0.19352093	5.069715980	0.197300077	5.166129984	1.019277843
78° 50′ 40″						
78° 50′ 50″	0.98110553	0.19347336 0.19342580	5.071010848	0.197199341	5.168670141	1.019258348 1.019248605
78° 51′ 00″	0.98111491		5.072306354 5.073602497	0.197148975	5.169941174	
78° 51′ 10″	0.98112428	0.19337823		0.197098610	5.171212846 5.172485155	1.019238864
78° 51′ 20″	0.98113366 0.98114303	0.19333067 0.19328310	5.074899277 5.076196696	0.197048246 0.196997882	5.172483133	1.019229126 1.019219390
78° 51′ 30″	0.98115240	0.19323553	5.077494754	0.176777882	5.175/38102	1.019219390
78° 51′ 40″						
78° 51′ 50″	0.98116177	0.19318796 0.19314040	5.078793451 5.080092788	0.196897159 0.196846798	5.176305914 5.177580780	1.019199927 1.019190199
78° 52′ 00″	0.98118049	0.19314040	5.081392764	0.196796439	5.178856286	1.019190199
78° 52′ 10″	0.98118985	0.17307283	5.082693382	0.196746080	5.180132432	1.017180474
78° 52′ 20″	0.78118783	0.17304326	5.083994641	0.176746080	5.181409220	1.019161031
78° 52′ 30″	0.98120857	0.17277707	5.085296541	0.176675725	5.182686650	1.019151314
78° 52′ 40″	0.98121792	0.17273012	5.086599083	0.196595010	5.183964721	1.017131314
78° 52′ 50″	0.98122727	0.17270293	5.087902268	0.196544656	5.185243436	1.019131886
78° 53′ 00″	0.98123662	0.17280740	5.089206096	0.196494302	5.186522794	1.019122177
78° 53′ 10″	0.98124597	0.17230740	5.090510568	0.196443949	5.187802795	1.019112469
78° 53′ 20″	0.98125531	0.17273703	5.091815683	0.196393598	5.189083441	1.019102765
78° 53′ 30″	0.98126465	0.19266469	5.093121443	0.196343247	5.190364731	1.019093063
78° 53′ 40″	0.98127399	0.19261711	5.094427849	0.196292897	5.191646666	1.019083363
78° 53′ 50″	0.98128333	0.19256954	5.095734899	0.196242548	5.192929247	1.019073666
78° 54′ 00″	0.98129266	0.19252197	5.097042596	0.196192200	5.194212474	1.019063972
78° 54′ 10″	0.98130200	0.19247439	5.098350939	0.196141853	5.195496347	1.019054280
78° 54′ 20″	0.98131133	0.19242682	5.099659929	0.196091507	5.196780868	1.019044591
78° 54′ 30″	0.98132065	0.19237924	5.100969566	0.196041162	5.198066036	1.019034905
78° 54′ 40″	0.98132998	0.19233167	5.102279851	0.195990818	5.199351852	1.019025221
78° 54′ 50″	0.98133930	0.19228409	5.103590785	0.195940474	5.200638317	1.019015539
78° 55′ 00″	0.98134862	0.19223651	5.104902368	0.195890132	5.201925430	1.019005861
78° 55′ 10″	0.98135794	0.19218893	5.106214600	0.195839791	5.203213194	1.018996184
78° 55′ 20″	0.98136726	0.19214136	5.107527481	0.195789451	5.204501607	1.018986511
78° 55′ 30″	0.98137657	0.19209378	5.108841014	0.195739111	5.205790670	1.018976840
78° 55′ 40″	0.98138589	0.19204620	5.110155197	0.195688773	5.207080385	1.018967171
78° 55′ 50″	0.98139520	0.19199862	5.111470031	0.195638436	5.208370751	1.018957505
	0.70137320	J.1717700Z	3.1111/0031	2.173030130	3.2003/0/31	

592 78° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
78° 56′ 00″	0.98140450	0.19195104	5.112785517	0.195588099	5.209661769	1.018947842
78° 56′ 10″	0.98141381	0.19190346	5.114101656	0.195537763	5.210953439	1.018938181
78° 56′ 20″	0.98142311	0.19185588	5.115418447	0.195487429	5.212245762	1.018928523
78° 56′ 30″	0.98143241	0.19180830	5.116735891	0.195437095	5.213538739	1.018918867
78° 56′ 40″	0.98144171	0.19176072	5.118053990	0.195386763	5.214832370	1.018909214
78° 56′ 50″	0.98145100	0.19171314	5.119372743	0.195336431	5.216126655	1.018899564
78° 57′ 00″	0.98146030	0.19166555	5.120692150	0.195286100	5.217421594	1.018889916
78° 57′ 10″	0.98146959	0.19161797	5.122012213	0.195235770	5.218717190	1.018880271
78° 57′ 20″	0.98147888	0.19157039	5.123332931	0.195185441	5.220013441	1.018870628
78° 57′ 30″	0.98148816	0.19152280	5.124654306	0.195135114	5.221310348	1.018860988
78° 57′ 40″	0.98149745	0.19147522	5.125976337	0.195084787	5.222607913	1.018851350
78° 57′ 50″	0.98150673	0.19142764	5.127299026	0.195034461	5.223906135	1.018841715
78° 58′ 00″	0.98151601	0.19138005	5.128622373	0.194984136	5.225205014	1.018832083
78° 58′ 10″	0.98152529	0.19133247	5.129946377	0.194933811	5.226504552	1.018822453
78° 58′ 20″	0.98153456	0.19128488	5.131271041	0.194883488	5.227804749	1.018812826
78° 58′ 30″	0.98154383	0.19123729	5.132596363	0.194833166	5.229105605	1.018803201
78° 58′ 40″	0.98155310	0.19118971	5.133922346	0.194782845	5.230407121	1.018793579
78° 58′ 50″	0.98156237	0.19114212	5.135248989	0.194732525	5.231709298	1.018783960
78° 59′ 00″	0.98157164	0.19109453	5.136576292	0.194682205	5.233012135	1.018774343
78° 59′ 10″	0.98158090	0.19104694	5.137904257	0.194631887	5.234315633	1.018764728
78° 59′ 20″	0.98159016	0.19099935	5.139232883	0.194581569	5.235619794	1.018755116
78° 59′ 30″	0.98159942	0.19095177	5.140562172	0.194531253	5.236924617	1.018745507
78° 59′ 40″	0.98160868	0.19090418	5.141892123	0.194480937	5.238230102	1.018735901
78° 59′ 50″	0.98161793	0.19085659	5.143222738	0.194430623	5.239536251	1.018726296
79° 00′ 00″	0.98162718	0.19080900	5.144554016	0.194380309	5.240843064	1.018716695
79° 00′ 10″	0.98163643	0.19076140	5.145885959	0.194329996	5.242150541	1.018707096
79° 00′ 20″	0.98164568	0.19071381	5.147218566	0.194279685	5.243458683	1.018697500
79° 00′ 30″	0.98165493	0.19066622	5.148551839	0.194229374	5.244767491	1.018687906
79° 00′ 40″	0.98166417	0.19061863	5.149885777	0.194179064	5.246076964	1.018678315
79° 00′ 50″	0.98167341	0.19057104	5.151220382	0.194128755	5.247387104	1.018668726
79° 01′ 00″	0.98168265	0.19052344	5.152555653	0.194078447	5.248697911	1.018659140
79° 01′ 10″	0.98169188	0.19047585	5.153891592	0.194028140	5.250009385	1.018649557
79° 01′ 20″ 79° 01′ 30″	0.98170112	0.19042826	5.155228198	0.193977834	5.251321526	1.018639976
	0.98171035	0.19038066	5.156565473	0.193927529	5.252634337	1.018630397
79° 01′ 40″	0.98171957	0.19033307	5.157903416	0.193877225	5.253947816	1.018620822
79° 01′ 50″ 79° 02′ 00″	0.98172880	0.19028547	5.159242029	0.193826922	5.255261965 E 25 (57 (782	1.018611248
79° 02′ 00″ 79° 02′ 10″	0.98173803	0.19023788	5.160581312	0.193776619	5.256576783	1.018601678 1.018592110
79° 02′ 10″ 79° 02′ 20″	0.98174725	0.19019028	5.161921265	0.193726318	5.257892272	
79° 02′ 20″ 79° 02′ 30″	0.98175647 0.98176568	0.19014268 0.19009509	5.163261889 5.164603184	0.193676018 0.193625718	5.259208432 5.260525263	1.018582544 1.018572982
79° 02′ 40″	0.98177490	0.19009309	5.165945151	0.193575420	5.260323263	1.018563421
79° 02′ 50″	0.98178411	0.17004747	5.163743131	0.173575420	5.263160943	1.018553863
79° 02′ 30″ 79° 03′ 00″	0.98178411	0.18999989	5.167287790	0.193323122	5.263160943	1.018544308
79° 03′ 10″	0.98180253	0.18990469	5.169975088	0.193424530	5.265799314	1.018534756
79° 03′ 20″	0.98181174	0.18985709	5.171319748	0.173424330	5.267119510	1.018525206
79° 03′ 30″	0.98182094	0.18783707	5.171317748	0.173374233	5.268440381	1.018515658
79° 03′ 40″	0.98183014	0.18976189	5.174011091	0.173323741	5.269761927	1.018506113
79° 03′ 50″	0.98183934	0.18971429	5.175357775	0.173273048	5.271084148	1.018496571
	3.70103734	0.10// 174/	J.17 JJJ7 17 J	5.17 <i>52255</i> 50	3,27 1007170	1.010 1/03/1

593 **79° 03′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
79° 04′ 00″	0.98184854	0.18966669	5.176705135	0.193173065	5.272407046	1.018487031
79° 04′ 10″	0.98185773	0.18961909	5.178053172	0.193122775	5.273730620	1.018477494
79° 04′ 20″	0.98186692	0.18957149	5.179401886	0.193072486	5.275054871	1.018467960
79° 04′ 30″	0.98187611	0.18952389	5.180751277	0.193022198	5.276379800	1.018458428
79° 04′ 40″	0.98188530	0.18947628	5.182101346	0.192971911	5.277705407	1.018448898
79° 04′ 50″	0.98189448	0.18942868	5.183452094	0.192921625	5.279031693	1.018439371
79° 05′ 00″	0.98190367	0.18938108	5.184803521	0.192871339	5.280358658	1.018429847
79° 05′ 10″	0.98191285	0.18933347	5.186155628	0.192821055	5.281686302	1.018420325
79° 05′ 20″	0.98192202	0.18928587	5.187508414	0.192770772	5.283014627	1.018410806
79° 05′ 30″	0.98193120	0.18923826	5.188861881	0.192720489	5.284343632	1.018401290
79° 05′ 40″	0.98194037	0.18919066	5.190216030	0.192670208	5.285673319	1.018391776
79° 05′ 50″	0.98194954	0.18914305	5.191570860	0.192619927	5.287003687	1.018382264
79° 06′ 00″	0.98195871	0.18909544	5.192926372	0.192569647	5.288334738	1.018372755
79° 06′ 10″	0.98196788	0.18904784	5.194282567	0.192519369	5.289666472	1.018363249
79° 06′ 20″	0.98197704	0.18900023	5.195639445	0.192469091	5.290998889	1.018353745
79° 06′ 30″	0.98198621	0.18895262	5.196997007	0.192418814	5.292331989	1.018344244
79° 06′ 40″	0.98199536	0.18890501	5.198355253	0.192368538	5.293665775	1.018334746
79° 06′ 50″	0.98200452	0.18885740	5.199714184	0.192318263	5.295000245	1.018325250
79° 07′ 00″	0.98201368	0.18880979	5.201073800	0.192267989	5.296335400	1.018315756
79° 07′ 10″	0.98202283	0.18876219	5.202434102	0.192217716	5.297671242	1.018306265
79° 07′ 20″	0.98203198	0.18871458	5.203795090	0.192167444	5.299007769	1.018296777
79° 07′ 30″	0.98204113	0.18866696	5.205156766	0.192117172	5.300344984	1.018287291
79° 07′ 40″	0.98205027	0.18861935	5.206519128	0.192066902	5.301682887	1.018277808
79° 07′ 50″	0.98205942	0.18857174	5.207882179	0.192016633	5.303021477	1.018268328
79° 08′ 00″	0.98206856	0.18852413	5.209245918	0.191966364	5.304360756	1.018258850
79° 08′ 10″	0.98207770	0.18847652	5.210610346	0.191916097	5.305700725	1.018249374
79° 08′ 20″	0.98208683	0.18842891	5.211975464	0.191865830	5.307041383	1.018239901
79° 08′ 30″	0.98209597	0.18838129	5.213341272	0.191815565	5.308382731	1.018230431
79° 08′ 40″	0.98210510	0.18833368	5.214707770	0.191765300	5.309724769	1.018220963
79° 08′ 50″	0.98211423	0.18828606	5.216074959	0.191715036	5.311067499	1.018211498
79° 09′ 00″	0.98212336	0.18823845	5.217442840	0.191664773	5.312410921	1.018202036
79° 09′ 10″	0.98213248	0.18819084	5.218811414	0.191614512	5.313755035	1.018192576
79° 09′ 20″	0.98214160	0.18814322	5.220180680	0.191564251	5.315099842	1.018183118
79° 09′ 30″	0.98215072	0.18809560	5.221550639	0.191513991	5.316445342	1.018173663
79° 09′ 40″	0.98215984	0.18804799	5.222921292	0.191463732	5.317791536	1.018164211
79° 09′ 50″	0.98216896	0.18800037	5.224292639	0.191413473	5.319138425	1.018154761
79° 10′ 00″	0.98217807	0.18795275	5.225664682	0.191363216	5.320486008	1.018145314
79° 10′ 10″	0.98218718	0.18790514	5.227037419	0.191312960	5.321834287	1.018135869
79° 10′ 20″	0.98219629	0.18785752	5.228410853	0.191262705	5.323183262	1.018126427
79° 10′ 30″	0.98220540	0.18780990	5.229784983	0.191212450	5.324532934	1.018116988
79° 10′ 40″	0.98221450	0.18776228	5.231159809	0.191162197	5.325883303	1.018107551
79° 10′ 50″	0.98222360	0.18771466	5.232535334	0.191111944	5.327234369	1.018098117
79° 11′ 00″	0.98223270	0.18766704	5.233911556	0.191061692	5.328586133	1.018088685
79° 11′ 10″	0.98224180	0.18761942	5.235288478	0.191011442	5.329938597	1.018079256
79° 11′ 20″	0.98225089	0.18757180	5.236666098	0.190961192	5.331291759	1.018069829
79° 11′ 30″	0.98225999	0.18752418	5.238044418	0.190910943	5.332645621	1.018060405
79° 11′ 40″	0.98226908	0.18747656	5.239423438	0.190860695	5.334000184	1.018050983
79° 11′ 50″	0.98227817	0.18742894	5.240803159	0.190810448	5.335355447	1.018041565

594 **79° 11′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
79° 12′ 00″	0.98228725	0.18738131	5.242183581	0.190760202	5.336711412	1.018032148
79° 12′ 10″	0.98229633	0.18733369	5.243564705	0.190709957	5.338068079	1.018022734
79° 12′ 20″	0.98230542	0.18728607	5.244946532	0.190659713	5.339425448	1.018013323
79° 12′ 30″	0.98231449	0.18723844	5.246329061	0.190609470	5.340783521	1.018003914
79° 12′ 40″	0.98232357	0.18719082	5.247712294	0.190559227	5.342142297	1.017994508
79° 12′ 50″	0.98233264	0.18714320	5.249096231	0.190508986	5.343501777	1.017985105
79° 13′ 00″	0.98234172	0.18709557	5.250480872	0.190458745	5.344861962	1.017975704
79° 13′ 10″	0.98235079	0.18704795	5.251866219	0.190408506	5.346222852	1.017966305
79° 13′ 20″	0.98235985	0.18700032	5.253252271	0.190358267	5.347584447	1.017956910
79° 13′ 30″	0.98236892	0.18695269	5.254639029	0.190308030	5.348946749	1.017947516
79° 13′ 40″	0.98237798	0.18690507	5.256026494	0.190257793	5.350309758	1.017938126
79° 13′ 50″	0.98238704	0.18685744	5.257414667	0.190207557	5.351673474	1.017928738
79° 14′ 00″	0.98239610	0.18680981	5.258803547	0.190157322	5.353037899	1.017919352
79° 14′ 10″	0.98240515	0.18676218	5.260193135	0.190107088	5.354403031	1.017909969
79° 14′ 20″	0.98241421	0.18671455	5.261583433	0.190056855	5.355768873	1.017900589
79° 14′ 30″	0.98242326	0.18666693	5.262974440	0.190006623	5.357135424	1.017891211
79° 14′ 40″	0.98243231	0.18661930	5.264366157	0.189956392	5.358502686	1.017881835
79° 14′ 50″	0.98244135	0.18657167	5.265758585	0.189906161	5.359870658	1.017872463
79° 15′ 00″	0.98245040	0.18652404	5.267151723	0.189855932	5.361239342	1.017863092
79° 15′ 10″	0.98245944	0.18647641	5.268545574	0.189805704	5.362608737	1.017853725
79° 15′ 20″	0.98246848	0.18642877	5.269940137	0.189755476	5.363978844	1.017844360
79° 15′ 30″	0.98247752	0.18638114	5.271335412	0.189705250	5.365349665	1.017834997
79° 15′ 40″	0.98248655	0.18633351	5.272731401	0.189655024	5.366721199	1.017825637
79° 15′ 50″	0.98249558	0.18628588	5.274128103	0.189604799	5.368093447	1.017816280
79° 16′ 00″	0.98250461	0.18623824	5.275525521	0.189554575	5.369466409	1.017806925
79° 16′ 10″	0.98251364	0.18619061	5.276923653	0.189504352	5.370840087	1.017797573
79° 16′ 20″	0.98252267	0.18614298	5.278322500	0.189454131	5.372214480	1.017788223
79° 16′ 30″	0.98253169	0.18609534	5.279722064	0.189403909	5.373589589	1.017778876
79° 16′ 40″	0.98254071	0.18604771	5.281122345	0.189353689	5.374965416	1.017769532
79° 16′ 50″ 79° 17′ 00″	0.98254973	0.18600007	5.282523342	0.189303470	5.376341959	1.017760190
79° 17′ 00″ 79° 17′ 10″	0.98255875	0.18595244	5.283925058	0.189253252 0.189203035	5.377719221	1.017750850
79° 17′ 10″ 79° 17′ 20″	0.98257677	0.18590480 0.18585717	5.285327492 5.286730644	0.189203033	5.379097201 5.380475900	1.017741513 1.017732179
79° 17′ 30″	0.98258578	0.18580953	5.288134517	0.189102603	5.381855318	1.017732177
79° 17′ 40″	0.78258378	0.18576189	5.289539109	0.187102803	5.383235457	1.017722647
79° 17′ 50″	0.98260379	0.18571425	5.290944422	0.189002174	5.384616316	1.017713318
79° 18′ 00″	0.98261280	0.18566662	5.292350456	0.188951962	5.385997897	1.017694868
79° 18′ 10″	0.98262180	0.18561898	5.293757211	0.188901750	5.387380199	1.017685546
79° 18′ 20″	0.98263079	0.18557134	5.295164689	0.188851539	5.388763224	1.017676227
79° 18′ 30″	0.98263979	0.18552370	5.296572890	0.188801329	5.390146972	1.017666911
79° 18′ 40″	0.98264878	0.18547606	5.297981814	0.188751120	5.391531443	1.017657597
79° 18′ 50″	0.98265777	0.18542842	5.299391462	0.188700912	5.392916639	1.017648286
79° 19′ 00″	0.98266676	0.18538078	5.300801835	0.188650704	5.394302559	1.017638977
79° 19′ 10″	0.98267575	0.18533314	5.302212933	0.188600498	5.395689204	1.017629671
79° 19′ 20″	0.98268473	0.18528549	5.303624756	0.188550293	5.397076575	1.017620368
79° 19′ 30″	0.98269372	0.18523785	5.305037306	0.188500088	5.398464672	1.017611067
79° 19′ 40″	0.98270269	0.18519021	5.306450582	0.188449885	5.399853496	1.017601768
79° 19′ 50″	0.98271167	0.18514257	5.307864586	0.188399682	5.401243048	1.017592473
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595 79° 19′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
79° 20′ 00″	0.98272065	0.18509492	5.309279318	0.188349480	5.402633328	1.017583179
79° 20′ 10″	0.98272962	0.18504728	5.310694778	0.188299279	5.404024336	1.017573889
79° 20′ 20″	0.98273859	0.18499963	5.312110967	0.188249080	5.405416073	1.017564600
79° 20′ 30″	0.98274756	0.18495199	5.313527886	0.188198881	5.406808541	1.017555315
79° 20′ 40″	0.98275652	0.18490434	5.314945535	0.188148683	5.408201738	1.017546032
79° 20′ 50″	0.98276549	0.18485670	5.316363915	0.188098485	5.409595666	1.017536751
79° 21′ 00″	0.98277445	0.18480905	5.317783026	0.188048289	5.410990326	1.017527473
79° 21′ 10″	0.98278341	0.18476141	5.319202869	0.187998094	5.412385718	1.017518198
79° 21′ 20″	0.98279236	0.18471376	5.320623445	0.187947899	5.413781843	1.017508925
79° 21′ 30″	0.98280132	0.18466611	5.322044753	0.187897706	5.415178700	1.017499655
79° 21′ 40″	0.98281027	0.18461846	5.323466796	0.187847513	5.416576292	1.017490387
79° 21′ 50″	0.98281922	0.18457082	5.324889572	0.187797322	5.417974618	1.017481122
79° 22′ 00″	0.98282816	0.18452317	5.326313084	0.187747131	5.419373678	1.017471860
79° 22′ 10″	0.98283711	0.18447552	5.327737330	0.187696941	5.420773474	1.017462600
79° 22′ 20″	0.98284605	0.18442787	5.329162313	0.187646752	5.422174007	1.017453342
79° 22′ 30″	0.98285499	0.18438022	5.330588032	0.187596564	5.423575275	1.017444087
79° 22′ 40″	0.98286393	0.18433257	5.332014488	0.187546377	5.424977282	1.017434835
79° 22′ 50″	0.98287287	0.18428492	5.333441682	0.187496191	5.426380025	1.017425585
79° 23′ 00″	0.98288180	0.18423727	5.334869615	0.187446006	5.427783508	1.017416338
79° 23′ 10″	0.98289073	0.18418962	5.336298286	0.187395821	5.429187729	1.017407093
79° 23′ 20″	0.98289966	0.18414196	5.337727696	0.187345638	5.430592689	1.017397851
79° 23′ 30″	0.98290858	0.18409431	5.339157847	0.187295455	5.431998390	1.017388612
79° 23′ 40″	0.98291751	0.18404666	5.340588738	0.187245274	5.433404832	1.017379375
79° 23′ 50″	0.98292643	0.18399900	5.342020370	0.187195093	5.434812014	1.017370141
79° 24′ 00″	0.98293535	0.18395135	5.343452744	0.187144913	5.436219939	1.017360909
79° 24′ 10″	0.98294427	0.18390370	5.344885860	0.187094734	5.437628606	1.017351679
79° 24′ 20″	0.98295318	0.18385604	5.346319719	0.187044556	5.439038016	1.017342453
79° 24′ 30″	0.98296209	0.18380839	5.347754322	0.186994379	5.440448170	1.017333229
79° 24′ 40″	0.98297100	0.18376073	5.349189669	0.186944203	5.441859068	1.017324007
79° 24′ 50″	0.98297991	0.18371307	5.350625760	0.186894028	5.443270710	1.017314788
79° 25′ 00″	0.98298882	0.18366542	5.352062597	0.186843854	5.444683098	1.017305571
79° 25′ 10″	0.98299772	0.18361776	5.353500179	0.186793680	5.446096232	1.017296357
79° 25′ 20″	0.98300662	0.18357010	5.354938508	0.186743508	5.447510113	1.017287146
79° 25′ 30″	0.98301552	0.18352245	5.356377584	0.186693336	5.448924740	1.017277937
79° 25′ 40″	0.98302442	0.18347479	5.357817408	0.186643165	5.450340116	1.017268731
79° 25′ 50″	0.98303331	0.18342713	5.359257980	0.186592995	5.451756239	1.017259527
79° 26′ 00″	0.98304220	0.18337947	5.360699300	0.186542827	5.453173112	1.017250326
79° 26′ 10″	0.98305109	0.18333181	5.362141370	0.186492659	5.454590734	1.017241128
79° 26′ 20″	0.98305998	0.18328415	5.363584190	0.186442492	5.456009106	1.017231932
79° 26′ 30″	0.98306886	0.18323649	5.365027760	0.186392325	5.457428229	1.017222738
79° 26′ 40″	0.98307774	0.18318883	5.366472082	0.186342160	5.458848103	1.017213547
79° 26′ 50″	0.98308662	0.18314117	5.367917155	0.186291996	5.460268728	1.017204359
79° 27′ 00″	0.98309550	0.18309351	5.369362981	0.186241832	5.461690107	1.017195173
79° 27′ 10″	0.98310438	0.18304585	5.370809560	0.186191670	5.463112238	1.017185990
79° 27′ 20″	0.98311325	0.18299818	5.372256892	0.186141508	5.464535123	1.017176809
79° 27′ 30″	0.98312212	0.18295052	5.373704978	0.186091347	5.465958762	1.017167631
79° 27′ 40″	0.98313099	0.18290286	5.375153819	0.186041188	5.467383156	1.017158455
79° 27′ 50″	0.98313986	0.18285519	5.376603415	0.185991029	5.468808306	1.017149282
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596 79° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
79° 28′ 00″	0.98314872	0.18280753	5.378053768	0.185940871	5.470234211	1.017140112
79° 28′ 10″	0.98315758	0.18275986	5.379504876	0.185890714	5.471660874	1.017130944
79° 28′ 20″	0.98316644	0.18271220	5.380956742	0.185840557	5.473088293	1.017121779
79° 28′ 30″	0.98317530	0.18266453	5.382409366	0.185790402	5.474516470	1.017112616
79° 28′ 40″	0.98318415	0.18261687	5.383862748	0.185740248	5.475945406	1.017103456
79° 28′ 50″	0.98319301	0.18256920	5.385316889	0.185690094	5.477375100	1.017094298
79° 29′ 00″	0.98320186	0.18252154	5.386771789	0.185639942	5.478805555	1.017085143
79° 29′ 10″	0.98321070	0.18247387	5.388227449	0.185589790	5.480236769	1.017075990
79° 29′ 20″	0.98321955	0.18242620	5.389683870	0.185539639	5.481668744	1.017066840
79° 29′ 30″	0.98322839	0.18237853	5.391141053	0.185489489	5.483101481	1.017057693
79° 29′ 40″	0.98323723	0.18233086	5.392598997	0.185439340	5.484534980	1.017048548
79° 29′ 50″	0.98324607	0.18228319	5.394057704	0.185389192	5.485969241	1.017039406
79° 30′ 00″	0.98325491	0.18223553	5.395517174	0.185339045	5.487404266	1.017030266
79° 30′ 10″	0.98326374	0.18218786	5.396977408	0.185288899	5.488840054	1.017021129
79° 30′ 20″	0.98327257	0.18214019	5.398438406	0.185238753	5.490276607	1.017011994
79° 30′ 30″	0.98328140	0.18209251	5.399900169	0.185188609	5.491713925	1.017002862
79° 30′ 40″	0.98329023	0.18204484	5.401362698	0.185138465	5.493152009	1.016993732
79° 30′ 50″	0.98329905	0.18199717	5.402825993	0.185088323	5.494590859	1.016984605
79° 31′ 00″	0.98330788	0.18194950	5.404290055	0.185038181	5.496030476	1.016975481
79° 31′ 10″	0.98331670	0.18190183	5.405754884	0.184988040	5.497470860	1.016966359
79° 31′ 20″	0.98332551	0.18185416	5.407220481	0.184937900	5.498912013	1.016957239
79° 31′ 30″	0.98333433	0.18180648	5.408686846	0.184887761	5.500353934	1.016948123
79° 31′ 40″	0.98334314	0.18175881	5.410153981	0.184837623	5.501796625	1.016939008
79° 31′ 50″	0.98335195	0.18171113	5.411621886	0.184787485	5.503240085	1.016929897
79° 32′ 00″	0.98336076	0.18166346	5.413090561	0.184737349	5.504684316	1.016920788
79° 32′ 10″	0.98336957	0.18161579	5.414560007	0.184687213	5.506129318	1.016911681
79° 32′ 20″	0.98337837	0.18156811	5.416030225	0.184637079	5.507575092	1.016902577
79° 32′ 30″	0.98338717	0.18152043	5.417501215	0.184586945	5.509021639	1.016893475
79° 32′ 40″	0.98339597	0.18147276	5.418972978	0.184536812	5.510468958	1.016884376
79° 32′ 50″	0.98340477	0.18142508	5.420445515	0.184486681	5.511917051	1.016875280
79° 33′ 00″	0.98341356	0.18137740	5.421918826	0.184436550	5.513365919	1.016866186
79° 33′ 10″	0.98342236	0.18132973	5.423392911	0.184386419	5.514815561	1.016857095
79° 33′ 20″ 79° 33′ 30″	0.98343115	0.18128205	5.424867772	0.184336290	5.516265978	1.016848006
79° 33′ 30″ 79° 33′ 40″	0.98343993	0.18123437	5.426343409	0.184286162	5.517717172	1.016838920
	0.98344872	0.18118669	5.427819822	0.184236034	5.519169143	1.016829837
79° 33′ 50″ 79° 34′ 00″	0.98345750	0.18113901	5.429297013 E 420774092	0.184185908	5.520621890 F F 2207F 416	1.016820755
79° 34′ 00″ 79° 34′ 10″	0.98346628	0.18109133	5.430774982	0.184135782 0.184085658	5.522075416 5.523529721	1.016811677
79° 34′ 10″ 79° 34′ 20″	0.98347506 0.98348384	0.18104365	5.432253729 5.433733255			1.016802601
79° 34′ 20″ 79° 34′ 30″	0.98349261	0.18099597 0.18094829		0.184035534 0.183985411	5.524984804	1.016793528
79° 34′ 40″	0.98350138	0.18094829	5.435213561 5.436694647	0.183935289	5.526440668 5.527897311	1.016784457 1.016775388
79° 34′ 50″	0.98351015	0.18070081	5.438176514	0.183885168	5.529354736	1.016773388
77° 35′ 00″	0.98351892	0.18080525	5.439659163	0.183835047	5.530812943	1.016757259
79° 35′ 10″	0.98352768	0.18075756	5.441142594	0.183784928	5.532271932	1.016737239
79° 35′ 20″	0.98353645	0.18073738	5.442626808	0.183734810	5.533731704	1.016748177
79° 35′ 30″	0.78353545	0.18070788	5.444111805	0.183684692	5.535192259	1.016737141
79° 35′ 40″	0.98355396	0.18061451	5.445597587	0.183634575	5.536653599	1.016730083
79° 35′ 50″	0.98356272	0.18056683	5.447084153	0.183584459	5.538115724	1.016711982
	0.70330272	2.10030003	5.11700-133	5.10330 11 37	3,330113724	1.010/11/02

597 **79° 35′ 50″**

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
79° 36′ 00″	0.98357147	0.18051915	5.448571504	0.183534345	5.539578634	1.016702934
79° 36′ 10″	0.98358022	0.18047146	5.450059642	0.183484231	5.541042330	1.016693888
79° 36′ 20″	0.98358897	0.18042377	5.451548566	0.183434117	5.542506813	1.016684846
79° 36′ 30″	0.98359772	0.18037609	5.453038277	0.183384005	5.543972083	1.016675805
79° 36′ 40″	0.98360646	0.18032840	5.454528777	0.183333894	5.545438141	1.016666768
79° 36′ 50″	0.98361520	0.18028072	5.456020064	0.183283783	5.546904988	1.016657733
79° 37′ 00″	0.98362394	0.18023303	5.457512141	0.183233674	5.548372624	1.016648700
79° 37′ 10″	0.98363268	0.18018534	5.459005008	0.183183565	5.549841050	1.016639670
79° 37′ 20″	0.98364141	0.18013765	5.460498665	0.183133457	5.551310266	1.016630642
79° 37′ 30″	0.98365014	0.18008996	5.461993113	0.183083351	5.552780274	1.016621618
79° 37′ 40″	0.98365887	0.18004228	5.463488353	0.183033245	5.554251073	1.016612595
79° 37′ 50″	0.98366760	0.17999459	5.464984385	0.182983139	5.555722665	1.016603575
79° 38′ 00″	0.98367633	0.17994690	5.466481211	0.182933035	5.557195050	1.016594558
79° 38′ 10″	0.98368505	0.17989921	5.467978829	0.182882932	5.558668229	1.016585543
79° 38′ 20″	0.98369377	0.17985152	5.469477242	0.182832829	5.560142202	1.016576531
79° 38′ 30″	0.98370249	0.17980382	5.470976450	0.182782728	5.561616970	1.016567521
79° 38′ 40″	0.98371120	0.17975613	5.472476453	0.182732627	5.563092533	1.016558514
79° 38′ 50″	0.98371992	0.17970844	5.473977253	0.182682527	5.564568893	1.016549510
79° 39′ 00″	0.98372863	0.17966075	5.475478849	0.182632429	5.566046050	1.016540508
79° 39′ 10″	0.98373734	0.17961306	5.476981243	0.182582331	5.567524004	1.016531508
79° 39′ 20″	0.98374604	0.17956536	5.478484435	0.182532233	5.569002756	1.016522511
79° 39′ 30″	0.98375475	0.17951767	5.479988425	0.182482137	5.570482308	1.016513517
79° 39′ 40″	0.98376345	0.17946998	5.481493215	0.182432042	5.571962658	1.016504525
79° 39′ 50″	0.98377215	0.17942228	5.482998805	0.182381947	5.573443809	1.016495536
79° 40′ 00″	0.98378085	0.17937459	5.484505196	0.182331854	5.574925761	1.016486549
79° 40′ 10″	0.98378954	0.17932689	5.486012387	0.182281761	5.576408514	1.016477565
79° 40′ 20″	0.98379824	0.17927920	5.487520381	0.182231669	5.577892069	1.016468584
79° 40′ 30″	0.98380693	0.17923150	5.489029178	0.182181578	5.579376427	1.016459604
79° 40′ 40″	0.98381562	0.17918380	5.490538777	0.182131488	5.580861588	1.016450628
79° 40′ 50″	0.98382430	0.17913611	5.492049181	0.182081399	5.582347553	1.016441654
79° 41′ 00″	0.98383298	0.17908841	5.493560389	0.182031311	5.583834323	1.016432683
79° 41′ 10″	0.98384167	0.17904071	5.495072402	0.181981224	5.585321898	1.016423714
79° 41′ 20″	0.98385035	0.17899301	5.496585221	0.181931137	5.586810279	1.016414747
79° 41′ 30″	0.98385902	0.17894531	5.498098847	0.181881052	5.588299467	1.016405784
79° 41′ 40″	0.98386770	0.17889761	5.499613279	0.181830967	5.589789461	1.016396822
79° 41′ 50″	0.98387637	0.17884991	5.501128520	0.181780883	5.591280264	1.016387864
79° 42′ 00″	0.98388504	0.17880222	5.502644569	0.181730800	5.592771876	1.016378908
79° 42′ 10″	0.98389371	0.17875451	5.504161427	0.181680718	5.594264296	1.016369954
79° 42′ 20″	0.98390237	0.17870681	5.505679095	0.181630637	5.595757527	1.016361003
79° 42′ 30″	0.98391103	0.17865911	5.507197573	0.181580556	5.597251568	1.016352054
79° 42′ 40″	0.98391969	0.17861141	5.508716863	0.181530477	5.598746420	1.016343108
79° 42′ 50″	0.98392835	0.17856371	5.510236964	0.181480399	5.600242084	1.016334165
79° 43′ 00″	0.98393701	0.17851601	5.511757877	0.181430321	5.601738560	1.016325224
79° 43′ 10″	0.98394566	0.17846830	5.513279604	0.181380244	5.603235850	1.016316286
79° 43′ 20″	0.98395431	0.17842060	5.514802144	0.181330168	5.604733953	1.016307350
79° 43′ 30″	0.98396296	0.17837290	5.516325498	0.181280093	5.606232871	1.016298417
79° 43′ 40″	0.98397161	0.17832519	5.517849668	0.181230019	5.607732604	1.016289486
79° 43′ 50″	0.98398025	0.17827749	5.519374653	0.181179946	5.609233153	1.016280558
	1 21. 35. 3023	5 <u>62.7 17</u>	5.0.707 1000	221177710	3.007200100	

598 **79° 43′ 50″**

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
79° 44′ 00″	0.98398889	0.17822978		0.181129873		1.016271632
79° 44′ 00″ 79° 44′ 10″	0.98399753	0.17822978	5.520900455 5.522427074	0.181129873	5.610734518 5.612236701	1.016271632
79° 44′ 10″	0.78377733	0.17813437	5.523954510	0.181029731	5.613739701	1.016253789
79° 44′ 30″	0.98401481			0.181029731	5.615243519	
79° 44′ 30″ 79° 44′ 40″		0.17808667	5.525482765			1.016244871
79° 44′ 40″ 79° 44′ 50″	0.98402344	0.17803896	5.527011838	0.180929593	5.616748157	1.016235956
79° 44′ 50″ 79° 45′ 00″	0.98403207	0.17799125	5.528541732 5.530072445	0.180879525 0.180829457	5.618253615 5.619759893	1.016227043
79° 45′ 10″	0.98404070	0.17794355				1.016218132
79° 45′ 10″ 79° 45′ 20″	0.98404932	0.17789584	5.531603980	0.180779391	5.621266992	1.016209225
79° 45′ 20″ 79° 45′ 30″	0.98405795	0.17784813	5.533136336	0.180729326	5.622774913	1.016200319
	0.98406657	0.17780042	5.534669515	0.180679261	5.624283656	1.016191417
79° 45′ 40″	0.98407519	0.17775271	5.536203517	0.180629198	5.625793222	1.016182517
79° 45′ 50″	0.98408380	0.17770500	5.537738342	0.180579135	5.627303612	1.016173619
79° 46′ 00″	0.98409242	0.17765729	5.539273992	0.180529073	5.628814827	1.016164724
79° 46′ 10″	0.98410103	0.17760958	5.540810467	0.180479012	5.630326867	1.016155831
79° 46′ 20″	0.98410964	0.17756187	5.542347767	0.180428952	5.631839733	1.016146942
79° 46′ 30″	0.98411825	0.17751416	5.543885894	0.180378893	5.633353425	1.016138054
79° 46′ 40″	0.98412685	0.17746645	5.545424848	0.180328835	5.634867944	1.016129169
79° 46′ 50″	0.98413545	0.17741874	5.546964630	0.180278777	5.636383291	1.016120287
79° 47′ 00″	0.98414405	0.17737102	5.548505240	0.180228720	5.637899466	1.016111407
79° 47′ 10″	0.98415265	0.17732331	5.550046679	0.180178665	5.639416471	1.016102530
79° 47′ 20″	0.98416125	0.17727560	5.551588947	0.180128610	5.640934306	1.016093655
79° 47′ 30″	0.98416984	0.17722788	5.553132047	0.180078556	5.642452971	1.016084783
79° 47′ 40″	0.98417843	0.17718017	5.554675977	0.180028503	5.643972467	1.016075913
79° 47′ 50″	0.98418702	0.17713246	5.556220739	0.179978451	5.645492795	1.016067046
79° 48′ 00″	0.98419561	0.17708474	5.557766334	0.179928399	5.647013956	1.016058182
79° 48′ 10″	0.98420419	0.17703702	5.559312761	0.179878349	5.648535950	1.016049320
79° 48′ 20″ 79° 48′ 30″	0.98421277	0.17698931	5.560860023	0.179828299	5.650058778	1.016040460
79° 48′ 30″ 79° 48′ 40″	0.98422135	0.17694159	5.562408119	0.179778250	5.651582441	1.016031604
79° 48′ 40″ 79° 48′ 50″	0.98422993	0.17689388	5.563957050	0.179728203	5.653106938	1.016022749
79° 48′ 50″ 79° 49′ 00″	0.98423851	0.17684616	5.565506817	0.179678156	5.654632272 5.656158443	1.016013897
79° 49′ 00″ 79° 49′ 10″	0.98424708	0.17679844 0.17675072	5.567057421	0.179628109	5.657685450	1.016005048 1.015996201
79° 49′ 10″ 79° 49′ 20″	0.98425565	0.17673072	5.568608862	0.179578064 0.179528020	5.657683430	1.015987357
79° 49′ 30″	0.98427278	0.17670301	5.570161141 5.571714258	0.179328020	5.660741981	1.015978516
79° 49′ 40″	0.78427278	0.17663327	5.573268215	0.179477976	5.662271505	1.015969676
79° 49′ 50″	0.78428133	0.17655985	5.574823012	0.179377892	5.663801869	1.015960840
79° 50′ 00″	0.98429847	0.17653783	5.576378649	0.179327851	5.665333074	1.015952006
79° 50′ 10″						
79° 50′ 20″	0.98430702 0.98431558	0.17646441 0.17641669	5.577935128 5.579492448	0.179277811 0.179227772	5.666865120	1.015943174 1.015934345
79° 50′ 30″					5.668398008	1.015934343
79° 50′ 30″ 79° 50′ 40″	0.98432413	0.17636897 0.17632124	5.581050612 5.582609619	0.179177734 0.179127696	5.669931740 5.671466315	1.015925519
79° 50′ 40″ 79° 50′ 50″		0.17632124		0.179127696		1.015916695
79° 50′ 50″ 79° 51′ 00″	0.98434122		5.584169470		5.673001734 5.674537908	
79° 51′ 00″ 79° 51′ 10″	0.98434977 0.98435831	0.17622580	5.585730166 5.587291707	0.179027624	5.674537998	1.015899055
		0.17617808		0.178977589	5.676075107 5.677612062	1.015890239
79° 51′ 20″ 79° 51′ 30″	0.98436685	0.17613035	5.588854095	0.178927555	5.677613063	1.015881425
79° 51′ 30″ 79° 51′ 40″	0.98437539	0.17608263	5.590417329	0.178877522	5.679151866	1.015872614
79° 51′ 40″ 79° 51′ 50″	0.98438392	0.17603491 0.17598718	5.591981412 5.593546342	0.178827490 0.178777459	5.680691517 5.682232016	1.015863805 1.015854999
	0.70437246	0.1/378/18	3.373346342	0.1/0///439	J.00ZZ3ZU16	1.013034777

599 79° 51′ 50″

79° 52′ 10″ 0,98440952 0,17589173 5,596678751 0,178677399 5,688315562 1,015837387 79° 52′ 30″ 0,98442657 0,17579628 5,599814561 0,178577342 5,688402510 1,015818980 79° 52′ 30″ 0,98443509 0,17579628 5,599814561 0,178577342 5,689947261 1,01581800 79° 53′ 00″ 0,98445213 0,17565310 5,604524666 0,178477289 5,691492865 1,015802216 79° 53′ 00″ 0,98446014 0,17550531 5,604524666 0,17837239 5,694586634 1,015784932 79° 53′ 30″ 0,9844766 0,17550591 5,6069242457 0,17827717 5,696134800 1,01577853 79° 53′ 40″ 0,9844968 0,17546219 5,610816764 0,17827717 5,66958822 1,015778932 79° 54′ 10″ 0,9845018 0,17535673 5,613867951 0,17812713 5,66958320 1,01574952 79° 54′ 10″ 0,9845018 0,17531900 5,61564831 0,17802713 5,7069468847 1,01574952 79° 55′ 10″ 0,98455868	<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
79° 52′ 20″ 0.98441804 0.17584401 5.598246230 0.178627370 5.686858610 1.01582859 79° 52′ 40″ 0.98442657 0.17574855 5.69014851 5.68987251 5.68987261 1.01581800 79° 52′ 50″ 0.98444361 0.17574855 5.601383743 5.691492865 1.01581800 79° 53′ 00″ 0.98444361 0.1756033 5.604524666 0.178477289 5.691492865 1.01581800 79° 53′ 00″ 0.98446064 0.1756037 5.606096408 0.178377215 5.69348634 1.0157757855 79° 53′ 20″ 0.98446915 0.17555764 5.607669005 0.178327216 5.696134800 1.015776073 79° 53′ 30″ 0.98449686 0.17550991 5.601816764 0.178227171 5.697633303 1.015767073 79° 53′ 30″ 0.9844968 0.1754619 5.610816764 0.178227171 5.697683822 1.015767073 79° 54′ 00″ 0.98453118 0.1753179 5.61186764 0.17821710 5.7023300 1.015767073 79° 54′ 30″ 0.98452018 0.1753179 5.61	79° 52′ 00″	0.98440099	0.17593946	5.595112121	0.178727428	5.683773364	1.015846196
79° 52′ 20″ 0.98441804 0.17584401 5.598246230 0.178627370 5.686858610 1.015828598 79° 52′ 30″ 0.98443509 0.17574855 5.6901383743 0.178527315 5.68947261 1.015811000 79° 52′ 50″ 0.98444361 0.1756083 5.602953778 0.178477289 5.691492865 1.01581100 79° 53′ 00″ 0.98446915 0.17550037 5.606096408 0.178377239 5.694586634 1.01579424 79° 53′ 20″ 0.98446915 0.17550971 5.607669005 0.178327216 5.696134800 1.015775855 79° 53′ 30″ 0.98449681 0.17550991 5.601816764 0.178277171 5.69923370 1.01576707 79° 53′ 50″ 0.98449468 0.1754619 5.610816764 0.178227171 5.697683822 1.01576707 79° 54′ 00″ 0.98453118 0.17536673 5.610816764 0.178227171 5.607843430 1.01576707 79° 53′ 30″ 0.98453118 0.17536793 5.610816764 0.178227171 5.607863822 1.01576707 79° 54′ 10″ 0.98452018	79° 52′ 10″	0.98440952	0.17589173	5.596678751	0.178677399	5.685315562	1.015837395
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79° 57′ 50″ 0.98469811 0.17426883 5.650454746 0.176976906 5.738260959 1.015539672 79° 58′ 00″ 0.98470656 0.17422109 5.652051560 0.176926907 5.739833346 1.015530960 79° 58′ 10″ 0.98471501 0.17417335 5.653649250 0.176876908 5.741406608 1.015522250 79° 58′ 20″ 0.98472345 0.17412561 5.655247816 0.176826911 5.742980747 1.015513543 79° 58′ 30″ 0.98473189 0.17407786 5.656847259 0.176776914 5.744555762 1.015504839 79° 58′ 50″ 0.98474877 0.17398238 5.660048777 0.176676918 5.746131655 1.01548743 79° 59′ 00″ 0.98475720 0.17393464 5.661650855 0.176626928 5.749286077 1.015478740 79° 59′ 10″ 0.98476563 0.17388690 5.663253812 0.176576935 5.750864608 1.015470046	79° 57′ 30″	0.98468121	0.17436430	5.647263740	0.177076908	5.735118809	1.015557104
79° 58′ 00″ 0.98470656 0.17422109 5.652051560 0.176926907 5.739833346 1.015530966 79° 58′ 10″ 0.98471501 0.17417335 5.653649250 0.176876908 5.741406608 1.015522256 79° 58′ 20″ 0.98472345 0.17412561 5.655247816 0.176826911 5.742980747 1.015513543 79° 58′ 30″ 0.98473189 0.17407786 5.656847259 0.176776914 5.744555762 1.015504839 79° 58′ 40″ 0.98474033 0.17403012 5.658447579 0.176726918 5.746131655 1.015496137 79° 58′ 50″ 0.98474877 0.17398238 5.660048777 0.176676923 5.747708427 1.015478740 79° 59′ 10″ 0.98476563 0.17388690 5.663253812 0.176576935 5.750864608 1.015470046	79° 57′ 40″	0.98468966	0.17431657	5.648858806	0.177026907	5.736689447	1.015548387
79° 58′ 00″ 0.98470656 0.17422109 5.652051560 0.176926907 5.739833346 1.015530966 79° 58′ 10″ 0.98471501 0.17417335 5.653649250 0.176876908 5.741406608 1.015522256 79° 58′ 20″ 0.98472345 0.17412561 5.655247816 0.176826911 5.742980747 1.015513543 79° 58′ 30″ 0.98473189 0.17407786 5.656847259 0.176776914 5.744555762 1.015504839 79° 58′ 40″ 0.98474033 0.17403012 5.658447579 0.176726918 5.746131655 1.015496137 79° 58′ 50″ 0.98474877 0.17398238 5.660048777 0.176676923 5.747708427 1.015478740 79° 59′ 10″ 0.98476563 0.17388690 5.663253812 0.176576935 5.750864608 1.015470046	79° 57′ 50″	0.98469811	0.17426883	5.650454746	0.176976906	5.738260959	1.015539672
79° 58′ 20″ 0.98472345 0.17412561 5.655247816 0.176826911 5.742980747 1.015513543 79° 58′ 30″ 0.98473189 0.17407786 5.656847259 0.176776914 5.744555762 1.015504839 79° 58′ 40″ 0.98474033 0.17403012 5.658447579 0.176726918 5.746131655 1.015496137 79° 58′ 50″ 0.98474877 0.17398238 5.660048777 0.176676923 5.747708427 1.015478740 79° 59′ 00″ 0.98475720 0.17393464 5.661650855 0.176676935 5.750864608 1.015470046 79° 59′ 10″ 0.98476563 0.17388690 5.663253812 0.176576935 5.750864608 1.015470046	79° 58′ 00″	0.98470656	0.17422109	5.652051560	0.176926907	5.739833346	1.015530960
79° 58′ 30″ 0.98473189 0.17407786 5.656847259 0.176776914 5.744555762 1.015504839 79° 58′ 40″ 0.98474033 0.17403012 5.658447579 0.176726918 5.746131655 1.015496137 79° 58′ 50″ 0.98474877 0.17398238 5.660048777 0.176676923 5.747708427 1.015487437 79° 59′ 00″ 0.98475720 0.17393464 5.661650855 0.176626928 5.749286077 1.015478740 79° 59′ 10″ 0.98476563 0.17388690 5.663253812 0.176576935 5.750864608 1.015470046	79° 58′ 10″	0.98471501	0.17417335	5.653649250	0.176876908	5.741406608	1.015522250
79° 58′ 40″ 0.98474033 0.17403012 5.658447579 0.176726918 5.746131655 1.015496137 79° 58′ 50″ 0.98474877 0.17398238 5.660048777 0.176676923 5.747708427 1.015487437 79° 59′ 00″ 0.98475720 0.17393464 5.661650855 0.176626928 5.749286077 1.015478740 79° 59′ 10″ 0.98476563 0.17388690 5.663253812 0.176576935 5.750864608 1.015470046	79° 58′ 20″	0.98472345	0.17412561	5.655247816	0.176826911	5.742980747	1.015513543
79° 58′ 50″ 0.98474877 0.17398238 5.660048777 0.176676923 5.747708427 1.015487437 79° 59′ 00″ 0.98475720 0.17393464 5.661650855 0.176626928 5.749286077 1.015478740 79° 59′ 10″ 0.98476563 0.17388690 5.663253812 0.176576935 5.750864608 1.015470046	79° 58′ 30″	0.98473189	0.17407786	5.656847259	0.176776914	5.744555762	1.015504839
79° 59′ 00″ 0.98475720 0.17393464 5.661650855 0.176626928 5.749286077 1.015478740 79° 59′ 10″ 0.98476563 0.17388690 5.663253812 0.176576935 5.750864608 1.015470046	79° 58′ 40″	0.98474033	0.17403012	5.658447579	0.176726918	5.746131655	1.015496137
79° 59′ 10″ 0.98476563	79° 58′ 50″	0.98474877	0.17398238		0.176676923	5.747708427	1.015487437
	79° 59′ 00″	0.98475720	0.17393464	5.661650855	0.176626928	5.749286077	1.015478740
79° 59′ 20″ 0.98477406 0.17383915 5.664857650 0.176526942 5.752444019 1.015461354	79° 59′ 10″	0.98476563	0.17388690	5.663253812	0.176576935	5.750864608	1.015470046
	79° 59′ 20″	0.98477406	0.17383915	5.664857650	0.176526942	5.752444019	1.015461354
	79° 59′ 30″			5.666462368			1.015452665
79° 59′ 40″ 0.98479091 0.17374367 5.668067969 0.176426960 5.755605485 1.015443978	79° 59′ 40″	0.98479091	0.17374367	5.668067969	0.176426960	5.755605485	1.015443978
79° 59′ 50″ 0.98479933 0.17369592 5.669674453 0.176376970 5.757187543 1.015435294	79° 59′ 50″	0.98479933	0.17369592	5.669674453	0.176376970	5.757187543	1.015435294

600 79° 59′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
80° 00′ 00″	0.98480775	0.17364818	5.671281820	0.176326981	5.758770483	1.015426612
80° 00′ 10″						
80° 00′ 10″ 80° 00′ 20″	0.98481617	0.17360043	5.672890071	0.176276992	5.760354308	1.015417933
	0.98482459	0.17355269	5.674499207	0.176227005	5.761939018	1.015409256
80° 00′ 30″	0.98483300	0.17350494	5.676109228	0.176177018	5.763524613	1.015400582
80° 00′ 40″	0.98484141	0.17345720	5.677720136	0.176127033	5.765111095	1.015391910
80° 00′ 50″	0.98484982	0.17340945	5.679331931	0.176077048	5.766698465	1.015383241
80° 01′ 00″	0.98485822	0.17336170	5.680944614	0.176027064	5.768286722	1.015374575
80° 01′ 10″	0.98486663	0.17331395	5.682558185	0.175977081	5.769875867	1.015365911
80° 01′ 20″	0.98487503	0.17326621	5.684172646	0.175927098	5.771465903	1.015357249
80° 01′ 30″	0.98488343	0.17321846	5.685787996	0.175877117	5.773056828	1.015348591
80° 01′ 40″	0.98489182	0.17317071	5.687404238	0.175827136	5.774648644	1.015339934
80° 01′ 50″	0.98490022	0.17312296	5.689021371	0.175777157	5.776241352	1.015331280
80° 02′ 00″	0.98490861	0.17307521	5.690639396	0.175727178	5.777834953	1.015322629
80° 02′ 10″	0.98491700	0.17302746	5.692258315	0.175677200	5.779429446	1.015313980
80° 02′ 20″	0.98492539	0.17297971	5.693878127	0.175627222	5.781024833	1.015305334
80° 02′ 30″	0.98493377	0.17293196	5.695498834	0.175577246	5.782621115	1.015296690
80° 02′ 40″	0.98494216	0.17288421	5.697120436	0.175527271	5.784218293	1.015288049
80° 02′ 50″	0.98495054	0.17283646	5.698742934	0.175477296	5.785816366	1.015279410
80° 03′ 00″	0.98495891	0.17278870	5.700366329	0.175427322	5.787415337	1.015270774
80° 03′ 10″	0.98496729	0.17274095	5.701990621	0.175377349	5.789015205	1.015262141
80° 03′ 20″	0.98497566	0.17269320	5.703615812	0.175327377	5.790615971	1.015253510
80° 03′ 30″	0.98498404	0.17264545	5.705241901	0.175277406	5.792217637	1.015244881
80° 03′ 40″	0.98499240	0.17259769	5.706868891	0.175227435	5.793820202	1.015236255
80° 03′ 50″	0.98500077	0.17254994	5.708496781	0.175177466	5.795423669	1.015227632
80° 04′ 00″	0.98500914	0.17250218	5.710125572	0.175127497	5.797028036	1.015219011
80° 04′ 10″	0.98501750	0.17245443	5.711755266	0.175077529	5.798633306	1.015210393
80° 04′ 20″	0.98502586	0.17240667	5.713385862	0.175027562	5.800239479	1.015201777
80° 04′ 30″	0.98503421	0.17235892	5.715017362	0.174977596	5.801846555	1.015193163
80° 04′ 40″	0.98504257	0.17231116	5.716649766	0.174927631	5.803454536	1.015184553
80° 04′ 50″	0.98505092	0.17226341	5.718283075	0.174877666	5.805063422	1.015175944
80° 05′ 00″	0.98505927	0.17221565	5.719917290	0.174827703	5.806673214	1.015167339
80° 05′ 10″	0.98506762	0.17216789	5.721552412	0.174777740	5.808283912	1.015158736
80° 05′ 20″	0.98507597	0.17212013	5.723188441	0.174727778	5.809895518	1.015150135
80° 05′ 30″	0.98508431	0.17207238	5.724825378	0.174677817	5.811508033	1.015141537
80° 05′ 40″	0.98509265	0.17202462	5.726463225	0.174627857	5.813121456	1.015132941
80° 05′ 50″	0.98510099	0.17197686	5.728101980	0.174577897	5.814735789	1.015124348
80° 06′ 00″	0.98510933	0.17192910	5.729741647	0.174527939	5.816351033	1.015115758
80° 06′ 10″	0.98511766	0.17188134	5.731382224	0.174477981	5.817967188	1.015107170
80° 06′ 20″	0.98512599	0.17183358	5.733023714	0.174428024	5.819584255	1.015098584
80° 06′ 30″	0.98513432	0.17178582	5.734666116	0.174378068	5.821202235	1.015090001
80° 06′ 40″	0.98514265	0.17173806	5.736309432	0.174328113	5.822821128	1.015081421
80° 06′ 50″	0.98515097	0.17169030	5.737953661	0.174278159	5.824440936	1.015072843
80° 07′ 00″	0.98515930	0.17164254	5.739598807	0.174228205	5.826061659	1.015064268
80° 07′ 10″	0.98516762	0.17159477	5.741244867	0.174178253	5.827683298	1.015055695
80° 07′ 20″	0.98517593	0.17154701	5.742891845	0.174128301	5.829305854	1.015047125
80° 07′ 30″	0.98518425	0.17149925	5.744539740	0.174078350	5.830929327	1.015038557
80° 07′ 40″	0.98519256	0.17145149	5.746188553	0.174028400	5.832553719	1.015029992
80° 07′ 50″	0.98520088	0.17140372	5.747838284	0.173978451	5.834179029	1.015021429

601 80° 07′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
80° 08′ 00″	0.98520918	0.17135596	5.749488936	0.173928502	5.835805259	1.015012869
80° 08′ 10″	0.98521749	0.17130819	5.751140508	0.173878555	5.837432410	1.015004311
80° 08′ 20″	0.98522579	0.17126043	5.752793001	0.173828608	5.839060482	1.014995756
80° 08′ 30″	0.98523410	0.17121266	5.754446417	0.173778662	5.840689477	1.014987204
80° 08′ 40″	0.98524240	0.17116490	5.756100755	0.173728717	5.842319394	1.014978654
80° 08′ 50″	0.98525069	0.17111713	5.757756017	0.173678773	5.843950235	1.014970106
80° 09′ 00″	0.98525899	0.17106936	5.759412203	0.173628830	5.845582000	1.014961561
80° 09′ 10″	0.98526728	0.17102160	5.761069314	0.173578887	5.847214691	1.014953019
80° 09′ 20″	0.98527557	0.17097383	5.762727351	0.173528945	5.848848307	1.014944479
80° 09′ 30″	0.98528386	0.17092606	5.764386315	0.173479005	5.850482851	1.014935941
80° 09′ 40″	0.98529214	0.17087829	5.766046206	0.173429065	5.852118322	1.014927406
80° 09′ 50″	0.98530043	0.17083053	5.767707026	0.173379125	5.853754721	1.014918874
80° 10′ 00″	0.98530871	0.17078276	5.769368775	0.173329187	5.855392050	1.014910344
80° 10′ 10″	0.98531699	0.17073499	5.771031453	0.173279250	5.857030309	1.014901817
80° 10′ 20″	0.98532526	0.17068722	5.772695063	0.173229313	5.858669498	1.014893292
80° 10′ 30″	0.98533354	0.17063945	5.774359603	0.173179377	5.860309619	1.014884770
80° 10′ 40″	0.98534181	0.17059168	5.776025076	0.173129442	5.861950672	1.014876250
80° 10′ 50″	0.98535008	0.17054391	5.777691482	0.173079508	5.863592659	1.014867733
80° 11′ 00″	0.98535834	0.17049614	5.779358822	0.173029575	5.865235579	1.014859219
80° 11′ 10″	0.98536661	0.17044836	5.781027097	0.172979642	5.866879434	1.014850707
80° 11′ 20″	0.98537487	0.17040059	5.782696306	0.172929711	5.868524224	1.014842197
80° 11′ 30″	0.98538313	0.17035282	5.784366453	0.172879780	5.870169951	1.014833690
80° 11′ 40″	0.98539139	0.17030505	5.786037536	0.172829850	5.871816615	1.014825185
80° 11′ 50″	0.98539965	0.17025727	5.787709556	0.172779921	5.873464217	1.014816683
80° 12′ 00″	0.98540790	0.17020950	5.789382516	0.172729993	5.875112758	1.014808184
80° 12′ 10″	0.98541615	0.17016173	5.791056415	0.172680065	5.876762237	1.014799687
80° 12′ 20″	0.98542440	0.17011395	5.792731253	0.172630139	5.878412658	1.014791193
80° 12′ 30″	0.98543264	0.17006618	5.794407033	0.172580213	5.880064019	1.014782701
80° 12′ 40″	0.98544089	0.17001840	5.796083755	0.172530288	5.881716322	1.014774211
80° 12′ 50″	0.98544913	0.16997062	5.797761420	0.172480364	5.883369568	1.014765725
80° 13′ 00″	0.98545737	0.16992285	5.799440027	0.172430441	5.885023758	1.014757240
80° 13′ 10″	0.98546561	0.16987507	5.801119579	0.172380518	5.886678891	1.014748759
80° 13′ 20″	0.98547384	0.16982729	5.802800076	0.172330597	5.888334970	1.014740279
80° 13′ 30″	0.98548207	0.16977952	5.804481519	0.172280676	5.889991995	1.014731803
80° 13′ 40″	0.98549030	0.16973174	5.806163908	0.172230756	5.891649967	1.014723328
80° 13′ 50″	0.98549853	0.16968396	5.807847245	0.172180837	5.893308886	1.014714857
80° 14′ 00″	0.98550676	0.16963618	5.809531530	0.172130919	5.894968753	1.014706388
80° 14′ 10″	0.98551498	0.16958840	5.811216764	0.172081001	5.896629569	1.014697921
80° 14′ 20″	0.98552320	0.16954063	5.812902948	0.172031085	5.898291336	1.014689457
80° 14′ 30″ 80° 14′ 40″	0.98553142	0.16949285	5.814590082	0.171981169	5.899954053 F 001617733	1.014680995
	0.98553963	0.16944507	5.816278168	0.171931254	5.901617722	1.014672536
80° 14′ 50″ 80° 15′ 00″	0.98554785	0.16939728	5.817967207	0.171881340	5.903282343	1.014664080
80° 15′ 10″	0.98555606	0.16934950	5.819657198	0.171831427	5.904947917 5.906614445	1.014655626 1.014647174
80° 15′ 10″ 80° 15′ 20″	0.98556427	0.16930172	5.821348143	0.171781514	5.906614445	
80° 15′ 20″ 80° 15′ 30″	0.98557248 0.98558068	0.16925394	5.823040043	0.171731603	5.908281929	1.014638726
80° 15′ 30″ 80° 15′ 40″	0.98558888	0.16920616 0.16915838	5.824732899 5.826426711	0.171681692 0.171631782	5.909950367 5.911619763	1.014630279 1.014621835
80° 15′ 50″	0.98559708	0.16913838	5.828121480	0.171581873	5.913290115	1.014621833
=======================================	0.70337700	0.10/11037	J.04014140U	0.1/13010/3	3./13470113	1.014013374

602 80° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
80° 16′ 00″	0.98560528	0.16906281	5.829817207	0.171531965	5.914961426	1.014604955
80° 16′ 10″	0.98561347	0.16901503	5.831513893	0.171482057	5.916633695	1.014596519
80° 16′ 20″	0.98562167	0.16896724	5.833211539	0.171432151	5.918306925	1.014588085
80° 16′ 30″	0.98562986	0.16891946	5.834910145	0.171382245	5.919981115	1.014579654
80° 16′ 40″	0.98563805	0.16887167	5.836609712	0.171332340	5.921656266	1.014571225
80° 16′ 50″	0.98564623	0.16882389	5.838310242	0.171282436	5.923332379	1.014562799
80° 17′ 00″	0.98565442	0.16877610	5.840011734	0.171232533	5.925009456	1.014554375
80° 17′ 10″	0.98566260	0.16872832	5.841714190	0.171182630	5.926687496	1.014545954
80° 17′ 20″	0.98567078	0.16868053	5.843417611	0.171132729	5.928366502	1.014537535
80° 17′ 30″	0.98567895	0.16863274	5.845121997	0.171082828	5.930046472	1.014529119
80° 17′ 40″	0.98568713	0.16858496	5.846827350	0.171032928	5.931727409	1.014520706
80° 17′ 50″	0.98569530	0.16853717	5.848533669	0.170983029	5.933409313	1.014512295
80° 18′ 00″	0.98570347	0.16848938	5.850240957	0.170933130	5.935092186	1.014503886
80° 18′ 10″	0.98571164	0.16844159	5.851949213	0.170883233	5.936776027	1.014495480
80° 18′ 20″	0.98571980	0.16839380	5.853658439	0.170833336	5.938460837	1.014487077
80° 18′ 30″	0.98572796	0.16834601	5.855368635	0.170783440	5.940146618	1.014478676
80° 18′ 40″	0.98573612	0.16829822	5.857079802	0.170733545	5.941833371	1.014470277
80° 18′ 50″	0.98574428	0.16825043	5.858791942	0.170683651	5.943521096	1.014461881
80° 19′ 00″	0.98575244	0.16820264	5.860505054	0.170633758	5.945209793	1.014453488
80° 19′ 10″	0.98576059	0.16815485	5.862219140	0.170583865	5.946899465	1.014445097
80° 19′ 20″	0.98576874	0.16810706	5.863934201	0.170533974	5.948590111	1.014436709
80° 19′ 30″	0.98577689	0.16805927	5.865650237	0.170484083	5.950281733	1.014428323
80° 19′ 40″	0.98578504	0.16801148	5.867367250	0.170434193	5.951974331	1.014419940
80° 19′ 50″	0.98579318	0.16796368	5.869085239	0.170384303	5.953667907	1.014411559
80° 20′ 00″	0.98580133	0.16791589	5.870804207	0.170334415	5.955362460	1.014403181
80° 20′ 10″	0.98580947	0.16786810	5.872524153	0.170284527	5.957057993	1.014394805
80° 20′ 20″	0.98581760	0.16782031	5.874245079	0.170234641	5.958754505	1.014386432
80° 20′ 30″	0.98582574	0.16777251	5.875966985	0.170184755	5.960451997	1.014378061
80° 20′ 40″	0.98583387	0.16772472	5.877689873	0.170134870	5.962150472	1.014369693
80° 20′ 50″	0.98584200	0.16767692	5.879413743	0.170084985	5.963849928	1.014361327
80° 21′ 00″	0.98585013	0.16762913	5.881138596	0.170035102	5.965550368	1.014352964
80° 21′ 10″	0.98585825	0.16758133	5.882864433	0.169985219	5.967251791	1.014344604
80° 21′ 20″	0.98586638	0.16753354	5.884591255	0.169935337	5.968954199	1.014336245
80° 21′ 30″	0.98587450	0.16748574	5.886319062	0.169885456	5.970657593	1.014327890
80° 21′ 40″ 80° 21′ 50″	0.98588262	0.16743794	5.888047856	0.169835576	5.972361974	1.014319537
80° 22′ 00″	0.98589073 0.98589885	0.16739015	5.889777636 E 801E08406	0.169785697 0.169735818	5.974067342 F 07F773608	1.014311186
80° 22′ 10″	0.98590696	0.16734235	5.891508406	0.169733818	5.975773698 5.977481044	1.014302838
80° 22′ 20″		0.16729455	5.893240164		5.977481044	1.014294493 1.014286150
80° 22′ 30″	0.98591507 0.98592318	0.16724675 0.16719895	5.894972911 5.896706650	0.169636064	5.979189379 5.980898705	1.014286130
80° 22′ 40″	0.98593128	0.16715115	5.898441380	0.169586188 0.169536312	5.982609023	1.014269472
80° 22′ 50″	0.78573128	0.16713113	5.900177103	0.169486438	5.984320333	
80° 23′ 00″	0.98594748	0.16710333	5.900177103	0.169436564	5.986032636	1.014261136 1.014252803
80° 23′ 10″	0.98595558	0.16703333	5.903651529	0.169386691	5.987745934	1.014232603
80° 23′ 20″	0.78575558	0.16700773	5.905390234	0.167386871	5.989460227	1.014244473
80° 23′ 30″	0.78576368	0.16691215	5.907129935	0.167336617	5.991175516	1.014236143
80° 23′ 40″	0.98597986	0.16686435	5.908870632	0.169237078	5.992891802	1.014219497
80° 23′ 50″	0.98598795	0.16681655	5.910612328	0.169187208	5.994609086	1.014217477
	0.70370773	0.10001033	3.710012320	0.10/10/200	3.77 1007000	1,011/2111//

603 80° 23′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
80° 24′ 00″	0.98599604	0.16676875	5.912355021	0.169137340	5.996327368	1.014202859
80° 24′ 10″	0.98600412	0.16672094	5.914098715	0.169087472	5.998046649	1.014194544
80° 24′ 20″	0.98601220	0.16667314	5.915843408	0.169037605	5.999766931	1.014186231
80° 24′ 30″	0.98602028	0.16662534	5.917589102	0.168987739	6.001488214	1.014177921
80° 24′ 40″	0.98602836	0.16657753	5.919335798	0.168937873	6.003210499	1.014169614
80° 24′ 50″	0.98603643	0.16652973	5.921083498	0.168888008	6.004933787	1.014161308
80° 25′ 00″	0.98604451	0.16648193	5.922832200	0.168838145	6.006658079	1.014153006
80° 25′ 10″	0.98605258	0.16643412	5.924581908	0.168788282	6.008383375	1.014144706
80° 25′ 20″	0.98606064	0.16638631	5.926332620	0.168738420	6.010109677	1.014136408
80° 25′ 30″	0.98606871	0.16633851	5.928084339	0.168688558	6.011836985	1.014128113
80° 25′ 40″	0.98607677	0.16629070	5.929837066	0.168638698	6.013565301	1.014119821
80° 25′ 50″	0.98608483	0.16624290	5.931590800	0.168588838	6.015294624	1.014111530
80° 26′ 00″	0.98609289	0.16619509	5.933345543	0.168538979	6.017024957	1.014103243
80° 26′ 10″	0.98610095	0.16614728	5.935101296	0.168489121	6.018756300	1.014094958
80° 26′ 20″	0.98610900	0.16609947	5.936858060	0.168439264	6.020488653	1.014086676
80° 26′ 30″	0.98611705	0.16605167	5.938615836	0.168389407	6.022222019	1.014078396
80° 26′ 40″	0.98612510	0.16600386	5.940374623	0.168339552	6.023956396	1.014070118
80° 26′ 50″	0.98613315	0.16595605	5.942134425	0.168289697	6.025691788	1.014061843
80° 27′ 00″	0.98614119	0.16590824	5.943895240	0.168239843	6.027428193	1.014053571
80° 27′ 10″	0.98614924	0.16586043	5.945657070	0.168189989	6.029165614	1.014045301
80° 27′ 20″	0.98615728	0.16581262	5.947419917	0.168140137	6.030904051	1.014037034
80° 27′ 30″	0.98616531	0.16576481	5.949183780	0.168090285	6.032643504	1.014028769
80° 27′ 40″	0.98617335	0.16571700	5.950948661	0.168040435	6.034383976	1.014020507
80° 27′ 50″	0.98618138	0.16566919	5.952714561	0.167990585	6.036125467	1.014012247
80° 28′ 00″	0.98618941	0.16562138	5.954481481	0.167940736	6.037867977	1.014003989
80° 28′ 10″	0.98619744	0.16557356	5.956249421	0.167890887	6.039611507	1.013995735
80° 28′ 20″	0.98620547	0.16552575	5.958018382	0.167841040	6.041356059	1.013987482
80° 28′ 30″	0.98621349	0.16547794	5.959788365	0.167791193	6.043101634	1.013979233
80° 28′ 40″	0.98622151	0.16543013	5.961559372	0.167741347	6.044848232	1.013970986
80° 28′ 50″	0.98622953	0.16538231	5.963331402	0.167691502	6.046595853	1.013962741
80° 29′ 00″	0.98623755	0.16533450	5.965104458	0.167641658	6.048344500	1.013954499
80° 29′ 10″	0.98624556	0.16528668	5.966878539	0.167591814	6.050094173	1.013946259
80° 29′ 20″ 80° 29′ 30″	0.98625358	0.16523887	5.968653647 5.970429783	0.167541972	6.051844872	1.013938022
80° 29′ 40″	0.98626159	0.16519105 0.16514324	5.972206947	0.167492130 0.167442289	6.053596600 6.055349355	1.013929787 1.013921555
80° 29′ 50″	0.98627760	0.16514524	5.973985141	0.167442269	6.057103141	
80° 30′ 00″	0.98628560	0.16504761	5.975764364	0.167342609	6.058857957	1.013913326 1.013905099
80° 30′ 10″	0.78628360	0.16304761	5.977544620	0.167342607	6.060613804	1.013703077
80° 30′ 20″	0.98630160	0.16499979	5.979325907	0.167242933	6.062370683	1.013888652
80° 30′ 30″	0.78630160	0.16473177	5.981108227	0.167242733	6.062370683	1.013880432
80° 30′ 40″	0.98631759	0.16485634	5.982891581	0.167143259	6.065887542	1.013872215
80° 30′ 50″	0.98632558	0.16480852	5.984675971	0.167143237	6.067647524	1.013872213
80° 31′ 00″	0.78632338	0.16476070	5.986461395	0.167073424	6.069408541	1.013855789
80° 31′ 10″	0.78633337	0.16471288	5.988247857	0.166993756	6.071170595	1.013835787
80° 31′ 20″	0.98634954	0.16466506	5.990035356	0.166943923	6.072933687	1.013839373
80° 31′ 30″	0.98635752	0.16461724	5.991823894	0.166894091	6.074697817	1.013831168
80° 31′ 40″	0.98636550	0.16456942	5.993613471	0.166844259	6.076462987	1.013822966
80° 31′ 50″	0.98637348	0.16452160	5.995404088	0.166794429	6.078229198	1.013814767
	1 21, 000, 010	3.1.0.102.100	5.7,75 10 1000	5.100771127	3.0, 322, 170	

604 80° 31′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
80° 32′ 00″	0.98638146	0.16447378	5.997195747	0.166744599	6.079996449	1.013806570
80° 32′ 10″	0.98638943	0.16442596	5.998988448	0.166694770	6.081764743	1.013798376
80° 32′ 20″	0.98639740	0.16437814	6.000782191	0.166644942	6.083534081	1.013790184
80° 32′ 30″	0.98640537	0.16433032	6.002576979	0.166595115	6.085304462	1.013781994
80° 32′ 40″	0.98641333	0.16428249	6.004372812	0.166545288	6.087075888	1.013773808
80° 32′ 50″	0.98642130	0.16423467	6.006169691	0.166495462	6.088848360	1.013765623
80° 33′ 00″	0.98642926	0.16418685	6.007967616	0.166445638	6.090621879	1.013757442
80° 33′ 10″	0.98643722	0.16413902	6.009766589	0.166395813	6.092396446	1.013749262
80° 33′ 20″	0.98644517	0.16409120	6.011566611	0.166345990	6.094172062	1.013741085
80° 33′ 30″	0.98645313	0.16404337	6.013367682	0.166296168	6.095948727	1.013732911
80° 33′ 40″	0.98646108	0.16399555	6.015169804	0.166246346	6.097726443	1.013724740
80° 33′ 50″	0.98646903	0.16394772	6.016972977	0.166196525	6.099505210	1.013716570
80° 34′ 00″	0.98647698	0.16389990	6.018777202	0.166146705	6.101285029	1.013708404
80° 34′ 10″	0.98648492	0.16385207	6.020582481	0.166096886	6.103065902	1.013700239
80° 34′ 20″	0.98649286	0.16380425	6.022388814	0.166047067	6.104847830	1.013692078
80° 34′ 30″	0.98650080	0.16375642	6.024196202	0.165997250	6.106630812	1.013683919
80° 34′ 40″	0.98650874	0.16370859	6.026004645	0.165947433	6.108414851	1.013675762
80° 34′ 50″	0.98651668	0.16366077	6.027814146	0.165897617	6.110199946	1.013667608
80° 35′ 00″	0.98652461	0.16361294	6.029624705	0.165847801	6.111986100	1.013659456
80° 35′ 10″	0.98653254	0.16356511	6.031436323	0.165797987	6.113773313	1.013651307
80° 35′ 20″	0.98654047	0.16351728	6.033249000	0.165748173	6.115561585	1.013643161
80° 35′ 30″	0.98654840	0.16346945	6.035062739	0.165698360	6.117350918	1.013635016
80° 35′ 40″	0.98655632	0.16342162	6.036877539	0.165648548	6.119141314	1.013626875
80° 35′ 50″	0.98656424	0.16337379	6.038693401	0.165598737	6.120932771	1.013618736
80° 36′ 00″	0.98657216	0.16332596	6.040510327	0.165548926	6.122725293	1.013610599
80° 36′ 10″	0.98658008	0.16327813	6.042328318	0.165499117	6.124518879	1.013602465
80° 36′ 20″	0.98658799	0.16323030	6.044147374	0.165449308	6.126313531	1.013594334
80° 36′ 30″	0.98659591	0.16318247	6.045967496	0.165399500	6.128109249	1.013586205
80° 36′ 40″	0.98660382	0.16313464	6.047788686	0.165349693	6.129906034	1.013578078
80° 36′ 50″	0.98661172	0.16308681	6.049610944	0.165299886	6.131703888	1.013569954
80° 37′ 00″	0.98661963	0.16303897	6.051434271	0.165250080	6.133502811	1.013561833
80° 37′ 10″	0.98662753	0.16299114	6.053258668	0.165200276	6.135302805	1.013553714
80° 37′ 20″	0.98663543	0.16294331	6.055084137	0.165150471	6.137103869	1.013545598
80° 37′ 30″	0.98664333	0.16289547	6.056910677	0.165100668	6.138906006	1.013537484
80° 37′ 40″	0.98665123	0.16284764	6.058738291	0.165050866	6.140709216	1.013529372
80° 37′ 50″	0.98665912	0.16279980	6.060566978	0.165001064	6.142513500	1.013521263
80° 38′ 00″	0.98666701	0.16275197	6.062396741	0.164951263	6.144318859	1.013513157
80° 38′ 10″	0.98667490	0.16270414	6.064227579	0.164901463	6.146125294	1.013505053
80° 38′ 20″	0.98668279	0.16265630	6.066059495	0.164851664	6.147932807	1.013496952
80° 38′ 30″	0.98669067	0.16260846	6.067892488	0.164801865	6.149741397	1.013488853
80° 38′ 40″	0.98669856	0.16256063	6.069726560	0.164752068	6.151551065	1.013480756
80° 38′ 50″	0.98670644	0.16251279	6.071561711	0.164702271	6.153361814	1.013472663
80° 39′ 00″	0.98671431	0.16246495	6.073397944	0.164652474	6.155173644	1.013464571
80° 39′ 10″	0.98672219	0.16241712	6.075235258	0.164602679	6.156986555	1.013456483
80° 39′ 20″	0.98673006	0.16236928	6.077073654	0.164552885	6.158800549	1.013448396
80° 39′ 30″	0.98673793	0.16232144	6.078913135	0.164503091	6.160615626	1.013440312
80° 39′ 40″	0.98674580	0.16227360	6.080753699	0.164453298	6.162431789	1.013432231
80° 39′ 50″	0.98675367	0.16222576	6.082595350	0.164403506	6.164249037	1.013424152

605 80° 39′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
80° 40′ 00″	0.98676153	0.16217792	6.084438086	0.164353714	6.166067371	1.013416076
80° 40′ 10″	0.78676133	0.16217772	6.086281911	0.164303924	6.167886793	1.013418078
80° 40′ 10″				0.164254134	6.167000773	1.013408002
80° 40′ 30″	0.98677725	0.16208224	6.088126823			
	0.98678511	0.16203440	6.089972825	0.164204345	6.171528904	1.013391862
80° 40′ 40″	0.98679296	0.16198656	6.091819918	0.164154557	6.173351595	1.013383796
80° 40′ 50″	0.98680082	0.16193872	6.093668102	0.164104770	6.175175377	1.013375733
80° 41′ 00″	0.98680867	0.16189088	6.095517378	0.164054983	6.177000251	1.013367671
80° 41′ 10″	0.98681651	0.16184304	6.097367748	0.164005197	6.178826219	1.013359613
80° 41′ 20″	0.98682436	0.16179519	6.099219211	0.163955412	6.180653282	1.013351557
80° 41′ 30″	0.98683220	0.16174735	6.101071770	0.163905628	6.182481439	1.013343503
80° 41′ 40″	0.98684004	0.16169951	6.102925426	0.163855845	6.184310693	1.013335452
80° 41′ 50″	0.98684788	0.16165167	6.104780178	0.163806062	6.186141045	1.013327403
80° 42′ 00″	0.98685572	0.16160382	6.106636029	0.163756280	6.187972495	1.013319357
80° 42′ 10″	0.98686355	0.16155598	6.108492979	0.163706499	6.189805044	1.013311313
80° 42′ 20″	0.98687138	0.16150813	6.110351029	0.163656719	6.191638693	1.013303272
80° 42′ 30″	0.98687921	0.16146029	6.112210181	0.163606939	6.193473443	1.013295234
80° 42′ 40″	0.98688704	0.16141244	6.114070434	0.163557161	6.195309296	1.013287198
80° 42′ 50″	0.98689486	0.16136460	6.115931791	0.163507383	6.197146252	1.013279164
80° 43′ 00″	0.98690268	0.16131675	6.117794252	0.163457606	6.198984313	1.013271133
80° 43′ 10″	0.98691050	0.16126890	6.119657818	0.163407829	6.200823478	1.013263104
80° 43′ 20″	0.98691832	0.16122106	6.121522490	0.163358054	6.202663750	1.013255078
80° 43′ 30″	0.98692614	0.16117321	6.123388269	0.163308279	6.204505129	1.013247055
80° 43′ 40″	0.98693395	0.16112536	6.125255156	0.163258505	6.206347616	1.013239034
80° 43′ 50″	0.98694176	0.16107751	6.127123153	0.163208732	6.208191213	1.013231015
80° 44′ 00″	0.98694957	0.16102966	6.128992260	0.163158960	6.210035919	1.013222999
80° 44′ 10″	0.98695737	0.16098182	6.130862477	0.163109188	6.211881737	1.013214986
80° 44′ 20″	0.98696518	0.16093397	6.132733807	0.163059417	6.213728667	1.013206975
80° 44′ 30″	0.98697298	0.16088612	6.134606250	0.163009647	6.215576710	1.013198966
80° 44′ 40″	0.98698078	0.16083827	6.136479807	0.162959878	6.217425868	1.013190960
80° 44′ 50″	0.98698857	0.16079042	6.138354479	0.162910109	6.219276140	1.013182957
80° 45′ 00″	0.98699637	0.16074257	6.140230267	0.162860342	6.221127529	1.013174956
80° 45′ 10″	0.98700416	0.16069471	6.142107173	0.162810575	6.222980035	1.013166957
80° 45′ 20″ 80° 45′ 30″	0.98701195	0.16064686	6.143985196	0.162760809	6.224833660	1.013158961
	0.98701974	0.16059901	6.145864339	0.162711044	6.226688403	1.013150968
80° 45′ 40″	0.98702752	0.16055116	6.147744602	0.162661279	6.228544267	1.013142977
80° 45′ 50″	0.98703530	0.16050331	6.149625986	0.162611515	6.230401252	1.013134988
80° 46′ 00″	0.98704308	0.16045545	6.151508492	0.162561752	6.232259359	1.013127003
80° 46′ 10″	0.98705086	0.16040760	6.153392121	0.162511990	6.234118590	1.013119019
80° 46′ 20″	0.98705864	0.16035975	6.155276875	0.162462229	6.235978945	1.013111038
80° 46′ 30″	0.98706641	0.16031189	6.157162753	0.162412468	6.237840425	1.013103060
80° 46′ 40″	0.98707418	0.16026404	6.159049758	0.162362708	6.239703032	1.013095084
80° 46′ 50″	0.98708195	0.16021618	6.160937891	0.162312949	6.241566766	1.013087111
80° 47′ 00″	0.98708972	0.16016833	6.162827151	0.162263191	6.243431628	1.013079140
80° 47′ 10″	0.98709748	0.16012047	6.164717541	0.162213434	6.245297620	1.013071171
80° 47′ 20″	0.98710524	0.16007262	6.166609061	0.162163677	6.247164742	1.013063205
80° 47′ 30″	0.98711300	0.16002476	6.168501712	0.162113921	6.249032995	1.013055242
80° 47′ 40″	0.98712076	0.15997690	6.170395496	0.162064166	6.250902381	1.013047281
80° 47′ 50″	0.98712851	0.15992905	6.172290413	0.162014412	6.252772901	1.013039323

606 80° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
80° 48′ 00″	0.98713627	0.15988119	6.174186465	0.161964658	6.254644555	1.013031367
80° 48′ 10″	0.98714402	0.15983333	6.176083652	0.161914905	6.256517344	1.013023414
80° 48′ 20″	0.98715176	0.15978547	6.177981976	0.161865153	6.258391270	1.013015463
80° 48′ 30″	0.98715951	0.15973761	6.179881437	0.161815402	6.260266334	1.013007514
80° 48′ 40″	0.98716725	0.15968975	6.181782036	0.161765652	6.262142536	1.012999569
80° 48′ 50″	0.98717499	0.15964189	6.183683775	0.161715902	6.264019878	1.012991625
80° 49′ 00″	0.98718273	0.15959403	6.185586655	0.161666153	6.265898361	1.012983685
80° 49′ 10″	0.98719047	0.15954617	6.187490677	0.161616405	6.267777985	1.012975746
80° 49′ 20″	0.98719820	0.15949831	6.189395841	0.161566658	6.269658752	1.012967810
80° 49′ 30″	0.98720593	0.15945045	6.191302148	0.161516911	6.271540663	1.012959877
80° 49′ 40″	0.98721366	0.15940259	6.193209601	0.161467166	6.273423719	1.012951946
80° 49′ 50″	0.98722139	0.15935473	6.195118199	0.161417421	6.275307921	1.012944018
80° 50′ 00″	0.98722911	0.15930687	6.197027944	0.161367676	6.277193269	1.012936092
80° 50′ 10″	0.98723684	0.15925901	6.198938837	0.161317933	6.279079766	1.012928169
80° 50′ 20″	0.98724456	0.15921114	6.200850879	0.161268190	6.280967412	1.012920248
80° 50′ 30″	0.98725227	0.15916328	6.202764071	0.161218449	6.282856207	1.012912330
80° 50′ 40″	0.98725999	0.15911542	6.204678414	0.161168707	6.284746154	1.012904414
80° 50′ 50″	0.98726770	0.15906755	6.206593909	0.161118967	6.286637253	1.012896501
80° 51′ 00″	0.98727541	0.15901969	6.208510557	0.161069228	6.288529505	1.012888590
80° 51′ 10″	0.98728312	0.15897182	6.210428359	0.161019489	6.290422911	1.012880682
80° 51′ 20″	0.98729083	0.15892396	6.212347316	0.160969751	6.292317473	1.012872776
80° 51′ 30″	0.98729853	0.15887609	6.214267430	0.160920014	6.294213191	1.012864873
80° 51′ 40″	0.98730623	0.15882823	6.216188701	0.160870277	6.296110066	1.012856972
80° 51′ 50″	0.98731393	0.15878036	6.218111131	0.160820542	6.298008100	1.012849074
80° 52′ 00″	0.98732163	0.15873249	6.220034719	0.160770807	6.299907294	1.012841178
80° 52′ 10″	0.98732932	0.15868463	6.221959469	0.160721073	6.301807648	1.012833285
80° 52′ 20″	0.98733701	0.15863676	6.223885379	0.160671339	6.303709163	1.012825394
80° 52′ 30″	0.98734470	0.15858889	6.225812453	0.160621607	6.305611842	1.012817506
80° 52′ 40″	0.98735239	0.15854102	6.227740690	0.160571875	6.307515684	1.012809620
80° 52′ 50″	0.98736008	0.15849316	6.229670092	0.160522144	6.309420691	1.012801737
80° 53′ 00″	0.98736776	0.15844529	6.231600660	0.160472414	6.311326864	1.012793856
80° 53′ 10″	0.98737544	0.15839742	6.233532394	0.160422684	6.313234203	1.012785978
80° 53′ 20″	0.98738312	0.15834955	6.235465296	0.160372956	6.315142711	1.012778103
80° 53′ 30″	0.98739079	0.15830168	6.237399368	0.160323228	6.317052388	1.012770229
80° 53′ 40″	0.98739847	0.15825381	6.239334609	0.160273501	6.318963235	1.012762359
80° 53′ 50″	0.98740614	0.15820594	6.241271022	0.160223774	6.320875254	1.012754490
80° 54′ 00″	0.98741381	0.15815807	6.243208607	0.160174049	6.322788444	1.012746625
80° 54′ 10″	0.98742147	0.15811020	6.245147365	0.160124324	6.324702808	1.012738762
80° 54′ 20″	0.98742914	0.15806232	6.247087298	0.160074600	6.326618347	1.012730901
80° 54′ 30″	0.98743680	0.15801445	6.249028406	0.160024877	6.328535061	1.012723043
80° 54′ 40″	0.98744446	0.15796658	6.250970690	0.159975154	6.330452951	1.012715187
80° 54′ 50″	0.98745212	0.15791871	6.252914152	0.159925432	6.332372020	1.012707334
80° 55′ 00″	0.98745977	0.15787083	6.254858793	0.159875712	6.334292267	1.012699483
80° 55′ 10″	0.98746742	0.15782296	6.256804614	0.159825991	6.336213694	1.012691635
80° 55′ 20″	0.98747507	0.15777509	6.258751615	0.159776272	6.338136302	1.012683789
80° 55′ 30″	0.98748272	0.15772721	6.260699798	0.159726553	6.340060091	1.012675946
80° 55′ 40″	0.98749037	0.15767934	6.262649165	0.159676835	6.341985064	1.012668105
80° 55′ 50″	0.98749801	0.15763146	6.264599715	0.159627118	6.343911222	1.012660267

607 80° 55′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
80° 56′ 00″	0.98750565	0.15758359	6.266551451	0.159577402	6.345838564	1.012652432
80° 56′ 10″	0.98751329	0.15753571	6.268504372	0.159527686	6.347767093	1.012644598
80° 56′ 20″	0.98752093	0.15748783	6.270458482	0.159477972	6.349696809	1.012636768
80° 56′ 30″	0.98752856	0.15743996	6.272413779	0.159428258	6.351627714	1.012628940
80° 56′ 40″	0.98753619	0.15739208	6.274370267	0.159378544	6.353559809	1.012621114
80° 56′ 50″	0.98754382	0.15734420	6.276327945	0.159328832	6.355493094	1.012613291
80° 57′ 00″	0.98755145	0.15729633	6.278286814	0.159279120	6.357427571	1.012605470
80° 57′ 10″	0.98755907	0.15724845	6.280246877	0.159229409	6.359363241	1.012597652
80° 57′ 20″	0.98756670	0.15720057	6.282208133	0.159179699	6.361300105	1.012589836
80° 57′ 30″	0.98757432	0.15715269	6.284170585	0.159129990	6.363238164	1.012582023
80° 57′ 40″	0.98758193	0.15710481	6.286134232	0.159080281	6.365177420	1.012574212
80° 57′ 50″	0.98758955	0.15705693	6.288099077	0.159030573	6.367117873	1.012566404
80° 58′ 00″	0.98759716	0.15700905	6.290065120	0.158980866	6.369059524	1.012558599
80° 58′ 10″	0.98760477	0.15696117	6.292032363	0.158931160	6.371002375	1.012550796
80° 58′ 20″	0.98761238	0.15691329	6.294000806	0.158881454	6.372946426	1.012542995
80° 58′ 30″	0.98761999	0.15686541	6.295970451	0.158831749	6.374891679	1.012535197
80° 58′ 40″	0.98762759	0.15681753	6.297941299	0.158782045	6.376838135	1.012527401
80° 58′ 50″	0.98763519	0.15676965	6.299913351	0.158732342	6.378785796	1.012519608
80° 59′ 00″	0.98764279	0.15672177	6.301886607	0.158682639	6.380734661	1.012511817
80° 59′ 10″	0.98765039	0.15667388	6.303861070	0.158632938	6.382684732	1.012504029
80° 59′ 20″	0.98765799	0.15662600	6.305836740	0.158583237	6.384636011	1.012496243
80° 59′ 30″	0.98766558	0.15657812	6.307813618	0.158533536	6.386588498	1.012488460
80° 59′ 40″	0.98767317	0.15653023	6.309791706	0.158483837	6.388542195	1.012480680
80° 59′ 50″	0.98768076	0.15648235	6.311771005	0.158434138	6.390497102	1.012472901
81° 00′ 00″	0.98768834	0.15643447	6.313751515	0.158384440	6.392453221	1.012465126
81° 00′ 10″	0.98769592	0.15638658	6.315733238	0.158334743	6.394410554	1.012457353
81° 00′ 20″	0.98770350	0.15633870	6.317716175	0.158285047	6.396369100	1.012449582
81° 00′ 30″	0.98771108	0.15629081	6.319700327	0.158235351	6.398328861	1.012441814
81° 00′ 40″	0.98771866	0.15624292	6.321685695	0.158185656	6.400289839	1.012434048
81° 00′ 50″	0.98772623	0.15619504	6.323672280	0.158135962	6.402252034	1.012426285
81° 01′ 00″	0.98773380	0.15614715	6.325660084	0.158086269	6.404215448	1.012418524
81° 01′ 10″	0.98774137	0.15609926	6.327649108	0.158036576	6.406180081	1.012410766
81° 01′ 20″	0.98774894	0.15605138	6.329639352	0.157986884	6.408145936	1.012403010
81° 01′ 30″	0.98775650	0.15600349	6.331630819	0.157937193	6.410113012	1.012395257
81° 01′ 40″	0.98776407	0.15595560	6.333623508	0.157887503	6.412081311	1.012387507
81° 01′ 50″	0.98777163	0.15590771	6.335617421	0.157837813	6.414050835	1.012379758
81° 02′ 00″	0.98777918	0.15585982	6.337612560	0.157788125	6.416021583	1.012372013
81° 02′ 10″	0.98778674	0.15581194	6.339608925	0.157738437	6.417993559	1.012364270
81° 02′ 20″	0.98779429	0.15576405	6.341606518	0.157688749	6.419966762	1.012356529
81° 02′ 30″	0.98780184	0.15571616	6.343605339	0.157639063	6.421941194	1.012348791
81° 02′ 40″	0.98780939	0.15566827	6.345605390	0.157589377	6.423916855	1.012341055
81° 02′ 50″	0.98781694	0.15562038	6.347606672	0.157539692	6.425893748	1.012333322
81° 03′ 00″	0.98782448	0.15557248	6.349609186	0.157490008	6.427871873	1.012325591
81° 03′ 10″	0.98783202	0.15552459	6.351612934	0.157440324	6.429851232	1.012317863
81° 03′ 20″	0.98783956	0.15547670	6.353617916	0.157390642	6.431831825	1.012310137
81° 03′ 30″	0.98784710	0.15542881	6.355624133	0.157340960	6.433813653	1.012302414
81° 03′ 40″	0.98785463	0.15538092	6.357631588	0.157291278	6.435796719	1.012294693
81° 03′ 50″	0.98786216	0.15533302	6.359640280	0.157241598	6.437781022	1.012286975
81° 03′ 50″	0.98786216	0.15533302	6.359640280	0.157241598	6.437781022	1.012286975

608 **81° 03′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
81° 04′ 00″	0.98786969	0.15528513	6.361650211	0.157191918	6.439766565	1.012279259
81° 04′ 10″	0.98787722	0.15523724	6.363661382	0.157142239	6.441753348	1.012271546
81° 04′ 20″	0.98788474	0.15518934	6.365673795	0.157092561	6.443741372	1.012263836
81° 04′ 30″	0.98789227	0.15514145	6.367687450	0.157042884	6.445730639	1.012256127
81° 04′ 40″	0.98789979	0.15509356	6.369702349	0.156993207	6.447721149	1.012248422
81° 04′ 50″	0.98790730	0.15504566	6.371718493	0.156943531	6.449712905	1.012240718
81° 05′ 00″	0.98791482	0.15499777	6.373735883	0.156893856	6.451705907	1.012233018
81° 05′ 10″	0.98792233	0.15494987	6.375754520	0.156844182	6.453700156	1.012225319
81° 05′ 20″	0.98792984	0.15490197	6.377774405	0.156794508	6.455695653	1.012217624
81° 05′ 30″	0.98793735	0.15485408	6.379795540	0.156744835	6.457692400	1.012209930
81° 05′ 40″	0.98794486	0.15480618	6.381817925	0.156695163	6.459690397	1.012202240
81° 05′ 50″	0.98795236	0.15475828	6.383841563	0.156645492	6.461689647	1.012194551
81° 06′ 00″	0.98795987	0.15471039	6.385866453	0.156595821	6.463690150	1.012186866
81° 06′ 10″	0.98796737	0.15466249	6.387892597	0.156546151	6.465691907	1.012179182
81° 06′ 20″	0.98797486	0.15461459	6.389919997	0.156496482	6.467694919	1.012171502
81° 06′ 30″	0.98798236	0.15456669	6.391948653	0.156446814	6.469699188	1.012163823
81° 06′ 40″	0.98798985	0.15451879	6.393978567	0.156397146	6.471704715	1.012156148
81° 06′ 50″	0.98799734	0.15447089	6.396009740	0.156347479	6.473711501	1.012148474
81° 07′ 00″	0.98800483	0.15442299	6.398042173	0.156297813	6.475719547	1.012140804
81° 07′ 10″	0.98801231	0.15437509	6.400075868	0.156248148	6.477728854	1.012133135
81° 07′ 20″	0.98801980	0.15432719	6.402110824	0.156198483	6.479739424	1.012125470
81° 07′ 30″	0.98802728	0.15427929	6.404147045	0.156148819	6.481751258	1.012117806
81° 07′ 40″	0.98803476	0.15423139	6.406184530	0.156099156	6.483764356	1.012110145
81° 07′ 50″	0.98804223	0.15418349	6.408223281	0.156049494	6.485778721	1.012102487
81° 08′ 00″	0.98804971	0.15413559	6.410263299	0.155999832	6.487794353	1.012094831
81° 08′ 10″	0.98805718	0.15408769	6.412304586	0.155950172	6.489811253	1.012087178
81° 08′ 20″	0.98806465	0.15403978	6.414347142	0.155900511	6.491829423	1.012079527
81° 08′ 30″	0.98807211	0.15399188	6.416390969	0.155850852	6.493848864	1.012071879
81° 08′ 40″	0.98807958	0.15394398	6.418436068	0.155801194	6.495869577	1.012064233
81° 08′ 50″	0.98808704	0.15389607	6.420482441	0.155751536	6.497891563	1.012056590
81° 09′ 00″	0.98809450	0.15384817	6.422530087	0.155701879	6.499914824	1.012048949
81° 09′ 10″	0.98810196	0.15380027	6.424579009	0.155652222	6.501939360	1.012041311
81° 09′ 20″	0.98810941	0.15375236	6.426629208	0.155602567	6.503965173	1.012033675
81° 09′ 30″	0.98811687	0.15370446	6.428680685	0.155552912	6.505992265	1.012026041
81° 09′ 40″	0.98812432	0.15365655	6.430733441	0.155503258	6.508020635	1.012018410
81° 09′ 50″	0.98813176	0.15360864	6.432787477	0.155453604	6.510050286	1.012010782
81° 10′ 00″	0.98813921	0.15356074	6.434842795	0.155403952	6.512081219	1.012003156
81° 10′ 10″	0.98814665	0.15351283	6.436899396	0.155354300	6.514113434	1.011995533
81° 10′ 20″	0.98815410	0.15346492	6.438957281	0.155304649	6.516146934	1.011987912
81° 10′ 30″	0.98816153	0.15341702	6.441016451	0.155254999	6.518181719	1.011980294
81° 10′ 40″	0.98816897	0.15336911	6.443076907	0.155205349	6.520217790	1.011972678
81° 10′ 50″	0.98817641	0.15332120	6.445138651	0.155155700	6.522255149	1.011965064
81° 11′ 00″	0.98818384	0.15327329	6.447201684	0.155106052	6.524293797	1.011957453
81° 11′ 10″	0.98819127	0.15322539	6.449266007	0.155056405	6.526333736	1.011949845
81° 11′ 20″	0.98819870	0.15317748	6.451331621	0.155006758	6.528374965	1.011942239
81° 11′ 30″	0.98820612	0.15312957	6.453398528	0.154957112	6.530417488	1.011934636
81° 11′ 40″ 81° 11′ 50″	0.98821354 0.98822096	0.15308166	6.455466729	0.154907467	6.532461304	1.011927035
01 11 30	0.70022076	0.15303375	6.457536224	0.154857823	6.534506415	1.011919436

609 **81° 11′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
81° 12′ 00″	0.98822838	0.15298584	6.459607016	0.154808179	6.536552823	1.011911840
81° 12′ 10″	0.98823580	0.15293793	6.461679105	0.154758536	6.538600528	1.011904247
81° 12′ 20″	0.98824321	0.15289001	6.463752493	0.154708894	6.540649532	1.011896656
81° 12′ 30″	0.98825062	0.15284210	6.465827181	0.154659253	6.542699835	1.011889067
81° 12′ 40″	0.98825803	0.15279419	6.467903170	0.154609612	6.544751440	1.011881481
81° 12′ 50″	0.98826544	0.15274628	6.469980461	0.154559972	6.546804348	1.011873898
81° 13′ 00″	0.98827284	0.15269837	6.472059056	0.154510333	6.548858559	1.011866317
81° 13′ 10″	0.98828024	0.15265045	6.474138956	0.154460695	6.550914075	1.011858738
81° 13′ 20″	0.98828764	0.15260254	6.476220161	0.154411057	6.552970897	1.011851162
81° 13′ 30″	0.98829504	0.15255463	6.478302674	0.154361420	6.555029027	1.011843589
81° 13′ 40″	0.98830243	0.15250671	6.480386496	0.154311784	6.557088465	1.011836018
81° 13′ 50″	0.98830983	0.15245880	6.482471627	0.154262148	6.559149213	1.011828449
81° 14′ 00″	0.98831722	0.15241088	6.484558070	0.154212514	6.561211272	1.011820883
81° 14′ 10″	0.98832461	0.15236297	6.486645824	0.154162880	6.563274644	1.011813319
81° 14′ 20″	0.98833199	0.15231505	6.488734893	0.154113247	6.565339329	1.011805758
81° 14′ 30″	0.98833937	0.15226714	6.490825276	0.154063614	6.567405329	1.011798200
81° 14′ 40″	0.98834676	0.15221922	6.492916975	0.154013982	6.569472645	1.011790644
81° 14′ 50″	0.98835413	0.15217130	6.495009991	0.153964351	6.571541279	1.011783090
81° 15′ 00″	0.98836151	0.15212339	6.497104326	0.153914721	6.573611231	1.011775539
81° 15′ 10″	0.98836888	0.15207547	6.499199980	0.153865092	6.575682503	1.011767990
81° 15′ 20″	0.98837626	0.15202755	6.501296956	0.153815463	6.577755097	1.011760444
81° 15′ 30″	0.98838363	0.15197963	6.503395254	0.153765835	6.579829012	1.011752901
81° 15′ 40″	0.98839099	0.15193171	6.505494876	0.153716207	6.581904252	1.011745359
81° 15′ 50″	0.98839836	0.15188380	6.507595822	0.153666581	6.583980816	1.011737821
81° 16′ 00″	0.98840572	0.15183588	6.509698095	0.153616955	6.586058707	1.011730285
81° 16′ 10″	0.98841308	0.15178796	6.511801695	0.153567330	6.588137924	1.011722751
81° 16′ 20″	0.98842044	0.15174004	6.513906623	0.153517706	6.590218471	1.011715220
81° 16′ 30″	0.98842779	0.15169212	6.516012882	0.153468082	6.592300348	1.011707691
81° 16′ 40″ 81° 16′ 50″	0.98843515	0.15164420	6.518120471	0.153418459	6.594383556	1.011700165
81° 17′ 00″	0.98844250 0.98844984	0.15159628 0.15154836	6.520229394 6.522339649	0.153368837 0.153319216	6.596468096 6.598553970	1.011692641 1.011685120
81° 17′ 10″	0.98845719	0.15154656	6.524451240	0.153269595	6.600641180	1.011677601
81° 17′ 20″	0.78846453	0.15130043	6.526564167	0.153267373	6.602729726	1.011677601
81° 17′ 30″	0.98847188	0.15140459	6.528678432	0.153170356	6.604819609	1.011662571
81° 17′ 40″	0.98847922	0.15135667	6.530794035	0.153170338	6.606910831	1.011655060
81° 17′ 50″	0.98848655	0.15130874	6.532910979	0.153071120	6.609003394	1.011647551
81° 18′ 00″	0.98849389	0.15126082	6.535029264	0.153021503	6.611097298	1.011640045
81° 18′ 10″	0.98850122	0.15121290	6.537148892	0.152971887	6.613192545	1.011632541
81° 18′ 20″	0.98850855	0.15116497	6.539269863	0.152922271	6.615289135	1.011625040
81° 18′ 30″	0.98851588	0.15111705	6.541392180	0.152872657	6.617387072	1.011617541
81° 18′ 40″	0.98852320	0.15106912	6.543515844	0.152823043	6.619486354	1.011610045
81° 18′ 50″	0.98853052	0.15102120	6.545640855	0.152773429	6.621586985	1.011602551
81° 19′ 00″	0.98853784	0.15097327	6.547767215	0.152723817	6.623688965	1.011595059
81° 19′ 10″	0.98854516	0.15092535	6.549894926	0.152674205	6.625792296	1.011587571
81° 19′ 20″	0.98855248	0.15087742	6.552023989	0.152624594	6.627896978	1.011580084
81° 19′ 30″	0.98855979	0.15082949	6.554154405	0.152574983	6.630003014	1.011572600
81° 19′ 40″	0.98856710	0.15078157	6.556286175	0.152525374	6.632110403	1.011565119
81° 19′ 50″	0.98857441	0.15073364	6.558419300	0.152475765	6.634219149	1.011557640
	1					

610 **81° 19′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
81° 20′ 00″	0.98858172	0.15068571	6.560553783	0.152426157	6.636329252	1.011550164
81° 20′ 10″	0.98858902	0.15063778	6.562689623	0.152376549	6.638440713	1.011542690
81° 20′ 20″	0.98859633	0.15058986	6.564826824	0.152326943	6.640553533	1.011535218
81° 20′ 30″	0.98860363	0.15054193	6.566965385	0.152277337	6.642667715	1.011527749
81° 20′ 40″	0.98861092	0.15049400	6.569105308	0.152227732	6.644783258	1.011520283
81° 20′ 50″	0.98861822	0.15044607	6.571246595	0.152178127	6.646900166	1.011512819
81° 21′ 00″	0.98862551	0.15039814	6.573389247	0.152128523	6.649018438	1.011505357
81° 21′ 10″	0.98863280	0.15035021	6.575533264	0.152078920	6.651138076	1.011497898
81° 21′ 20″	0.98864009	0.15030228	6.577678650	0.152029318	6.653259082	1.011490442
81° 21′ 30″	0.98864737	0.15025435	6.579825403	0.151979717	6.655381457	1.011482988
81° 21′ 40″	0.98865466	0.15020642	6.581973527	0.151930116	6.657505202	1.011475536
81° 21′ 50″	0.98866194	0.15015849	6.584123023	0.151880516	6.659630318	1.011468087
81° 22′ 00″	0.98866922	0.15011055	6.586273891	0.151830916	6.661756808	1.011460640
81° 22′ 10″	0.98867649	0.15006262	6.588426133	0.151781318	6.663884671	1.011453196
81° 22′ 20″	0.98868377	0.15001469	6.590579750	0.151731720	6.666013910	1.011445755
81° 22′ 30″	0.98869104	0.14996676	6.592734744	0.151682123	6.668144525	1.011438316
81° 22′ 40″	0.98869831	0.14991882	6.594891116	0.151632526	6.670276519	1.011430879
81° 22′ 50″	0.98870558	0.14987089	6.597048868	0.151582930	6.672409892	1.011423445
81° 23′ 00″	0.98871284	0.14982295	6.599208000	0.151533336	6.674544646	1.011416013
81° 23′ 10″	0.98872010	0.14977502	6.601368514	0.151483741	6.676680782	1.011408584
81° 23′ 20″	0.98872736	0.14972709	6.603530412	0.151434148	6.678818301	1.011401157
81° 23′ 30″	0.98873462	0.14967915	6.605693694	0.151384555	6.680957205	1.011393733
81° 23′ 40″	0.98874188	0.14963122	6.607858362	0.151334963	6.683097496	1.011386311
81° 23′ 50″	0.98874913	0.14958328	6.610024418	0.151285372	6.685239173	1.011378892
81° 24′ 00″	0.98875638	0.14953534	6.612191862	0.151235781	6.687382240	1.011371475
81° 24′ 10″	0.98876363	0.14948741	6.614360697	0.151186191	6.689526697	1.011364061
81° 24′ 20″	0.98877088	0.14943947	6.616530923	0.151136602	6.691672545	1.011356649
81° 24′ 30″	0.98877812	0.14939153	6.618702541	0.151087013	6.693819786	1.011349240
81° 24′ 40″	0.98878536	0.14934360	6.620875554	0.151037426	6.695968422	1.011341833
81° 24′ 50″	0.98879260	0.14929566	6.623049962	0.150987839	6.698118452	1.011334429
81° 25′ 00″	0.98879984	0.14924772	6.625225767	0.150938253	6.700269880	1.011327027
81° 25′ 10″	0.98880707	0.14919978	6.627402971	0.150888667	6.702422706	1.011319628
81° 25′ 20″	0.98881430	0.14915184	6.629581573	0.150839082	6.704576932	1.011312231
81° 25′ 30″	0.98882153	0.14910390	6.631761577	0.150789498	6.706732559	1.011304837
81° 25′ 40″	0.98882876	0.14905596	6.633942983	0.150739915	6.708889588	1.011297445
81° 25′ 50″	0.98883599	0.14900802	6.636125793	0.150690332	6.711048021	1.011290055
81° 26′ 00″	0.98884321	0.14896008	6.638310007	0.150640750	6.713207859	1.011282669
81° 26′ 10″	0.98885043	0.14891214	6.640495628	0.150591169	6.715369103	1.011275284
81° 26′ 20″	0.98885765	0.14886420	6.642682657	0.150541589	6.717531755	1.011267902
81° 26′ 30″	0.98886486	0.14881626	6.644871095	0.150492009	6.719695817	1.011260523
81° 26′ 40″ 81° 26′ 50″	0.98887208	0.14876832	6.647060943	0.150442430	6.721861289	1.011253146
	0.98887929	0.14872038	6.649252203	0.150392852	6.724028172	1.011245771
81° 27′ 00″ 81° 27′ 10″	0.98888650	0.14867243	6.651444877	0.150343274	6.726196470 6.728366181	1.011238399
81° 27′ 10″ 81° 27′ 20″	0.98889371	0.14862449 0.14857655	6.653638965 6.655834469	0.150293697 0.150244121	6.730537309	1.011231030 1.011223663
81° 27′ 30″	0.98890811	0.14852860	6.658031390	0.150244121	6.732709855	1.011223663
81° 27′ 40″	0.98891531	0.14848066	6.660229730	0.150174346	6.734883819	1.011216276
81° 27′ 50″	0.98892251	0.14843272	6.662429490	0.150144971	6.737059203	1.011208936
	0.70072231	0.17073272	0.00272/4/0	0.1300/33//	0.7 37 03 7 203	1.011201370

611 **81° 27′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
81° 28′ 00″	0.98892970	0.14838477	6.664630672	0.150045824	6.739236010	1.011194219
81° 28′ 10″	0.98893690	0.14833683	6.666833276	0.149996251	6.741414239	1.011186865
81° 28′ 20″	0.98894409	0.14828888	6.669037305	0.149946680	6.743593892	1.011179513
81° 28′ 30″	0.98895128	0.14824094	6.671242760	0.149897109	6.745774971	1.011172163
81° 28′ 40″	0.98895846	0.14819299	6.673449642	0.149847538	6.747957478	1.011164816
81° 28′ 50″	0.98896564	0.14814504	6.675657952	0.149797969	6.750141413	1.011157471
81° 29′ 00″	0.98897283	0.14809710	6.677867692	0.149748400	6.752326778	1.011150129
81° 29′ 10″	0.98898000	0.14804915	6.680078863	0.149698831	6.754513574	1.011142789
81° 29′ 20″	0.98898718	0.14800120	6.682291467	0.149649264	6.756701803	1.011135452
81° 29′ 30″	0.98899435	0.14795326	6.684505505	0.149599697	6.758891466	1.011128117
81° 29′ 40″	0.98900153	0.14790531	6.686720979	0.149550131	6.761082565	1.011120785
81° 29′ 50″	0.98900870	0.14785736	6.688937890	0.149500566	6.763275101	1.011113455
81° 30′ 00″	0.98901586	0.14780941	6.691156238	0.149451001	6.765469075	1.011106128
81° 30′ 10″	0.98902303	0.14776146	6.693376027	0.149401437	6.767664489	1.011098803
81° 30′ 20″	0.98903019	0.14771351	6.695597256	0.149351874	6.769861344	1.011091481
81° 30′ 30″	0.98903735	0.14766556	6.697819929	0.149302312	6.772059642	1.011084161
81° 30′ 40″	0.98904451	0.14761761	6.700044045	0.149252750	6.774259384	1.011076843
81° 30′ 50″	0.98905166	0.14756966	6.702269606	0.149203189	6.776460571	1.011069529
81° 31′ 00″	0.98905882	0.14752171	6.704496615	0.149153629	6.778663206	1.011062216
81° 31′ 10″	0.98906597	0.14747376	6.706725071	0.149104069	6.780867288	1.011054906
81° 31′ 20″	0.98907312	0.14742581	6.708954977	0.149054510	6.783072821	1.011047599
81° 31′ 30″	0.98908026	0.14737786	6.711186335	0.149004952	6.785279804	1.011040294
81° 31′ 40″	0.98908741	0.14732991	6.713419144	0.148955395	6.787488240	1.011032991
81° 31′ 50″	0.98909455	0.14728195	6.715653408	0.148905838	6.789698130	1.011025691
81° 32′ 00″	0.98910169	0.14723400	6.717889127	0.148856282	6.791909475	1.011018394
81° 32′ 10″	0.98910882	0.14718605	6.720126303	0.148806727	6.794122278	1.011011099
81° 32′ 20″	0.98911596	0.14713809	6.722364937	0.148757172	6.796336538	1.011003806
81° 32′ 30″	0.98912309	0.14709014	6.724605031	0.148707619	6.798552259	1.010996516
81° 32′ 40″	0.98913022	0.14704219	6.726846585	0.148658065	6.800769440	1.010989229
81° 32′ 50″	0.98913735	0.14699423	6.729089603	0.148608513	6.802988085	1.010981944
81° 33′ 00″	0.98914447	0.14694628	6.731334084	0.148558961	6.805208193	1.010974661
81° 33′ 10″	0.98915160	0.14689832	6.733580031	0.148509410	6.807429767	1.010967381
81° 33′ 20″	0.98915872	0.14685036	6.735827444	0.148459860	6.809652808	1.010960103
81° 33′ 30″	0.98916584	0.14680241	6.738076326	0.148410311	6.811877317	1.010952828
81° 33′ 40″	0.98917295	0.14675445	6.740326678	0.148360762	6.814103296	1.010945555
81° 33′ 50″	0.98918007	0.14670650	6.742578501	0.148311214	6.816330746	1.010938285
81° 34′ 00″	0.98918718	0.14665854	6.744831796	0.148261666	6.818559669	1.010931017
81° 34′ 10″	0.98919429	0.14661058	6.747086566	0.148212119	6.820790067	1.010923752
81° 34′ 20″	0.98920139	0.14656262	6.749342811	0.148162573	6.823021940	1.010916489
81° 34′ 30″	0.98920850	0.14651467	6.751600534	0.148113028	6.825255290	1.010909229
81° 34′ 40″ 81° 34′ 50″	0.98921560	0.14646671	6.753859735	0.148063484	6.827490118	1.010901971
81° 34′ 50″ 81° 35′ 00″	0.98922270	0.14641875	6.756120416	0.148013940 0.147964397	6.829726427	1.010894716
81° 35′ 00″ 81° 35′ 10″	0.98922980 0.98923689	0.14637079	6.758382578 6.760646223		6.831964217	1.010887463
81° 35′ 10″ 81° 35′ 20″	0.98923689	0.14632283		0.147914854	6.834203491	1.010880213 1.010872965
81° 35′ 20″ 81° 35′ 30″		0.14627487	6.762911353 6.765177968	0.147865312 0.147815771	6.836444249	1.0108/2965
81° 35′ 40″	0.98925108 0.98925816	0.14622691 0.14617895	6.765177968	0.14/815//1	6.838686492 6.840930223	1.010865719
81° 35′ 50″	0.98926525	0.14617893	6.767446071	0.147766231	6.843175443	1.010851236
=======================================	0.70720323	0.14013077	0./0//13002	0.14//10071	0.0431/3443	1.010031236

612 **81**° **35**′ **50**″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
81° 36′ 00″	0.98927233	0.14608303	6.771986744	0.147667153	6.845422154	1.010843998
81° 36′ 10″	0.98927941	0.14603507	6.774259318	0.147617614	6.847670356	1.010836762
81° 36′ 20″	0.98928649	0.14598711	6.776533384	0.147568077	6.849920051	1.010829529
81° 36′ 30″	0.98929357	0.14593914	6.778808946	0.147518540	6.852171242	1.010822299
81° 36′ 40″	0.98930064	0.14589118	6.781086004	0.147469004	6.854423928	1.010815071
81° 36′ 50″	0.98930772	0.14584322	6.783364559	0.147419469	6.856678113	1.010807845
81° 37′ 00″	0.98931478	0.14579525	6.785644614	0.147369934	6.858933796	1.010800622
81° 37′ 10″	0.98932185	0.14574729	6.787926169	0.147320400	6.861190981	1.010793401
81° 37′ 20″	0.98932892	0.14569933	6.790209226	0.147270867	6.863449667	1.010786183
81° 37′ 30″	0.98933598	0.14565136	6.792493787	0.147221335	6.865709858	1.010778968
81° 37′ 40″	0.98934304	0.14560340	6.794779853	0.147171803	6.867971553	1.010771754
81° 37′ 50″	0.98935010	0.14555543	6.797067426	0.147122272	6.870234756	1.010764544
81° 38′ 00″	0.98935715	0.14550747	6.799356507	0.147072741	6.872499466	1.010757335
81° 38′ 10″	0.98936421	0.14545950	6.801647098	0.147023212	6.874765687	1.010750130
81° 38′ 20″	0.98937126	0.14541154	6.803939200	0.146973683	6.877033418	1.010742926
81° 38′ 30″	0.98937831	0.14536357	6.806232814	0.146924154	6.879302662	1.010735726
81° 38′ 40″	0.98938535	0.14531560	6.808527943	0.146874627	6.881573421	1.010728527
81° 38′ 50″	0.98939240	0.14526764	6.810824587	0.146825100	6.883845695	1.010721331
81° 39′ 00″	0.98939944	0.14521967	6.813122749	0.146775574	6.886119487	1.010714138
81° 39′ 10″	0.98940648	0.14517170	6.815422429	0.146726048	6.888394797	1.010706947
81° 39′ 20″	0.98941351	0.14512373	6.817723629	0.146676523	6.890671628	1.010699759
81° 39′ 30″	0.98942055	0.14507577	6.820026352	0.146626999	6.892949981	1.010692573
81° 39′ 40″	0.98942758	0.14502780	6.822330597	0.146577476	6.895229857	1.010685389
81° 39′ 50″	0.98943461	0.14497983	6.824636367	0.146527953	6.897511257	1.010678209
81° 40′ 00″	0.98944164	0.14493186	6.826943664	0.146478432	6.899794185	1.010671030
81° 40′ 10″	0.98944866	0.14488389	6.829252488	0.146428910	6.902078640	1.010663854
81° 40′ 20″	0.98945569	0.14483592	6.831562842	0.146379390	6.904364624	1.010656680
81° 40′ 30″	0.98946271	0.14478795	6.833874727	0.146329870	6.906652140	1.010649509
81° 40′ 40″	0.98946973	0.14473998	6.836188144	0.146280351	6.908941188	1.010642341
81° 40′ 50″	0.98947674	0.14469201	6.838503095	0.146230832	6.911231770	1.010635175
81° 41′ 00″	0.98948376	0.14464404	6.840819581	0.146181315	6.913523888	1.010628011
81° 41′ 10″	0.98949077	0.14459606	6.843137605	0.146131798	6.915817543	1.010620850
81° 41′ 20″	0.98949778	0.14454809	6.845457167	0.146082281	6.918112736	1.010613691
81° 41′ 30″	0.98950478	0.14450012	6.847778270	0.146032766	6.920409470	1.010606535
81° 41′ 40″	0.98951179	0.14445215	6.850100914	0.145983251	6.922707745	1.010599381
81° 41′ 50″	0.98951879	0.14440417	6.852425101	0.145933737	6.925007564	1.010592230
81° 42′ 00″	0.98952579	0.14435620	6.854750833	0.145884223	6.927308928	1.010585081
81° 42′ 10″	0.98953279	0.14430823	6.857078111	0.145834710	6.929611838	1.010577935
81° 42′ 20″	0.98953978	0.14426025	6.859406938	0.145785198	6.931916296	1.010570791
81° 42′ 30″	0.98954677	0.14421228	6.861737313	0.145735687	6.934222304	1.010563650
81° 42′ 40″	0.98955376	0.14416430	6.864069240	0.145686176	6.936529862	1.010556511
81° 42′ 50″	0.98956075	0.14411633	6.866402719	0.145636666	6.938838974	1.010549375
81° 43′ 00″	0.98956774	0.14406835	6.868737753	0.145587157	6.941149639	1.010542241
81° 43′ 10″	0.98957472	0.14402038	6.871074342	0.145537648	6.943461860	1.010535109
81° 43′ 20″	0.98958170	0.14397240	6.873412488	0.145488140	6.945775639	1.010527980
81° 43′ 30″	0.98958868	0.14392443	6.875752193	0.145438633	6.948090976	1.010520854
81° 43′ 40″ 81° 43′ 50″	0.98959566	0.14387645	6.878093458	0.145389127	6.950407874	1.010513730
01 45 50"	0.98960263	0.14382847	6.880436286	0.145339621	6.952726334	1.010506608

613 **81° 43′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
81° 44′ 00″	0.98960960	0.14378049	6.882780677	0.145290116	6.955046358	1.010499489
81° 44′ 10″	0.98961657	0.14373252	6.885126633	0.145240611	6.957367947	1.010492373
81° 44′ 20″	0.98962354	0.14368454	6.887474155	0.145191107	6.959691102	1.010485259
81° 44′ 30″	0.98963051	0.14363656	6.889823246	0.145141604	6.962015826	1.010478147
81° 44′ 40″	0.98963747	0.14358858	6.892173907	0.145092102	6.964342120	1.010471038
81° 44′ 50″	0.98964443	0.14354060	6.894526139	0.145042600	6.966669985	1.010463931
81° 45′ 00″	0.98965139	0.14349262	6.896879945	0.144993099	6.968999424	1.010456827
81° 45′ 10″	0.98965834	0.14344464	6.899235325	0.144943599	6.971330437	1.010449725
81° 45′ 20″	0.98966530	0.14339666	6.901592281	0.144894100	6.973663027	1.010442626
81° 45′ 30″	0.98967225	0.14334868	6.903950815	0.144844601	6.975997194	1.010435529
81° 45′ 40″	0.98967920	0.14330070	6.906310928	0.144795103	6.978332941	1.010428435
81° 45′ 50″	0.98968614	0.14325272	6.908672622	0.144745605	6.980670269	1.010421343
81° 46′ 00″	0.98969309	0.14320474	6.911035899	0.144696108	6.983009179	1.010414254
81° 46′ 10″	0.98970003	0.14315676	6.913400760	0.144646612	6.985349674	1.010407167
81° 46′ 20″	0.98970697	0.14310877	6.915767207	0.144597117	6.987691755	1.010400082
81° 46′ 30″	0.98971390	0.14306079	6.918135241	0.144547622	6.990035423	1.010393000
81° 46′ 40″	0.98972084	0.14301281	6.920504864	0.144498128	6.992380680	1.010385921
81° 46′ 50″	0.98972777	0.14296483	6.922876078	0.144448635	6.994727528	1.010378844
81° 47′ 00″	0.98973470	0.14291684	6.925248885	0.144399142	6.997075969	1.010371769
81° 47′ 10″	0.98974163	0.14286886	6.927623284	0.144349651	6.999426003	1.010364697
81° 47′ 20″	0.98974855	0.14282087	6.929999280	0.144300159	7.001777633	1.010357628
81° 47′ 30″	0.98975548	0.14277289	6.932376873	0.144250669	7.004130860	1.010350561
81° 47′ 40″	0.98976240	0.14272490	6.934756064	0.144201179	7.006485686	1.010343496
81° 47′ 50″	0.98976931	0.14267692	6.937136855	0.144151690	7.008842112	1.010336434
81° 48′ 00″	0.98977623	0.14262893	6.939519249	0.144102201	7.011200140	1.010329374
81° 48′ 10″	0.98978314	0.14258095	6.941903246	0.144052714	7.013559772	1.010322317
81° 48′ 20″	0.98979006	0.14253296	6.944288849	0.144003227	7.015921009	1.010315262
81° 48′ 30″	0.98979696	0.14248498	6.946676058	0.143953740	7.018283854	1.010308210
81° 48′ 40″	0.98980387	0.14243699	6.949064875	0.143904254	7.020648306	1.010301160
81° 48′ 50″	0.98981078	0.14238900	6.951455303	0.143854769	7.023014370	1.010294113
81° 49′ 00″	0.98981768	0.14234101	6.953847343	0.143805285	7.025382044	1.010287068
81° 49′ 10″ 81° 49′ 20″	0.98982458	0.14229303	6.956240996	0.143755802 0.143706319	7.027751333	1.010280026
81° 49′ 30″	0.98983148	0.14224504 0.14219705	6.958636264 6.961033149	0.143706319	7.030122236 7.032494756	1.010272986 1.010265948
81° 49′ 40″	0.78783837	0.14214703	6.963431652	0.143607355	7.034868895	1.010253748
81° 49′ 50″	0.98985215	0.14214708	6.965831775	0.143557874	7.034868673	1.010251881
81° 50′ 00″	0.78783213	0.14210107	6.968233520	0.143508394	7.037244634	1.010231881
81° 50′ 10″	0.78783704	0.14200509	6.970636888	0.143458914	7.042001038	1.010244831
81° 50′ 20″	0.98987281	0.14200307	6.973041881	0.143409436	7.042001038	1.010237824
81° 50′ 30″	0.98987969	0.14173710	6.975448501	0.143359957	7.046763923	1.010230776
81° 50′ 40″	0.98988657	0.14186112	6.977856749	0.143310480	7.049147807	1.010223776
81° 50′ 50″	0.98989345	0.14181313	6.980266627	0.143261003	7.051533321	1.010209738
81° 51′ 00″	0.98990032	0.14176514	6.982678136	0.143211527	7.053920467	1.010202723
81° 51′ 10″	0.98990719	0.14171714	6.985091279	0.143162052	7.056309246	1.010195710
81° 51′ 20″	0.98991406	0.14166915	6.987506057	0.143112577	7.058699660	1.010188700
81° 51′ 30″	0.98992093	0.14162116	6.989922471	0.143063103	7.061091711	1.010181692
81° 51′ 40″	0.98992779	0.14157317	6.992340524	0.143013630	7.063485401	1.010174687
81° 51′ 50″	0.98993466	0.14152517	6.994760217	0.142964157	7.065880730	1.010167684
	1					

614 **81° 51′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	csc(x)
81° 52′ 00″	0.98994152	0.14147718	6.997181551	0.142914685	7.068277701	1.010160684
81° 52′ 10″	0.98994838	0.14142919	6.999604529	0.142865214	7.070676316	1.010153686
81° 52′ 20″	0.98995523	0.14138119	7.002029152	0.142815744	7.073076576	1.010146691
81° 52′ 30″	0.98996208	0.14133320	7.004455421	0.142766274	7.075478482	1.010139698
81° 52′ 40″	0.98996893	0.14128520	7.006883339	0.142716805	7.077882037	1.010132707
81° 52′ 50″	0.98997578	0.14123721	7.009312907	0.142667336	7.080287242	1.010125719
81° 53′ 00″	0.98998263	0.14118921	7.011744127	0.142617868	7.082694099	1.010118734
81° 53′ 10″	0.98998947	0.14114122	7.014177000	0.142568401	7.085102610	1.010111751
81° 53′ 20″	0.98999631	0.14109322	7.016611529	0.142518935	7.087512776	1.010104770
81° 53′ 30″	0.99000315	0.14104522	7.019047714	0.142469469	7.089924599	1.010097792
81° 53′ 40″	0.99000999	0.14099723	7.021485558	0.142420004	7.092338080	1.010090816
81° 53′ 50″	0.99001683	0.14094923	7.023925063	0.142370539	7.094753222	1.010083843
81° 54′ 00″	0.99002366	0.14090123	7.026366229	0.142321076	7.097170026	1.010076873
81° 54′ 10″	0.99003049	0.14085323	7.028809059	0.142271613	7.099588494	1.010069904
81° 54′ 20″	0.99003732	0.14080524	7.031253555	0.142222150	7.102008628	1.010062939
81° 54′ 30″	0.99004414	0.14075724	7.033699717	0.142172689	7.104430428	1.010055975
81° 54′ 40″	0.99005096	0.14070924	7.036147549	0.142123228	7.106853898	1.010049015
81° 54′ 50″	0.99005778	0.14066124	7.038597051	0.142073767	7.109279038	1.010042056
81° 55′ 00″	0.99006460	0.14061324	7.041048225	0.142024308	7.111705851	1.010035100
81° 55′ 10″	0.99007142	0.14056524	7.043501074	0.141974849	7.114134338	1.010028147
81° 55′ 20″	0.99007823	0.14051724	7.045955598	0.141925391	7.116564500	1.010021196
81° 55′ 30″	0.99008504	0.14046924	7.048411800	0.141875933	7.118996340	1.010014248
81° 55′ 40″	0.99009185	0.14042124	7.050869680	0.141826476	7.121429860	1.010007302
81° 55′ 50″	0.99009866	0.14037324	7.053329242	0.141777020	7.123865061	1.010000358
81° 56′ 00″	0.99010546	0.14032524	7.055790487	0.141727564	7.126301944	1.009993417
81° 56′ 10″	0.99011227	0.14027723	7.058253416	0.141678109	7.128740512	1.009986478
81° 56′ 20″	0.99011906	0.14022923	7.060718031	0.141628655	7.131180766	1.009979542
81° 56′ 30″	0.99012586	0.14018123	7.063184334	0.141579202	7.133622708	1.009972609
81° 56′ 40″	0.99013266	0.14013323	7.065652327	0.141529749	7.136066340	1.009965678
81° 56′ 50″	0.99013945	0.14008522	7.068122011	0.141480297	7.138511663	1.009958749
81° 57′ 00″	0.99014624	0.14003722	7.070593388	0.141430845	7.140958680	1.009951823
81° 57′ 10″	0.99015303	0.13998922	7.073066461	0.141381395	7.143407391	1.009944899
81° 57′ 20″ 81° 57′ 30″	0.99015981	0.13994121 0.13989321	7.075541230 7.078017697	0.141331944 0.141282495	7.145857800 7.148309906	1.009937978 1.009931059
81° 57′ 40″	0.99017338	0.13787321	7.080495865	0.141232473	7.150763714	1.009924142
81° 57′ 50″	0.99018016	0.13784320	7.082975734	0.141233046	7.153219223	1.009917228
81° 58′ 00″	0.99018693	0.13777720	7.085457307	0.141134151	7.155676436	1.007717228
81° 58′ 10″	0.99019371	0.13774717	7.087940586	0.141134131	7.158135354	1.007710317
81° 58′ 20″	0.99020048	0.13770117	7.090425572	0.141035258	7.160595980	1.007703408
81° 58′ 30″	0.99020725	0.13760517	7.092912267	0.140985813	7.163058315	1.007876362
81° 58′ 40″	0.99021402	0.13755717	7.095400673	0.140936368	7.165522361	1.009882696
81° 58′ 50″	0.99022078	0.13750717	7.097890791	0.140886924	7.167988120	1.009875797
81° 59′ 00″	0.99022754	0.13736716	7.100382624	0.140837481	7.170455593	1.009868900
81° 59′ 10″	0.99023430	0.13941314	7.102876173	0.140788038	7.172924782	1.009862006
81° 59′ 20″	0.99024106	0.13936514	7.105371440	0.140738596	7.175395689	1.009855115
81° 59′ 30″	0.99024782	0.13931713	7.107868426	0.140689155	7.177868316	1.009848225
81° 59′ 40″	0.99025457	0.13926912	7.110367134	0.140639714	7.180342665	1.009841339
81° 59′ 50″	0.99026132	0.13922111	7.112867566	0.140590274	7.182818737	1.009834454

615 **81° 59′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
82° 00′ 00″	0.99026807	0.13917310	7.115369722	0.140540835	7.185296534	1.009827573
82° 00′ 10″	0.99027481	0.13717510	7.117873606	0.140491396	7.187776059	1.007827575
82° 00′ 20″	0.99028156	0.13907708	7.120379218	0.140441958	7.190257312	1.009813816
82° 00′ 30″	0.99028830	0.13707700	7.120377210	0.140392521	7.170237312	1.009806942
82° 00′ 40″	0.99029504	0.13702707	7.125395635	0.140343084	7.172746273	1.009800070
82° 00′ 50″	0.99030178	0.13893305	7.127906444	0.140293648	7.173223611	1.007866676
82° 01′ 00″	0.99030851	0.13888504	7.130418989	0.140244213	7.200199647	1.009786333
82° 01′ 10″	0.99031524	0.13883703	7.132933272	0.140194778	7.202689571	1.009779469
82° 01′ 20″	0.99032197	0.13878901	7.135449294	0.140145345	7.205181235	1.009772607
82° 01′ 30″	0.99032870	0.13874100	7.137967058	0.140095911	7.207674640	1.009765747
82° 01′ 40″	0.99033543	0.13869299	7.140486565	0.140046479	7.210169789	1.009758890
82° 01′ 50″	0.99034215	0.13864498	7.143007816	0.139997047	7.212666682	1.009752035
82° 02′ 00″	0.99034887	0.13859696	7.145530815	0.139947616	7.215165322	1.009745183
82° 02′ 10″	0.99035559	0.13854895	7.148055562	0.139898185	7.217665711	1.009738334
82° 02′ 20″	0.99036230	0.13850094	7.150582060	0.139848755	7.220167851	1.009731486
82° 02′ 30″	0.99036902	0.13845292	7.153110310	0.139799326	7.222671743	1.009724641
82° 02′ 40″	0.99037573	0.13840491	7.155640315	0.139749897	7.225177390	1.009717799
82° 02′ 50″	0.99038244	0.13835689	7.158172075	0.139700470	7.227684792	1.009710959
82° 03′ 00″	0.99038914	0.13830888	7.160705593	0.139651042	7.230193952	1.009704122
82° 03′ 10″	0.99039585	0.13826086	7.163240871	0.139601616	7.232704873	1.009697287
82° 03′ 20″	0.99040255	0.13821284	7.165777910	0.139552190	7.235217554	1.009690454
82° 03′ 30″	0.99040925	0.13816483	7.168316713	0.139502765	7.237732000	1.009683624
82° 03′ 40″	0.99041595	0.13811681	7.170857281	0.139453340	7.240248210	1.009676797
82° 03′ 50″	0.99042264	0.13806879	7.173399616	0.139403916	7.242766188	1.009669972
82° 04′ 00″	0.99042933	0.13802078	7.175943720	0.139354493	7.245285934	1.009663149
82° 04′ 10″	0.99043602	0.13797276	7.178489595	0.139305071	7.247807452	1.009656329
82° 04′ 20″	0.99044271	0.13792474	7.181037242	0.139255649	7.250330742	1.009649511
82° 04′ 30″	0.99044940	0.13787672	7.183586664	0.139206228	7.252855807	1.009642696
82° 04′ 40″	0.99045608	0.13782871	7.186137863	0.139156807	7.255382649	1.009635883
82° 04′ 50″	0.99046276	0.13778069	7.188690839	0.139107387	7.257911269	1.009629073
82° 05′ 00″	0.99046944	0.13773267	7.191245596	0.139057968	7.260441669	1.009622265
82° 05′ 10″	0.99047612	0.13768465	7.193802135	0.139008549	7.262973851	1.009615460
82° 05′ 20″	0.99048279	0.13763663	7.196360458	0.138959132	7.265507817	1.009608657
82° 05′ 30″	0.99048946	0.13758861	7.198920566	0.138909714	7.268043569	1.009601857
82° 05′ 40″	0.99049613	0.13754059	7.201482462	0.138860298	7.270581108	1.009595059
82° 05′ 50″	0.99050280	0.13749257	7.204046148	0.138810882	7.273120438	1.009588263
82° 06′ 00″	0.99050946	0.13744455	7.206611625	0.138761467	7.275661558	1.009581470
82° 06′ 10″	0.99051613	0.13739652	7.209178895	0.138712052	7.278204472	1.009574679
82° 06′ 20″	0.99052279	0.13734850	7.211747961	0.138662638	7.280749182	1.009567891
82° 06′ 30″	0.99052944	0.13730048	7.214318823	0.138613225	7.283295688	1.009561106
82° 06′ 40″	0.99053610	0.13725246	7.216891485	0.138563813	7.285843994	1.009554323
82° 06′ 50″	0.99054275	0.13720444	7.219465948	0.138514401	7.288394101	1.009547542
82° 07′ 00″	0.99054940	0.13715641	7.222042213	0.138464990	7.290946010	1.009540764
82° 07′ 10″	0.99055605	0.13710839	7.224620283	0.138415579	7.293499725	1.009533988
82° 07′ 20″	0.99056270	0.13706037	7.227200160	0.138366169	7.296055246	1.009527214
82° 07′ 30″	0.99056934	0.13701234	7.229781845	0.138316760	7.298612576	1.009520444
82° 07′ 40″	0.99057598	0.13696432	7.232365341	0.138267351	7.301171716	1.009513675
82° 07′ 50″	0.99058262	0.13691629	7.234950649	0.138217943	7.303732668	1.009506909

616 **82° 07′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
82° 08′ 00″	0.99058926	0.13686827	7.237537771	0.138168536	7.306295435	1.009500146
82° 08′ 10″	0.99059589	0.13682024	7.240126710	0.138119130	7.308860019	1.009493385
82° 08′ 20″	0.99060252	0.13677222	7.242717466	0.138069724	7.311426420	1.009486626
82° 08′ 30″	0.99060915	0.13672419	7.245310043	0.138020319	7.313994642	1.009479870
82° 08′ 40″	0.99061578	0.13667616	7.247904442	0.137970914	7.316564686	1.009473117
82° 08′ 50″	0.99062241	0.13662814	7.250500664	0.137921510	7.319136553	1.009466365
82° 09′ 00″	0.99062903	0.13658011	7.253098713	0.137872107	7.321710247	1.009459617
82° 09′ 10″	0.99063565	0.13653208	7.255698589	0.137822704	7.324285768	1.009452871
82° 09′ 20″	0.99064227	0.13648406	7.258300295	0.137773302	7.326863120	1.009446127
82° 09′ 30″	0.99064888	0.13643603	7.260903833	0.137723901	7.329442303	1.009439385
82° 09′ 40″	0.99065550	0.13638800	7.263509204	0.137674500	7.332023320	1.009432647
82° 09′ 50″	0.99066211	0.13633997	7.266116411	0.137625100	7.334606172	1.009425910
82° 10′ 00″	0.99066872	0.13629194	7.268725456	0.137575701	7.337190862	1.009419176
82° 10′ 10″	0.99067532	0.13624391	7.271336340	0.137526302	7.339777392	1.009412445
82° 10′ 20″	0.99068193	0.13619588	7.273949065	0.137476904	7.342365763	1.009405716
82° 10′ 30″	0.99068853	0.13614785	7.276563634	0.137427507	7.344955978	1.009398989
82° 10′ 40″	0.99069513	0.13609982	7.279180048	0.137378110	7.347548038	1.009392265
82° 10′ 50″	0.99070173	0.13605179	7.281798310	0.137328714	7.350141946	1.009385544
82° 11′ 00″	0.99070832	0.13600376	7.284418421	0.137279319	7.352737703	1.009378825
82° 11′ 10″	0.99071491	0.13595573	7.287040383	0.137229924	7.355335311	1.009372108
82° 11′ 20″	0.99072150	0.13590770	7.289664198	0.137180530	7.357934773	1.009365394
82° 11′ 30″	0.99072809	0.13585967	7.292289869	0.137131137	7.360536090	1.009358682
82° 11′ 40″	0.99073468	0.13581164	7.294917397	0.137081744	7.363139264	1.009351973
82° 11′ 50″	0.99074126	0.13576361	7.297546784	0.137032352	7.365744298	1.009345266
82° 12′ 00″	0.99074784	0.13571557	7.300178032	0.136982961	7.368351193	1.009338561
82° 12′ 10″	0.99075442	0.13566754	7.302811143	0.136933570	7.370959951	1.009331859
82° 12′ 20″	0.99076100	0.13561951	7.305446120	0.136884180	7.373570574	1.009325160
82° 12′ 30″	0.99076757	0.13557147	7.308082964	0.136834790	7.376183065	1.009318463
82° 12′ 40″	0.99077414	0.13552344	7.310721677	0.136785402	7.378797424	1.009311769
82° 12′ 50″	0.99078071	0.13547540	7.313362261	0.136736013	7.381413656	1.009305076
82° 13′ 00″	0.99078728	0.13542737	7.316004718	0.136686626	7.384031760	1.009298387
82° 13′ 10″	0.99079384	0.13537933	7.318649050	0.136637239	7.386651739	1.009291700
82° 13′ 20″	0.99080040	0.13533130	7.321295260	0.136587853	7.389273596	1.009285015
82° 13′ 30″	0.99080696	0.13528326	7.323943349	0.136538467	7.391897332	1.009278333
82° 13′ 40″	0.99081352	0.13523523	7.326593319	0.136489083	7.394522950	1.009271653
82° 13′ 50″ 82° 14′ 00″	0.99082008	0.13518719	7.329245172	0.136439698	7.397150451	1.009264976
	0.99082663	0.13513916	7.331898910	0.136390315	7.399779837	1.009258301
82° 14′ 10″ 82° 14′ 20″	0.99083318	0.13509112	7.334554536	0.136340932	7.402411110	1.009251629
82° 14′ 30″	0.99083973	0.13504308	7.337212051	0.136291550	7.405044273	1.009244959
82° 14′ 40″	0.99084627	0.13499504 0.13494701	7.339871457	0.136242168	7.407679327 7.410316274	1.009238291
82° 14′ 40″ 82° 14′ 50″	0.99085282 0.99085936	0.13494701	7.342532757 7.345195952	0.136192787 0.136143407	7.410316274 7.412955118	1.009231626 1.009224964
82° 15′ 00″	0.99086590	0.13485093	7.345195952	0.136143407	7.412933118	1.009224964
82° 15′ 10″	0.99087243	0.13480289	7.347861043	0.136044648	7.413393838 7.418238498	1.009218304
82° 15′ 20″	0.99087897	0.13475485	7.353196930	0.135995270	7.410230470	1.009211646
82° 15′ 30″	0.99088550	0.13470681	7.355867727	0.135945892	7.420883040	1.009204991
82° 15′ 40″	0.99089203	0.13470881	7.358540430	0.135743672	7.425327463	1.007178338
82° 15′ 50″	0.99089856	0.13463677	7.361215040	0.135847139	7.428177836	1.00919188
02 13 30	0.77007030	0.13-010/3	7.301213040	0.13304/13/	7.720020073	1.00/103040

617 82° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
82° 16′ 00″	0.99090508	0.13456269	7.363891560	0.135797763	7.431480264	1.009178395
82° 16′ 10″	0.99091160	0.13451465	7.366569992	0.135748388	7.434134344	1.009171752
82° 16′ 20″	0.99091812	0.13446661	7.369250338	0.135699013	7.436790339	1.009165111
82° 16′ 30″	0.99092464	0.13441857	7.371932599	0.135649640	7.439448249	1.009158474
82° 16′ 40″	0.99093116	0.13437053	7.374616779	0.135600266	7.442108077	1.009151838
82° 16′ 50″	0.99093767	0.13432249	7.377302879	0.135550894	7.444769826	1.009145205
82° 17′ 00″	0.99094418	0.13427445	7.379990900	0.135501522	7.447433497	1.009138574
82° 17′ 10″	0.99095069	0.13422640	7.382680846	0.135452151	7.450099092	1.009131946
82° 17′ 20″	0.99095720	0.13417836	7.385372718	0.135402780	7.452766613	1.009125321
82° 17′ 30″	0.99096370	0.13413032	7.388066519	0.135353410	7.455436063	1.009118698
82° 17′ 40″	0.99097020	0.13408227	7.390762250	0.135304041	7.458107443	1.009112077
82° 17′ 50″	0.99097670	0.13403423	7.393459914	0.135254673	7.460780756	1.009105459
82° 18′ 00″	0.99098320	0.13398619	7.396159512	0.135205305	7.463456004	1.009098843
82° 18′ 10″	0.99098969	0.13393814	7.398861047	0.135155937	7.466133188	1.009092229
82° 18′ 20″	0.99099619	0.13389010	7.401564520	0.135106571	7.468812312	1.009085618
82° 18′ 30″	0.99100268	0.13384205	7.404269935	0.135057205	7.471493376	1.009079010
82° 18′ 40″	0.99100916	0.13379401	7.406977292	0.135007839	7.474176383	1.009072404
82° 18′ 50″	0.99101565	0.13374596	7.409686595	0.134958475	7.476861336	1.009065801
82° 19′ 00″	0.99102213	0.13369791	7.412397845	0.134909111	7.479548236	1.009059200
82° 19′ 10″	0.99102861	0.13364987	7.415111044	0.134859747	7.482237085	1.009052601
82° 19′ 20″	0.99103509	0.13360182	7.417826195	0.134810384	7.484927886	1.009046005
82° 19′ 30″	0.99104157	0.13355377	7.420543300	0.134761022	7.487620641	1.009039411
82° 19′ 40″	0.99104804	0.13350573	7.423262360	0.134711661	7.490315351	1.009032820
82° 19′ 50″	0.99105451	0.13345768	7.425983378	0.134662300	7.493012019	1.009026231
82° 20′ 00″	0.99106098	0.13340963	7.428706355	0.134612940	7.495710648	1.009019645
82° 20′ 10″	0.99106745	0.13336158	7.431431295	0.134563580	7.498411238	1.009013061
82° 20′ 20″	0.99107391	0.13331354	7.434158200	0.134514221	7.501113793	1.009006480
82° 20′ 30″	0.99108038	0.13326549	7.436887070	0.134464863	7.503818314	1.008999901
82° 20′ 40″	0.99108683	0.13321744	7.439617909	0.134415505	7.506524804	1.008993324
82° 20′ 50″	0.99109329	0.13316939	7.442350719	0.134366148	7.509233265	1.008986750
82° 21′ 00″	0.99109975	0.13312134	7.445085501	0.134316792	7.511943698	1.008980178
82° 21′ 10″	0.99110620	0.13307329	7.447822259	0.134267436	7.514656106	1.008973609
82° 21′ 20″	0.99111265	0.13302524	7.450560993	0.134218081	7.517370492	1.008967043
82° 21′ 30″	0.99111910	0.13297719	7.453301707	0.134168727	7.520086857	1.008960479
82° 21′ 40″	0.99112554	0.13292914	7.456044402	0.134119373	7.522805203	1.008953917
82° 21′ 50″	0.99113199	0.13288109	7.458789081	0.134070020	7.525525533	1.008947358
82° 22′ 00″	0.99113843	0.13283303	7.461535745	0.134020667	7.528247849	1.008940801
82° 22′ 10″	0.99114487	0.13278498	7.464284398	0.133971315	7.530972153	1.008934246
82° 22′ 20″	0.99115130	0.13273693	7.467035040	0.133921964	7.533698447	1.008927694
82° 22′ 30″	0.99115774	0.13268888	7.469787675	0.133872614	7.536426733	1.008921145
82° 22′ 40″	0.99116417	0.13264082	7.472542304	0.133823264	7.539157014	1.008914598
82° 22′ 50″	0.99117060	0.13259277	7.475298930	0.133773915	7.541889292	1.008908053
82° 23′ 00″	0.99117703	0.13254472	7.478057554	0.133724566	7.544623568	1.008901511
82° 23′ 10″	0.99118345	0.13249666	7.480818180	0.133675218	7.547359846	1.008894972
82° 23′ 20″	0.99118987	0.13244861	7.483580808	0.133625871	7.550098126	1.008888434
82° 23′ 30″	0.99119629	0.13240056	7.486345442	0.133576524	7.552838412	1.008881900
82° 23′ 40″	0.99120271	0.13235250	7.489112084	0.133527178	7.555580706	1.008875368
82° 23′ 50″	0.99120913	0.13230445	7.491880736	0.133477832	7.558325010	1.008868838

618 **82° 23′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
82° 24′ 00″	0.99121554	0.13225639	7.494651399	0.133428487	7.561071326	1.008862310
82° 24′ 10″	0.99122195	0.13220833	7.497424076	0.133379143	7.563819656	1.008855785
82° 24′ 20″	0.99122836	0.13216028	7.500198770	0.133329800	7.566570002	1.008849263
82° 24′ 30″	0.99123477	0.13211222	7.502975483	0.133280457	7.569322367	1.008842743
82° 24′ 40″	0.99124117	0.13206417	7.505754216	0.133231115	7.572076753	1.008836226
82° 24′ 50″	0.99124757	0.13201611	7.508534973	0.133181773	7.574833162	1.008829710
82° 25′ 00″	0.99125397	0.13196805	7.511317754	0.133132432	7.577591597	1.008823198
82° 25′ 10″	0.99126037	0.13191999	7.514102564	0.133083092	7.580352059	1.008816688
82° 25′ 20″	0.99126676	0.13187194	7.516889402	0.133033752	7.583114551	1.008810180
82° 25′ 30″	0.99127315	0.13182388	7.519678273	0.132984413	7.585879074	1.008803675
82° 25′ 40″	0.99127954	0.13177582	7.522469178	0.132935074	7.588645633	1.008797172
82° 25′ 50″	0.99128593	0.13172776	7.525262120	0.132885737	7.591414227	1.008790672
82° 26′ 00″	0.99129232	0.13167970	7.528057100	0.132836399	7.594184861	1.008784174
82° 26′ 10″	0.99129870	0.13163164	7.530854121	0.132787063	7.596957535	1.008777678
82° 26′ 20″	0.99130508	0.13158358	7.533653185	0.132737727	7.599732253	1.008771185
82° 26′ 30″	0.99131146	0.13153552	7.536454295	0.132688392	7.602509016	1.008764695
82° 26′ 40″	0.99131783	0.13148746	7.539257452	0.132639057	7.605287827	1.008758207
82° 26′ 50″	0.99132421	0.13143940	7.542062659	0.132589723	7.608068687	1.008751721
82° 27′ 00″	0.99133058	0.13139134	7.544869918	0.132540390	7.610851601	1.008745238
82° 27′ 10″	0.99133695	0.13134328	7.547679232	0.132491057	7.613636568	1.008738757
82° 27′ 20″	0.99134331	0.13129522	7.550490603	0.132441725	7.616423593	1.008732279
82° 27′ 30″	0.99134968	0.13124716	7.553304033	0.132392394	7.619212676	1.008725803
82° 27′ 40″	0.99135604	0.13119909	7.556119523	0.132343063	7.622003821	1.008719330
82° 27′ 50″	0.99136240	0.13115103	7.558937078	0.132293733	7.624797030	1.008712859
82° 28′ 00″	0.99136876	0.13110297	7.561756698	0.132244403	7.627592304	1.008706390
82° 28′ 10″	0.99137511	0.13105491	7.564578387	0.132195074	7.630389647	1.008699924
82° 28′ 20″	0.99138146	0.13100684	7.567402145	0.132145746	7.633189060	1.008693461
82° 28′ 30″	0.99138781	0.13095878	7.570227977	0.132096418	7.635990546	1.008687000
82° 28′ 40″	0.99139416	0.13091072	7.573055883	0.132047091	7.638794107	1.008680541
82° 28′ 50″	0.99140051	0.13086265	7.575885867	0.131997765	7.641599746	1.008674085
82° 29′ 00″	0.99140685	0.13081459	7.578717931	0.131948439	7.644407464	1.008667631
82° 29′ 10″ 82° 29′ 20″	0.99141319 0.99141953	0.13076652 0.13071846	7.581552076	0.131899114 0.131849789	7.647217264 7.650029148	1.008661180
82° 29′ 30″	0.99141933	0.13071848	7.584388306 7.587226622	0.131800465	7.652843120	1.008654731 1.008648285
82° 29′ 40″	0.99143220	0.13067037	7.590067027	0.131751142	7.655659179	1.008641841
82° 29′ 50″	0.99143853	0.13062232	7.592909523	0.131731142	7.658477331	1.008635400
82° 30′ 00″	0.77143833	0.13057426	7.595754113	0.131761826	7.661297576	1.008628961
82° 30′ 10″	0.99145119	0.13032817	7.598600798	0.131603176	7.664119916	1.008622524
82° 30′ 20″	0.99145751	0.13047013	7.601449582	0.131553856	7.666944355	1.008616090
82° 30′ 30″	0.99146384	0.13038199	7.604300466	0.131504535	7.669770895	1.008609658
82° 30′ 40″	0.99147016	0.13033392	7.607153453	0.131455216	7.672599537	1.008603229
82° 30′ 50″	0.99147647	0.13028586	7.610008545	0.131405897	7.675430285	1.008596802
82° 31′ 00″	0.99148279	0.13023779	7.612865745	0.131356579	7.678263140	1.008590378
82° 31′ 10″	0.99148910	0.13018972	7.615725054	0.131307261	7.681098105	1.008583956
82° 31′ 20″	0.99149541	0.13014165	7.618586476	0.131257944	7.683935183	1.008577537
82° 31′ 30″	0.99150172	0.13009358	7.621450012	0.131208628	7.686774375	1.008571120
82° 31′ 40″	0.99150803	0.13004551	7.624315666	0.131159312	7.689615684	1.008564706
82° 31′ 50″	0.99151433	0.12999744	7.627183438	0.131109997	7.692459113	1.008558294

619 **82° 31′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
82° 32′ 00″	0.99152063	0.12994937	7.630053332	0.131060683	7.695304663	1.008551884
82° 32′ 10″	0.99152693	0.12990130	7.632925350	0.131011369	7.698152337	1.008545477
82° 32′ 20″	0.99153323	0.12985323	7.635799495	0.130962056	7.701002138	1.008539072
82° 32′ 30″	0.99153952	0.12980516	7.638675768	0.130912743	7.703854068	1.008532670
82° 32′ 40″	0.99154581	0.12975709	7.641554173	0.130863431	7.706708128	1.008526270
82° 32′ 50″	0.99155210	0.12970902	7.644434711	0.130814120	7.709564323	1.008519873
82° 33′ 00″	0.99155839	0.12966094	7.647317385	0.130764809	7.712422653	1.008513478
82° 33′ 10″	0.99156467	0.12961287	7.650202197	0.130715499	7.715283122	1.008507086
82° 33′ 20″	0.99157096	0.12956480	7.653089150	0.130666190	7.718145732	1.008500696
82° 33′ 30″	0.99157724	0.12951673	7.655978246	0.130616881	7.721010485	1.008494308
82° 33′ 40″	0.99158352	0.12946865	7.658869488	0.130567573	7.723877383	1.008487923
82° 33′ 50″	0.99158979	0.12942058	7.661762877	0.130518265	7.726746430	1.008481541
82° 34′ 00″	0.99159606	0.12937251	7.664658417	0.130468958	7.729617626	1.008475160
82° 34′ 10″	0.99160234	0.12932443	7.667556110	0.130419652	7.732490976	1.008468783
82° 34′ 20″	0.99160860	0.12927636	7.670455957	0.130370346	7.735366481	1.008462407
82° 34′ 30″	0.99161487	0.12922828	7.673357962	0.130321041	7.738244143	1.008456035
82° 34′ 40″	0.99162113	0.12918021	7.676262128	0.130271737	7.741123966	1.008449664
82° 34′ 50″	0.99162740	0.12913213	7.679168455	0.130222433	7.744005951	1.008443296
82° 35′ 00″	0.99163366	0.12908406	7.682076948	0.130173130	7.746890101	1.008436931
82° 35′ 10″	0.99163991	0.12903598	7.684987607	0.130123827	7.749776418	1.008430568
82° 35′ 20″	0.99164617	0.12898790	7.687900437	0.130074525	7.752664905	1.008424207
82° 35′ 30″	0.99165242	0.12893983	7.690815438	0.130025224	7.755555564	1.008417849
82° 35′ 40″	0.99165867	0.12889175	7.693732615	0.129975923	7.758448398	1.008411494
82° 35′ 50″	0.99166492	0.12884367	7.696651968	0.129926623	7.761343409	1.008405141
82° 36′ 00″	0.99167116	0.12879560	7.699573500	0.129877324	7.764240600	1.008398790
82° 36′ 10″	0.99167741	0.12874752	7.702497215	0.129828025	7.767139972	1.008392441
82° 36′ 20″	0.99168365	0.12869944	7.705423114	0.129778727	7.770041529	1.008386096
82° 36′ 30″	0.99168988	0.12865136	7.708351200	0.129729429	7.772945273	1.008379752
82° 36′ 40″	0.99169612	0.12860328	7.711281475	0.129680132	7.775851207	1.008373411
82° 36′ 50″	0.99170235	0.12855520	7.714213942	0.129630836	7.778759332	1.008367073
82° 37′ 00″	0.99170859	0.12850713	7.717148604	0.129581540	7.781669652	1.008360737
82° 37′ 10″	0.99171481	0.12845905	7.720085462	0.129532245	7.784582169	1.008354403
82° 37′ 20″	0.99172104	0.12841097	7.723024519	0.129482950	7.787496884	1.008348072
82° 37′ 30″	0.99172727	0.12836289	7.725965778	0.129433656	7.790413802	1.008341743
82° 37′ 40″	0.99173349	0.12831481	7.728909242	0.129384363	7.793332924	1.008335417
82° 37′ 50″	0.99173971	0.12826672	7.731854912	0.129335070	7.796254253	1.008329093
82° 38′ 00″	0.99174592	0.12821864	7.734802791	0.129285778	7.799177791	1.008322772
82° 38′ 10″	0.99175214	0.12817056	7.737752882	0.129236487	7.802103541	1.008316453
82° 38′ 20″	0.99175835	0.12812248	7.740705187	0.129187196	7.805031505	1.008310137
82° 38′ 30″	0.99176456	0.12807440	7.743659709	0.129137906	7.807961685	1.008303823
82° 38′ 40″	0.99177077	0.12802632	7.746616450	0.129088616	7.810894086	1.008297511
82° 38′ 50″	0.99177698	0.12797823	7.749575412	0.129039328	7.813828708	1.008291202
82° 39′ 00″	0.99178318	0.12793015	7.752536599	0.128990039	7.816765554	1.008284895
82° 39′ 10″	0.99178938	0.12788207	7.755500013	0.128940752	7.819704627	1.008278591
82° 39′ 20″	0.99179558	0.12783398	7.758465656	0.128891464	7.822645930	1.008272289
82° 39′ 30″	0.99180178	0.12778590	7.761433531	0.128842178	7.825589464	1.008265990
82° 39′ 40″ 82° 39′ 50″	0.99180797	0.12773782	7.764403641	0.128792892	7.828535233	1.008259693
<u>84° 39° 30″</u>	0.99181416	0.12768973	7.767375987	0.128743607	7.831483239	1.008253399

620 **82° 39′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
82° 40′ 00″	0.99182035	0.12764165	7.770350573	0.128694322	7.834433484	1.008247107
82° 40′ 10″	0.99182654	0.12759356	7.773327400	0.128645038	7.837385972	1.008247107
82° 40′ 20″	0.99183272	0.12754548	7.776306473	0.128595755	7.840340704	1.008234530
82° 40′ 30″	0.99183891	0.12749739	7.779287792	0.128546472	7.843297683	1.008228246
82° 40′ 40″	0.99184509	0.12744931	7.782271361	0.128497190	7.846256912	1.008221964
82° 40′ 50″	0.99185126	0.12740122	7.785257182	0.128447908	7.849218394	1.008215684
82° 41′ 00″	0.99185744	0.12735313	7.788245258	0.128398627	7.852182130	1.008209407
82° 41′ 10″	0.99186361	0.12730505	7.791235592	0.128349347	7.855148124	1.008203132
82° 41′ 20″	0.99186978	0.12725696	7.794228185	0.128300067	7.858116377	1.008196859
82° 41′ 30″	0.99187595	0.12720887	7.797223041	0.128250788	7.861086894	1.008190589
82° 41′ 40″	0.99188212	0.12716078	7.800220162	0.128201510	7.864059675	1.008184322
82° 41′ 50″	0.99188828	0.12711270	7.803219550	0.128152232	7.867034724	1.008178057
82° 42′ 00″	0.99189444	0.12706461	7.806221209	0.128102954	7.870012044	1.008171794
82° 42′ 10″	0.99190060	0.12701652	7.809225141	0.128053678	7.872991636	1.008165534
82° 42′ 20″	0.99190676	0.12696843	7.812231348	0.128004402	7.875973504	1.008159277
82° 42′ 30″	0.99191291	0.12692034	7.815239833	0.127955126	7.878957650	1.008153021
82° 42′ 40″	0.99191907	0.12687225	7.818250599	0.127905851	7.881944077	1.008146769
82° 42′ 50″	0.99192521	0.12682416	7.821263648	0.127856577	7.884932787	1.008140518
82° 43′ 00″	0.99193136	0.12677607	7.824278983	0.127807304	7.887923783	1.008134270
82° 43′ 10″	0.99193751	0.12672798	7.827296607	0.127758031	7.890917068	1.008128025
82° 43′ 20″	0.99194365	0.12667989	7.830316521	0.127708758	7.893912643	1.008121782
82° 43′ 30″	0.99194979	0.12663180	7.833338730	0.127659487	7.896910513	1.008115541
82° 43′ 40″	0.99195593	0.12658371	7.836363234	0.127610215	7.899910679	1.008109303
82° 43′ 50″	0.99196206	0.12653562	7.839390038	0.127560945	7.902913144	1.008103067
82° 44′ 00″	0.99196820	0.12648753	7.842419143	0.127511675	7.905917911	1.008096834
82° 44′ 10″	0.99197433	0.12643943	7.845450553	0.127462406	7.908924982	1.008090603
82° 44′ 20″	0.99198046	0.12639134	7.848484269	0.127413137	7.911934361	1.008084375
82° 44′ 30″	0.99198658	0.12634325	7.851520296	0.127363869	7.914946049	1.008078149
82° 44′ 40″	0.99199271	0.12629516	7.854558634	0.127314601	7.917960049	1.008071926
82° 44′ 50″	0.99199883	0.12624706	7.857599287	0.127265334	7.920976364	1.008065705
82° 45′ 00″	0.99200495	0.12619897	7.860642258	0.127216068	7.923994997	1.008059486
82° 45′ 10″	0.99201107	0.12615088	7.863687549	0.127166802	7.927015950	1.008053270
82° 45′ 20″	0.99201718	0.12610278	7.866735163	0.127117537	7.930039225	1.008047057
82° 45′ 30″	0.99202329	0.12605469	7.869785102	0.127068273	7.933064827	1.008040845
82° 45′ 40″	0.99202940	0.12600659	7.872837370	0.127019009	7.936092757	1.008034637
82° 45′ 50″	0.99203551	0.12595850	7.875891968	0.126969746	7.939123018	1.008028430
82° 46′ 00″	0.99204162	0.12591040	7.878948900	0.126920483	7.942155612	1.008022226
82° 46′ 10″	0.99204772	0.12586231	7.882008168	0.126871221	7.945190543	1.008016025
82° 46′ 20″	0.99205382	0.12581421	7.885069776	0.126821960	7.948227813	1.008009826
82° 46′ 30″	0.99205992	0.12576611	7.888133725	0.126772699	7.951267425	1.008003630
82° 46′ 40″	0.99206602	0.12571802	7.891200018	0.126723438	7.954309381	1.007997435
82° 46′ 50″	0.99207211	0.12566992	7.894268659	0.126674179	7.957353684	1.007991244
82° 47′ 00″	0.99207820	0.12562182	7.897339649	0.126624920	7.960400337	1.007985055
82° 47′ 10″	0.99208429	0.12557373	7.900412992	0.126575661	7.963449343	1.007978868
82° 47′ 20″	0.99209038	0.12552563	7.903488690	0.126526404	7.966500704	1.007972684
82° 47′ 30″	0.99209646	0.12547753	7.906566746	0.126477146	7.969554423	1.007966502
82° 47′ 40″	0.99210254	0.12542943	7.909647162	0.126427890	7.972610503	1.007960322
82° 47′ 50″	0.99210862	0.12538133	7.912729942	0.126378634	7.975668946	1.007954145

621 **82° 47′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
82° 48′ 00″	0.99211470	0.12533323	7.915815088	0.126329378	7.978729756	1.007947971
82° 48′ 10″	0.99212078	0.12528513	7.918902603	0.126280124	7.981792934	1.007941799
82° 48′ 20″	0.99212685	0.12523703	7.921992490	0.126230869	7.984858484	1.007935629
82° 48′ 30″	0.99213292	0.12518894	7.925084751	0.126181616	7.987926409	1.007929462
82° 48′ 40″	0.99213899	0.12514083	7.928179389	0.126132363	7.990996710	1.007923297
82° 48′ 50″	0.99214505	0.12509273	7.931276407	0.126083111	7.994069392	1.007723277
82° 49′ 00″	0.99215112	0.12504463	7.934375808	0.126033859	7.997144457	1.007910975
82° 49′ 10″	0.99215718	0.12499653	7.937477594	0.125984608	8.000221907	1.007904818
82° 49′ 20″	0.99216324	0.12494843	7.940581768	0.125935357	8.003301745	1.007898663
82° 49′ 30″	0.99216929	0.12490033	7.943688333	0.125886107	8.006383974	1.007892510
82° 49′ 40″	0.99217535	0.12485223	7.946797292	0.125836858	8.009468597	1.007886360
82° 49′ 50″	0.99218140	0.12480413	7.949908648	0.125787609	8.012555616	1.007880212
82° 50′ 00″	0.99218745	0.12475602	7.953022402	0.125738361	8.015645035	1.007874067
82° 50′ 10″	0.99219350	0.12470792	7.956138559	0.125689113	8.018736856	1.007867924
82° 50′ 20″	0.99219954	0.12465982	7.959257121	0.125639866	8.021831083	1.007861784
82° 50′ 30″	0.99220558	0.12461171	7.962378090	0.125590620	8.024927716	1.007855646
82° 50′ 40″	0.99221162	0.12456361	7.965501470	0.125541374	8.028026761	1.007849511
82° 50′ 50″	0.99221766	0.12451551	7.968627263	0.125492129	8.031128219	1.007843378
82° 51′ 00″	0.99222370	0.12446740	7.971755473	0.125442884	8.034232092	1.007837247
82° 51′ 10″	0.99222973	0.12441930	7.974886101	0.125393640	8.037338385	1.007831119
82° 51′ 20″	0.99223576	0.12437119	7.978019151	0.125344397	8.040447100	1.007824994
82° 51′ 30″	0.99224179	0.12432309	7.981154625	0.125295154	8.043558240	1.007818870
82° 51′ 40″	0.99224782	0.12427498	7.984292527	0.125245912	8.046671806	1.007812750
82° 51′ 50″	0.99225384	0.12422688	7.987432859	0.125196671	8.049787804	1.007806631
82° 52′ 00″	0.99225986	0.12417877	7.990575625	0.125147430	8.052906234	1.007800516
82° 52′ 10″	0.99226588	0.12413066	7.993720826	0.125098189	8.056027100	1.007794402
82° 52′ 20″	0.99227190	0.12408256	7.996868466	0.125048949	8.059150405	1.007788291
82° 52′ 30″	0.99227791	0.12403445	8.000018547	0.124999710	8.062276152	1.007782183
82° 52′ 40″	0.99228392	0.12398634	8.003171073	0.124950472	8.065404344	1.007776076
82° 52′ 50″	0.99228993	0.12393824	8.006326047	0.124901234	8.068534983	1.007769973
82° 53′ 00″	0.99229594	0.12389013	8.009483470	0.124851996	8.071668072	1.007763872
82° 53′ 10″	0.99230195	0.12384202	8.012643347	0.124802759	8.074803614	1.007757773
82° 53′ 20″	0.99230795	0.12379391	8.015805680	0.124753523	8.077941612	1.007751677
82° 53′ 30″	0.99231395	0.12374580	8.018970471	0.124704288	8.081082069	1.007745583
82° 53′ 40″	0.99231995	0.12369770	8.022137724	0.124655053	8.084224988	1.007739491
82° 53′ 50″	0.99232594	0.12364959	8.025307442	0.124605818	8.087370372	1.007733402
82° 54′ 00″	0.99233194	0.12360148	8.028479627	0.124556584	8.090518223	1.007727316
82° 54′ 10″	0.99233793	0.12355337	8.031654283	0.124507351	8.093668545	1.007721232
82° 54′ 20″	0.99234392	0.12350526	8.034831412	0.124458119	8.096821340	1.007715150
82° 54′ 30″	0.99234990	0.12345715	8.038011017	0.124408886	8.099976611	1.007709071
82° 54′ 40″	0.99235589	0.12340904	8.041193101	0.124359655	8.103134362	1.007702994
82° 54′ 50″	0.99236187	0.12336093	8.044377667	0.124310424	8.106294595	1.007696919
82° 55′ 00″	0.99236785	0.12331281	8.047564718	0.124261194	8.109457312	1.007690848
82° 55′ 10″	0.99237383	0.12326470	8.050754258	0.124211964	8.112622518	1.007684778
82° 55′ 20″	0.99237980	0.12321659	8.053946287	0.124162735	8.115790214	1.007678711
82° 55′ 30″	0.99238577	0.12316848	8.057140811	0.124113507	8.118960404	1.007672647
82° 55′ 40″	0.99239174	0.12312037	8.060337831	0.124064279	8.122133091	1.007666584
82° 55′ 50″	0.99239771	0.12307225	8.063537351	0.124015052	8.125308278	1.007660525

622 **82° 55′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
82° 56′ 00″	0.99240368	0.12302414	8.066739374	0.123965825	8.128485967	1.007654467
82° 56′ 10″	0.99240964	0.12297603	8.069943902	0.123916599	8.131666162	1.007648413
82° 56′ 20″	0.99241560	0.12292791	8.073150938	0.123867373	8.134848866	1.007642360
82° 56′ 30″	0.99242156	0.12287980	8.076360486	0.123818148	8.138034081	1.007636310
82° 56′ 40″	0.99242752	0.12283169	8.079572548	0.123768924	8.141221810	1.007630263
82° 56′ 50″	0.99243347	0.12278357	8.082787128	0.123719700	8.144412057	1.007624218
82° 57′ 00″	0.99243942	0.12273546	8.086004228	0.123670477	8.147604824	1.007618175
82° 57′ 10″	0.99244537	0.12268734	8.089223851	0.123621254	8.150800115	1.007612135
82° 57′ 20″	0.99245132	0.12263923	8.092446001	0.123572032	8.153997932	1.007606097
82° 57′ 30″	0.99245726	0.12259111	8.095670680	0.123522811	8.157198279	1.007600062
82° 57′ 40″	0.99246321	0.12254300	8.098897891	0.123473590	8.160401157	1.007594029
82° 57′ 50″	0.99246915	0.12249488	8.102127638	0.123424370	8.163606572	1.007587999
82° 58′ 00″	0.99247508	0.12244676	8.105359922	0.123375150	8.166814524	1.007581971
82° 58′ 10″	0.99248102	0.12239865	8.108594749	0.123325931	8.170025018	1.007575945
82° 58′ 20″	0.99248695	0.12235053	8.111832119	0.123276713	8.173238057	1.007569922
82° 58′ 30″	0.99249288	0.12230241	8.115072037	0.123227495	8.176453642	1.007563901
82° 58′ 40″	0.99249881	0.12225429	8.118314505	0.123178278	8.179671778	1.007557883
82° 58′ 50″	0.99250474	0.12220618	8.121559527	0.123129061	8.182892468	1.007551868
82° 59′ 00″	0.99251066	0.12215806	8.124807105	0.123079845	8.186115714	1.007545854
82° 59′ 10″	0.99251658	0.12210994	8.128057242	0.123030630	8.189341520	1.007539843
82° 59′ 20″	0.99252250	0.12206182	8.131309942	0.122981415	8.192569888	1.007533835
82° 59′ 30″	0.99252842	0.12201370	8.134565208	0.122932200	8.195800822	1.007527829
82° 59′ 40″	0.99253433	0.12196558	8.137823042	0.122882987	8.199034325	1.007521825
82° 59′ 50″	0.99254024	0.12191746	8.141083447	0.122833773	8.202270399	1.007515824
83° 00′ 00″	0.99254615	0.12186934	8.144346428	0.122784561	8.205509048	1.007509825
83° 00′ 10″	0.99255206	0.12182122	8.147611986	0.122735349	8.208750275	1.007503829
83° 00′ 20″	0.99255796	0.12177310	8.150880125	0.122686138	8.211994083	1.007497835
83° 00′ 30″	0.99256387	0.12172498	8.154150848	0.122636927	8.215240475	1.007491844
83° 00′ 40″	0.99256977	0.12167686	8.157424159	0.122587716	8.218489454	1.007485855
83° 00′ 50″	0.99257566	0.12162874	8.160700059	0.122538507	8.221741023	1.007479869
83° 01′ 00″	0.99258156	0.12158062	8.163978552	0.122489298	8.224995185	1.007473885
83° 01′ 10″	0.99258745	0.12153250	8.167259642	0.122440089	8.228251944	1.007467903
83° 01′ 20″	0.99259334	0.12148437	8.170543331	0.122390881	8.231511302	1.007461924
83° 01′ 30″	0.99259923	0.12143625	8.173829622	0.122341674	8.234773263	1.007455947
83° 01′ 40″	0.99260512	0.12138813	8.177118520	0.122292467	8.238037830	1.007449973
83° 01′ 50″ 83° 02′ 00″	0.99261100	0.12134001	8.180410025	0.122243261	8.241305005	1.007444001
83° 02′ 10″		0.12129188	8.183704143	0.122194056	8.244574792	1.007438031
83° 02′ 10″ 83° 02′ 20″	0.99262276	0.12124376 0.12119564	8.187000876 8.190300227	0.122144851	8.247847194	1.007432064
83° 02′ 30″	0.99263452	0.12119364	8.190300227	0.122095646 0.122046443	8.251122215 8.254399857	1.007426100 1.007420138
83° 02′ 40″	0.99264039	0.12114731	8.196906795	0.122046443	8.257680123	1.007420138
83° 02′ 50″	0.99264626	0.12107737	8.200214019	0.121777237	8.260963016	1.007414178
83° 03′ 00″	0.99265212	0.12103126	8.200214017	0.121748037	8.264248541	1.007408221
83° 03′ 10″	0.99265799	0.12100314	8.206836362	0.121849633	8.267536699	1.007402266
83° 03′ 20″	0.99266385	0.12073301	8.210151487	0.121847633	8.270827495	1.007376314
83° 03′ 30″	0.77266383	0.12070887	8.213469253	0.121751232	8.274120930	1.007370304
83° 03′ 40″	0.99267557	0.12083878	8.216789662	0.121702032	8.277417009	1.007378471
83° 03′ 50″	0.99268143	0.12076251	8.220112717	0.121762632	8.280715735	1.007372529
	0.77200173	0.120/0231	5,220112/1/	2.121032033	3,200/ 13/33	1.00/3/232/

623 83° 03′ 50″

	• ()					
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
83° 04′ 00″	0.99268728	0.12071438	8.223438422	0.121603634	8.284017110	1.007366589
83° 04′ 10″	0.99269313	0.12066625	8.226766780	0.121554436	8.287321139	1.007360651
83° 04′ 20″	0.99269898	0.12061813	8.230097794	0.121505239	8.290627823	1.007354716
83° 04′ 30″	0.99270483	0.12057000	8.233431467	0.121456042	8.293937167	1.007348783
83° 04′ 40″	0.99271067	0.12052187	8.236767803	0.121406846	8.297249173	1.007342852
83° 04′ 50″	0.99271651	0.12047374	8.240106804	0.121357650	8.300563845	1.007336924
83° 05′ 00″	0.99272235	0.12042562	8.243448475	0.121308455	8.303881186	1.007330999
83° 05′ 10″	0.99272819	0.12037749	8.246792817	0.121259261	8.307201199	1.007325076
83° 05′ 20″	0.99273403	0.12032936	8.250139835	0.121210067	8.310523888	1.007319155
83° 05′ 30″	0.99273986	0.12028123	8.253489531	0.121160873	8.313849255	1.007313237
83° 05′ 40″	0.99274569	0.12023310	8.256841909	0.121111681	8.317177304	1.007307321
83° 05′ 50″	0.99275152	0.12018497	8.260196972	0.121062488	8.320508038	1.007301408
83° 06′ 00″	0.99275734	0.12013684	8.263554723	0.121013297	8.323841460	1.007295497
83° 06′ 10″	0.99276317	0.12008871	8.266915165	0.120964106	8.327177574	1.007289588
83° 06′ 20″	0.99276899	0.12004058	8.270278303	0.120914915	8.330516383	1.007283682
83° 06′ 30″	0.99277480	0.11999245	8.273644138	0.120865725	8.333857890	1.007277779
83° 06′ 40″	0.99278062	0.11994432	8.277012675	0.120816536	8.337202098	1.007271878
83° 06′ 50″	0.99278643	0.11989618	8.280383916	0.120767347	8.340549011	1.007265979
83° 07′ 00″	0.99279225	0.11984805	8.283757865	0.120718159	8.343898631	1.007260083
83° 07′ 10″	0.99279806	0.11979992	8.287134526	0.120668972	8.347250963	1.007254189
83° 07′ 20″	0.99280386	0.11975179	8.290513900	0.120619784	8.350606010	1.007248297
83° 07′ 30″	0.99280967	0.11970366	8.293895992	0.120570598	8.353963774	1.007242408
83° 07′ 40″	0.99281547	0.11965552	8.297280806	0.120521412	8.357324259	1.007236522
83° 07′ 50″	0.99282127	0.11960739	8.300668343	0.120472227	8.360687468	1.007230638
83° 08′ 00″	0.99282707	0.11955926	8.304058608	0.120423042	8.364053405	1.007224756
83° 08′ 10″	0.99283286	0.11951112	8.307451604	0.120373858	8.367422073	1.007218877
83° 08′ 20″	0.99283865	0.11946299	8.310847334	0.120324674	8.370793476	1.007213000
83° 08′ 30″	0.99284445	0.11941485	8.314245802	0.120275491	8.374167616	1.007207126
83° 08′ 40″	0.99285023	0.11936672	8.317647010	0.120226309	8.377544496	1.007201254
83° 08′ 50″	0.99285602	0.11931858	8.321050963	0.120177127	8.380924122	1.007195384
83° 09′ 00″	0.99286180	0.11927045	8.324457663	0.120127946	8.384306494	1.007189517
83° 09′ 10″	0.99286758	0.11922231	8.327867114	0.120078765	8.387691618	1.007183652
83° 09′ 20″	0.99287336	0.11917418	8.331279320	0.120029585	8.391079496	1.007177790
83° 09′ 30″	0.99287914	0.11912604	8.334694283	0.119980406	8.394470131	1.007171931
83° 09′ 40″	0.99288491	0.11907791	8.338112007	0.119931227	8.397863528	1.007166073
83° 09′ 50″	0.99289069	0.11902977	8.341532495	0.119882048	8.401259689	1.007160218
83° 10′ 00″	0.99289646	0.11898163	8.344955751	0.119832870	8.404658618	1.007154366
83° 10′ 10″	0.99290222	0.11893350	8.348381777	0.119783693	8.408060317	1.007148516
83° 10′ 20″	0.99290799	0.11888536	8.351810579	0.119734516	8.411464792	1.007142668
83° 10′ 30″	0.99291375	0.11883722	8.355242158	0.119685340	8.414872044	1.007136823
83° 10′ 40″	0.99291951	0.11878908	8.358676518	0.119636165	8.418282077	1.007130981
83° 10′ 50″	0.99292527	0.11874094	8.362113663	0.119586990	8.421694896	1.007125140
83° 11′ 00″	0.99293102	0.11869281	8.365553596	0.119537815	8.425110502	1.007119302
83° 11′ 10″	0.99293678	0.11864467	8.368996320	0.119488641	8.428528899	1.007113467
83° 11′ 20″	0.99294253	0.11859653	8.372441839	0.119439468	8.431950092	1.007107634
83° 11′ 30″	0.99294828	0.11854839	8.375890157	0.119390295	8.435374083	1.007101804
83° 11′ 40″	0.99295402	0.11850025	8.379341276	0.119341123	8.438800876	1.007095975
83° 11′ 50″	0.99295977	0.11845211	8.382795200	0.119291952	8.442230474	1.007090150

624 83° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
83° 12′ 00″	0.99296551	0.11840397	8.386251933	0.119242781	8.445662880	1.007084327
83° 12′ 10″	0.99297125	0.11835583	8.389711478	0.119193610	8.449098099	1.007078506
83° 12′ 20″	0.99297698	0.11830769	8.393173838	0.119144440	8.452536133	1.007072687
83° 12′ 30″	0.99298272	0.11825955	8.396639017	0.119095271	8.455976986	1.007066871
83° 12′ 40″	0.99298845	0.11821140	8.400107019	0.119046102	8.459420662	1.007061058
83° 12′ 50″	0.99299418	0.11816326	8.403577846	0.118996934	8.462867163	1.007055247
83° 13′ 00″	0.99299991	0.11811512	8.407051503	0.118947767	8.466316494	1.007049438
83° 13′ 10″	0.99300563	0.11806698	8.410527992	0.118898600	8.469768657	1.007043632
83° 13′ 20″	0.99301136	0.11801884	8.414007318	0.118849433	8.473223657	1.007037828
83° 13′ 30″	0.99301708	0.11797069	8.417489484	0.118800267	8.476681497	1.007032027
83° 13′ 40″	0.99302280	0.11792255	8.420974492	0.118751102	8.480142180	1.007026228
83° 13′ 50″	0.99302851	0.11787441	8.424462348	0.118701937	8.483605710	1.007020432
83° 14′ 00″	0.99303422	0.11782626	8.427953053	0.118652773	8.487072091	1.007014638
83° 14′ 10″	0.99303994	0.11777812	8.431446613	0.118603609	8.490541325	1.007008846
83° 14′ 20″	0.99304564	0.11772998	8.434943030	0.118554446	8.494013416	1.007003057
83° 14′ 30″	0.99305135	0.11768183	8.438442307	0.118505284	8.497488368	1.006997270
83° 14′ 40″	0.99305706	0.11763369	8.441944449	0.118456122	8.500966185	1.006991486
83° 14′ 50″	0.99306276	0.11758554	8.445449459	0.118406960	8.504446870	1.006985704
83° 15′ 00″	0.99306846	0.11753740	8.448957340	0.118357800	8.507930426	1.006979925
83° 15′ 10″	0.99307415	0.11748925	8.452468096	0.118308639	8.511416857	1.006974148
83° 15′ 20″	0.99307985	0.11744111	8.455981731	0.118259480	8.514906167	1.006968373
83° 15′ 30″	0.99308554	0.11739296	8.459498247	0.118210321	8.518398358	1.006962601
83° 15′ 40″	0.99309123	0.11734481	8.463017649	0.118161162	8.521893436	1.006956831
83° 15′ 50″	0.99309692	0.11729667	8.466539941	0.118112004	8.525391403	1.006951064
83° 16′ 00″	0.99310261	0.11724852	8.470065125	0.118062847	8.528892262	1.006945299
83° 16′ 10″	0.99310829	0.11720037	8.473593206	0.118013690	8.532396019	1.006939537
83° 16′ 20″	0.99311397	0.11715223	8.477124186	0.117964533	8.535902675	1.006933777
83° 16′ 30″	0.99311965	0.11710408	8.480658070	0.117915378	8.539412234	1.006928019
83° 16′ 40″	0.99312532	0.11705593	8.484194862	0.117866223	8.542924701	1.006922264
83° 16′ 50″	0.99313100	0.11700778	8.487734564	0.117817068	8.546440079	1.006916512
83° 17′ 00″	0.99313667	0.11695963	8.491277180	0.117767914	8.549958371	1.006910761
83° 17′ 10″	0.99314234	0.11691149	8.494822714	0.117718760	8.553479581	1.006905014
83° 17′ 20″	0.99314801	0.11686334	8.498371170	0.117669608	8.557003713	1.006899268
83° 17′ 30″	0.99315367	0.11681519	8.501922551	0.117620455	8.560530770	1.006893525
83° 17′ 40″	0.99315933	0.11676704	8.505476861	0.117571303	8.564060756	1.006887785
83° 17′ 50″	0.99316499	0.11671889	8.509034104	0.117522152	8.567593675	1.006882047
83° 18′ 00″	0.99317065	0.11667074	8.512594282	0.117473001	8.571129530	1.006876311
83° 18′ 10″	0.99317630	0.11662259	8.516157401	0.117423851	8.574668324	1.006870578
83° 18′ 20″	0.99318196	0.11657444	8.519723463	0.117374702	8.578210063	1.006864847
83° 18′ 30″	0.99318761	0.11652629	8.523292472	0.117325553	8.581754748	1.006859119
83° 18′ 40″	0.99319326	0.11647813	8.526864431	0.117276404	8.585302384	1.006853393
83° 18′ 50″	0.99319890	0.11642998	8.530439346	0.117227256	8.588852975	1.006847670
83° 19′ 00″	0.99320455	0.11638183	8.534017218	0.117178109	8.592406524	1.006841948
83° 19′ 10″	0.99321019	0.11633368	8.537598052	0.117128962	8.595963035	1.006836230
83° 19′ 20″	0.99321583	0.11628553	8.541181852	0.117079816	8.599522512	1.006830514
83° 19′ 30″	0.99322146	0.11623737	8.544768621	0.117030670	8.603084958	1.006824800
83° 19′ 40″ 83° 19′ 50″	0.99322710	0.11618922	8.548358363	0.116981525	8.606650377	1.006819089
00- 17. 00"	0.99323273	0.11614107	8.551951082	0.116932381	8.610218772	1.006813380

625 83° 19′ 50″

83° 20′ 00″ 0.99323836 0.11609291 8.555546781 0.1168 83° 20′ 10″ 0.99324398 0.11604476 8.559145464 0.1168 83° 20′ 20″ 0.99324961 0.11599661 8.562747135 0.1167 83° 20′ 30″ 0.99325523 0.11594845 8.566351798 0.1167	se(x) sec(x) 883237 8.613790148 1.006807673 834093 8.617364509 1.006801969 784950 8.620941857 1.006796268 735808 8.624522197 1.006790569 686666 8.628105532 1.006784872 637525 8.631691867 1.006779178
83° 20′ 10″ 0.99324398 0.11604476 8.559145464 0.1168 83° 20′ 20″ 0.99324961 0.11599661 8.562747135 0.1167 83° 20′ 30″ 0.99325523 0.11594845 8.566351798 0.1167	834093 8.617364509 1.006801969 784950 8.620941857 1.006796268 735808 8.624522197 1.006790569 686666 8.628105532 1.006784872 637525 8.631691867 1.006779178
83° 20′ 20″ 0.99324961 0.11599661 8.562747135 0.1167 83° 20′ 30″ 0.99325523 0.11594845 8.566351798 0.1167	784950 8.620941857 1.006796268 735808 8.624522197 1.006790569 686666 8.628105532 1.006784872 637525 8.631691867 1.006779178
83° 20′ 30″ 0.99325523 0.11594845 8.566351798 0.1167	735808 8.624522197 1.006790569 686666 8.628105532 1.006784872 637525 8.631691867 1.006779178
	686666 8.628105532 1.006784872 637525 8.631691867 1.006779178
83° 20′ 40″ 0 99326085 0 11590030 8 569959456 0 1166	637525 8.631691867 1.006779178
	588385 8.635281204 1.006773486
	539244 8.638873548 1.006767796
	490105 8.642468903 1.006762109
	140966 8.646067271 1.006756425
	391828 8.649668658 1.006750742
	342690 8.653273067 1.006745063
	293552 8.656880501 1.006739385
	244416 8.660490965 1.006733711
	195279 8.664104461 1.006728038
	146144 8.667720995 1.006722368
	097009 8.671340570 1.006716701
	047874 8.674963189 1.006711036
	998740 8.678588857 1.006705373
	949607 8.682217577 1.006699713
	900474 8.685849354 1.006694055
	851341 8.689484190 1.006688399
	802210 8.693122090 1.006682746
	753078 8.696763058 1.006677096
	703948 8.700407098 1.006671448
	554818 8.704054214 1.006665802
	605688 8.707704408 1.006660159
	556559 8.711357686 1.006654518
	507430 8.715014052 1.006648879
	458303 8.718673508 1.006643243
	409175 8.722336059 1.006637610
	360048 8.726001710 1.006631979
	310922 8.729670463 1.006626350
	261796 8.733342323 1.006620724
	212671 8.737017294 1.006615100
	163546 8.740695379 1.006609479
	114422 8.744376583 1.006603860
	065299 8.748060910 1.006598243
	016176 8.751748363 1.006592629
	967053 8.755438947 1.006587017
	917932 8.759132666 1.006581408
	868810 8.762829523 1.006575801
	819689 8.766529522 1.006570197
	770569 8.770232668 1.006564595
	721449 8.773938964 1.006558995
	672330 8.777648415 1.006553398
	523212 8.781361025 1.006547803
83° 27′ 50″ 0.99350031 0.11382940 8.727976531 0.1145	574094 8.785076797 1.006542211

626 **83° 27′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
83° 28′ 00″	0.99350583	0.11378123	8.731719789	0.114524976	8.788795735	1.006536621
83° 28′ 10″	0.99351134	0.11373306	8.735466218	0.114475859	8.792517845	1.006531034
83° 28′ 20″	0.99351686	0.11368490	8.739215822	0.114426743	8.796243129	1.006525449
83° 28′ 30″	0.99352237	0.11363673	8.742968604	0.114377627	8.799971591	1.006519866
83° 28′ 40″	0.99352787	0.11358856	8.746724569	0.114328511	8.803703237	1.006514286
83° 28′ 50″	0.99353338	0.11354040	8.750483721	0.114279397	8.807438069	1.006508709
83° 29′ 00″	0.99353888	0.11349223	8.754246063	0.114230282	8.811176093	1.006503133
83° 29′ 10″	0.99354439	0.11344406	8.758011601	0.114181169	8.814917311	1.006497560
83° 29′ 20″	0.99354988	0.11339589	8.761780338	0.114132056	8.818661729	1.006491990
83° 29′ 30″	0.99355538	0.11334772	8.765552277	0.114082943	8.822409349	1.006486422
83° 29′ 40″	0.99356087	0.11329955	8.769327425	0.114033831	8.826160177	1.006480857
83° 29′ 50″	0.99356637	0.11325138	8.773105783	0.113984719	8.829914217	1.006475293
83° 30′ 00″	0.99357186	0.11320321	8.776887357	0.113935608	8.833671472	1.006469733
83° 30′ 10″	0.99357734	0.11315504	8.780672150	0.113886498	8.837431947	1.006464174
83° 30′ 20″	0.99358283	0.11310687	8.784460168	0.113837388	8.841195645	1.006458619
83° 30′ 30″	0.99358831	0.11305870	8.788251413	0.113788279	8.844962572	1.006453065
83° 30′ 40″	0.99359379	0.11301053	8.792045890	0.113739170	8.848732730	1.006447514
83° 30′ 50″	0.99359927	0.11296236	8.795843603	0.113690061	8.852506125	1.006441966
83° 31′ 00″	0.99360474	0.11291419	8.799644557	0.113640954	8.856282760	1.006436419
83° 31′ 10″	0.99361022	0.11286602	8.803448755	0.113591847	8.860062640	1.006430876
83° 31′ 20″	0.99361569	0.11281785	8.807256202	0.113542740	8.863845769	1.006425334
83° 31′ 30″	0.99362116	0.11276968	8.811066902	0.113493634	8.867632150	1.006419796
83° 31′ 40″	0.99362662	0.11272150	8.814880858	0.113444528	8.871421788	1.006414259
83° 31′ 50″	0.99363209	0.11267333	8.818698076	0.113395423	8.875214688	1.006408725
83° 32′ 00″	0.99363755	0.11262516	8.822518560	0.113346319	8.879010854	1.006403194
83° 32′ 10″	0.99364301	0.11257698	8.826342313	0.113297215	8.882810289	1.006397664
83° 32′ 20″	0.99364846	0.11252881	8.830169340	0.113248111	8.886612998	1.006392138
83° 32′ 30″	0.99365392	0.11248064	8.833999645	0.113199008	8.890418985	1.006386613
83° 32′ 40″	0.99365937	0.11243246	8.837833232	0.113149906	8.894228255	1.006381091
83° 32′ 50″	0.99366482	0.11238429	8.841670106	0.113100804	8.898040811	1.006375572
83° 33′ 00″	0.99367027	0.11233612	8.845510271	0.113051703	8.901856658	1.006370055
83° 33′ 10″	0.99367571	0.11228794	8.849353731	0.113002602	8.905675800	1.006364540
83° 33′ 20″	0.99368115	0.11223977	8.853200490	0.112953502	8.909498242	1.006359028
83° 33′ 30″	0.99368659	0.11219159	8.857050553	0.112904402	8.913323987	1.006353518
83° 33′ 40″	0.99369203	0.11214342	8.860903923	0.112855303	8.917153040	1.006348011
83° 33′ 50″	0.99369747	0.11209524	8.864760606	0.112806205	8.920985405	1.006342506
83° 34′ 00″	0.99370290	0.11204706	8.868620605	0.112757107	8.924821087	1.006337004
83° 34′ 10″	0.99370833	0.11199889	8.872483925	0.112708009	8.928660090	1.006331504
83° 34′ 20″	0.99371376	0.11195071	8.876350570	0.112658912	8.932502418	1.006326006
83° 34′ 30″	0.99371919	0.11190253	8.880220545	0.112609816	8.936348075	1.006320511
83° 34′ 40″	0.99372461	0.11185436	8.884093853	0.112560720	8.940197066	1.006315018
83° 34′ 50″	0.99373003	0.11180618	8.887970499	0.112511625	8.944049395	1.006309528
83° 35′ 00″	0.99373545	0.11175800	8.891850487	0.112462530	8.947905067	1.006304040
83° 35′ 10″	0.99374087	0.11170983	8.895733822	0.112413435	8.951764085	1.006298554
83° 35′ 20″	0.99374628	0.11166165	8.899620508	0.112364342	8.955626454	1.006293071
83° 35′ 30″	0.99375170	0.11161347	8.903510550	0.112315249	8.959492179	1.006287591
83° 35′ 40″ 83° 35′ 50″	0.99375711	0.11156529	8.907403951	0.112266156	8.963361264	1.006282112
03 33 30"	0.99376251	0.11151711	8.911300716	0.112217064	8.967233712	1.006276637

627 83° 35′ 50″

x	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
83° 36′ 00″	0.99376792	0.11146893	8.915200850	0.112167972	8.971109530	1.006271163
83° 36′ 10″	0.99377332	0.11142075	8.919104357	0.112118881	8.974988720	1.006265692
83° 36′ 20″	0.99377872	0.11137257	8.923011241	0.112069790	8.978871288	1.006260224
83° 36′ 30″	0.99378412	0.11132439	8.926921507	0.112020700	8.982757237	1.006254758
83° 36′ 40″	0.99378952	0.11127621	8.930835159	0.111971611	8.986646573	1.006249294
83° 36′ 50″	0.99379491	0.11122803	8.934752201	0.111922522	8.990539299	1.006243833
83° 37′ 00″	0.99380030	0.11117985	8.938672638	0.111873434	8.994435421	1.006238374
83° 37′ 10″	0.99380569	0.11113167	8.942596475	0.111824346	8.998334941	1.006232918
83° 37′ 20″	0.99381108	0.11108349	8.946523716	0.111775258	9.002237866	1.006227464
83° 37′ 30″	0.99381646	0.11103531	8.950454364	0.111726172	9.006144199	1.006222012
83° 37′ 40″	0.99382184	0.11098713	8.954388426	0.111677085	9.010053945	1.006216563
83° 37′ 50″	0.99382722	0.11093894	8.958325905	0.111628000	9.013967108	1.006211116
83° 38′ 00″	0.99383260	0.11089076	8.962266805	0.111578914	9.017883692	1.006205672
83° 38′ 10″	0.99383798	0.11084258	8.966211132	0.111529830	9.021803703	1.006200230
83° 38′ 20″	0.99384335	0.11079440	8.970158889	0.111480745	9.025727145	1.006194791
83° 38′ 30″	0.99384872	0.11074621	8.974110082	0.111431662	9.029654022	1.006189354
83° 38′ 40″	0.99385409	0.11069803	8.978064714	0.111382579	9.033584339	1.006183919
83° 38′ 50″	0.99385945	0.11064985	8.982022790	0.111333496	9.037518099	1.006178487
83° 39′ 00″	0.99386482	0.11060166	8.985984315	0.111284414	9.041455309	1.006173057
83° 39′ 10″	0.99387018	0.11055348	8.989949293	0.111235333	9.045395972	1.006167630
83° 39′ 20″	0.99387554	0.11050530	8.993917729	0.111186252	9.049340092	1.006162205
83° 39′ 30″	0.99388089	0.11045711	8.997889627	0.111137171	9.053287675	1.006156782
83° 39′ 40″	0.99388625	0.11040893	9.001864992	0.111088091	9.057238725	1.006151362
83° 39′ 50″	0.99389160	0.11036074	9.005843828	0.111039012	9.061193247	1.006145945
83° 40′ 00″	0.99389695	0.11031256	9.009826140	0.110989933	9.065151244	1.006140530
83° 40′ 10″	0.99390229	0.11026437	9.013811933	0.110940855	9.069112722	1.006135117
83° 40′ 20″	0.99390764	0.11021618	9.017801211	0.110891777	9.073077685	1.006129706
83° 40′ 30″	0.99391298	0.11016800	9.021793979	0.110842700	9.077046138	1.006124299
83° 40′ 40″	0.99391832	0.11011981	9.025790241	0.110793623	9.081018085	1.006118893
83° 40′ 50″	0.99392366	0.11007162	9.029790001	0.110744547	9.084993532	1.006113490
83° 41′ 00″	0.99392899	0.11002344	9.033793266	0.110695471	9.088972482	1.006108089
83° 41′ 10″	0.99393433	0.10997525	9.037800038	0.110646396	9.092954940	1.006102691
83° 41′ 20″	0.99393966	0.10992706	9.041810324	0.110597321	9.096940911	1.006097295
83° 41′ 30″	0.99394498	0.10987888	9.045824127	0.110548247	9.100930399	1.006091902
83° 41′ 40″	0.99395031	0.10983069	9.049841452	0.110499173	9.104923410	1.006086511
83° 41′ 50″	0.99395563	0.10978250	9.053862303	0.110450100	9.108919947	1.006081122
83° 42′ 00″	0.99396096	0.10973431	9.057886686	0.110401028	9.112920016	1.006075736
83° 42′ 10″	0.99396627	0.10968612	9.061914605	0.110351956	9.116923621	1.006070352
83° 42′ 20″	0.99397159	0.10963793	9.065946065	0.110302884	9.120930767	1.006064971
83° 42′ 30″	0.99397691	0.10958974	9.069981071	0.110253813	9.124941458	1.006059592
83° 42′ 40″	0.99398222	0.10954155	9.074019626	0.110204743	9.128955700	1.006054216
83° 42′ 50″	0.99398753	0.10949336	9.078061736	0.110155673	9.132973497	1.006048842
83° 43′ 00″	0.99399283	0.10944517	9.082107406	0.110106604	9.136994853	1.006043470
83° 43′ 10″	0.99399814	0.10939698	9.086156640	0.110057535	9.141019773	1.006038101
83° 43′ 20″	0.99400344	0.10934879	9.090209444	0.110008466	9.145048263	1.006032734
83° 43′ 30″	0.99400874	0.10930060	9.094265821	0.109959399	9.149080326	1.006027370
83° 43′ 40″	0.99401404	0.10925241	9.098325776	0.109910331	9.153115968	1.006022008
83° 43′ 50″	0.99401933	0.10920422	9.102389315	0.109861264	9.157155194	1.006016649

628 **83° 43′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	csc(x)
83° 44′ 00″	0.99402463	0.10915603	9.106456442	0.109812198	9.161198007	1.006011292
83° 44′ 10″	0.99402992	0.10910784	9.110527161	0.109763133	9.165244413	1.006005937
83° 44′ 20″	0.99403521	0.10905965	9.114601478	0.109714067	9.169294417	1.006000585
83° 44′ 30″	0.99404049	0.10901145	9.118679398	0.109665003	9.173348024	1.005995235
83° 44′ 40″	0.99404578	0.10896326	9.122760925	0.109615938	9.177405237	1.005989888
83° 44′ 50″	0.99405106	0.10891507	9.126846063	0.109566875	9.181466063	1.005984543
83° 45′ 00″	0.99405634	0.10886687	9.130934819	0.109517812	9.185530506	1.005979200
83° 45′ 10″	0.99406162	0.10881868	9.135027196	0.109468749	9.189598570	1.005973860
83° 45′ 20″	0.99406689	0.10877049	9.139123200	0.109419687	9.193670261	1.005968522
83° 45′ 30″	0.99407216	0.10872229	9.143222835	0.109370625	9.197745583	1.005963187
83° 45′ 40″	0.99407743	0.10867410	9.147326106	0.109321564	9.201824541	1.005957854
83° 45′ 50″	0.99408270	0.10862591	9.151433018	0.109272504	9.205907140	1.005952524
83° 46′ 00″	0.99408796	0.10857771	9.155543576	0.109223444	9.209993386	1.005947196
83° 46′ 10″	0.99409323	0.10852952	9.159657784	0.109174384	9.214083282	1.005941870
83° 46′ 20″	0.99409849	0.10848132	9.163775649	0.109125325	9.218176834	1.005936547
83° 46′ 30″	0.99410375	0.10843313	9.167897174	0.109076267	9.222274046	1.005931226
83° 46′ 40″	0.99410900	0.10838493	9.172022364	0.109027209	9.226374924	1.005925908
83° 46′ 50″	0.99411426	0.10833673	9.176151225	0.108978152	9.230479473	1.005920592
83° 47′ 00″	0.99411951	0.10828854	9.180283761	0.108929095	9.234587696	1.005915279
83° 47′ 10″	0.99412475	0.10824034	9.184419977	0.108880038	9.238699600	1.005909968
83° 47′ 20″	0.99413000	0.10819214	9.188559878	0.108830983	9.242815190	1.005904659
83° 47′ 30″	0.99413525	0.10814395	9.192703469	0.108781927	9.246934469	1.005899353
83° 47′ 40″	0.99414049	0.10809575	9.196850756	0.108732872	9.251057443	1.005894049
83° 47′ 50″	0.99414573	0.10804755	9.201001742	0.108683818	9.255184118	1.005888747
83° 48′ 00″	0.99415096	0.10799936	9.205156433	0.108634764	9.259314497	1.005883449
83° 48′ 10″	0.99415620	0.10795116	9.209314835	0.108585711	9.263448587	1.005878152
83° 48′ 20″	0.99416143	0.10790296	9.213476951	0.108536658	9.267586392	1.005872858
83° 48′ 30″	0.99416666	0.10785476	9.217642787	0.108487606	9.271727916	1.005867566
83° 48′ 40″	0.99417189	0.10780656	9.221812348	0.108438554	9.275873166	1.005862277
83° 48′ 50″	0.99417711	0.10775836	9.225985639	0.108389503	9.280022145	1.005856990
83° 49′ 00″	0.99418234	0.10771016	9.230162665	0.108340453	9.284174860	1.005851706
83° 49′ 10″	0.99418756	0.10766196	9.234343432	0.108291402	9.288331315	1.005846424
83° 49′ 20″	0.99419278	0.10761377	9.238527943	0.108242353	9.292491515	1.005841144
83° 49′ 30″	0.99419799	0.10756557	9.242716204	0.108193304	9.296655465	1.005835867
83° 49′ 40″	0.99420321	0.10751737	9.246908221	0.108144255	9.300823170	1.005830592
83° 49′ 50″	0.99420842	0.10746916	9.251103998	0.108095207	9.304994636	1.005825320
83° 50′ 00″	0.99421363	0.10742096	9.255303540	0.108046159	9.309169867	1.005820050
83° 50′ 10″	0.99421883	0.10737276	9.259506852	0.107997112	9.313348869	1.005814782
83° 50′ 20″	0.99422404	0.10732456	9.263713941	0.107948066	9.317531646	1.005809517
83° 50′ 30″ 83° 50′ 40″	0.99422924	0.10727636	9.267924809	0.107899020	9.321718204	1.005804255
	0.99423444	0.10722816	9.272139464	0.107849974	9.325908548	1.005798994
83° 50′ 50″ 83° 51′ 00″	0.99423964 0.99424483	0.10717996	9.276357910 9.280580151	0.107800929 0.107751884	9.330102682	1.005793736
83° 51′ 10″		0.10713175	9.284806194	0.107751884	9.334300613	1.005788481 1.005783228
83° 51′ 10″ 83° 51′ 20″	0.99425003 0.99425522	0.10708355	9.284806194		9.338502345	
83° 51′ 30″	0.99425522	0.10703535		0.107653797 0.107604754	9.342707884	1.005777977
83° 51′ 40″	0.99426559	0.10698715 0.10693894	9.293269703 9.297507181	0.107604754	9.346917234 9.351130401	1.005772729 1.005767484
83° 51′ 50″	0.99427077	0.10673874	9.301748480	0.107535712	9.355347390	1.005767484
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629 **83° 51′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
83° 52′ 00″	0.99427595	0.10684254	9.305993606	0.107457628	9.359568205	1.005756999
83° 52′ 10″	0.99428113	0.10679433	9.310242564	0.107408587	9.363792854	1.005751761
83° 52′ 20″	0.99428631	0.10674613	9.314495360	0.107359547	9.368021339	1.005746525
83° 52′ 30″	0.99429148	0.10669792	9.318751999	0.107310507	9.372253668	1.005741291
83° 52′ 40″	0.99429665	0.10664972	9.323012485	0.107261467	9.376489844	1.005736060
83° 52′ 50″	0.99430182	0.10660151	9.327276825	0.107212429	9.380729874	1.005730831
83° 53′ 00″	0.99430699	0.10655331	9.331545023	0.107163390	9.384973762	1.005725605
83° 53′ 10″	0.99431216	0.10650510	9.335817084	0.107114352	9.389221514	1.005720381
83° 53′ 20″	0.99431732	0.10645690	9.340093015	0.107065315	9.393473134	1.005715159
83° 53′ 30″	0.99432248	0.10640869	9.344372820	0.107016278	9.397728630	1.005709940
83° 53′ 40″	0.99432764	0.10636048	9.348656504	0.106967242	9.401988004	1.005704723
83° 53′ 50″	0.99433279	0.10631228	9.352944073	0.106918206	9.406251264	1.005699509
83° 54′ 00″	0.99433794	0.10626407	9.357235532	0.106869171	9.410518413	1.005694297
83° 54′ 10″	0.99434309	0.10621586	9.361530887	0.106820136	9.414789459	1.005689088
83° 54′ 20″	0.99434824	0.10616766	9.365830143	0.106771101	9.419064405	1.005683881
83° 54′ 30″	0.99435339	0.10611945	9.370133304	0.106722068	9.423343257	1.005678676
83° 54′ 40″	0.99435853	0.10607124	9.374440377	0.106673034	9.427626020	1.005673474
83° 54′ 50″	0.99436367	0.10602303	9.378751367	0.106624002	9.431912701	1.005668274
83° 55′ 00″	0.99436881	0.10597483	9.383066278	0.106574969	9.436203304	1.005663077
83° 55′ 10″	0.99437395	0.10592662	9.387385118	0.106525937	9.440497834	1.005657882
83° 55′ 20″	0.99437908	0.10587841	9.391707890	0.106476906	9.444796297	1.005652689
83° 55′ 30″	0.99438422	0.10583020	9.396034601	0.106427875	9.449098699	1.005647499
83° 55′ 40″	0.99438935	0.10578199	9.400365255	0.106378845	9.453405044	1.005642312
83° 55′ 50″	0.99439447	0.10573378	9.404699859	0.106329815	9.457715339	1.005637126
83° 56′ 00″	0.99439960	0.10568557	9.409038417	0.106280786	9.462029588	1.005631943
83° 56′ 10″	0.99440472	0.10563736	9.413380934	0.106231757	9.466347797	1.005626763
83° 56′ 20″	0.99440984	0.10558915	9.417727418	0.106182729	9.470669972	1.005621585
83° 56′ 30″	0.99441496	0.10554094	9.422077872	0.106133701	9.474996118	1.005616409
83° 56′ 40″	0.99442007	0.10549273	9.426432303	0.106084674	9.479326240	1.005611236
83° 56′ 50″	0.99442519	0.10544452	9.430790715	0.106035648	9.483660344	1.005606065
83° 57′ 00″	0.99443030	0.10539631	9.435153115	0.105986621	9.487998435	1.005600897
83° 57′ 10″	0.99443541	0.10534810	9.439519508	0.105937596	9.492340519	1.005595731
83° 57′ 20″	0.99444051	0.10529988	9.443889899	0.105888570	9.496686602	1.005590567
83° 57′ 30″	0.99444562	0.10525167	9.448264293	0.105839546	9.501036688	1.005585406
83° 57′ 40″	0.99445072	0.10520346	9.452642697	0.105790521	9.505390784	1.005580248
83° 57′ 50″	0.99445582	0.10515525	9.457025116	0.105741498	9.509748895	1.005575091
83° 58′ 00″ 83° 58′ 10″	0.99446091	0.10510703	9.461411556	0.105692475	9.514111027	1.005569937
	0.99446601	0.10505882	9.465802021	0.105643452	9.518477184	1.005564786
83° 58′ 20″ 83° 58′ 30″	0.99447110	0.10501061	9.470196518	0.105594430	9.522847373	1.005559637
	0.99447619	0.10496240	9.474595052	0.105545408	9.527221599	1.005554490
83° 58′ 40″ 83° 58′ 50″	0.99448128	0.10491418	9.478997629	0.105496387	9.531599868	1.005549346
83° 58′ 50″ 83° 59′ 00″	0.99448636	0.10486597	9.483404254	0.105447366	9.535982185	1.005544204
83° 59′ 10″	0.99449145	0.10481775	9.487814933 9.492229671	0.105398346 0.105349326	9.540368557	1.005539065
83° 59′ 10″ 83° 59′ 20″	0.99449653	0.10476954 0.10472132	9.492229671	0.105349326	9.544758988	1.005533928
83° 59′ 30″	0.99450161	0.104/2132			9.549153484 9.553552051	1.005528794
83° 59′ 40″	0.99451176	0.1046/311	9.501071349 9.505498300	0.105251288 0.105202270	9.557954694	1.005523661 1.005518532
83° 59′ 50″	0.99451683	0.10462469	9.509929333	0.105202270	9.562361420	1.005518552
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630 **83° 59′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
84° 00′ 00″	0.99452190	0.10452846	9.514364454	0.105104235	9.566772234	1.005508280
84° 00′ 10″	0.99452696	0.10448025	9.518803669	0.105055219	9.571187141	1.005503157
84° 00′ 20″	0.99453203	0.10443203	9.523246982	0.105006202	9.575606147	1.005498037
84° 00′ 30″	0.99453709	0.10438381	9.527694400	0.104957187	9.580029258	1.005492919
84° 00′ 40″	0.99454215	0.10433560	9.532145929	0.104908172	9.584456480	1.005487804
84° 00′ 50″	0.99454720	0.10428738	9.536601574	0.104859157	9.588887818	1.005482691
84° 01′ 00″	0.99455226	0.10423916	9.541061341	0.104810143	9.593323278	1.005477581
84° 01′ 10″	0.99455731	0.10419095	9.545525236	0.104761129	9.597762866	1.005472473
84° 01′ 20″	0.99456236	0.10414273	9.549993265	0.104712116	9.602206588	1.005467368
84° 01′ 30″	0.99456741	0.10409451	9.554465432	0.104663103	9.606654449	1.005462264
84° 01′ 40″	0.99457246	0.10404629	9.558941745	0.104614091	9.611106455	1.005457164
84° 01′ 50″	0.99457750	0.10399807	9.563422209	0.104565079	9.615562612	1.005452065
84° 02′ 00″	0.99458254	0.10394986	9.567906829	0.104516068	9.620022926	1.005446969
84° 02′ 10″	0.99458758	0.10390164	9.572395612	0.104467057	9.624487402	1.005441876
84° 02′ 20″	0.99459261	0.10385342	9.576888563	0.104418047	9.628956046	1.005436785
84° 02′ 30″	0.99459765	0.10380520	9.581385688	0.104369037	9.633428865	1.005431696
84° 02′ 40″	0.99460268	0.10375698	9.585886993	0.104320028	9.637905864	1.005426610
84° 02′ 50″	0.99460771	0.10370876	9.590392484	0.104271019	9.642387048	1.005421526
84° 03′ 00″	0.99461273	0.10366054	9.594902166	0.104222011	9.646872425	1.005416445
84° 03′ 10″	0.99461776	0.10361232	9.599416046	0.104173003	9.651361998	1.005411366
84° 03′ 20″	0.99462278	0.10356410	9.603934129	0.104123996	9.655855776	1.005406289
84° 03′ 30″	0.99462780	0.10351588	9.608456422	0.104074989	9.660353762	1.005401215
84° 03′ 40″	0.99463282	0.10346766	9.612982930	0.104025983	9.664855964	1.005396143
84° 03′ 50″	0.99463783	0.10341944	9.617513659	0.103976977	9.669362388	1.005391074
84° 04′ 00″	0.99464285	0.10337121	9.622048615	0.103927972	9.673873038	1.005386007
84° 04′ 10″	0.99464786	0.10332299	9.626587804	0.103878967	9.678387921	1.005380943
84° 04′ 20″	0.99465286	0.10327477	9.631131232	0.103829963	9.682907043	1.005375881
84° 04′ 30″	0.99465787	0.10322655	9.635678905	0.103780959	9.687430411	1.005370821
84° 04′ 40″	0.99466287	0.10317833	9.640230829	0.103731956	9.691958029	1.005365764
84° 04′ 50″	0.99466788	0.10313010	9.644787010	0.103682953	9.696489904	1.005360709
84° 05′ 00″	0.99467287	0.10308188	9.649347453	0.103633951	9.701026042	1.005355656
84° 05′ 10″	0.99467787	0.10303366	9.653912166	0.103584949	9.705566449	1.005350606
84° 05′ 20″	0.99468286	0.10298543	9.658481153	0.103535948	9.710111131	1.005345559
84° 05′ 30″	0.99468786	0.10293721	9.663054421	0.103486947	9.714660094	1.005340514
84° 05′ 40″	0.99469285	0.10288899	9.667631977	0.103437947	9.719213344	1.005335471
84° 05′ 50″	0.99469783	0.10284076	9.672213825	0.103388947	9.723770888	1.005330430
84° 06′ 00″	0.99470282	0.10279254	9.676799972	0.103339947	9.728332730	1.005325392
84° 06′ 10″	0.99470780	0.10274431	9.681390425	0.103290949	9.732898877	1.005320357
84° 06′ 20″	0.99471278	0.10269609	9.685985188	0.103241950	9.737469336	1.005315324
84° 06′ 30″ 84° 06′ 40″	0.99471776	0.10264786	9.690584269	0.103192952	9.742044112	1.005310293
	0.99472273	0.10259964	9.695187674	0.103143955	9.746623212	1.005305265
84° 06′ 50″ 84° 07′ 00″	0.99472771	0.10255141	9.699795408 9.704407478	0.103094958	9.751206641	1.005300239
84° 07′ 10″	0.99473268	0.10250319 0.10245496	9.704407478	0.103045962	9.755794406	1.005295215
84° 07′ 10″ 84° 07′ 20″	0.99473764			0.102996966 0.102947970	9.760386513	1.005290194
84° 07′ 30″	0.99474261	0.10240673 0.10235851	9.713644649 9.718269762	0.102947970	9.764982968	1.005285176
84° 07′ 40″	0.99474757	0.10235851	9.718269762	0.102849981	9.769583777 9.774188947	1.005280160 1.005275146
84° 07′ 50″	0.99475749	0.10231028	9.727533077	0.102849981	9.778798483	1.005275146
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631 **84° 07′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\csc(x)$
84° 08′ 00″	0.99476245	0.10221382	9.732171291	0.102751993	9.783412392	1.005265125
84° 08′ 10″	0.99476741	0.10216560	9.736813883	0.102703000	9.788030680	1.005260119
84° 08′ 20″	0.99477236	0.10211737	9.741460860	0.102654008	9.792653353	1.005255115
84° 08′ 30″	0.99477731	0.10206914	9.746112229	0.102605016	9.797280418	1.005250113
84° 08′ 40″	0.99478225	0.10202091	9.750767996	0.102556024	9.801911880	1.005245113
84° 08′ 50″	0.99478720	0.10197268	9.755428166	0.102507033	9.806547747	1.005240117
84° 09′ 00″	0.99479214	0.10192446	9.760092747	0.102458043	9.811188024	1.005235122
84° 09′ 10″	0.99479708	0.10187623	9.764761744	0.102409053	9.815832717	1.005230130
84° 09′ 20″	0.99480202	0.10182800	9.769435164	0.102360063	9.820481833	1.005225140
84° 09′ 30″	0.99480696	0.10177977	9.774113013	0.102311074	9.825135378	1.005220153
84° 09′ 40″	0.99481189	0.10173154	9.778795298	0.102262085	9.829793359	1.005215168
84° 09′ 50″	0.99481682	0.10168331	9.783482024	0.102213097	9.834455781	1.005210186
84° 10′ 00″	0.99482175	0.10163508	9.788173198	0.102164110	9.839122652	1.005205206
84° 10′ 10″	0.99482667	0.10158685	9.792868827	0.102115123	9.843793977	1.005200228
84° 10′ 20″	0.99483160	0.10153862	9.797568917	0.102066136	9.848469763	1.005195253
84° 10′ 30″	0.99483652	0.10149039	9.802273474	0.102017150	9.853150017	1.005190280
84° 10′ 40″	0.99484144	0.10144215	9.806982504	0.101968164	9.857834744	1.005185310
84° 10′ 50″	0.99484636	0.10139392	9.811696015	0.101919179	9.862523951	1.005180342
84° 11′ 00″	0.99485127	0.10134569	9.816414011	0.101870194	9.867217644	1.005175376
84° 11′ 10″	0.99485618	0.10129746	9.821136501	0.101821210	9.871915831	1.005170413
84° 11′ 20″	0.99486109	0.10124923	9.825863490	0.101772226	9.876618517	1.005165452
84° 11′ 30″	0.99486600	0.10120100	9.830594985	0.101723243	9.881325708	1.005160494
84° 11′ 40″	0.99487091	0.10115276	9.835330992	0.101674260	9.886037412	1.005155538
84° 11′ 50″	0.99487581	0.10110453	9.840071517	0.101625278	9.890753635	1.005150584
84° 12′ 00″	0.99488071	0.10105630	9.844816568	0.101576296	9.895474383	1.005145633
84° 12′ 10″	0.99488561	0.10100806	9.849566151	0.101527314	9.900199663	1.005140684
84° 12′ 20″	0.99489050	0.10095983	9.854320271	0.101478334	9.904929480	1.005135738
84° 12′ 30″	0.99489540	0.10091160	9.859078937	0.101429353	9.909663843	1.005130794
84° 12′ 40″	0.99490029	0.10086336	9.863842154	0.101380373	9.914402757	1.005125853
84° 12′ 50″	0.99490518	0.10081513	9.868609928	0.101331394	9.919146229	1.005120914
84° 13′ 00″	0.99491006	0.10076689	9.873382267	0.101282415	9.923894266	1.005115977
84° 13′ 10″	0.99491495	0.10071866	9.878159177	0.101233437	9.928646873	1.005111043
84° 13′ 20″	0.99491983	0.10067042	9.882940665	0.101184459	9.933404058	1.005106111
84° 13′ 30″	0.99492471	0.10062219	9.887726737	0.101135481	9.938165828	1.005101182
84° 13′ 40″		0.10057395	9.892517399	0.101086504	9.942932188	1.005096255
84° 13′ 50″ 84° 14′ 00″	0.99493446		9.897312659	0.101037528	9.947703146	1.005091330
84° 14′ 10″	0.99493933	0.10047748 0.10042925	9.902112523	0.100988551	9.952478708	1.005086408
84° 14′ 10″ 84° 14′ 20″	0.99494420		9.906916998	0.100939576	9.957258880	1.005081488
84° 14′ 30″		0.10038101	9.911726091 9.916539807	0.100890601	9.962043671	1.005076571
84° 14′ 40″	0.99495394	0.10033277 0.10028454	9.916339807	0.100841626 0.100792652	9.966833085 9.971627130	1.005071656 1.005066743
84° 14′ 50″	0.77473880					
84° 15′ 00″	0.99496852	0.10023630 0.10018806	9.926181139 9.931008767	0.100743678 0.100694705	9.976425813 9.981229140	1.005061833 1.005056926
84° 15′ 10″	0.99496832	0.10018806	9.935841047	0.100694703	9.986037118	1.005056926
84° 15′ 20″	0.99497823	0.10013782	9.940677985	0.100643732	9.990849753	1.005052020
84° 15′ 30″	0.99498308	0.10004134	9.945519586	0.100547789	9.995667053	1.005047117
84° 15′ 40″	0.77478308	0.10004333	9.950365860	0.100347787	10.00048902	1.005042217
84° 15′ 50″	0.77478773	0.07777311	9.955216811	0.100449846	10.00048702	1.005037317
=======================================	0.//=//2/0	0.07774007	7.733210011	0.10077/070	10.00331307	1.003032423

632 84° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
84° 16′ 00″	0.99499762	0.09989863	9.960072447	0.100400876	10.01014701	1.005027530
84° 16′ 10″	0.99500246	0.09985039	9.964932774	0.100351906	10.01498304	1.005022639
84° 16′ 20″	0.99500730	0.09980215	9.969797800	0.100302937	10.01982376	1.005017751
84° 16′ 30″	0.99501214	0.09975392	9.974667532	0.100253968	10.02466919	1.005012865
84° 16′ 40″	0.99501697	0.09970568	9.979541975	0.100205000	10.02951933	1.005007981
84° 16′ 50″	0.99502181	0.09965744	9.984421137	0.100156032	10.03437419	1.005003100
84° 17′ 00″	0.99502664	0.09960920	9.989305026	0.100107064	10.03923378	1.004998221
84° 17′ 10″	0.99503146	0.09956096	9.994193647	0.100058097	10.04409810	1.004993345
84° 17′ 20″	0.99503629	0.09951271	9.999087008	0.100009131	10.04896716	1.004988471
84° 17′ 30″	0.99504111	0.09946447	10.00398512	0.099960165	10.05384097	1.004983599
84° 17′ 40″	0.99504593	0.09941623	10.00888798	0.099911199	10.05871953	1.004978730
84° 17′ 50″	0.99505075	0.09936799	10.01379560	0.099862234	10.06360285	1.004973863
84° 18′ 00″	0.99505557	0.09931975	10.01870799	0.099813269	10.06849094	1.004968999
84° 18′ 10″	0.99506038	0.09927151	10.02362515	0.099764305	10.07338380	1.004964137
84° 18′ 20″	0.99506520	0.09922327	10.02854709	0.099715342	10.07828144	1.004959277
84° 18′ 30″	0.99507000	0.09917502	10.03347383	0.099666378	10.08318387	1.004954420
84° 18′ 40″	0.99507481	0.09912678	10.03840536	0.099617416	10.08809110	1.004949566
84° 18′ 50″	0.99507962	0.09907854	10.04334169	0.099568454	10.09300313	1.004944713
84° 19′ 00″	0.99508442	0.09903030	10.04828283	0.099519492	10.09791997	1.004939863
84° 19′ 10″	0.99508922	0.09898205	10.05322878	0.099470530	10.10284163	1.004935016
84° 19′ 20″	0.99509402	0.09893381	10.05817957	0.099421570	10.10776811	1.004930171
84° 19′ 30″	0.99509881	0.09888557	10.06313518	0.099372609	10.11269942	1.004925328
84° 19′ 40″	0.99510360	0.09883732	10.06809563	0.099323649	10.11763557	1.004920488
84° 19′ 50″	0.99510840	0.09878908	10.07306092	0.099274690	10.12257656	1.004915650
84° 20′ 00″	0.99511318	0.09874083	10.07803107	0.099225731	10.12752241	1.004910815
84° 20′ 10″	0.99511797	0.09869259	10.08300607	0.099176773	10.13247311	1.004905982
84° 20′ 20″	0.99512275	0.09864434	10.08798594	0.099127815	10.13742869	1.004901151
84° 20′ 30″	0.99512753	0.09859610	10.09297069	0.099078857	10.14238913	1.004896323
84° 20′ 40″	0.99513231	0.09854785	10.09796031	0.099029900	10.14735446	1.004891497
84° 20′ 50″	0.99513709	0.09849961	10.10295483	0.098980943	10.15232467	1.004886674
84° 21′ 00″	0.99514186	0.09845136	10.10795424	0.098931987	10.15729978	1.004881853
84° 21′ 10″	0.99514664	0.09840312	10.11295855	0.098883032	10.16227979	1.004877034
84° 21′ 20″	0.99515141	0.09835487	10.11796777	0.098834076	10.16726471	1.004872218
84° 21′ 30″	0.99515617	0.09830662	10.12298190	0.098785122	10.17225455	1.004867404
84° 21′ 40″	0.99516094	0.09825838	10.12800097	0.098736168	10.17724931	1.004862593
84° 21′ 50″	0.99516570	0.09821013	10.13302496	0.098687214	10.18224900	1.004857784
84° 22′ 00″	0.99517046	0.09816188	10.13805389	0.098638260	10.18725364	1.004852978
84° 22′ 10″	0.99517522	0.09811364	10.14308777	0.098589308	10.19226321	1.004848173
84° 22′ 20″	0.99517997	0.09806539	10.14812660	0.098540355	10.19727775	1.004843372
84° 22′ 30″	0.99518473	0.09801714	10.15317039	0.098491403	10.20229724	1.004838572
84° 22′ 40″ 84° 22′ 50″	0.99518948	0.09796889	10.15821915	0.098442452	10.20732170	1.004833775
84° 22′ 50″ 84° 23′ 00″	0.99519423	0.09792064	10.16327288	0.098393501	10.21235113	1.004828981
84° 23′ 10″ 84° 23′ 10″	0.99519897	0.09787240	10.16833160	0.098344550	10.21738555	1.004824189
84° 23′ 10″ 84° 23′ 20″	0.99520372	0.09782415	10.17339531 10.17846401	0.098295600	10.22242496	1.004819399 1.004814612
84° 23′ 30″	0.99520846	0.09777590		0.098246651	10.22746936 10.23251878	
84° 23′ 40″	0.99521320 0.99521793	0.09772765	10.18353772	0.098197702		1.004809827
84° 23′ 50″	0.99521793	0.09767940 0.09763115	10.18861644 10.19370018	0.098148753 0.098099805	10.23757320 10.24263264	1.004805045 1.004800265
04 25 50"	0.7734446/	0.07/63113	10.173/0018	0.070077003	10.24203204	1.004000263

633 **84° 23′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\operatorname{csc}(x)$
84° 24′ 00″	0.99522740	0.09758290	10.19878895	0.098050857	10.24769711	1.004795487
84° 24′ 10″	0.99523213	0.09753465	10.20388276	0.098001910	10.25276662	1.004790712
84° 24′ 20″	0.99523686	0.09748640	10.20898160	0.097952963	10.25784116	1.004785939
84° 24′ 30″	0.99524158	0.09743815	10.21408550	0.097904017	10.26292076	1.004781168
84° 24′ 40″	0.99524631	0.09738990	10.21919445	0.097855071	10.26800542	1.004776400
84° 24′ 50″	0.99525103	0.09734165	10.22430847	0.097806126	10.27309514	1.004771635
84° 25′ 00″	0.99525574	0.09729340	10.22942756	0.097757181	10.27818993	1.004766872
84° 25′ 10″	0.99526046	0.09724514	10.23455173	0.097708236	10.28328980	1.004762111
84° 25′ 20″	0.99526517	0.09719689	10.23968099	0.097659292	10.28839476	1.004757352
84° 25′ 30″	0.99526988	0.09714864	10.24481534	0.097610349	10.29350482	1.004752597
84° 25′ 40″	0.99527459	0.09710039	10.24995480	0.097561406	10.29861997	1.004747843
84° 25′ 50″	0.99527930	0.09705214	10.25509937	0.097512463	10.30374024	1.004743092
84° 26′ 00″	0.99528400	0.09700388	10.26024905	0.097463521	10.30886563	1.004738343
84° 26′ 10″	0.99528870	0.09695563	10.26540386	0.097414579	10.31399614	1.004733597
84° 26′ 20″	0.99529340	0.09690738	10.27056380	0.097365638	10.31913179	1.004728853
84° 26′ 30″	0.99529810	0.09685912	10.27572889	0.097316698	10.32427258	1.004724111
84° 26′ 40″	0.99530280	0.09681087	10.28089912	0.097267757	10.32941851	1.004719372
84° 26′ 50″	0.99530749	0.09676262	10.28607451	0.097218817	10.33456960	1.004714635
84° 27′ 00″	0.99531218	0.09671436	10.29125507	0.097169878	10.33972586	1.004709901
84° 27′ 10″	0.99531687	0.09666611	10.29644080	0.097120939	10.34488729	1.004705169
84° 27′ 20″	0.99532155	0.09661785	10.30163170	0.097072001	10.35005390	1.004700440
84° 27′ 30″	0.99532623	0.09656960	10.30682780	0.097023063	10.35522570	1.004695712
84° 27′ 40″	0.99533091	0.09652134	10.31202909	0.096974125	10.36040269	1.004690988
84° 27′ 50″	0.99533559	0.09647309	10.31723558	0.096925188	10.36558489	1.004686266
84° 28′ 00″	0.99534027	0.09642483	10.32244729	0.096876252	10.37077229	1.004681546
84° 28′ 10″	0.99534494	0.09637658	10.32766421	0.096827315	10.37596492	1.004676828
84° 28′ 20″	0.99534961	0.09632832	10.33288636	0.096778380	10.38116277	1.004672113
84° 28′ 30″	0.99535428	0.09628007	10.33811374	0.096729445	10.38636586	1.004667400
84° 28′ 40″	0.99535895	0.09623181	10.34334637	0.096680510	10.39157419	1.004662690
84° 28′ 50″	0.99536361	0.09618355	10.34858425	0.096631575	10.39678777	1.004657982
84° 29′ 00″	0.99536828	0.09613530	10.35382739	0.096582642	10.40200661	1.004653277
84° 29′ 10″	0.99537294	0.09608704	10.35907579	0.096533708	10.40723072	1.004648574
84° 29′ 20″	0.99537759	0.09603878	10.36432947	0.096484775	10.41246010	1.004643873
84° 29′ 30″	0.99538225	0.09599053	10.36958843	0.096435843	10.41769476	1.004639175
84° 29′ 40″	0.99538690	0.09594227	10.37485268	0.096386911	10.42293471	1.004634479
84° 29′ 50″	0.99539155	0.09589401	10.38012223	0.096337979	10.42817997	1.004629786
84° 30′ 00″	0.99539620	0.09584575	10.38539708	0.096289048	10.43343052	1.004625095
84° 30′ 10″	0.99540084	0.09579749	10.39067725	0.096240118	10.43868640	1.004620406
84° 30′ 20″	0.99540549	0.09574924	10.39596274	0.096191187	10.44394759	1.004615720
84° 30′ 30″	0.99541013	0.09570098	10.40125356	0.096142258	10.44921412	1.004611036
84° 30′ 40″	0.99541477	0.09565272	10.40654972	0.096093328	10.45448598	1.004606355
84° 30′ 50″	0.99541940	0.09560446	10.41185123	0.096044400	10.45976319	1.004601676
84° 31′ 00″	0.99542404	0.09555620	10.41715810	0.095995471	10.46504576	1.004596999
84° 31′ 10″	0.99542867	0.09550794	10.42247032	0.095946543	10.47033369	1.004592325
84° 31′ 20″	0.99543330	0.09545968	10.42778792	0.095897616	10.47562699	1.004587653
84° 31′ 30″	0.99543792	0.09541142	10.43311089	0.095848689	10.48092567	1.004582984
84° 31′ 40″ 84° 31′ 50″	0.99544255	0.09536316	10.43843926	0.095799762	10.48622974	1.004578317
04 31 30"	0.99544717	0.09531490	10.44377302	0.095750836	10.49153920	1.004573652

634 84° 31′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
84° 32′ 00″	0.99545179	0.09526664	10.44911218	0.095701911	10.49685407	1.004568990
84° 32′ 10″	0.99545641	0.09521838	10.45445676	0.095652985	10.50217435	1.004564330
84° 32′ 20″	0.99546102	0.09517012	10.45980675	0.095604061	10.50750005	1.004559673
84° 32′ 30″	0.99546564	0.09512185	10.46516218	0.095555136	10.51283118	1.004555018
84° 32′ 40″	0.99547025	0.09507359	10.47052304	0.095506213	10.51816775	1.004550365
84° 32′ 50″	0.99547485	0.09502533	10.47588935	0.095457289	10.52350976	1.004545715
84° 33′ 00″	0.99547946	0.09497707	10.48126111	0.095408366	10.52885722	1.004541068
84° 33′ 10″	0.99548406	0.09492881	10.48663833	0.095359444	10.53421015	1.004536422
84° 33′ 20″	0.99548867	0.09488054	10.49202103	0.095310522	10.53956855	1.004531779
84° 33′ 30″	0.99549326	0.09483228	10.49740920	0.095261600	10.54493243	1.004527139
84° 33′ 40″	0.99549786	0.09478402	10.50280286	0.095212679	10.55030179	1.004522501
84° 33′ 50″	0.99550245	0.09473576	10.50820202	0.095163759	10.55567665	1.004517865
84° 34′ 00″	0.99550705	0.09468749	10.51360667	0.095114838	10.56105702	1.004513232
84° 34′ 10″	0.99551164	0.09463923	10.51901685	0.095065919	10.56644289	1.004508601
84° 34′ 20″	0.99551622	0.09459096	10.52443254	0.095016999	10.57183429	1.004503972
84° 34′ 30″	0.99552081	0.09454270	10.52985376	0.094968081	10.57723122	1.004499346
84° 34′ 40″	0.99552539	0.09449444	10.53528052	0.094919162	10.58263368	1.004494722
84° 34′ 50″	0.99552997	0.09444617	10.54071283	0.094870244	10.58804169	1.004490101
84° 35′ 00″	0.99553455	0.09439791	10.54615069	0.094821327	10.59345526	1.004485482
84° 35′ 10″	0.99553912	0.09434964	10.55159411	0.094772410	10.59887439	1.004480866
84° 35′ 20″	0.99554370	0.09430138	10.55704311	0.094723493	10.60429909	1.004476252
84° 35′ 30″	0.99554827	0.09425311	10.56249769	0.094674577	10.60972938	1.004471640
84° 35′ 40″	0.99555283	0.09420485	10.56795786	0.094625661	10.61516525	1.004467031
84° 35′ 50″	0.99555740	0.09415658	10.57342362	0.094576746	10.62060672	1.004462424
84° 36′ 00″	0.99556196	0.09410831	10.57889499	0.094527831	10.62605380	1.004457819
84° 36′ 10″	0.99556653	0.09406005	10.58437198	0.094478917	10.63150649	1.004453217
84° 36′ 20″	0.99557108	0.09401178	10.58985459	0.094430003	10.63696480	1.004448618
84° 36′ 30″	0.99557564	0.09396351	10.59534283	0.094381089	10.64242875	1.004444020
84° 36′ 40″	0.99558020	0.09391525	10.60083672	0.094332176	10.64789834	1.004439426
84° 36′ 50″	0.99558475	0.09386698	10.60633625	0.094283264	10.65337358	1.004434833
84° 37′ 00″	0.99558930	0.09381871	10.61184145	0.094234352	10.65885448	1.004430243
84° 37′ 10″	0.99559384	0.09377044	10.61735231	0.094185440	10.66434105	1.004425655
84° 37′ 20″ 84° 37′ 30″	0.99559839	0.09372218	10.62286884	0.094136529	10.66983329	1.004421070
84° 37′ 40″	0.99560293	0.09367391 0.09362564	10.62839107 10.63391898	0.094087618 0.094038708	10.67533122 10.68083484	1.004416487 1.004411907
84° 37′ 50″	0.99561201	0.07362364	10.63341848	0.093989798	10.68634417	1.004411707
84° 38′ 00″	0.99561655	0.09352910	10.63743260	0.073767776	10.68634417	1.004407327
84° 38′ 10″	0.99562108	0.07332710	10.65053698	0.093891980	10.69737996	1.004402733
84° 38′ 20″	0.99562561	0.07348083	10.65608776	0.073871780	10.70290644	1.004393609
84° 38′ 30″	0.77562561	0.07343236	10.66164428	0.093794163	10.70270844	1.004373607
84° 38′ 40″	0.99563467	0.07333603	10.66720654	0.073774163	10.71397664	1.004384475
84° 38′ 50″	0.99563919	0.09328776	10.67277457	0.093696348	10.71952037	1.004379911
84° 39′ 00″	0.99564371	0.07323770	10.67834835	0.093647441	10.72506986	1.004375350
84° 39′ 10″	0.99564823	0.07323747	10.68392791	0.093598535	10.73062513	1.004370791
84° 39′ 20″	0.99565275	0.07317122	10.68951326	0.093549629	10.73618618	1.004366235
84° 39′ 30″	0.99565726	0.07314273	10.69510439	0.093500724	10.74175302	1.004361681
84° 39′ 40″	0.99566177	0.09304640	10.70070133	0.093451819	10.74732567	1.004357129
84° 39′ 50″	0.99566628	0.09299813	10.70630408	0.093402914	10.75290412	1.004352580
	1.7.7.000020	3.07277013		2.075102711	.0., 02/0112	

635 **84° 39′ 50″**

84º 40′ 00″ 0.99567079 0.09294986 10.71191265 0.093354010 10.75848839 1.004348033 84º 40′ 10″ 0.99567330 0.0929159 10.71752704 0.093305100 10.76407850 1.004343488 84º 40′ 30″ 0.9956880 0.09285332 10.72314727 0.09325023 10.76667444 1.004338946 84º 40′ 40″ 0.99568880 0.09275677 10.73440529 0.093108309 10.77527622 1.004334946 84º 40′ 40″ 0.99568880 0.0927657 10.73440529 0.093108946 10.78649373 1.0043229870 84º 41′ 00″ 0.9956979 0.09266023 10.74568676 0.093060595 10.79211675 1.0043229820 84º 41′ 10″ 0.99569779 0.09266023 10.74568676 0.093060595 10.79211675 1.004320802 84º 41′ 10″ 0.99570222 0.09216196 10.75133632 0.092101694 10.77974202 1.004316272 84º 41′ 30″ 0.99571125 0.09251541 10.76265312 0.002913893 10.89091023 1.00431745 84º 41′ 40″ 0.99571757 0.09251541 10.76265312 0.09291893 10.88091023 1.004307220 84º 41′ 50″ 0.99572022 0.09241886 10.77399357 0.092864993 10.841645320 1.004302867 84º 42′ 00″ 0.99572918 0.09237059 10.77967268 0.092767195 10.82595692 1.004289143 84º 42′ 20″ 0.99573812 0.09222576 10.79674569 0.092669399 10.83728438 1.004289143 84º 42′ 30″ 0.99573812 0.09212714 10.78635169 0.09256104 10.84295705 1.004289143 84º 42′ 30″ 0.99573812 0.09212716 10.8241862 0.092571604 10.88463568 1.004289143 84º 42′ 30″ 0.99574579 0.09217749 10.80244862 0.092571604 10.88463568 1.004286119 84º 43′ 40″ 0.99574579 0.09217749 10.80234862 0.092571604 10.88463568 1.004278613 84º 43′ 40″ 0.99578459 0.09217749 10.80234862 0.092571604 10.88463568 1.004278613 84º 43′ 40″ 0.99578785 0.09218781 10.88387510 0.092571604 10.88463568 1.004278613 84º 43′ 40″ 0.99578780 0.09187839 10.83233018 0.092376021 10.87419719 10.00426610 84º 43′ 40″ 0.99578782 0.09187839 10.82532018 0.092376021 10.87419109 1.00426610 84º 43′ 40″ 0.99578782 0.0918781 10.8385750 0.092287281 10.88835339 1.004278611 84º 43′ 40″ 0.99578782 0.0918781 10.88253018 0.092376021 10.87191919 10.00426661 84º 43′ 40″ 0.99578782 0.0918781 10.88251019 0.09188873 10.9948893 10.09428644 10.9958893 10.00428648 10.9958893 10.09189381 10.09428661 10.9958873 10.0942868 10.0942868	<u> x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
84° 40′ 20″	84° 40′ 00″	0.99567079	0.09294986	10.71191265	0.093354010	10.75848839	1.004348033
84° 40′ 30″ 0.99568430 0.09280505 10.72877355 0.093207300 10.77527622 1.0043234870 84° 40′ 50″ 0.99569329 0.09270850 10.74004309 0.093108398 10.78088386 1.0043229870 84° 41′ 00″ 0.99569779 0.09266023 10.74004309 0.093108496 10.78649737 1.004322832 84° 41′ 20″ 0.99570677 0.09266033 10.75136362 0.093060595 10.79211675 1.004316272 84° 41′ 30″ 0.99571125 0.09261196 10.75699177 0.092962793 10.80337317 1.004311745 84° 41′ 40″ 0.99571125 0.09221541 10.76326312 0.09281893 10.80301023 1.004307220 84° 41′ 50″ 0.99572022 0.09241886 10.77397357 0.092816094 10.82030210 1.004298143 84° 42′ 20″ 0.99573815 0.092237059 10.77967268 0.092271795 10.82595692 1.004298143 84° 42′ 20″ 0.99573812 0.092227404 10.7914874 0.09260501 10.84257505 1.00422814630 84° 42′ 20″ 0.99574796<	84° 40′ 10″	0.99567530	0.09290159	10.71752704	0.093305106	10.76407850	1.004343488
84° 40′ 40″	84° 40′ 20″	0.99567980	0.09285332	10.72314727	0.093256203	10.76967444	1.004338946
84° 40′ 50″ 0.99569329 0.09270850 10.74004309 0.09316946 10.78649737 1.004325335 84° 41′ 10″ 0.99569779 0.09266023 10.74568676 0.093066959 10.78649737 1.004320802 84° 41′ 10″ 0.99570228 0.09261196 10.75133632 0.093016694 10.79774202 1.004316272 84° 41′ 30″ 0.99571125 0.09251541 10.75697177 0.092962793 10.80337317 1.004311672 84° 41′ 30″ 0.99571574 0.09246714 10.76633239 0.092864993 10.8165320 1.004302697 84° 42′ 10″ 0.99572022 0.09241886 10.77397357 0.092816094 10.82030210 1.004288134 84° 42′ 10″ 0.99573470 0.09237059 10.77967268 0.092761795 10.821595692 10.004289143 84° 42′ 10″ 0.99573365 0.09227404 10.79104874 0.092669399 10.8316168 1.004228113 84° 42′ 20″ 0.99574525 0.0921291 10.80815752 0.0922571604 10.84863668 84° 43′ 20″ 0.99575645 0.09213661	84° 40′ 30″	0.99568430	0.09280505	10.72877335	0.093207300	10.77527622	1.004334407
84° 41′ 00″ 0.99569779 0.09266023 10.74568676 0.09360595 10.79211675 1.004320802 84° 41′ 10″ 0.99570228 0.0926196 10.7563263 0.09301694 10.79774202 10.04316272 84° 41′ 30″ 0.99571677 0.09256368 10.75699177 0.092962793 10.80337317 1.004307220 84° 41′ 40″ 0.99571574 0.09246714 10.76265312 0.092913893 10.809971023 1.004307220 84° 41′ 50″ 0.99572022 0.09241886 10.737399357 0.092860994 10.8239510 10.04298156 84° 42′ 10″ 0.9957218 0.09237059 10.77967268 0.092767195 10.82595692 1.004298163 84° 42′ 20″ 0.99573336 0.09227404 10.79674569 0.09260950 10.84295705 1.004288163 84° 42′ 50″ 0.995754259 0.09217749 10.8024862 0.092571604 10.84295705 1.004280176 84° 43′ 10″ 0.99575645 0.09191749 10.80815752 0.092571604 10.84863568 1.0042256110 84° 43′ 20″ 0.99576941	84° 40′ 40″	0.99568880	0.09275677	10.73440529	0.093158398	10.78088386	1.004329870
84° 41′ 10″ 0.99570228 0.09261196 10.75133632 0.093011694 10.79774202 1.004316272 84° 41′ 20″ 0.99570677 0.09256368 10.75699177 0.092262793 10.80337317 1.004307220 84° 41′ 30″ 0.99571125 0.09251541 10.76265312 0.09231883 10.80901023 1.004307220 84° 41′ 50″ 0.99572470 0.09246714 10.76832039 0.092864993 10.81465320 1.004302697 84° 42′ 10″ 0.99572470 0.09223759 10.77967268 0.092767195 10.82302010 1.004289176 84° 42′ 10″ 0.99573185 0.092227404 10.79104874 0.0922669399 10.83728438 1.004289118 84° 42′ 40″ 0.99574259 0.09217291 10.80815752 0.092257604 10.894862 0.092571604 10.84863568 1.00428716 84° 42′ 50″ 0.99575559 0.09212921 10.80815752 0.092252078 10.85432029 1.004271165 84° 43′ 10″ 0.99576045 0.0918439 10.82532018 0.092473812 10.8660108 10.846601	84° 40′ 50″	0.99569329	0.09270850	10.74004309	0.093109496	10.78649737	1.004325335
84° 41′ 20″ 0.99570677 0.092516368 10.75699177 0.092962793 10.80337317 1.004311745 84° 41′ 30″ 0.99571125 0.09251541 10.76265312 0.092913893 10.80901023 1.004307220 84° 41′ 50″ 0.99571574 0.09246714 10.76382039 0.092816094 10.8165320 1.004298176 84° 42′ 00″ 0.99572470 0.09237059 10.77967268 0.0922767195 10.82595692 1.004293659 84° 42′ 20″ 0.99573365 0.09223231 10.78535774 0.09226399 10.83161768 10.04289143 84° 42′ 20″ 0.99573815 0.09222576 10.79674569 0.092669399 10.83728438 1.004284630 84° 42′ 40″ 0.99574159 0.09217749 10.80245669 0.092620501 10.84865568 1.004257601 84° 43′ 00″ 0.99574159 0.09203266 10.8195930 0.0924273812 10.86001089 1.004256101 84° 43′ 30″ 0.99576491 0.09193611 10.83675930 0.092237266 10.8795736930 0.092227721 10.8711008 10.0425611 <t< th=""><th>84° 41′ 00″</th><th>0.99569779</th><th>0.09266023</th><th>10.74568676</th><th>0.093060595</th><th>10.79211675</th><th>1.004320802</th></t<>	84° 41′ 00″	0.99569779	0.09266023	10.74568676	0.093060595	10.79211675	1.004320802
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84° 47′ 30″ 0.99587121 0.09077742 10.97047211 0.091153780 11.01595471 1.004145912	84° 47′ 20″	0.99586680					
84° 47′ 40″ 0.99587561 0.09072914 10.97635851 0.091104896 11.02181683 1.004141475	84° 47′ 30″	0.99587121					
	84° 47′ 40″	0.99587561			0.091104896		
84° 47′ 50″ 0.99588000 0.09068086 10.98225119 0.091056012 11.02768521 1.004137041	84° 47′ 50″	0.99588000	0.09068086	10.98225119	0.091056012	11.02768521	1.004137041

636 **84° 47′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
84° 48′ 00″	0.99588440	0.09063258	10.98815014	0.091007129	11.03355987	1.004132610
84° 48′ 10″	0.99588879	0.09058430	10.99405538	0.090958247	11.03944082	1.004128180
84° 48′ 20″	0.99589318	0.09053602	10.99996692	0.090909364	11.04532807	1.004123754
84° 48′ 30″	0.99589757	0.09048773	11.00588477	0.090860482	11.05122163	1.004119329
84° 48′ 40″	0.99590196	0.09043945	11.01180893	0.090811601	11.05712150	1.004114907
84° 48′ 50″	0.99590634	0.09039117	11.01773943	0.090762720	11.06302771	1.004110488
84° 49′ 00″	0.99591072	0.09034289	11.02367626	0.090713840	11.06894025	1.004106070
84° 49′ 10″	0.99591510	0.09029460	11.02961944	0.090664959	11.07485914	1.004101656
84° 49′ 20″	0.99591948	0.09024632	11.03556899	0.090616080	11.08078440	1.004097243
84° 49′ 30″	0.99592385	0.09019804	11.04152490	0.090567201	11.08671602	1.004092833
84° 49′ 40″	0.99592822	0.09014975	11.04748719	0.090518322	11.09265402	1.004088426
84° 49′ 50″	0.99593259	0.09010147	11.05345587	0.090469443	11.09859841	1.004084020
84° 50′ 00″	0.99593696	0.09005318	11.05943096	0.090420565	11.10454921	1.004079618
84° 50′ 10″	0.99594132	0.09000490	11.06541245	0.090371688	11.11050641	1.004075217
84° 50′ 20″	0.99594569	0.08995661	11.07140037	0.090322811	11.11647004	1.004070819
84° 50′ 30″	0.99595005	0.08990833	11.07739471	0.090273934	11.12244009	1.004066424
84° 50′ 40″	0.99595440	0.08986004	11.08339550	0.090225058	11.12841659	1.004062030
84° 50′ 50″	0.99595876	0.08981176	11.08940274	0.090176182	11.13439954	1.004057640
84° 51′ 00″	0.99596311	0.08976347	11.09541644	0.090127307	11.14038896	1.004053251
84° 51′ 10″	0.99596746	0.08971519	11.10143662	0.090078432	11.14638484	1.004048865
84° 51′ 20″	0.99597181	0.08966690	11.10746328	0.090029557	11.15238721	1.004044482
84° 51′ 30″	0.99597616	0.08961861	11.11349644	0.089980683	11.15839608	1.004040100
84° 51′ 40″	0.99598050	0.08957033	11.11953610	0.089931809	11.16441145	1.004035722
84° 51′ 50″	0.99598484	0.08952204	11.12558227	0.089882936	11.17043333	1.004031345
84° 52′ 00″	0.99598918	0.08947375	11.13163497	0.089834063	11.17646175	1.004026971
84° 52′ 10″	0.99599352	0.08942547	11.13769421	0.089785191	11.18249669	1.004022600
84° 52′ 20″	0.99599785	0.08937718	11.14376000	0.089736319	11.18853819	1.004018230
84° 52′ 30″	0.99600218	0.08932889	11.14983234	0.089687447	11.19458624	1.004013864
84° 52′ 40″	0.99600651	0.08928061	11.15591125	0.089638576	11.20064087	1.004009499
84° 52′ 50″	0.99601084	0.08923232	11.16199674	0.089589705	11.20670207	1.004005137
84° 53′ 00″	0.99601516	0.08918403	11.16808882	0.089540835	11.21276986	1.004000777
84° 53′ 10″	0.99601949	0.08913574	11.17418750	0.089491965	11.21884425	1.003996420
84° 53′ 20″	0.99602381	0.08908745	11.18029279	0.089443096	11.22492525	1.003992065
84° 53′ 30″	0.99602813	0.08903916	11.18640471	0.089394227	11.23101288	1.003987713
84° 53′ 40″	0.99603244	0.08899088	11.19252325	0.089345358	11.23710714	1.003983363
84° 53′ 50″ 84° 54′ 00″	0.99603675	0.08894259	11.19864844	0.089296490	11.24320804	1.003979015
	0.99604107	0.08889430	11.20478029	0.089247622	11.24931559	1.003974670
84° 54′ 10″ 84° 54′ 20″	0.99604537	0.08884601	11.21091880	0.089198755	11.25542982	1.003970327
84° 54′ 30″	0.99604968	0.08879772	11.21706399	0.089149888 0.089101022	11.26155072 11.26767830	1.003965987
84° 54′ 40″	0.99605398	0.08874943	11.22321586			1.003961649
84° 54′ 40″ 84° 54′ 50″	0.99605829	0.08870114 0.08865285	11.22937444 11.23553972	0.089052156 0.089003290	11.27381259 11.27995358	1.003957313 1.003952980
84° 55′ 00″	0.99606238	0.08860456	11.23555972	0.089003290	11.27993338	1.003932980
84° 55′ 10″	0.99607118	0.08855627	11.241/11/2	0.088905560	11.29225574	1.003948649
84° 55′ 20″	0.99607547	0.08850797	11.25407593	0.088856696	11.29243374	1.003944320
84° 55′ 30″	0.99607976	0.08845968	11.26026816	0.088807832	11.30458487	1.003737774
84° 55′ 40″	0.99608405	0.08841139	11.26646716	0.088758968	11.31075958	1.003733671
84° 55′ 50″	0.99608833	0.08836310	11.27267293	0.088710105	11.31673736	1.003931349
=======================================	0.77000033	0.00030310	11.21201213	0.000/10103	11.310/4100	1.003/2/031

637 **84° 55′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
84° 56′ 00″	0.99609261	0.08831481	11.27888549	0.088661242	11.32312933	1.003922714
84° 56′ 10″	0.99609689	0.08826652	11.28510484	0.088612380	11.32932440	1.003918400
84° 56′ 20″	0.99610117	0.08821822	11.29133100	0.088563518	11.33552627	1.003914088
84° 56′ 30″	0.99610545	0.08816993	11.29756399	0.088514657	11.34173497	1.003909779
84° 56′ 40″	0.99610972	0.08812164	11.30380381	0.088465796	11.34795050	1.003905472
84° 56′ 50″	0.99611399	0.08807335	11.31005046	0.088416935	11.35417287	1.003901168
84° 57′ 00″	0.99611826	0.08802505	11.31630398	0.088368075	11.36040209	1.003896866
84° 57′ 10″	0.99612253	0.08797676	11.32256436	0.088319215	11.36663818	1.003892566
84° 57′ 20″	0.99612679	0.08792847	11.32883161	0.088270356	11.37288115	1.003888269
84° 57′ 30″	0.99613105	0.08788017	11.33510576	0.088221497	11.37913101	1.003883974
84° 57′ 40″	0.99613531	0.08783188	11.34138680	0.088172639	11.38538776	1.003879681
84° 57′ 50″	0.99613957	0.08778358	11.34767475	0.088123781	11.39165143	1.003875391
84° 58′ 00″	0.99614382	0.08773529	11.35396963	0.088074923	11.39792202	1.003871103
84° 58′ 10″	0.99614808	0.08768700	11.36027144	0.088026066	11.40419954	1.003866818
84° 58′ 20″	0.99615233	0.08763870	11.36658020	0.087977209	11.41048401	1.003862535
84° 58′ 30″	0.99615657	0.08759041	11.37289591	0.087928352	11.41677544	1.003858255
84° 58′ 40″	0.99616082	0.08754211	11.37921859	0.087879496	11.42307383	1.003853976
84° 58′ 50″	0.99616506	0.08749382	11.38554825	0.087830641	11.42937921	1.003849701
84° 59′ 00″	0.99616930	0.08744552	11.39188491	0.087781786	11.43569157	1.003845427
84° 59′ 10″	0.99617354	0.08739722	11.39822856	0.087732931	11.44201094	1.003841156
84° 59′ 20″	0.99617778	0.08734893	11.40457923	0.087684077	11.44833733	1.003836888
84° 59′ 30″	0.99618201	0.08730063	11.41093693	0.087635223	11.45467074	1.003832622
84° 59′ 40″	0.99618624	0.08725234	11.41730167	0.087586369	11.46101119	1.003828358
84° 59′ 50″	0.99619047	0.08720404	11.42367345	0.087537516	11.46735868	1.003824097
85° 00′ 00″	0.99619470	0.08715574	11.43005230	0.087488664	11.47371325	1.003819838
85° 00′ 10″	0.99619892	0.08710745	11.43643822	0.087439811	11.48007488	1.003815581
85° 00′ 20″	0.99620314	0.08705915	11.44283123	0.087390959	11.48644360	1.003811327
85° 00′ 30″	0.99620736	0.08701085	11.44923134	0.087342108	11.49281942	1.003807075
85° 00′ 40″	0.99621158	0.08696255	11.45563855	0.087293257	11.49920234	1.003802826
85° 00′ 50″	0.99621580	0.08691426	11.46205288	0.087244406	11.50559239	1.003798579
85° 01′ 00″	0.99622001	0.08686596	11.46847435	0.087195556	11.51198957	1.003794334
85° 01′ 10″	0.99622422	0.08681766	11.47490296	0.087146706	11.51839390	1.003790092
85° 01′ 20″	0.99622843	0.08676936	11.48133873	0.087097857	11.52480538	1.003785852
85° 01′ 30″	0.99623263	0.08672106	11.48778167	0.087049008	11.53122403	1.003781615
85° 01′ 40″	0.99623684	0.08667276	11.49423178	0.087000160	11.53764986	1.003777380
85° 01′ 50″	0.99624104	0.08662446	11.50068909	0.086951312	11.54408288	1.003773147
85° 02′ 00″	0.99624523	0.08657617	11.50715361	0.086902464	11.55052311	1.003768917
85° 02′ 10″	0.99624943	0.08652787	11.51362534	0.086853617	11.55697056	1.003764689
85° 02′ 20″ 85° 02′ 30″	0.99625362	0.08647957	11.52010430	0.086804770	11.56342523	1.003760463
	0.99625782	0.08643127	11.52659050	0.086755923	11.56988715	1.003756240
85° 02′ 40″ 85° 02′ 50″	0.99626201	0.08638297	11.53308396	0.086707077	11.57635632	1.003752020
85° 03′ 00″	0.99626619	0.08633467	11.53958468	0.086658231	11.58283275	1.003747802
85° 03′ 00″ 85° 03′ 10″	0.99627038	0.08628637 0.08623807	11.54609268 11.55260797	0.086609386 0.086560541	11.58931647 11.59580747	1.003743586 1.003739372
85° 03′ 10″ 85° 03′ 20″	0.99627436	0.08623807	11.55260797	0.086560541	11.60230578	
85° 03′ 30″	0.99627874	0.08618976	11.56566047	0.086462853	11.60230378	1.003735161 1.003730952
85° 03′ 40″	0.99628709	0.08609316	11.56566047	0.086414009	11.61532434	1.003730932
85° 03′ 50″	0.99629126	0.08604486	11.57874227	0.086365166	11.61332434	1.003726746
	0.7/02/120	0.00004400	11.3/0/444/	0.000303100	11.04104403	1.003/22342

638 **85° 03′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
85° 04′ 00″	0.99629543	0.08599656	11.58529420	0.086316323	11.62837227	1.003718341
85° 04′ 10″	0.99629960	0.08594826	11.59185348	0.086267481	11.63490727	1.003714142
85° 04′ 20″	0.99630377	0.08589995	11.59842015	0.086218639	11.64144965	1.003709945
85° 04′ 30″	0.99630793	0.08585165	11.60499420	0.086169797	11.64799942	1.003705751
85° 04′ 40″	0.99631209	0.08580335	11.61157566	0.086120956	11.65455659	1.003701559
85° 04′ 50″	0.99631625	0.08575505	11.61816453	0.086072116	11.66112117	1.003697369
85° 05′ 00″	0.99632041	0.08570674	11.62476082	0.086023275	11.66769318	1.003693182
85° 05′ 10″	0.99632456	0.08565844	11.63136456	0.085974435	11.67427263	1.003688997
85° 05′ 20″	0.99632871	0.08561014	11.63797575	0.085925596	11.68085954	1.003684815
85° 05′ 30″	0.99633286	0.08556183	11.64459440	0.085876757	11.68745390	1.003680635
85° 05′ 40″	0.99633701	0.08551353	11.65122053	0.085827918	11.69405575	1.003676458
85° 05′ 50″	0.99634115	0.08546523	11.65785415	0.085779080	11.70066508	1.003672282
85° 06′ 00″	0.99634530	0.08541692	11.66449527	0.085730242	11.70728192	1.003668110
85° 06′ 10″	0.99634944	0.08536862	11.67114391	0.085681404	11.71390627	1.003663939
85° 06′ 20″	0.99635357	0.08532031	11.67780008	0.085632567	11.72053816	1.003659771
85° 06′ 30″	0.99635771	0.08527201	11.68446378	0.085583731	11.72717758	1.003655606
85° 06′ 40″	0.99636184	0.08522370	11.69113505	0.085534894	11.73382455	1.003651443
85° 06′ 50″	0.99636597	0.08517540	11.69781387	0.085486058	11.74047910	1.003647282
85° 07′ 00″	0.99637010	0.08512709	11.70450028	0.085437223	11.74714122	1.003643123
85° 07′ 10″	0.99637423	0.08507879	11.71119428	0.085388388	11.75381094	1.003638967
85° 07′ 20″	0.99637835	0.08503048	11.71789589	0.085339553	11.76048826	1.003634814
85° 07′ 30″	0.99638247	0.08498218	11.72460512	0.085290719	11.76717320	1.003630663
85° 07′ 40″	0.99638659	0.08493387	11.73132197	0.085241885	11.77386577	1.003626514
85° 07′ 50″	0.99639071	0.08488557	11.73804647	0.085193052	11.78056599	1.003622367
85° 08′ 00″	0.99639482	0.08483726	11.74477863	0.085144219	11.78727386	1.003618223
85° 08′ 10″	0.99639893	0.08478895	11.75151846	0.085095386	11.79398941	1.003614082
85° 08′ 20″	0.99640304	0.08474064	11.75826598	0.085046554	11.80071264	1.003609942
85° 08′ 30″	0.99640715	0.08469234	11.76502119	0.084997722	11.80744357	1.003605805
85° 08′ 40″	0.99641125	0.08464403	11.77178411	0.084948891	11.81418221	1.003601671
85° 08′ 50″	0.99641536	0.08459572	11.77855476	0.084900060	11.82092857	1.003597539
85° 09′ 00″	0.99641946	0.08454742	11.78533314	0.084851229	11.82768267	1.003593409
85° 09′ 10″	0.99642355	0.08449911	11.79211928	0.084802399	11.83444452	1.003589282
85° 09′ 20″	0.99642765	0.08445080	11.79891317	0.084753569	11.84121413	1.003585157
85° 09′ 30″	0.99643174	0.08440249	11.80571485	0.084704739	11.84799152	1.003581035
85° 09′ 40″	0.99643583	0.08435418	11.81252431	0.084655910	11.85477670	1.003576914
85° 09′ 50″	0.99643992	0.08430587	11.81934158	0.084607082	11.86156969	1.003572797
85° 10′ 00″	0.99644401	0.08425757	11.82616667	0.084558254	11.86837049	1.003568681
85° 10′ 10″	0.99644809	0.08420926	11.83299958	0.084509426	11.87517912	1.003564568
85° 10′ 20″	0.99645217	0.08416095	11.83984034	0.084460598	11.88199560	1.003560458
85° 10′ 30″	0.99645625	0.08411264	11.84668896	0.084411771	11.88881993	1.003556350
85° 10′ 40″	0.99646033	0.08406433	11.85354545	0.084362945	11.89565214	1.003552244
85° 10′ 50″	0.99646440	0.08401602	11.86040983	0.084314119	11.90249223	1.003548141
85° 11′ 00″	0.99646848	0.08396771	11.86728210	0.084265293	11.90934022	1.003544040
85° 11′ 10″ 85° 11′ 20″	0.99647255	0.08391940	11.87416229	0.084216467	11.91619613	1.003539941
85° 11′ 20″ 85° 11′ 30″	0.99647661	0.08387109	11.88105040	0.084167642	11.92305995	1.003535845
85° 11′ 40″	0.99648068	0.08382278	11.88794646	0.084118818	11.92993172	1.003531751
85° 11′ 50″	0.99648474	0.08377447 0.08372615	11.89485046 11.90176243	0.084069993 0.084021170	11.93681145 11.94369914	1.003527660 1.003523571
=======================================	0.77040000	0.003/2013	11./01/0243	0.004021170	11,/4307714	1.003343371

639 **85° 11′ 50″**

<u> </u>	sin(x)	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
85° 12′ 00″	0.99649286	0.08367784	11.90868239	0.083972346	11.95059481	1.003519484
85° 12′ 10″	0.99649691	0.08362953	11.91561034	0.083923523	11.95749847	1.003515400
85° 12′ 20″	0.99650097	0.08358122	11.92254630	0.083874701	11.96441015	1.003511318
85° 12′ 30″	0.99650502	0.08353291	11.92949028	0.083825878	11.97132985	1.003507239
85° 12′ 40″	0.99650907	0.08348460	11.93644230	0.083777056	11.97825758	1.003503162
85° 12′ 50″	0.99651311	0.08343628	11.94340237	0.083728235	11.98519337	1.003499087
85° 13′ 00″	0.99651716	0.08338797	11.95037050	0.083679414	11.99213722	1.003495015
85° 13′ 10″	0.99652120	0.08333966	11.95734671	0.083630593	11.99908915	1.003490945
85° 13′ 20″	0.99652524	0.08329135	11.96433102	0.083581773	12.00604917	1.003486877
85° 13′ 30″	0.99652928	0.08324303	11.97132343	0.083532953	12.01301730	1.003482812
85° 13′ 40″	0.99653331	0.08319472	11.97832397	0.083484134	12.01999356	1.003478749
85° 13′ 50″	0.99653734	0.08314641	11.98533264	0.083435315	12.02697794	1.003474689
85° 14′ 00″	0.99654137	0.08309809	11.99234946	0.083386496	12.03397048	1.003470631
85° 14′ 10″	0.99654540	0.08304978	11.99937444	0.083337678	12.04097118	1.003466576
85° 14′ 20″	0.99654943	0.08300147	12.00640760	0.083288860	12.04798006	1.003462523
85° 14′ 30″	0.99655345	0.08295315	12.01344896	0.083240042	12.05499713	1.003458472
85° 14′ 40″	0.99655747	0.08290484	12.02049852	0.083191225	12.06202241	1.003454423
85° 14′ 50″	0.99656149	0.08285652	12.02755630	0.083142409	12.06905591	1.003450377
85° 15′ 00″	0.99656550	0.08280821	12.03462232	0.083093592	12.07609765	1.003446334
85° 15′ 10″	0.99656952	0.08275989	12.04169659	0.083044776	12.08314763	1.003442293
85° 15′ 20″	0.99657353	0.08271158	12.04877912	0.082995961	12.09020589	1.003438254
85° 15′ 30″	0.99657754	0.08266326	12.05586994	0.082947146	12.09727242	1.003434218
85° 15′ 40″	0.99658154	0.08261495	12.06296904	0.082898331	12.10434724	1.003430184
85° 15′ 50″	0.99658555	0.08256663	12.07007646	0.082849517	12.11143037	1.003426152
85° 16′ 00″	0.99658955	0.08251831	12.07719220	0.082800703	12.11852183	1.003422123
85° 16′ 10″	0.99659355	0.08247000	12.08431627	0.082751889	12.12562162	1.003418096
85° 16′ 20″	0.99659754	0.08242168	12.09144870	0.082703076	12.13272977	1.003414071
85° 16′ 30″	0.99660154	0.08237337	12.09858950	0.082654263	12.13984628	1.003410049
85° 16′ 40″	0.99660553	0.08232505	12.10573867	0.082605451	12.14697118	1.003406030
85° 16′ 50″	0.99660952	0.08227673	12.11289625	0.082556639	12.15410447	1.003402012
85° 17′ 00″	0.99661351	0.08222842	12.12006223	0.082507827	12.16124617	1.003397998
85° 17′ 10″	0.99661750	0.08218010	12.12723664	0.082459016	12.16839630	1.003393985
85° 17′ 20″	0.99662148	0.08213178	12.13441950	0.082410205	12.17555487	1.003389975
85° 17′ 30″	0.99662546	0.08208346	12.14161081	0.082361395	12.18272190	1.003385967
85° 17′ 40″	0.99662944	0.08203514	12.14881059	0.082312585	12.18989740	1.003381962
85° 17′ 50″	0.99663341	0.08198683	12.15601885	0.082263775	12.19708139	1.003377959
85° 18′ 00″	0.99663739	0.08193851	12.16323562	0.082214966	12.20427387	1.003373958
85° 18′ 10″	0.99664136	0.08189019	12.17046090	0.082166157	12.21147487	1.003369960
85° 18′ 20″	0.99664533	0.08184187	12.17769472	0.082117348	12.21868441	1.003365965
85° 18′ 30″	0.99664929	0.08179355	12.18493708	0.082068540	12.22590249	1.003361971
85° 18′ 40″ 85° 18′ 50″	0.99665326	0.08174523	12.19218801	0.082019733	12.23312913	1.003357980
85° 19′ 00″	0.99665722	0.08169691 0.08164860	12.19944751	0.081970925	12.24036435	1.003353992
85° 19′ 00″ 85° 19′ 10″	0.99666514		12.20671560	0.081922118 0.081873312	12.24760816	1.003350005
85° 19′ 10″ 85° 19′ 20″		0.08160028	12.21399230		12.25486058 12.26212163	1.003346022
85° 19′ 30″	0.99666909	0.08155196	12.22127763	0.081824506	12.26212163	1.003342040
85° 19′ 40″	0.99667304	0.08150364 0.08145532	12.22857159 12.23587420	0.081775700 0.081726894	12.26939131	1.003338061 1.003334085
85° 19′ 50″	0.99668094	0.08143332	12.23387420	0.081728874	12.27666764	1.003334083
=======================================	0.77000074	0.00140700	14.47310347	0.0010/0007	14.403/3003	1.003330110

640 **85° 19′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
85° 20′ 00″	0.99668489	0.08135867	12.25050546	0.081629285	12.29125234	1.003326138
85° 20′ 10″	0.99668883	0.08131035	12.25783413	0.081580481	12.29855672	1.003322169
85° 20′ 20″	0.99669277	0.08126203	12.26517151	0.081531677	12.30586983	1.003318202
85° 20′ 30″	0.99669671	0.08121371	12.27251763	0.081482873	12.31319166	1.003314237
85° 20′ 40″	0.99670065	0.08116539	12.27987249	0.081434070	12.32052225	1.003310275
85° 20′ 50″	0.99670458	0.08111707	12.28723612	0.081385268	12.32786159	1.003306315
85° 21′ 00″	0.99670851	0.08106875	12.29460852	0.081336465	12.33520972	1.003302358
85° 21′ 10″	0.99671244	0.08102043	12.30198972	0.081287663	12.34256663	1.003298402
85° 21′ 20″	0.99671637	0.08097210	12.30937973	0.081238862	12.34993236	1.003294450
85° 21′ 30″	0.99672029	0.08092378	12.31677856	0.081190061	12.35730692	1.003290499
85° 21′ 40″	0.99672421	0.08087546	12.32418624	0.081141260	12.36469031	1.003286551
85° 21′ 50″	0.99672813	0.08082714	12.33160277	0.081092460	12.37208256	1.003282606
85° 22′ 00″	0.99673205	0.08077881	12.33902818	0.081043660	12.37948369	1.003278663
85° 22′ 10″	0.99673597	0.08073049	12.34646247	0.080994860	12.38689370	1.003274722
85° 22′ 20″	0.99673988	0.08068217	12.35390567	0.080946061	12.39431262	1.003270783
85° 22′ 30″	0.99674379	0.08063384	12.36135780	0.080897262	12.40174047	1.003266847
85° 22′ 40″	0.99674770	0.08058552	12.36881886	0.080848464	12.40917724	1.003262914
85° 22′ 50″	0.99675160	0.08053720	12.37628887	0.080799665	12.41662298	1.003258982
85° 23′ 00″	0.99675551	0.08048887	12.38376785	0.080750868	12.42407768	1.003255054
85° 23′ 10″	0.99675941	0.08044055	12.39125582	0.080702070	12.43154137	1.003251127
85° 23′ 20″	0.99676331	0.08039222	12.39875279	0.080653274	12.43901406	1.003247203
85° 23′ 30″	0.99676720	0.08034390	12.40625878	0.080604477	12.44649577	1.003243281
85° 23′ 40″	0.99677110	0.08029557	12.41377380	0.080555681	12.45398651	1.003239362
85° 23′ 50″	0.99677499	0.08024725	12.42129788	0.080506885	12.46148631	1.003235445
85° 24′ 00″	0.99677888	0.08019892	12.42883102	0.080458090	12.46899517	1.003231531
85° 24′ 10″	0.99678277	0.08015060	12.43637325	0.080409295	12.47651312	1.003227619
85° 24′ 20″	0.99678665	0.08010227	12.44392457	0.080360500	12.48404016	1.003223709
85° 24′ 30″	0.99679053	0.08005395	12.45148502	0.080311706	12.49157633	1.003219801
85° 24′ 40″	0.99679441	0.08000562	12.45905459	0.080262912	12.49912162	1.003215897
85° 24′ 50″	0.99679829	0.07995730	12.46663332	0.080214118	12.50667607	1.003211994
85° 25′ 00″	0.99680217	0.07990897	12.47422121	0.080165325	12.51423968	1.003208094
85° 25′ 10″	0.99680604	0.07986064	12.48181829	0.080116532	12.52181248	1.003204196
85° 25′ 20″	0.99680991	0.07981232	12.48942457	0.080067740	12.52939448	1.003200301
85° 25′ 30″	0.99681378	0.07976399	12.49704006	0.080018948	12.53698569	1.003196408
85° 25′ 40″	0.99681764	0.07971566	12.50466479	0.079970156	12.54458614	1.003192517
85° 25′ 50″	0.99682151	0.07966734	12.51229877	0.079921365	12.55219584	1.003188629
85° 26′ 00″	0.99682537	0.07961901	12.51994201	0.079872574	12.55981481	1.003184743
85° 26′ 10″	0.99682923	0.07957068	12.52759454	0.079823784	12.56744306	1.003180859
85° 26′ 20″	0.99683308	0.07952235	12.53525637	0.079774994	12.57508061	1.003176978
85° 26′ 30″	0.99683694	0.07947403	12.54292752	0.079726204	12.58272748	1.003173100
85° 26′ 40″	0.99684079	0.07942570	12.55060801	0.079677415	12.59038369	1.003169223
85° 26′ 50″	0.99684464	0.07937737	12.55829784	0.079628626	12.59804924	1.003165349
85° 27′ 00″	0.99684849	0.07932904	12.56599705	0.079579837	12.60572417	1.003161478
85° 27′ 10″	0.99685233	0.07928071	12.57370564	0.079531049	12.61340849	1.003157609
85° 27′ 20″	0.99685617	0.07923238	12.58142364	0.079482261	12.62110220	1.003153742
85° 27′ 30″	0.99686001	0.07918405	12.58915106	0.079433474	12.62880534	1.003149878
85° 27′ 40″	0.99686385	0.07913572	12.59688792	0.079384687	12.63651792	1.003146016
85° 27′ 50″	0.99686769	0.07908740	12.60463423	0.079335900	12.64423996	1.003142156

641 85° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
85° 28′ 00″	0.99687152	0.07903907	12.61239001	0.079287114	12.65197146	1.003138299
85° 28′ 10″	0.99687535	0.07899074	12.62015529	0.079238328	12.65971246	1.003134444
85° 28′ 20″	0.99687918	0.07894241	12.62793008	0.079189542	12.66746297	1.003130591
85° 28′ 30″	0.99688300	0.07889408	12.63571439	0.079140757	12.67522300	1.003126741
85° 28′ 40″	0.99688683	0.07884575	12.64350824	0.079091972	12.68299257	1.003122894
85° 28′ 50″	0.99689065	0.07879741	12.65131165	0.079043188	12.69077171	1.003119049
85° 29′ 00″	0.99689447	0.07874908	12.65912464	0.078994403	12.69856042	1.003115206
85° 29′ 10″	0.99689829	0.07870075	12.66694723	0.078945620	12.70635873	1.003111365
85° 29′ 20″	0.99690210	0.07865242	12.67477943	0.078896836	12.71416665	1.003107527
85° 29′ 30″	0.99690591	0.07860409	12.68262127	0.078848053	12.72198421	1.003103691
85° 29′ 40″	0.99690972	0.07855576	12.69047275	0.078799271	12.72981141	1.003099858
85° 29′ 50″	0.99691353	0.07850743	12.69833390	0.078750489	12.73764829	1.003096027
85° 30′ 00″	0.99691733	0.07845910	12.70620474	0.078701707	12.74549484	1.003092198
85° 30′ 10″	0.99692114	0.07841076	12.71408527	0.078652925	12.75335110	1.003088372
85° 30′ 20″	0.99692494	0.07836243	12.72197553	0.078604144	12.76121708	1.003084549
85° 30′ 30″	0.99692873	0.07831410	12.72987553	0.078555364	12.76909281	1.003080727
85° 30′ 40″	0.99693253	0.07826577	12.73778529	0.078506583	12.77697828	1.003076908
85° 30′ 50″	0.99693632	0.07821743	12.74570482	0.078457803	12.78487354	1.003073091
85° 31′ 00″	0.99694011	0.07816910	12.75363414	0.078409024	12.79277858	1.003069277
85° 31′ 10″	0.99694390	0.07812077	12.76157328	0.078360244	12.80069344	1.003065465
85° 31′ 20″	0.99694769	0.07807243	12.76952225	0.078311465	12.80861813	1.003061656
85° 31′ 30″	0.99695147	0.07802410	12.77748106	0.078262687	12.81655267	1.003057849
85° 31′ 40″	0.99695525	0.07797577	12.78544974	0.078213909	12.82449707	1.003054044
85° 31′ 50″	0.99695903	0.07792743	12.79342831	0.078165131	12.83245136	1.003050242
85° 32′ 00″	0.99696281	0.07787910	12.80141678	0.078116354	12.84041555	1.003046442
85° 32′ 10″	0.99696659	0.07783077	12.80941517	0.078067577	12.84838966	1.003042644
85° 32′ 20″	0.99697036	0.07778243	12.81742350	0.078018800	12.85637372	1.003038849
85° 32′ 30″	0.99697413	0.07773410	12.82544179	0.077970024	12.86436773	1.003035057
85° 32′ 40″	0.99697789	0.07768576	12.83347006	0.077921248	12.87237172	1.003031266
85° 32′ 50″	0.99698166	0.07763743	12.84150832	0.077872472	12.88038571	1.003027478
85° 33′ 00″	0.99698542	0.07758909	12.84955660	0.077823697	12.88840971	1.003023693
85° 33′ 10″	0.99698918	0.07754076	12.85761492	0.077774922	12.89644375	1.003019909
85° 33′ 20″	0.99699294	0.07749242	12.86568328	0.077726148	12.90448784	1.003016129
85° 33′ 30″	0.99699670	0.07744408	12.87376172	0.077677374	12.91254200	1.003012350
85° 33′ 40″	0.99700045	0.07739575	12.88185025	0.077628600	12.92060625	1.003008574
85° 33′ 50″	0.99700420	0.07734741	12.88994889	0.077579827	12.92868061	1.003004800
85° 34′ 00″	0.99700795	0.07729908	12.89805765	0.077531054	12.93676510	1.003001029
85° 34′ 10″	0.99701170	0.07725074	12.90617657	0.077482281	12.94485973	1.002997260
85° 34′ 20″	0.99701544	0.07720240	12.91430565	0.077433509	12.95296454	1.002993494
85° 34′ 30″	0.99701918	0.07715407	12.92244491	0.077384737	12.96107953	1.002989730
85° 34′ 40″	0.99702292	0.07710573	12.93059438	0.077335965	12.96920472	1.002985968
85° 34′ 50″	0.99702666	0.07705739	12.93875408	0.077287194	12.97734014	1.002982208
85° 35′ 00″	0.99703039	0.07700906	12.94692401	0.077238423	12.98548580	1.002978451
85° 35′ 10″	0.99703413	0.07696072	12.95510421	0.077189653	12.99364172	1.002974697
85° 35′ 20″	0.99703786	0.07691238	12.96329470	0.077140883	13.00180793	1.002970945
85° 35′ 30″	0.99704158	0.07686404	12.97149548	0.077092113	13.00998444	1.002967195
85° 35′ 40″ 85° 35′ 50″	0.99704531	0.07681570	12.97970659	0.077043344	13.01817126	1.002963447
00 00 00"	0.77/04703	0.07676737	12.98792803	0.076994575	13.02636843	1.002959702

642 **85° 35′ 50″**

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
85° 36′ 00″	0.99705275	0.07671903	12.99615984	0.076945806	13.03457596	1.002955960
85° 36′ 10″	0.99705647	0.07667069	13.00440202	0.076897038	13.04279387	1.002952219
85° 36′ 20″	0.99706019	0.07662235	13.01265461	0.076848270	13.05102218	1.002948482
85° 36′ 30″	0.99706390	0.07657401	13.02091761	0.076799503	13.05926091	1.002944746
85° 36′ 40″	0.99706761	0.07652567	13.02919106	0.076750736	13.06751008	1.002941013
85° 36′ 50″	0.99707132	0.07647733	13.03747496	0.076701969	13.07576970	1.002937282
85° 37′ 00″	0.99707503	0.07642899	13.04576934	0.076653203	13.08403981	1.002933554
85° 37′ 10″	0.99707873	0.07638065	13.05407422	0.076604437	13.09232041	1.002929828
85° 37′ 20″	0.99708243	0.07633231	13.06238962	0.076555671	13.10061153	1.002926104
85° 37′ 30″	0.99708613	0.07628397	13.07071556	0.076506906	13.10891320	1.002922383
85° 37′ 40″	0.99708983	0.07623563	13.07905205	0.076458141	13.11722542	1.002918664
85° 37′ 50″	0.99709352	0.07618729	13.08739913	0.076409376	13.12554821	1.002914948
85° 38′ 00″	0.99709722	0.07613895	13.09575680	0.076360612	13.13388161	1.002911234
85° 38′ 10″	0.99710091	0.07609061	13.10412509	0.076311848	13.14222563	1.002907522
85° 38′ 20″	0.99710459	0.07604227	13.11250403	0.076263084	13.15058029	1.002903813
85° 38′ 30″	0.99710828	0.07599393	13.12089362	0.076214321	13.15894560	1.002900106
85° 38′ 40″	0.99711196	0.07594559	13.12929389	0.076165558	13.16732160	1.002896402
85° 38′ 50″	0.99711564	0.07589725	13.13770487	0.076116796	13.17570830	1.002892699
85° 39′ 00″	0.99711932	0.07584891	13.14612656	0.076068034	13.18410572	1.002889000
85° 39′ 10″	0.99712300	0.07580056	13.15455900	0.076019272	13.19251388	1.002885302
85° 39′ 20″	0.99712667	0.07575222	13.16300220	0.075970511	13.20093280	1.002881607
85° 39′ 30″	0.99713034	0.07570388	13.17145618	0.075921750	13.20936251	1.002877915
85° 39′ 40″	0.99713401	0.07565554	13.17992097	0.075872989	13.21780302	1.002874225
85° 39′ 50″	0.99713768	0.07560720	13.18839658	0.075824229	13.22625436	1.002870537
85° 40′ 00″	0.99714134	0.07555885	13.19688303	0.075775469	13.23471654	1.002866851
85° 40′ 10″	0.99714501	0.07551051	13.20538036	0.075726709	13.24318958	1.002863168
85° 40′ 20″	0.99714867	0.07546217	13.21388857	0.075677950	13.25167352	1.002859488
85° 40′ 30″	0.99715232	0.07541382	13.22240768	0.075629191	13.26016836	1.002855809
85° 40′ 40″	0.99715598	0.07536548	13.23093773	0.075580433	13.26867413	1.002852134
85° 40′ 50″ 85° 41′ 00″	0.99715963	0.07531714	13.23947873	0.075531675	13.27719086	1.002848460
85° 41′ 10″	0.99716328	0.07526879 0.07522045	13.24803070	0.075482917	13.28571855	1.002844789
85° 41′ 20″	0.99716693	0.07522045	13.25659366 13.26516764	0.075434159 0.075385402	13.29425724 13.30280694	1.002841120 1.002837454
85° 41′ 30″	0.99717422	0.07517211	13.27375265	0.075336646	13.31136767	1.002833790
85° 41′ 40″	0.99717786	0.07512576	13.28234871	0.075287889	13.31793946	1.002833770
85° 41′ 50″	0.99718150	0.07502707	13.29095586	0.075239133	13.32852233	1.002836469
85° 42′ 00″	0.99718513	0.07302707	13.29957410	0.075190378	13.32632233	1.002822812
85° 42′ 10″	0.99718877	0.07477073	13.30820347	0.075141622	13.34572139	1.002819158
85° 42′ 20″	0.99719240	0.07488204	13.31684398	0.075092867	13.35433763	1.002815506
85° 42′ 30″	0.99719603	0.07483369	13.32549565	0.075044113	13.36296502	1.002811856
85° 42′ 40″	0.99719966	0.07478535	13.33415851	0.074995359	13.37160361	1.002808209
85° 42′ 50″	0.99720328	0.07473700	13.34283257	0.074946605	13.38025340	1.002804564
85° 43′ 00″	0.99720690	0.07468865	13.35151787	0.074897851	13.38891442	1.002800921
85° 43′ 10″	0.99721052	0.07464031	13.36021441	0.074849098	13.39758669	1.002797281
85° 43′ 20″	0.99721414	0.07459196	13.36892223	0.074800345	13.40627024	1.002793644
85° 43′ 30″	0.99721775	0.07454362	13.37764135	0.074751593	13.41496508	1.002790008
85° 43′ 40″	0.99722137	0.07449527	13.38637178	0.074702841	13.42367123	1.002786375
85° 43′ 50″	0.99722498	0.07444692	13.39511355	0.074654089	13.43238873	1.002782745
	1 22 22.170	0.0. 1.10/2		2.2. 100 1007		

643 85° 43′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
85° 44′ 00″	0.99722859	0.07439858	13.40386668	0.074605338	13.44111759	1.002779116
85° 44′ 10″	0.99723219	0.07435023	13.41263120	0.074556587	13.44985783	1.002775491
85° 44′ 20″	0.99723579	0.07430188	13.42140712	0.074507836	13.45860948	1.002771867
85° 44′ 30″	0.99723940	0.07425353	13.43019447	0.074459086	13.46737255	1.002768246
85° 44′ 40″	0.99724299	0.07420519	13.43899327	0.074410336	13.47614708	1.002764627
85° 44′ 50″	0.99724659	0.07415684	13.44780354	0.074361586	13.48493308	1.002761011
85° 45′ 00″	0.99725019	0.07410849	13.45662531	0.074312837	13.49373057	1.002757397
85° 45′ 10″	0.99725378	0.07406014	13.46545860	0.074264088	13.50253959	1.002753786
85° 45′ 20″	0.99725737	0.07401179	13.47430343	0.074215339	13.51136014	1.002750177
85° 45′ 30″	0.99726095	0.07396345	13.48315982	0.074166591	13.52019226	1.002746570
85° 45′ 40″	0.99726454	0.07391510	13.49202780	0.074117843	13.52903596	1.002742965
85° 45′ 50″	0.99726812	0.07386675	13.50090738	0.074069096	13.53789128	1.002739363
85° 46′ 00″	0.99727170	0.07381840	13.50979860	0.074020348	13.54675822	1.002735764
85° 46′ 10″	0.99727528	0.07377005	13.51870148	0.073971602	13.55563682	1.002732167
85° 46′ 20″	0.99727885	0.07372170	13.52761603	0.073922855	13.56452710	1.002728572
85° 46′ 30″	0.99728243	0.07367335	13.53654228	0.073874109	13.57342907	1.002724979
85° 46′ 40″	0.99728600	0.07362500	13.54548025	0.073825363	13.58234277	1.002721389
85° 46′ 50″	0.99728956	0.07357665	13.55442997	0.073776618	13.59126822	1.002717801
85° 47′ 00″	0.99729313	0.07352830	13.56339147	0.073727873	13.60020544	1.002714216
85° 47′ 10″	0.99729669	0.07347995	13.57236475	0.073679128	13.60915445	1.002710633
85° 47′ 20″	0.99730026	0.07343160	13.58134985	0.073630384	13.61811528	1.002707053
85° 47′ 30″	0.99730381	0.07338325	13.59034680	0.073581640	13.62708795	1.002703474
85° 47′ 40″	0.99730737	0.07333490	13.59935560	0.073532896	13.63607248	1.002699899
85° 47′ 50″	0.99731093	0.07328655	13.60837629	0.073484153	13.64506890	1.002696325
85° 48′ 00″	0.99731448	0.07323820	13.61740890	0.073435410	13.65407723	1.002692754
85° 48′ 10″	0.99731803	0.07318985	13.62645344	0.073386667	13.66309750	1.002689186
85° 48′ 20″	0.99732157	0.07314149	13.63550993	0.073337925	13.67212972	1.002685619
85° 48′ 30″	0.99732512	0.07309314	13.64457841	0.073289183	13.68117393	1.002682055
85° 48′ 40″	0.99732866	0.07304479	13.65365889	0.073240441	13.69023014	1.002678494
85° 48′ 50″	0.99733220	0.07299644	13.66275141	0.073191700	13.69929838	1.002674935
85° 49′ 00″	0.99733574	0.07294809	13.67185597	0.073142959	13.70837867	1.002671378
85° 49′ 10″	0.99733927	0.07289973	13.68097262	0.073094218	13.71747104	1.002667824
85° 49′ 20″ 85° 49′ 30″	0.99734281	0.07285138	13.69010136	0.073045478	13.72657551	1.002664272
	0.99734634	0.07280303 0.07275468	13.69924224	0.072996738	13.73569211	1.002660722
85° 49′ 40″			13.70839526	0.072947999	13.74482086	1.002657175
85° 49′ 50″ 85° 50′ 00″	0.99735339	0.07270632	13.71756045	0.072899260	13.75396179	1.002653630
85° 50′ 10″	0.99735692	0.07265797	13.72673785	0.072850521	13.76311491	1.002650088
85° 50′ 20″	0.99736044	0.07260962	13.73592747	0.072801782	13.77228025 13.78145785	1.002646548
85° 50′ 30″	0.99736396	0.07256126 0.07251291	13.74512933	0.072753044 0.072704306		1.002643010 1.002639475
85° 50′ 40″	0.99737099	0.07231271	13.75434347 13.76356990	0.072704306	13.79064771 13.79984987	1.002635942
85° 50′ 50″	0.99737450	0.07246436	13.77280866	0.072606832	13.77704707	1.002633742
85° 51′ 00″	0.99737801	0.07241620	13.77200006	0.072558095	13.81829118	1.002632411
85° 51′ 10″	0.99738152	0.07231949	13.78203778	0.072509358	13.82753038	1.002625357
85° 51′ 20″	0.99738502	0.07231747	13.80059910	0.072307338	13.83678198	1.002623337
85° 51′ 30″	0.99738852	0.0722278	13.80988739	0.072411887	13.84604600	1.002621834
85° 51′ 40″	0.99739203	0.07222278	13.81918813	0.072363151	13.85532246	1.002616313
85° 51′ 50″	0.99739552	0.07217443	13.82850133	0.072314416	13.86461139	1.002611774
	0.77137332	0.07212007	13.02030133	5.07 <u>2</u> 3 1 7 1 10	13.00 101137	1.002011270

644 85° 51′ 50″

<u> x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
85° 52′ 00″	0.99739902	0.07207772	13.83782703	0.072265681	13.87391282	1.002607764
85° 52′ 10″	0.99740251	0.07202936	13.84716526	0.072216947	13.88322677	1.002604253
85° 52′ 20″	0.99740600	0.07198101	13.85651603	0.072168213	13.89255327	1.002600744
85° 52′ 30″	0.99740949	0.07193265	13.86587937	0.072119479	13.90189234	1.002597237
85° 52′ 40″	0.99741298	0.07188430	13.87525531	0.072070746	13.91124401	1.002593732
85° 52′ 50″	0.99741646	0.07183594	13.88464387	0.072022013	13.92060830	1.002590231
85° 53′ 00″	0.99741994	0.07178759	13.89404508	0.071973280	13.92998523	1.002586731
85° 53′ 10″	0.99742342	0.07173923	13.90345896	0.071924548	13.93937485	1.002583234
85° 53′ 20″	0.99742690	0.07169087	13.91288554	0.071875816	13.94877716	1.002579739
85° 53′ 30″	0.99743037	0.07164252	13.92232485	0.071827084	13.95819219	1.002576246
85° 53′ 40″	0.99743385	0.07159416	13.93177691	0.071778353	13.96761998	1.002572756
85° 53′ 50″	0.99743732	0.07154580	13.94124175	0.071729622	13.97706055	1.002569269
85° 54′ 00″	0.99744078	0.07149744	13.95071939	0.071680891	13.98651391	1.002565783
85° 54′ 10″	0.99744425	0.07144909	13.96020986	0.071632161	13.99598011	1.002562301
85° 54′ 20″	0.99744771	0.07140073	13.96971318	0.071583431	14.00545916	1.002558820
85° 54′ 30″	0.99745117	0.07135237	13.97922939	0.071534701	14.01495110	1.002555342
85° 54′ 40″	0.99745463	0.07130401	13.98875850	0.071485972	14.02445594	1.002551866
85° 54′ 50″	0.99745809	0.07125566	13.99830055	0.071437243	14.03397371	1.002548393
85° 55′ 00″	0.99746154	0.07120730	14.00785555	0.071388515	14.04350445	1.002544922
85° 55′ 10″	0.99746499	0.07115894	14.01742355	0.071339786	14.05304817	1.002541453
85° 55′ 20″	0.99746844	0.07111058	14.02700456	0.071291058	14.06260491	1.002537987
85° 55′ 30″	0.99747188	0.07106222	14.03659860	0.071242331	14.07217468	1.002534523
85° 55′ 40″	0.99747533	0.07101386	14.04620572	0.071193603	14.08175753	1.002531061
85° 55′ 50″	0.99747877	0.07096550	14.05582592	0.071144877	14.09135346	1.002527602
85° 56′ 00″	0.99748221	0.07091714	14.06545925	0.071096150	14.10096252	1.002524146
85° 56′ 10″	0.99748565	0.07086879	14.07510573	0.071047424	14.11058472	1.002520691
85° 56′ 20″	0.99748908	0.07082043	14.08476538	0.070998698	14.12022010	1.002517239
85° 56′ 30″	0.99749251	0.07077207	14.09443823	0.070949972	14.12986868	1.002513790
85° 56′ 40″	0.99749594	0.07072371	14.10412430	0.070901247	14.13953049	1.002510342
85° 56′ 50″	0.99749937	0.07067535	14.11382364	0.070852522	14.14920555	1.002506898
85° 57′ 00″	0.99750280	0.07062699	14.12353626	0.070803797	14.15889390	1.002503455
85° 57′ 10″	0.99750622	0.07057863	14.13326218	0.070755073	14.16859555	1.002500015
85° 57′ 20″	0.99750964	0.07053026	14.14300145	0.070706349	14.17831055	1.002496577
85° 57′ 30″	0.99751306	0.07048190	14.15275408	0.070657626	14.18803890	1.002493142
85° 57′ 40″	0.99751647	0.07043354	14.16252010	0.070608902	14.19778066	1.002489709
85° 57′ 50″	0.99751989	0.07038518	14.17229954	0.070560180	14.20753583	1.002486279
85° 58′ 00″	0.99752330	0.07033682	14.18209243	0.070511457	14.21730445	1.002482851
85° 58′ 10″	0.99752671	0.07028846	14.19189880	0.070462735	14.22708654	1.002479425
85° 58′ 20″	0.99753011	0.07024010	14.20171867	0.070414013	14.23688214	1.002476001
85° 58′ 30″	0.99753352	0.07019174	14.21155207	0.070365291	14.24669127	1.002472580
85° 58′ 40″	0.99753692	0.07014337	14.22139903	0.070316570	14.25651396	1.002469162
85° 58′ 50″	0.99754032	0.07009501	14.23125958	0.070267849	14.26635024	1.002465745
85° 59′ 00″	0.99754372	0.07004665	14.24113374	0.070219128	14.27620013	1.002462331
85° 59′ 10″	0.99754711	0.06999829	14.25102155	0.070170408	14.28606367	1.002458920
85° 59′ 20″	0.99755050	0.06994993	14.26092303	0.070121688	14.29594088	1.002455511
85° 59′ 30″	0.99755389	0.06990156	14.27083822	0.070072969	14.30583180	1.002452104
85° 59′ 40″	0.99755728	0.06985320	14.28076713	0.070024249	14.31573644	1.002448700
85° 59′ 50″	0.99756067	0.06980484	14.29070980	0.069975531	14.32565484	1.002445298

645 **85° 59′ 50″**

	gin(y)	aog(x)	$\tan(x)$	act(x)	sog(x)	aca(v)
<u>x</u>	$\sin(x)$	$\cos(x)$		$\cot(x)$	$\sec(x)$	csc(x)
86° 00′ 00″	0.99756405	0.06975647	14.30066626	0.069926812	14.33558703	1.002441898
86° 00′ 10″	0.99756743	0.06970811	14.31063653	0.069878094	14.34553303	1.002438501
86° 00′ 20″	0.99757081	0.06965975	14.32062065	0.069829376	14.35549288	1.002435106
86° 00′ 30″	0.99757419	0.06961138	14.33061864	0.069780658	14.36546660	1.002431714
86° 00′ 40″	0.99757756	0.06956302	14.34063053	0.069731941	14.37545422	1.002428323
86° 00′ 50″	0.99758093	0.06951466	14.35065635	0.069683224	14.38545577	1.002424936
86° 01′ 00″	0.99758430	0.06946629	14.36069614	0.069634507	14.39547129	1.002421550
86° 01′ 10″	0.99758767	0.06941793	14.37074991	0.069585791	14.40550079	1.002418167
86° 01′ 20″	0.99759103	0.06936956	14.38081770	0.069537075	14.41554431	1.002414787
86° 01′ 30″	0.99759439	0.06932120	14.39089955	0.069488359	14.42560188	1.002411409
86° 01′ 40″	0.99759775	0.06927283	14.40099546	0.069439644	14.43567353	1.002408033
86° 01′ 50″	0.99760111	0.06922447	14.41110549	0.069390929	14.44575929	1.002404659
86° 02′ 00″	0.99760446	0.06917610	14.42122965	0.069342214	14.45585918	1.002401288
86° 02′ 10″	0.99760782	0.06912774	14.43136798	0.069293500	14.46597324	1.002397920
86° 02′ 20″	0.99761117	0.06907937	14.44152051	0.069244786	14.47610150	1.002394553
86° 02′ 30″	0.99761451	0.06903101	14.45168726	0.069196073	14.48624399	1.002391189
86° 02′ 40″	0.99761786	0.06898264	14.46186827	0.069147359	14.49640073	1.002387828
86° 02′ 50″	0.99762120	0.06893427	14.47206357	0.069098646	14.50657175	1.002384469
86° 03′ 00″	0.99762454	0.06888591	14.48227318	0.069049933	14.51675709	1.002381112
86° 03′ 10″	0.99762788	0.06883754	14.49249714	0.069001221	14.52695678	1.002377757
86° 03′ 20″	0.99763122	0.06878918	14.50273548	0.068952509	14.53717085	1.002374405
86° 03′ 30″	0.99763455	0.06874081	14.51298822	0.068903797	14.54739933	1.002371056
86° 03′ 40″	0.99763788	0.06869244	14.52325541	0.068855086	14.55764224	1.002367708
86° 03′ 50″	0.99764121	0.06864408	14.53353706	0.068806375	14.56789962	1.002364364
86° 04′ 00″	0.99764454	0.06859571	14.54383321	0.068757664	14.57817150	1.002361021
86° 04′ 10″	0.99764786	0.06854734	14.55414389	0.068708954	14.58845791	1.002357681
86° 04′ 20″	0.99765119	0.06849897	14.56446913	0.068660244	14.59875888	1.002354343
86° 04′ 30″	0.99765451	0.06845061	14.57480896	0.068611534	14.60907445	1.002351008
86° 04′ 40″	0.99765782	0.06840224	14.58516342	0.068562825	14.61940463	1.002347675
86° 04′ 50″	0.99766114	0.06835387	14.59553252	0.068514115	14.62974947	1.002344344
86° 05′ 00″	0.99766445	0.06830550	14.60591632	0.068465407	14.64010900	1.002341016
86° 05′ 10″	0.99766776	0.06825713	14.61631483	0.068416698	14.65048324	1.002337690
86° 05′ 20″	0.99767107	0.06820877	14.62672809	0.068367990	14.66087223	1.002334366
86° 05′ 30″	0.99767438	0.06816040	14.63715612	0.068319282	14.67127600	1.002331045
86° 05′ 40″	0.99767768	0.06811203	14.64759897	0.068270575	14.68169458	1.002327727
86° 05′ 50″	0.99768098	0.06806366	14.65805666	0.068221868	14.69212800	1.002324410
86° 06′ 00″	0.99768428	0.06801529	14.66852922	0.068173161	14.70257629	1.002321096
86° 06′ 10″	0.99768758	0.06796692	14.67901669	0.068124454	14.71303949	1.002317785
86° 06′ 20″	0.99769087	0.06791855	14.68951910	0.068075748	14.72351763	1.002314475
86° 06′ 30″	0.99769416	0.06787018	14.70003648	0.068027042	14.73401074	1.002311168
86° 06′ 40″	0.99769745	0.06782181	14.71056886	0.067978337	14.74451885	1.002307864
86° 06′ 50″	0.99770074	0.06777344	14.72111627	0.067929631	14.75504199	1.002304562
86° 07′ 00″	0.99770402	0.06772507	14.73167875	0.067880926	14.76558020	1.002301262
86° 07′ 10″	0.99770730	0.06767670	14.74225632	0.067832222	14.77613351	1.002297965
86° 07′ 20″	0.99771058	0.06762833	14.75284903	0.067783517	14.78670195	1.002294670
86° 07′ 30″	0.99771386	0.06757996	14.76345690	0.067734814	14.79728555	1.002291377
86° 07′ 40″ 86° 07′ 50″	0.99771714	0.06753159	14.77407997	0.067686110	14.80788435	1.002288087
00 07 50"	0.99772041	0.06748322	14.78471827	0.067637407	14.81849838	1.002284799

646 **86° 07′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
86° 08′ 00″	0.99772368	0.06743485	14.79537182	0.067588704	14.82912767	1.002281514
86° 08′ 10″	0.77772368	0.06738648	14.80604068	0.067540001	14.83977225	1.002278231
86° 08′ 20″	0.99773021	0.06733811	14.81672486	0.067491298	14.85043216	1.002274950
86° 08′ 30″	0.99773348	0.06728974	14.82742440	0.067442596	14.86110744	1.002274730
86° 08′ 40″	0.99773674	0.06724136	14.83813933	0.067393895	14.87179810	1.002268396
86° 08′ 50″	0.99774000	0.06719299	14.84886969	0.067345193	14.88250420	1.002265122
86° 09′ 00″	0.99774325	0.06714462	14.85961552	0.067296492	14.89322575	1.002261851
86° 09′ 10″	0.99774651	0.06709625	14.87037683	0.067247791	14.90396280	1.002258582
86° 09′ 20″	0.99774976	0.06704788	14.88115368	0.067199091	14.91471538	1.002255316
86° 09′ 30″	0.99775301	0.06699950	14.89194608	0.067150391	14.92548351	1.002252052
86° 09′ 40″	0.99775626	0.06695113	14.90275408	0.067101691	14.93626724	1.002248790
86° 09′ 50″	0.99775950	0.06690276	14.91357771	0.067052992	14.94706661	1.002245531
86° 10′ 00″	0.99776274	0.06685439	14.92441700	0.067004292	14.95788163	1.002242274
86° 10′ 10″	0.99776598	0.06680601	14.93527199	0.066955593	14.96871235	1.002239019
86° 10′ 20″	0.99776922	0.06675764	14.94614271	0.066906895	14.97955881	1.002235767
86° 10′ 30″	0.99777246	0.06670927	14.95702920	0.066858197	14.99042102	1.002232517
86° 10′ 40″	0.99777569	0.06666089	14.96793148	0.066809499	15.00129904	1.002229270
86° 10′ 50″	0.99777892	0.06661252	14.97884961	0.066760801	15.01219289	1.002226025
86° 11′ 00″	0.99778215	0.06656415	14.98978359	0.066712104	15.02310262	1.002222782
86° 11′ 10″	0.99778537	0.06651577	15.00073349	0.066663407	15.03402824	1.002219542
86° 11′ 20″	0.99778860	0.06646740	15.01169932	0.066614710	15.04496980	1.002216304
86° 11′ 30″	0.99779182	0.06641902	15.02268112	0.066566014	15.05592734	1.002213068
86° 11′ 40″	0.99779504	0.06637065	15.03367893	0.066517318	15.06690089	1.002209835
86° 11′ 50″	0.99779825	0.06632228	15.04469279	0.066468622	15.07789047	1.002206604
86° 12′ 00″	0.99780147	0.06627390	15.05572272	0.066419927	15.08889614	1.002203376
86° 12′ 10″	0.99780468	0.06622553	15.06676877	0.066371232	15.09991792	1.002200150
86° 12′ 20″	0.99780789	0.06617715	15.07783097	0.066322537	15.11095585	1.002196926
86° 12′ 30″	0.99781110	0.06612878	15.08890935	0.066273842	15.12200997	1.002193705
86° 12′ 40″	0.99781430	0.06608040	15.10000395	0.066225148	15.13308030	1.002190486
86° 12′ 50″	0.99781750	0.06603202	15.11111481	0.066176454	15.14416689	1.002187269
86° 13′ 00″	0.99782070	0.06598365	15.12224196	0.066127761	15.15526977	1.002184055
86° 13′ 10″	0.99782390	0.06593527	15.13338544	0.066079068	15.16638898	1.002180844
86° 13′ 20″	0.99782710	0.06588690	15.14454528	0.066030375	15.17752456	1.002177634
86° 13′ 30″	0.99783029	0.06583852	15.15572152	0.065981682	15.18867653	1.002174427
86° 13′ 40″	0.99783348	0.06579014	15.16691420	0.065932990	15.19984494	1.002171222
86° 13′ 50″	0.99783667	0.06574177	15.17812334	0.065884298	15.21102982	1.002168020
86° 14′ 00″	0.99783986	0.06569339	15.18934900	0.065835606	15.22223121	1.002164820
86° 14′ 10″	0.99784304	0.06564502	15.20059121	0.065786915	15.23344915	1.002161623
86° 14′ 20″	0.99784622	0.06559664	15.21184999	0.065738224	15.24468367	1.002158428
86° 14′ 30″	0.99784940	0.06554826	15.22312539	0.065689533	15.25593481	1.002155235
86° 14′ 40″	0.99785258	0.06549988	15.23441745	0.065640843	15.26720260	1.002152044
86° 14′ 50″	0.99785575	0.06545151	15.24572621	0.065592153	15.27848708	1.002148856
86° 15′ 00″	0.99785892	0.06540313	15.25705169	0.065543463	15.28978830	1.002145671
86° 15′ 10″	0.99786209	0.06535475	15.26839394	0.065494773	15.30110628	1.002142488
86° 15′ 20″	0.99786526	0.06530637	15.27975299	0.065446084	15.31244107	1.002139307
86° 15′ 30″	0.99786843	0.06525800	15.29112888	0.065397395	15.32379270	1.002136128
86° 15′ 40″	0.99787159	0.06520962	15.30252166	0.065348707	15.33516120	1.002132952
86° 15′ 50″	0.99787475	0.06516124	15.31393135	0.065300018	15.34654663	1.002129778

647 86° 15′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
86° 16′ 00″	0.99787791	0.06511286	15.32535800	0.065251331	15.35794901	1.002126607
86° 16′ 10″	0.99788106	0.06506448	15.33680163	0.065202643	15.36936838	1.002123438
86° 16′ 20″	0.99788421	0.06501610	15.34826230	0.065153956	15.38080478	1.002120271
86° 16′ 30″	0.99788737	0.06496772	15.35974004	0.065105269	15.39225825	1.002117107
86° 16′ 40″	0.99789051	0.06491935	15.37123488	0.065056582	15.40372883	1.002113945
86° 16′ 50″	0.99789366	0.06487097	15.38274687	0.065007895	15.41521655	1.002110786
86° 17′ 00″	0.99789680	0.06482259	15.39427604	0.064959209	15.42672146	1.002107628
86° 17′ 10″	0.99789995	0.06477421	15.40582244	0.064910524	15.43824359	1.002104474
86° 17′ 20″	0.99790309	0.06472583	15.41738609	0.064861838	15.44978297	1.002101321
86° 17′ 30″	0.99790622	0.06467745	15.42896705	0.064813153	15.46133966	1.002098171
86° 17′ 40″	0.99790936	0.06462907	15.44056534	0.064764468	15.47291369	1.002095024
86° 17′ 50″	0.99791249	0.06458069	15.45218101	0.064715783	15.48450510	1.002091878
86° 18′ 00″	0.99791562	0.06453231	15.46381410	0.064667099	15.49611392	1.002088735
86° 18′ 10″	0.99791875	0.06448393	15.47546464	0.064618415	15.50774019	1.002085595
86° 18′ 20″	0.99792187	0.06443555	15.48713268	0.064569732	15.51938397	1.002082457
86° 18′ 30″	0.99792499	0.06438717	15.49881826	0.064521048	15.53104527	1.002079321
86° 18′ 40″	0.99792811	0.06433879	15.51052140	0.064472365	15.54272416	1.002076188
86° 18′ 50″	0.99793123	0.06429040	15.52224217	0.064423682	15.55442065	1.002073057
86° 19′ 00″	0.99793435	0.06424202	15.53398058	0.064375000	15.56613480	1.002069928
86° 19′ 10″	0.99793746	0.06419364	15.54573669	0.064326318	15.57786665	1.002066802
86° 19′ 20″	0.99794057	0.06414526	15.55751054	0.064277636	15.58961623	1.002063678
86° 19′ 30″	0.99794368	0.06409688	15.56930215	0.064228955	15.60138358	1.002060556
86° 19′ 40″	0.99794679	0.06404850	15.58111159	0.064180273	15.61316874	1.002057437
86° 19′ 50″	0.99794989	0.06400012	15.59293887	0.064131592	15.62497177	1.002054320
86° 20′ 00″	0.99795299	0.06395173	15.60478406	0.064082912	15.63679268	1.002051206
86° 20′ 10″	0.99795609	0.06390335	15.61664718	0.064034231	15.64863154	1.002048094
86° 20′ 20″	0.99795919	0.06385497	15.62852827	0.063985551	15.66048837	1.002044984
86° 20′ 30″	0.99796228	0.06380659	15.64042739	0.063936872	15.67236322	1.002041877
86° 20′ 40″	0.99796538	0.06375820	15.65234456	0.063888192	15.68425613	1.002038772
86° 20′ 50″	0.99796847	0.06370982	15.66427984	0.063839513	15.69616714	1.002035670
86° 21′ 00″	0.99797155	0.06366144	15.67623325	0.063790834	15.70809629	1.002032570
86° 21′ 10″	0.99797464	0.06361306	15.68820485	0.063742156	15.72004362	1.002029472
86° 21′ 20″	0.99797772	0.06356467	15.70019468	0.063693478	15.73200918	1.002026376
86° 21′ 30″	0.99798080	0.06351629	15.71220277	0.063644800	15.74399301	1.002023283
86° 21′ 40″	0.99798388	0.06346790	15.72422916	0.063596122	15.75599514	1.002020193
86° 21′ 50″	0.99798696	0.06341952	15.73627391	0.063547445	15.76801562	1.002017105
86° 22′ 00″	0.99799003	0.06337114	15.74833705	0.063498768	15.78005450	1.002014019
86° 22′ 10″	0.99799310	0.06332275	15.76041863	0.063450091	15.79211181	1.002010935
86° 22′ 20″	0.99799617	0.06327437	15.77251868	0.063401415	15.80418760	1.002007854
86° 22′ 30″	0.99799924	0.06322598	15.78463725	0.063352739	15.81628190	1.002004775
86° 22′ 40″ 86° 22′ 50″	0.99800230	0.06317760	15.79677439	0.063304063	15.82839477	1.002001699
86° 23′ 00″	0.99800536	0.06312922 0.06308083	15.80893013	0.063255387	15.84052625	1.001998625 1.001995553
86° 23′ 10″	0.99800842		15.82110451	0.063206712	15.85267637 15.86484518	
86° 23′ 10″ 86° 23′ 20″		0.06303245	15.83329759 15.84550940	0.063158037 0.063109363		1.001992484
86° 23′ 30″	0.99801453	0.06298406 0.06293568			15.87703272 15.88923905	1.001989417 1.001986352
86° 23′ 40″	0.99801759	0.06293568	15.85773999 15.86998939	0.063060688 0.063012014	15.88923905	1.001986332
86° 23′ 50″	0.99802368	0.06283891	15.88225766	0.063012014	15.91370820	1.001783270
=======================================	0.77002300	0.00203071	13.00443/00	0.004/03341	13./13/0040	1.001/00230

648 **86° 23′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
86° 24′ 00″	0.99802673	0.06279052	15.89454484	0.062914667	15.92597111	1.001977173
86° 24′ 10″	0.99802977	0.06274213	15.90685097	0.062865994	15.93825298	1.001974118
86° 24′ 20″	0.99803281	0.06269375	15.91917610	0.062817321	15.95055384	1.001971065
86° 24′ 30″	0.99803585	0.06264536	15.93152026	0.062768649	15.96287374	1.001968015
86° 24′ 40″	0.99803889	0.06259698	15.94388351	0.062719977	15.97521272	1.001964967
86° 24′ 50″	0.99804192	0.06254859	15.95626589	0.062671305	15.98757083	1.001961922
86° 25′ 00″	0.99804495	0.06250020	15.96866744	0.062622633	15.99994812	1.001958878
86° 25′ 10″	0.99804798	0.06245182	15.98108820	0.062573962	16.01234462	1.001955838
86° 25′ 20″	0.99805101	0.06240343	15.99352823	0.062525291	16.02476038	1.001952799
86° 25′ 30″	0.99805403	0.06235504	16.00598757	0.062476620	16.03719545	1.001949763
86° 25′ 40″	0.99805705	0.06230666	16.01846625	0.062427949	16.04964987	1.001946730
86° 25′ 50″	0.99806007	0.06225827	16.03096433	0.062379279	16.06212369	1.001943698
86° 26′ 00″	0.99806309	0.06220988	16.04348186	0.062330609	16.07461695	1.001940669
86° 26′ 10″	0.99806610	0.06216149	16.05601887	0.062281940	16.08712970	1.001937643
86° 26′ 20″	0.99806912	0.06211311	16.06857542	0.062233270	16.09966198	1.001934619
86° 26′ 30″	0.99807213	0.06206472	16.08115154	0.062184601	16.11221384	1.001931597
86° 26′ 40″	0.99807513	0.06201633	16.09374729	0.062135933	16.12478533	1.001928577
86° 26′ 50″	0.99807814	0.06196794	16.10636271	0.062087264	16.13737649	1.001925560
86° 27′ 00″	0.99808114	0.06191955	16.11899785	0.062038596	16.14998736	1.001922546
86° 27′ 10″	0.99808414	0.06187116	16.13165275	0.061989928	16.16261800	1.001919533
86° 27′ 20″	0.99808714	0.06182278	16.14432746	0.061941261	16.17526844	1.001916523
86° 27′ 30″	0.99809014	0.06177439	16.15702203	0.061892594	16.18793875	1.001913516
86° 27′ 40″	0.99809313	0.06172600	16.16973650	0.061843927	16.20062895	1.001910511
86° 27′ 50″	0.99809612	0.06167761	16.18247092	0.061795260	16.21333911	1.001907508
86° 28′ 00″	0.99809911	0.06162922	16.19522534	0.061746594	16.22606927	1.001904507
86° 28′ 10″	0.99810210	0.06158083	16.20799980	0.061697928	16.23881947	1.001901509
86° 28′ 20″	0.99810508	0.06153244	16.22079436	0.061649262	16.25158976	1.001898514
86° 28′ 30″	0.99810807	0.06148405	16.23360905	0.061600596	16.26438019	1.001895520
86° 28′ 40″	0.99811105	0.06143566	16.24644393	0.061551931	16.27719080	1.001892529
86° 28′ 50″	0.99811402	0.06138727	16.25929905	0.061503266	16.29002166	1.001889541
86° 29′ 00″	0.99811700	0.06133888	16.27217445	0.061454602	16.30287279	1.001886554
86° 29′ 10″	0.99811997	0.06129049	16.28507018	0.061405937	16.31574426	1.001883571
86° 29′ 20″	0.99812294	0.06124210	16.29798628	0.061357273	16.32863610	1.001880589
86° 29′ 30″	0.99812591	0.06119371	16.31092282	0.061308610	16.34154837	1.001877610
86° 29′ 40″	0.99812887	0.06114532	16.32387983	0.061259946	16.35448112	1.001874633
86° 29′ 50″	0.99813184	0.06109693	16.33685737	0.061211283	16.36743439	1.001871659
86° 30′ 00″	0.99813480	0.06104854	16.34985548	0.061162620	16.38040824	1.001868687
86° 30′ 10″	0.99813776	0.06100015	16.36287421	0.061113958	16.39340271	1.001865717
86° 30′ 20″	0.99814071	0.06095176	16.37591361	0.061065295	16.40641785	1.001862750
86° 30′ 30″	0.99814367	0.06090337	16.38897374	0.061016633	16.41945371	1.001859785
86° 30′ 40″	0.99814662	0.06085497	16.40205463	0.060967972	16.43251034	1.001856823
86° 30′ 50″	0.99814957	0.06080658	16.41515635	0.060919310	16.44558780	1.001853863
86° 31′ 00″	0.99815251	0.06075819	16.42827894	0.060870649	16.45868612	1.001850905
86° 31′ 10″	0.99815546	0.06070980	16.44142244	0.060821988	16.47180536	1.001847950
86° 31′ 20″	0.99815840	0.06066141	16.45458692	0.060773328	16.48494558	1.001844997
86° 31′ 30″	0.99816134	0.06061302	16.46777241	0.060724667	16.49810681	1.001842046
86° 31′ 40″	0.99816428	0.06056462	16.48097898	0.060676007	16.51128911	1.001839098
86° 31′ 50″	0.99816721	0.06051623	16.49420667	0.060627348	16.52449254	1.001836152

86° 31′ 50″

		, .				
<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	$\sec(x)$	$\csc(x)$
86° 32′ 00″	0.99817015	0.06046784	16.50745553	0.060578688	16.53771714	1.001833208
86° 32′ 10″	0.99817308	0.06041945	16.52072562	0.060530029	16.55096296	1.001830267
86° 32′ 20″	0.99817600	0.06037105	16.53401698	0.060481370	16.56423006	1.001827328
86° 32′ 30″	0.99817893	0.06032266	16.54732966	0.060432712	16.57751848	1.001824392
86° 32′ 40″	0.99818185	0.06027427	16.56066372	0.060384053	16.59082828	1.001821458
86° 32′ 50″	0.99818477	0.06022587	16.57401921	0.060335395	16.60415950	1.001818526
86° 33′ 00″	0.99818769	0.06017748	16.58739618	0.060286738	16.61751221	1.001815597
86° 33′ 10″	0.99819061	0.06012909	16.60079469	0.060238080	16.63088645	1.001812670
86° 33′ 20″	0.99819352	0.06008069	16.61421477	0.060189423	16.64428228	1.001809746
86° 33′ 30″	0.99819644	0.06003230	16.62765650	0.060140766	16.65769974	1.001806824
86° 33′ 40″	0.99819934	0.05998390	16.64111991	0.060092110	16.67113889	1.001803904
86° 33′ 50″	0.99820225	0.05993551	16.65460506	0.060043453	16.68459978	1.001800986
86° 34′ 00″	0.99820516	0.05988712	16.66811201	0.059994797	16.69808247	1.001798071
86° 34′ 10″	0.99820806	0.05983872	16.68164081	0.059946141	16.71158700	1.001795159
86° 34′ 20″	0.99821096	0.05979033	16.69519151	0.059897486	16.72511344	1.001792248
86° 34′ 30″	0.99821386	0.05974193	16.70876416	0.059848831	16.73866182	1.001789340
86° 34′ 40″	0.99821675	0.05969354	16.72235882	0.059800176	16.75223222	1.001786435
86° 34′ 50″	0.99821964	0.05964514	16.73597553	0.059751521	16.76582468	1.001783532
86° 35′ 00″	0.99822253	0.05959675	16.74961437	0.059702867	16.77943925	1.001780631
86° 35′ 10″	0.99822542	0.05954835	16.76327537	0.059654213	16.79307599	1.001777732
86° 35′ 20″	0.99822831	0.05949996	16.77695860	0.059605559	16.80673495	1.001774836
86° 35′ 30″	0.99823119	0.05945156	16.79066410	0.059556906	16.82041619	1.001771943
86° 35′ 40″	0.99823407	0.05940317	16.80439193	0.059508253	16.83411976	1.001769051
86° 35′ 50″	0.99823695	0.05935477	16.81814215	0.059459600	16.84784572	1.001766162
86° 36′ 00″	0.99823983	0.05930637	16.83191481	0.059410947	16.86159412	1.001763276
86° 36′ 10″	0.99824270	0.05925798	16.84570997	0.059362295	16.87536502	1.001760392
86° 36′ 20″	0.99824557	0.05920958	16.85952768	0.059313643	16.88915846	1.001757510
86° 36′ 30″	0.99824844	0.05916118	16.87336800	0.059264991	16.90297452	1.001754630
86° 36′ 40″	0.99825131	0.05911279	16.88723098	0.059216339	16.91681323	1.001751753
86° 36′ 50″	0.99825417	0.05906439	16.90111667	0.059167688	16.93067467	1.001748878
86° 37′ 00″	0.99825704	0.05901599	16.91502514	0.059119037	16.94455888	1.001746006
86° 37′ 10″	0.99825990	0.05896760	16.92895645	0.059070386	16.95846592	1.001743136
86° 37′ 20″	0.99826275	0.05891920	16.94291063	0.059021736	16.97239585	1.001740268
86° 37′ 30″	0.99826561	0.05887080	16.95688777	0.058973086	16.98634872	1.001737403
86° 37′ 40″	0.99826846	0.05882241	16.97088790	0.058924436	17.00032459	1.001734540 1.001731680
86° 37′ 50″ 86° 38′ 00″	0.99827131	0.05877401	16.98491109	0.058875787	17.01432351	
86° 38′ 00″ 86° 38′ 10″	0.99827416	0.05872561	16.99895739	0.058827137	17.02834555	1.001728822
86° 38′ 10″ 86° 38′ 20″	0.99827701	0.05867721	17.01302686	0.058778488	17.04239076	1.001725966
86° 38′ 30″	0.99827985	0.05862882	17.02711956 17.04123555	0.058729840 0.058681191	17.05645920	1.001723112
86° 38′ 40″	0.99828269 0.99828553	0.05858042 0.05853202		0.058632543	17.07055093 17.08466600	1.001720261
86° 38′ 50″	0.99828837	0.05848362	17.05537488	0.058583895	17.08466600	1.001717413
86° 39′ 00″	0.99829120	0.05843522	17.06953762 17.08372381	0.058535247	17.09880447	1.001714567 1.001711723
86° 39′ 10″	0.99829403	0.05838682	17.065/2561	0.058486600	17.11276641	1.001711723
86° 39′ 20″	0.99829686	0.05833843	17.07773333	0.058437953	17.12/13186	1.001706042
86° 39′ 30″	0.99829969	0.05829003	17.11216662	0.058389306		1.001708042
86° 39′ 40″	0.99829969	0.05829003	17.12642374	0.058389306	17.15559355 17.16984991	1.001703205
86° 39′ 50″	0.99830534	0.05824163	17.14070436	0.058292013	17.18413003	1.001/003/1
	0.77030334	0.03017323	17.13300074	0.030272013	17.10-13003	1.0010//33/

650 **86° 39′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\operatorname{csc}(x)$
86° 40′ 00″	0.99830816	0.05814483	17.16933693	0.058243367	17.19843396	1.001694709
86° 40′ 10″	0.99831098	0.05809643	17.18368899	0.058194722	17.21276176	1.001691882
86° 40′ 20″	0.99831379	0.05804803	17.19806499	0.058146076	17.22711349	1.001689057
86° 40′ 30″	0.99831660	0.05799963	17.21246498	0.058097431	17.24148922	1.001686234
86° 40′ 40″	0.99831942	0.05795123	17.22688902	0.058048786	17.25588900	1.001683414
86° 40′ 50″	0.99832222	0.05790283	17.24133717	0.058000142	17.27031290	1.001680596
86° 41′ 00″	0.99832503	0.05785443	17.25580950	0.057951497	17.28476097	1.001677781
86° 41′ 10″	0.99832783	0.05780603	17.27030607	0.057902853	17.29923327	1.001674967
86° 41′ 20″	0.99833063	0.05775763	17.28482693	0.057854210	17.31372987	1.001672157
86° 41′ 30″	0.99833343	0.05770923	17.29937215	0.057805566	17.32825083	1.001669348
86° 41′ 40″	0.99833623	0.05766083	17.31394178	0.057756923	17.34279620	1.001666542
86° 41′ 50″	0.99833902	0.05761243	17.32853590	0.057708280	17.35736606	1.001663739
86° 42′ 00″	0.99834182	0.05756403	17.34315456	0.057659637	17.37196046	1.001660938
86° 42′ 10″	0.99834461	0.05751563	17.35779782	0.057610995	17.38657946	1.001658139
86° 42′ 20″	0.99834739	0.05746722	17.37246575	0.057562353	17.40122313	1.001655342
86° 42′ 30″	0.99835018	0.05741882	17.38715841	0.057513711	17.41589152	1.001652548
86° 42′ 40″	0.99835296	0.05737042	17.40187586	0.057465069	17.43058471	1.001649756
86° 42′ 50″	0.99835574	0.05732202	17.41661816	0.057416428	17.44530275	1.001646967
86° 43′ 00″	0.99835852	0.05727362	17.43138538	0.057367787	17.46004571	1.001644180
86° 43′ 10″	0.99836129	0.05722522	17.44617758	0.057319146	17.47481365	1.001641395
86° 43′ 20″	0.99836407	0.05717681	17.46099483	0.057270505	17.48960664	1.001638613
86° 43′ 30″	0.99836684	0.05712841	17.47583718	0.057221865	17.50442473	1.001635833
86° 43′ 40″	0.99836961	0.05708001	17.49070470	0.057173225	17.51926799	1.001633055
86° 43′ 50″	0.99837237	0.05703161	17.50559746	0.057124586	17.53413649	1.001630280
86° 44′ 00″	0.99837514	0.05698321	17.52051552	0.057075946	17.54903029	1.001627507
86° 44′ 10″	0.99837790	0.05693480	17.53545895	0.057027307	17.56394946	1.001624737
86° 44′ 20″	0.99838066	0.05688640	17.55042781	0.056978668	17.57889405	1.001621969
86° 44′ 30″	0.99838341	0.05683800	17.56542216	0.056930029	17.59386414	1.001619203
86° 44′ 40″	0.99838617	0.05678959	17.58044207	0.056881391	17.60885979	1.001616440
86° 44′ 50″	0.99838892	0.05674119	17.59548760	0.056832753	17.62388107	1.001613679
86° 45′ 00″	0.99839167	0.05669279	17.61055883	0.056784115	17.63892804	1.001610920
86° 45′ 10″ 86° 45′ 20″	0.99839442	0.05664438	17.62565581	0.056735478	17.65400076	1.001608164
86° 45′ 30″	0.99839991	0.05659598 0.05654758	17.64077862 17.65592732	0.056686840 0.056638203	17.66909931 17.68422374	1.001605410 1.001602659
86° 45′ 40″	0.99840265	0.05649917	17.63372732	0.056589566	17.69937414	1.001502637
86° 45′ 50″	0.99840538	0.05645077	17.68630265	0.056540930	17.71455055	1.001597163
86° 46′ 00″	0.77840338	0.05640236	17.70152941	0.056492294	17.71433033	1.001577163
86° 46′ 10″	0.99841085	0.05635396	17.71678234	0.056443658	17.74498172	1.001574417
86° 46′ 20″	0.99841358	0.05630556	17.73206149	0.056395022	17.76023661	1.001571077
86° 46′ 30″	0.99841631	0.05625715	17.74736693	0.056346387	17.77551780	1.001586200
86° 46′ 40″	0.99841904	0.05620875	17.74730073	0.056297752	17.79082534	1.001583465
86° 46′ 50″	0.99842176	0.05616034	17.77805696	0.056249117	17.80615931	1.001580732
86° 47′ 00″	0.99842448	0.05611194	17.77344169	0.056200482	17.82151978	1.001578002
86° 47′ 10″	0.99842720	0.05606353	17.80885299	0.056151848	17.83690682	1.001575274
86° 47′ 20″	0.99842992	0.05601513	17.82429092	0.056103214	17.85232049	1.001572549
86° 47′ 30″	0.99843263	0.05596672	17.83975555	0.056054580	17.86776086	1.001569826
86° 47′ 40″	0.99843535	0.05591832	17.85524696	0.056005946	17.88322801	1.001567105
86° 47′ 50″	0.99843806	0.05586991	17.87076521	0.055957313	17.89872200	1.001564387
	1					

651 86° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{\mathbf{csc}}(\mathbf{x})$
86° 48′ 00″	0.99844076	0.05582150	17.88631038	0.055908680	17.91424291	1.001561671
86° 48′ 10″	0.99844347	0.05577310	17.90188253	0.055860047	17.92979080	1.001558957
86° 48′ 20″	0.99844617	0.05572469	17.91748173	0.055811415	17.94536574	1.001556246
86° 48′ 30″	0.99844887	0.05567629	17.93310806	0.055762782	17.96096781	1.001553537
86° 48′ 40″	0.99845157	0.05562788	17.94876158	0.055714150	17.97659707	1.001550831
86° 48′ 50″	0.99845427	0.05557947	17.96444237	0.055665519	17.99225360	1.001548127
86° 49′ 00″	0.99845696	0.05553107	17.98015050	0.055616887	18.00793747	1.001545425
86° 49′ 10″	0.99845965	0.05548266	17.99588603	0.055568256	18.02364875	1.001542726
86° 49′ 20″	0.99846234	0.05543425	18.01164905	0.055519625	18.03938751	1.001540029
86° 49′ 30″	0.99846503	0.05538585	18.02743962	0.055470994	18.05515382	1.001537334
86° 49′ 40″	0.99846771	0.05533744	18.04325782	0.055422364	18.07094776	1.001534642
86° 49′ 50″	0.99847039	0.05528903	18.05910372	0.055373734	18.08676939	1.001531952
86° 50′ 00″	0.99847307	0.05524063	18.07497738	0.055325104	18.10261880	1.001529264
86° 50′ 10″	0.99847575	0.05519222	18.09087890	0.055276474	18.11849605	1.001526579
86° 50′ 20″	0.99847842	0.05514381	18.10680833	0.055227845	18.13440122	1.001523896
86° 50′ 30″	0.99848109	0.05509540	18.12276575	0.055179216	18.15033439	1.001521216
86° 50′ 40″	0.99848376	0.05504700	18.13875123	0.055130587	18.16629561	1.001518538
86° 50′ 50″	0.99848643	0.05499859	18.15476486	0.055081958	18.18228498	1.001515862
86° 51′ 00″	0.99848910	0.05495018	18.17080670	0.055033330	18.19830256	1.001513189
86° 51′ 10″	0.99849176	0.05490177	18.18687683	0.054984702	18.21434844	1.001510518
86° 51′ 20″	0.99849442	0.05485336	18.20297533	0.054936074	18.23042267	1.001507849
86° 51′ 30″	0.99849708	0.05480495	18.21910226	0.054887446	18.24652534	1.001505183
86° 51′ 40″	0.99849973	0.05475655	18.23525771	0.054838819	18.26265653	1.001502519
86° 51′ 50″	0.99850239	0.05470814	18.25144174	0.054790192	18.27881631	1.001499858
86° 52′ 00″	0.99850504	0.05465973	18.26765445	0.054741565	18.29500476	1.001497199
86° 52′ 10″	0.99850769	0.05461132	18.28389590	0.054692939	18.31122195	1.001494542
86° 52′ 20″	0.99851033	0.05456291	18.30016616	0.054644313	18.32746795	1.001491888
86° 52′ 30″	0.99851298	0.05451450	18.31646532	0.054595687	18.34374286	1.001489236
86° 52′ 40″	0.99851562	0.05446609	18.33279346	0.054547061	18.36004673	1.001486586
86° 52′ 50″	0.99851826	0.05441768	18.34915065	0.054498435	18.37637966	1.001483939
86° 53′ 00″	0.99852090	0.05436927	18.36553696	0.054449810	18.39274172	1.001481294
86° 53′ 10″	0.99852353	0.05432086	18.38195248	0.054401185	18.40913298	1.001478651
86° 53′ 20″	0.99852616	0.05427245	18.39839729	0.054352560	18.42555353	1.001476011
86° 53′ 30″	0.99852879	0.05422404	18.41487146	0.054303936	18.44200344	1.001473373
86° 53′ 40″	0.99853142	0.05417563	18.43137507	0.054255312	18.45848279	1.001470738
86° 53′ 50″	0.99853405	0.05412722	18.44790820	0.054206688	18.47499166	1.001468105
86° 54′ 00″	0.99853667	0.05407881	18.46447093	0.054158064	18.49153014	1.001465474
86° 54′ 10″	0.99853929	0.05403040	18.48106334	0.054109441	18.50809829	1.001462846
86° 54′ 20″	0.99854191	0.05398199	18.49768551	0.054060817	18.52469620	1.001460220
86° 54′ 30″	0.99854453	0.05393358	18.51433753	0.054012195	18.54132395	1.001457596
86° 54′ 40″ 86° 54′ 50″	0.99854714	0.05388517	18.53101946	0.053963572	18.55798163	1.001454975
86° 55′ 00″	0.99854975	0.05383676	18.54773139	0.053914949	18.57466930	1.001452356
86° 55′ 10″	0.99855236	0.05378835	18.56447341	0.053866327	18.59138706	1.001449740 1.001447126
86° 55′ 20″	0.99855497	0.05373994 0.05369153	18.58124559 18.59804801	0.053817705 0.053769084	18.60813498 18.62491315	1.001447126
86° 55′ 30″	0.99856017	0.05364311	18.61488076	0.053769084	18.64172164	1.001444514
86° 55′ 40″	0.99856277	0.05359470	18.63174393	0.053720462	18.65856055	1.001441904
86° 55′ 50″	0.99856537	0.05354629	18.64863758	0.053623220	18.67542995	1.001439297
=======================================	0.77030337	0.03334047	10.04003/30	0.033023220	10.0/344773	1.001430073

652 86° 55′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
86° 56′ 00″	0.99856796	0.05349788	18.66556181	0.053574600	18.69232992	1.001434091
86° 56′ 10″	0.99857056	0.05344947	18.68251670	0.053525979	18.70926055	1.001431491
86° 56′ 20″	0.99857315	0.05340105	18.69950233	0.053477359	18.72622192	1.001428893
86° 56′ 30″	0.99857573	0.05335264	18.71651878	0.053428739	18.74321412	1.001426298
86° 56′ 40″	0.99857832	0.05330423	18.73356615	0.053380120	18.76023722	1.001423705
86° 56′ 50″	0.99858090	0.05325582	18.75064451	0.053331500	18.77729132	1.001421115
86° 57′ 00″	0.99858348	0.05320740	18.76775395	0.053282881	18.79437650	1.001418527
86° 57′ 10″	0.99858606	0.05315899	18.78489455	0.053234262	18.81149285	1.001415941
86° 57′ 20″	0.99858864	0.05311058	18.80206640	0.053185643	18.82864044	1.001413358
86° 57′ 30″	0.99859121	0.05306217	18.81926958	0.053137025	18.84581937	1.001410777
86° 57′ 40″	0.99859378	0.05301375	18.83650419	0.053088407	18.86302971	1.001408198
86° 57′ 50″	0.99859635	0.05296534	18.85377030	0.053039789	18.88027157	1.001405622
86° 58′ 00″	0.99859892	0.05291693	18.87106800	0.052991171	18.89754502	1.001403048
86° 58′ 10″	0.99860148	0.05286851	18.88839739	0.052942554	18.91485014	1.001400476
86° 58′ 20″	0.99860404	0.05282010	18.90575854	0.052893937	18.93218704	1.001397907
86° 58′ 30″	0.99860660	0.05277169	18.92315155	0.052845320	18.94955579	1.001395340
86° 58′ 40″	0.99860916	0.05272327	18.94057650	0.052796703	18.96695648	1.001392776
86° 58′ 50″	0.99861172	0.05267486	18.95803348	0.052748087	18.98438921	1.001390214
86° 59′ 00″	0.99861427	0.05262644	18.97552258	0.052699471	19.00185405	1.001387654
86° 59′ 10″	0.99861682	0.05257803	18.99304389	0.052650855	19.01935110	1.001385097
86° 59′ 20″	0.99861937	0.05252961	19.01059750	0.052602239	19.03688045	1.001382542
86° 59′ 30″	0.99862191	0.05248120	19.02818349	0.052553624	19.05444218	1.001379990
86° 59′ 40″	0.99862446	0.05243279	19.04580196	0.052505009	19.07203639	1.001377439
86° 59′ 50″	0.99862700	0.05238437	19.06345299	0.052456394	19.08966317	1.001374891
87° 00′ 00″	0.99862953	0.05233596	19.08113669	0.052407779	19.10732261	1.001372346
87° 00′ 10″	0.99863207	0.05228754	19.09885313	0.052359165	19.12501479	1.001369803
87° 00′ 20″	0.99863460	0.05223913	19.11660241	0.052310551	19.14273982	1.001367262
87° 00′ 30″	0.99863714	0.05219071	19.13438462	0.052261937	19.16049777	1.001364724
87° 00′ 40″	0.99863967	0.05214230	19.15219985	0.052213323	19.17828875	1.001362188
87° 00′ 50″	0.99864219	0.05209388	19.17004820	0.052164710	19.19611284	1.001359654
87° 01′ 00″	0.99864472	0.05204546	19.18792975	0.052116097	19.21397013	1.001357123
87° 01′ 10″	0.99864724	0.05199705	19.20584461	0.052067484	19.23186073	1.001354594
87° 01′ 20″	0.99864976	0.05194863	19.22379286	0.052018871	19.24978472	1.001352067
87° 01′ 30″	0.99865228	0.05190022	19.24177459	0.051970259	19.26774220	1.001349543
87° 01′ 40″	0.99865479	0.05185180	19.25978991	0.051921646	19.28573326	1.001347021
87° 01′ 50″	0.99865730	0.05180338	19.27783889	0.051873034	19.30375799	1.001344502
87° 02′ 00″	0.99865981	0.05175497	19.29592165	0.051824423	19.32181649	1.001341985
87° 02′ 10″	0.99866232	0.05170655	19.31403828	0.051775811	19.33990885	1.001339470
87° 02′ 20″	0.99866483	0.05165814	19.33218886	0.051727200	19.35803518	1.001336958
87° 02′ 30″	0.99866733	0.05160972	19.35037350	0.051678589	19.37619556	1.001334448
87° 02′ 40″	0.99866983	0.05156130	19.36859228	0.051629978	19.39439009	1.001331940
87° 02′ 50″	0.99867233	0.05151288	19.38684532	0.051581368	19.41261887	1.001329435
87° 03′ 00″	0.99867483	0.05146447	19.40513270	0.051532758	19.43088200	1.001326932
87° 03′ 10″	0.99867732	0.05141605	19.42345452	0.051484148	19.44917956	1.001324432
87° 03′ 20″	0.99867981	0.05136763	19.44181089	0.051435538	19.46751167	1.001321934
87° 03′ 30″	0.99868230	0.05131922	19.46020188	0.051386928	19.48587841	1.001319438
87° 03′ 40″ 87° 03′ 50″	0.99868479	0.05127080	19.47862762	0.051338319	19.50427988	1.001316944
<u>87 - 03 - 50"</u>	0.99868727	0.05122238	19.49708818	0.051289710	19.52271619	1.001314453

653 87° 03′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	csc(x)
87° 04′ 00″	0.99868975	0.05117396	19.51558368	0.051241101	19.54118744	1.001311965
87° 04′ 10″	0.99869223	0.05112554	19.53411421	0.051192493	19.55969371	1.001309478
87° 04′ 20″	0.99869471	0.05107713	19.55267988	0.051143884	19.57823512	1.001306994
87° 04′ 30″	0.99869719	0.05102871	19.57128077	0.051095276	19.59681176	1.001304513
87° 04′ 40″	0.99869966	0.05098029	19.58991700	0.051046669	19.61542373	1.001302034
87° 04′ 50″	0.99870213	0.05093187	19.60858866	0.050998061	19.63407113	1.001299557
87° 05′ 00″	0.99870460	0.05088345	19.62729585	0.050949454	19.65275407	1.001297082
87° 05′ 10″	0.99870706	0.05083503	19.64603868	0.050900847	19.67147264	1.001294610
87° 05′ 20″	0.99870953	0.05078662	19.66481725	0.050852240	19.69022695	1.001292140
87° 05′ 30″	0.99871199	0.05073820	19.68363166	0.050803633	19.70901710	1.001289673
87° 05′ 40″	0.99871445	0.05068978	19.70248201	0.050755027	19.72784320	1.001287208
87° 05′ 50″	0.99871690	0.05064136	19.72136840	0.050706421	19.74670534	1.001284745
87° 06′ 00″	0.99871936	0.05059294	19.74029095	0.050657815	19.76560363	1.001282285
87° 06′ 10″	0.99872181	0.05054452	19.75924975	0.050609209	19.78453817	1.001279827
87° 06′ 20″	0.99872426	0.05049610	19.77824491	0.050560604	19.80350908	1.001277371
87° 06′ 30″	0.99872671	0.05044768	19.79727653	0.050511998	19.82251644	1.001274918
87° 06′ 40″	0.99872915	0.05039926	19.81634472	0.050463393	19.84156038	1.001272467
87° 06′ 50″	0.99873159	0.05035084	19.83544959	0.050414789	19.86064098	1.001270019
87° 07′ 00″	0.99873403	0.05030242	19.85459123	0.050366184	19.87975837	1.001267573
87° 07′ 10″	0.99873647	0.05025400	19.87376976	0.050317580	19.89891265	1.001265129
87° 07′ 20″	0.99873890	0.05020558	19.89298528	0.050268976	19.91810391	1.001262688
87° 07′ 30″	0.99874134	0.05015716	19.91223791	0.050220372	19.93733228	1.001260249
87° 07′ 40″	0.99874377	0.05010874	19.93152774	0.050171769	19.95659786	1.001257812
87° 07′ 50″	0.99874620	0.05006032	19.95085488	0.050123165	19.97590075	1.001255378
87° 08′ 00″	0.99874862	0.05001190	19.97021946	0.050074562	19.99524106	1.001252946
87° 08′ 10″	0.99875105	0.04996348	19.98962156	0.050025960	20.01461891	1.001250516
87° 08′ 20″	0.99875347	0.04991506	20.00906131	0.049977357	20.03403440	1.001248089
87° 08′ 30″	0.99875589	0.04986664	20.02853881	0.049928755	20.05348764	1.001245664
87° 08′ 40″	0.99875830	0.04981822	20.04805417	0.049880153	20.07297875	1.001243242
87° 08′ 50″	0.99876072	0.04976980	20.06760750	0.049831551	20.09250783	1.001240822
87° 09′ 00″ 87° 09′ 10″	0.99876313	0.04972137	20.08719892	0.049782949	20.11207499	1.001238404
87° 09′ 10″ 87° 09′ 20″	0.99876554	0.04967295 0.04962453	20.10682854 20.12649646	0.049734348 0.049685746	20.13168035	1.001235989 1.001233576
87° 09′ 30″	0.99877035	0.04962433	20.12649646	0.047683746	20.15132402 20.17100610	1.001233376
87° 09′ 40″	0.99877275	0.04757611	20.14620280	0.049588545	20.17100610	1.001231163
87° 09′ 50″	0.99877515	0.04732767	20.18573120	0.049539944	20.17072672	1.001226757
87° 10′ 00″	0.77877313	0.04747727	20.20555348	0.047337744	20.23028401	1.001223948
87° 10′ 10″	0.77877733	0.04743084	20.22541463	0.047471344	20.25012091	1.001223748
87° 10′ 20″	0.99878234	0.04738242	20.24531477	0.047442744	20.26999680	1.001219148
87° 10′ 30″	0.99878473	0.04733400	20.26525401	0.047374144	20.28991179	1.001217148
87° 10′ 40″	0.99878712	0.04923715	20.28523248	0.049296946	20.30986599	1.001214357
87° 10′ 50″	0.99878950	0.04723713	20.30525028	0.049248346	20.32985954	1.001211965
87° 11′ 00″	0.99879189	0.04710073	20.32530753	0.049199748	20.34989253	1.001209576
87° 11′ 10″	0.99879427	0.04909189	20.34540434	0.049151149	20.36996509	1.001207189
87° 11′ 20″	0.99879665	0.04904346	20.36554084	0.049102551	20.39007734	1.001204804
87° 11′ 30″	0.99879902	0.04899504	20.38571715	0.049053952	20.41022939	1.001202422
87° 11′ 40″	0.99880140	0.04894662	20.40593337	0.049005355	20.43042136	1.001200042
87° 11′ 50″	0.99880377	0.04889819	20.42618964	0.048956757	20.45065337	1.001197665
	1					

654 87° 11′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
87° 12′ 00″	0.99880614	0.04884977	20.44648606	0.048908159	20.47092554	1.001195290
87° 12′ 10″	0.99880850	0.04880135	20.46682277	0.048859562	20.49123798	1.001192917
87° 12′ 20″	0.99881087	0.04875292	20.48719987	0.048810965	20.51159083	1.001190546
87° 12′ 30″	0.99881323	0.04870450	20.50761749	0.048762368	20.53198420	1.001188178
87° 12′ 40″	0.99881559	0.04865607	20.52807575	0.048713772	20.55241820	1.001185813
87° 12′ 50″	0.99881795	0.04860765	20.54857477	0.048665176	20.57289297	1.001183449
87° 13′ 00″	0.99882030	0.04855923	20.56911468	0.048616580	20.59340862	1.001181088
87° 13′ 10″	0.99882266	0.04851080	20.58969559	0.048567984	20.61396528	1.001178730
87° 13′ 20″	0.99882501	0.04846238	20.61031764	0.048519388	20.63456307	1.001176374
87° 13′ 30″	0.99882736	0.04841395	20.63098093	0.048470793	20.65520211	1.001174020
87° 13′ 40″	0.99882970	0.04836553	20.65168560	0.048422198	20.67588253	1.001171668
87° 13′ 50″	0.99883205	0.04831710	20.67243178	0.048373603	20.69660445	1.001169319
87° 14′ 00″	0.99883439	0.04826868	20.69321958	0.048325008	20.71736799	1.001166972
87° 14′ 10″	0.99883673	0.04822025	20.71404913	0.048276413	20.73817329	1.001164628
87° 14′ 20″	0.99883906	0.04817183	20.73492056	0.048227819	20.75902047	1.001162286
87° 14′ 30″	0.99884140	0.04812340	20.75583400	0.048179225	20.77990965	1.001159946
87° 14′ 40″	0.99884373	0.04807498	20.77678957	0.048130631	20.80084096	1.001157609
87° 14′ 50″	0.99884606	0.04802655	20.79778739	0.048082038	20.82181453	1.001155274
87° 15′ 00″	0.99884839	0.04797813	20.81882760	0.048033444	20.84283049	1.001152941
87° 15′ 10″	0.99885071	0.04792970	20.83991033	0.047984851	20.86388896	1.001150611
87° 15′ 20″	0.99885303	0.04788128	20.86103571	0.047936258	20.88499008	1.001148283
87° 15′ 30″	0.99885535	0.04783285	20.88220386	0.047887666	20.90613398	1.001145958
87° 15′ 40″	0.99885767	0.04778443	20.90341491	0.047839073	20.92732078	1.001143635
87° 15′ 50″	0.99885999	0.04773600	20.92466900	0.047790481	20.94855061	1.001141314
87° 16′ 00″	0.99886230	0.04768757	20.94596625	0.047741889	20.96982361	1.001138995
87° 16′ 10″	0.99886461	0.04763915	20.96730680	0.047693297	20.99113991	1.001136679
87° 16′ 20″	0.99886692	0.04759072	20.98869079	0.047644706	21.01249964	1.001134366
87° 16′ 30″	0.99886923	0.04754229	21.01011833	0.047596115	21.03390293	1.001132054
87° 16′ 40″	0.99887153	0.04749387	21.03158958	0.047547524	21.05534992	1.001129745
87° 16′ 50″	0.99887383	0.04744544	21.05310465	0.047498933	21.07684074	1.001127439
87° 17′ 00″	0.99887613	0.04739701	21.07466369	0.047450342	21.09837552	1.001125135
87° 17′ 10″	0.99887843	0.04734859	21.09626683	0.047401752	21.11995441	1.001122833
87° 17′ 20″ 87° 17′ 30″	0.99888072	0.04730016	21.11791420 21.13960595	0.047353161	21.14157753	1.001120533 1.001118236
87° 17′ 30″ 87° 17′ 40″	0.99888301	0.04725173 0.04720331	21.13960393	0.047304571 0.047255982	21.16324502 21.18495702	1.001118236
87° 17′ 40″ 87° 17′ 50″	0.99888759	0.04720331	21.18312311	0.047207392	21.16473702	1.001113941
87° 18′ 00″	0.99888987	0.04713488	21.16312311	0.047207392	21.20671367	1.001113647
87° 18′ 10″	0.99889216	0.04710843	21.22681940	0.047138803	21.25036145	1.001111337
87° 18′ 20″	0.99889444	0.04703802	21.22881740	0.047110214	21.23036143	1.001109071
87° 18′ 30″	0.99889672	0.04700760	21.27069593	0.047013036	21.27223286	1.001104503
87° 18′ 40″	0.99889899	0.0469117	21.29270213	0.046964448	21.31617142	1.001104303
87° 18′ 50″	0.99890126	0.04671274	21.31475382	0.046915860	21.33819886	1.001102222
87° 19′ 00″	0.99890354	0.04681588	21.33685113	0.046867272	21.36027191	1.001077744
87° 19′ 10″	0.77870334	0.04676746	21.35899420	0.046818684	21.38239073	1.001077668
87° 19′ 20″	0.99890807	0.04671903	21.38118318	0.046770096	21.40455546	1.001073373
87° 19′ 30″	0.99891033	0.04677703	21.40341821	0.046721509	21.42676623	1.001073124
87° 19′ 40″	0.99891260	0.04662217	21.42569944	0.046672922	21.44902320	1.001088588
87° 19′ 50″	0.99891485	0.04657374	21.44802700	0.046624335	21.47132651	1.001086324
	1 21,7071103	3.6 .607.07 1	2	2.0 1002 1000	21.1.752051	

655 87° 19′ 50″

<u>x</u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\csc(x)$
87° 20′ 00″	0.99891711	0.04652531	21.47040104	0.046575749	21.49367630	1.001084063
87° 20′ 10″	0.99891937	0.04647688	21.49282171	0.046527162	21.51607271	1.001081803
87° 20′ 20″	0.99892162	0.04642845	21.51528915	0.046478576	21.53851590	1.001079546
87° 20′ 30″	0.99892387	0.04638003	21.53780351	0.046429990	21.56100601	1.001077292
87° 20′ 40″	0.99892611	0.04633160	21.56036494	0.046381404	21.58354319	1.001075039
87° 20′ 50″	0.99892836	0.04628317	21.58297359	0.046332819	21.60612758	1.001072790
87° 21′ 00″	0.99893060	0.04623474	21.60562960	0.046284233	21.62875933	1.001070542
87° 21′ 10″	0.99893284	0.04618631	21.62833312	0.046235648	21.65143860	1.001068297
87° 21′ 20″	0.99893508	0.04613788	21.65108430	0.046187063	21.67416553	1.001066054
87° 21′ 30″	0.99893732	0.04608945	21.67388330	0.046138479	21.69694028	1.001063814
87° 21′ 40″	0.99893955	0.04604102	21.69673026	0.046089894	21.71976298	1.001061576
87° 21′ 50″	0.99894178	0.04599259	21.71962534	0.046041310	21.74263381	1.001059340
87° 22′ 00″	0.99894401	0.04594416	21.74256868	0.045992726	21.76555290	1.001057107
87° 22′ 10″	0.99894624	0.04589573	21.76556045	0.045944142	21.78852041	1.001054876
87° 22′ 20″	0.99894846	0.04584730	21.78860079	0.045895558	21.81153650	1.001052647
87° 22′ 30″	0.99895068	0.04579887	21.81168986	0.045846975	21.83460131	1.001050421
87° 22′ 40″	0.99895290	0.04575044	21.83482781	0.045798392	21.85771501	1.001048197
87° 22′ 50″	0.99895512	0.04570201	21.85801480	0.045749809	21.88087774	1.001045975
87° 23′ 00″	0.99895733	0.04565357	21.88125098	0.045701226	21.90408967	1.001043756
87° 23′ 10″	0.99895954	0.04560514	21.90453652	0.045652644	21.92735096	1.001041540
87° 23′ 20″	0.99896175	0.04555671	21.92787156	0.045604061	21.95066175	1.001039325
87° 23′ 30″	0.99896396	0.04550828	21.95125627	0.045555479	21.97402221	1.001037113
87° 23′ 40″	0.99896617	0.04545985	21.97469081	0.045506897	21.99743250	1.001034903
87° 23′ 50″	0.99896837	0.04541142	21.99817534	0.045458316	22.02089277	1.001032696
87° 24′ 00″	0.99897057	0.04536299	22.02171001	0.045409734	22.04440319	1.001030491
87° 24′ 10″	0.99897277	0.04531456	22.04529499	0.045361153	22.06796391	1.001028288
87° 24′ 20″	0.99897496	0.04526612	22.06893044	0.045312572	22.09157510	1.001026088
87° 24′ 30″	0.99897716	0.04521769	22.09261651	0.045263991	22.11523693	1.001023890
87° 24′ 40″	0.99897935	0.04516926	22.11635338	0.045215411	22.13894955	1.001021695
87° 24′ 50″	0.99898154	0.04512083	22.14014121	0.045166830	22.16271312	1.001019502
87° 25′ 00″	0.99898372	0.04507240	22.16398016	0.045118250	22.18652782	1.001017311
87° 25′ 10″	0.99898591	0.04502397	22.18787040	0.045069670	22.21039380	1.001015122
87° 25′ 20″	0.99898809	0.04497553	22.21181209	0.045021090	22.23431124	1.001012936
87° 25′ 30″	0.99899027	0.04492710	22.23580540	0.044972511	22.25828030	1.001010753
87° 25′ 40″	0.99899244	0.04487867	22.25985050	0.044923932	22.28230114	1.001008571
87° 25′ 50″	0.99899462	0.04483024	22.28394755	0.044875352	22.30637394	1.001006392
87° 26′ 00″	0.99899679	0.04478180	22.30809672	0.044826774	22.33049886	1.001004216
87° 26′ 10″	0.99899896	0.04473337	22.33229819	0.044778195	22.35467607	1.001002041
87° 26′ 20″	0.99900113	0.04468494	22.35655211	0.044729616	22.37890575	1.000999869
87° 26′ 30″	0.99900329	0.04463650	22.38085868	0.044681038	22.40318806	1.000997700
87° 26′ 40″	0.99900546	0.04458807	22.40521804	0.044632460	22.42752317	1.000995533
87° 26′ 50″	0.99900762	0.04453964	22.42963039	0.044583882	22.45191126	1.000993368
87° 27′ 00″	0.99900978	0.04449120	22.45409588	0.044535305	22.47635251	1.000991205
87° 27′ 10″	0.99901193	0.04444277	22.47861470	0.044486727	22.50084707	1.000989045
87° 27′ 20″	0.99901409	0.04439434	22.50318702	0.044438150	22.52539514	1.000986888
87° 27′ 30″	0.99901624	0.04434590	22.52781302	0.044389573	22.54999688	1.000984732
87° 27′ 40″	0.99901839	0.04429747	22.55249286	0.044340996	22.57465247	1.000982579
87° 27′ 50″	0.99902053	0.04424904	22.57722674	0.044292420	22.59936209	1.000980429

656 87° 27′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
87° 28′ 00″	0.99902268	0.04420060	22.60201481	0.044243843	22.62412592	1.000978280
87° 28′ 10″	0.99902482	0.04415217	22.62685728	0.044195267	22.64894413	1.000976134
87° 28′ 20″	0.99902696	0.04410373	22.65175430	0.044146691	22.67381690	1.000973991
87° 28′ 30″	0.99902909	0.04405530	22.67670607	0.044098115	22.69874442	1.000971850
87° 28′ 40″	0.99903123	0.04400687	22.70171276	0.044049540	22.72372686	1.000969711
87° 28′ 50″	0.99903336	0.04395843	22.72677456	0.044000964	22.74876441	1.000967574
87° 29′ 00″	0.99903549	0.04391000	22.75189165	0.043952389	22.77385724	1.000965440
87° 29′ 10″	0.99903762	0.04386156	22.77706421	0.043903814	22.79900555	1.000963308
87° 29′ 20″	0.99903974	0.04381313	22.80229242	0.043855240	22.82420951	1.000961179
87° 29′ 30″	0.99904187	0.04376469	22.82757648	0.043806665	22.84946931	1.000959052
87° 29′ 40″	0.99904399	0.04371626	22.85291656	0.043758091	22.87478514	1.000956927
87° 29′ 50″	0.99904611	0.04366782	22.87831285	0.043709517	22.90015718	1.000954805
87° 30′ 00″	0.99904822	0.04361939	22.90376555	0.043660943	22.92558563	1.000952685
87° 30′ 10″	0.99905034	0.04357095	22.92927483	0.043612369	22.95107066	1.000950568
87° 30′ 20″	0.99905245	0.04352252	22.95484089	0.043563796	22.97661247	1.000948452
87° 30′ 30″	0.99905456	0.04347408	22.98046392	0.043515222	23.00221124	1.000946340
87° 30′ 40″	0.99905666	0.04342565	23.00614411	0.043466649	23.02786718	1.000944229
87° 30′ 50″	0.99905877	0.04337721	23.03188164	0.043418077	23.05358046	1.000942121
87° 31′ 00″	0.99906087	0.04332877	23.05767672	0.043369504	23.07935129	1.000940015
87° 31′ 10″	0.99906297	0.04328034	23.08352953	0.043320931	23.10517985	1.000937912
87° 31′ 20″	0.99906506	0.04323190	23.10944028	0.043272359	23.13106634	1.000935811
87° 31′ 30″	0.99906716	0.04318347	23.13540915	0.043223787	23.15701096	1.000933712
87° 31′ 40″	0.99906925	0.04313503	23.16143634	0.043175215	23.18301389	1.000931616
87° 31′ 50″	0.99907134	0.04308659	23.18752204	0.043126644	23.20907535	1.000929522
87° 32′ 00″	0.99907343	0.04303816	23.21366646	0.043078072	23.23519552	1.000927430
87° 32′ 10″	0.99907551	0.04298972	23.23986980	0.043029501	23.26137460	1.000925341
87° 32′ 20″	0.99907760	0.04294128	23.26613225	0.042980930	23.28761280	1.000923254
87° 32′ 30″	0.99907968	0.04289285	23.29245401	0.042932359	23.31391031	1.000921169
87° 32′ 40″	0.99908176	0.04284441	23.31883529	0.042883788	23.34026733	1.000919087
87° 32′ 50″	0.99908383	0.04279597	23.34527628	0.042835218	23.36668407	1.000917008
87° 33′ 00″	0.99908591	0.04274754	23.37177719	0.042786648	23.39316074	1.000914930
87° 33′ 10″	0.99908798	0.04269910	23.39833823	0.042738078	23.41969752	1.000912855
87° 33′ 20″	0.99909005	0.04265066	23.42495960	0.042689508	23.44629464	1.000910782
87° 33′ 30″	0.99909211	0.04260223	23.45164150	0.042640938	23.47295229	1.000908712
87° 33′ 40″	0.99909418	0.04255379	23.47838415	0.042592369	23.49967068	1.000906644
87° 33′ 50″	0.99909624	0.04250535	23.50518774	0.042543800	23.52645003	1.000904578
87° 34′ 00″	0.99909830	0.04245691	23.53205250	0.042495231	23.55329053	1.000902515
87° 34′ 10″	0.99910036	0.04240848	23.55897862	0.042446662	23.58019240	1.000900454
87° 34′ 20″	0.99910241	0.04236004	23.58596632	0.042398093	23.60715585	1.000898396
87° 34′ 30″	0.99910446	0.04231160	23.61301581	0.042349525	23.63418109	1.000896339
87° 34′ 40″	0.99910651	0.04226316	23.64012730	0.042300957	23.66126833	1.000894286
87° 34′ 50″ 87° 35′ 00″	0.99910856	0.04221472	23.66730101	0.042252389	23.68841779	1.000892234
87° 35′ 00″ 87° 35′ 10″	0.99911061	0.04216629	23.69453715	0.042203821	23.71562968	1.000890185
87° 35′ 10″ 87° 35′ 20″	0.99911265	0.04211785	23.72183594	0.042155253	23.74290421	1.000888138
87° 35′ 20″ 87° 35′ 30″	0.99911469 0.99911673	0.04206941 0.04202097	23.74919759 23.77662233	0.042106686	23.77024161	1.000886094
87° 35′ 30″ 87° 35′ 40″	0.99911877	0.04202097	23.77662233	0.042058119 0.042009552	23.79764209 23.82510587	1.000884052 1.000882012
87° 35′ 50″	0.99912080	0.04197233	23.83166191	0.042009332	23.85263317	1.000882012
=======================================	0.77712000	0.041/2407	23.03100171	0.041/00703	23.0320331/	1.0000/77/3

657 87° 35′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
87° 36′ 00″	0.99912283	0.04187565	23.85927720	0.041912418	23.88022421	1.000877940
87° 36′ 10″	0.99912486	0.04182721	23.88695645	0.041863852	23.90787921	1.000875907
87° 36′ 20″	0.99912689	0.04177878	23.91469988	0.041815285	23.93559839	1.000873877
87° 36′ 30″	0.99912891	0.04173034	23.94250772	0.041766719	23.96338198	1.000871849
87° 36′ 40″	0.99913093	0.04168190	23.97038019	0.041718153	23.99123020	1.000869824
87° 36′ 50″	0.99913295	0.04163346	23.99831752	0.041669588	24.01914328	1.000867801
87° 37′ 00″	0.99913497	0.04158502	24.02631994	0.041621022	24.04712144	1.000865780
87° 37′ 10″	0.99913698	0.04153658	24.05438766	0.041572457	24.07516492	1.000863762
87° 37′ 20″	0.99913900	0.04148814	24.08252093	0.041523892	24.10327394	1.000861746
87° 37′ 30″	0.99914101	0.04143970	24.11071997	0.041475327	24.13144872	1.000859732
87° 37′ 40″	0.99914301	0.04139126	24.13898501	0.041426763	24.15968951	1.000857720
87° 37′ 50″	0.99914502	0.04134282	24.16731628	0.041378198	24.18799654	1.000855712
87° 38′ 00″	0.99914702	0.04129438	24.19571403	0.041329634	24.21637003	1.000853705
87° 38′ 10″	0.99914902	0.04124594	24.22417847	0.041281070	24.24481022	1.000851701
87° 38′ 20″	0.99915102	0.04119750	24.25270985	0.041232506	24.27331735	1.000849699
87° 38′ 30″	0.99915302	0.04114906	24.28130841	0.041183942	24.30189165	1.000847699
87° 38′ 40″	0.99915501	0.04110062	24.30997437	0.041135379	24.33053337	1.000845702
87° 38′ 50″	0.99915700	0.04105218	24.33870799	0.041086815	24.35924273	1.000843707
87° 39′ 00″	0.99915899	0.04100374	24.36750949	0.041038252	24.38801999	1.000841715
87° 39′ 10″	0.99916098	0.04095530	24.39637913	0.040989689	24.41686537	1.000839725
87° 39′ 20″	0.99916296	0.04090686	24.42531714	0.040941127	24.44577913	1.000837737
87° 39′ 30″	0.99916495	0.04085842	24.45432376	0.040892564	24.47476151	1.000835752
87° 39′ 40″	0.99916693	0.04080998	24.48339925	0.040844002	24.50381274	1.000833769
87° 39′ 50″	0.99916890	0.04076153	24.51254385	0.040795440	24.53293309	1.000831788
87° 40′ 00″	0.99917088	0.04071309	24.54175779	0.040746878	24.56212278	1.000829810
87° 40′ 10″	0.99917285	0.04066465	24.57104134	0.040698316	24.59138208	1.000827834
87° 40′ 20″	0.99917482	0.04061621	24.60039474	0.040649754	24.62071123	1.000825860
87° 40′ 30″	0.99917679	0.04056777	24.62981824	0.040601193	24.65011048	1.000823889
87° 40′ 40″	0.99917875	0.04051933	24.65931209	0.040552632	24.67958008	1.000821920
87° 40′ 50″ 87° 41′ 00″	0.99918072	0.04047089	24.68887655 24.71851187	0.040504071	24.70912029	1.000819954 1.000817990
87° 41′ 10″	0.99918268	0.04042244 0.04037400	24.71831187	0.040455510 0.040406949	24.73873135 24.76841353	1.000817990
87° 41′ 20″	0.99918659	0.04037400	24.77799610	0.040406949	24.79816708	1.000816028
87° 41′ 30″	0.99918855	0.04027712	24.80784553	0.040309829	24.82799226	1.000812111
87° 41′ 40″	0.99919050	0.04022868	24.83776685	0.040261268	24.85788933	1.000810157
87° 41′ 50″	0.99919245	0.04018023	24.86776031	0.040212709	24.88785855	1.000808204
87° 42′ 00″	0.99919440	0.04013179	24.89782619	0.040164149	24.91790017	1.000806254
87° 42′ 10″	0.99919634	0.04008335	24.92796473	0.040115589	24.94801447	1.000804307
87° 42′ 20″	0.99919828	0.04003491	24.95817622	0.040067030	24.97820170	1.000802362
87° 42′ 30″	0.99920022	0.03998647	24.98846090	0.040018471	25.00846213	1.000800419
87° 42′ 40″	0.99920216	0.03993802	25.01881905	0.039969912	25.03879603	1.000798478
87° 42′ 50″	0.99920409	0.03988958	25.04925093	0.039921353	25.06920366	1.000796540
87° 43′ 00″	0.99920603	0.03984114	25.07975682	0.039872795	25.09968530	1.000794604
87° 43′ 10″	0.99920796	0.03979269	25.11033698	0.039824237	25.13024121	1.000792671
87° 43′ 20″	0.99920989	0.03974425	25.14099169	0.039775678	25.16087167	1.000790740
87° 43′ 30″	0.99921181	0.03969581	25.17172122	0.039727120	25.19157695	1.000788811
87° 43′ 40″	0.99921373	0.03964736	25.20252585	0.039678563	25.22235732	1.000786885
87° 43′ 50″	0.99921566	0.03959892	25.23340584	0.039630005	25.25321307	1.000784961

658 **87° 43′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
87° 44′ 00″	0.99921757	0.03955048	25.26436148	0.039581448	25.28414446	1.000783039
87° 44′ 10″	0.99921949	0.03950203	25.29539304	0.039532890	25.31515177	1.000781120
87° 44′ 20″	0.99922140	0.03945359	25.32650081	0.039484333	25.34623529	1.000779203
87° 44′ 30″	0.99922332	0.03940515	25.35768506	0.039435776	25.37739529	1.000777288
87° 44′ 40″	0.99922522	0.03935670	25.38894609	0.039387220	25.40863207	1.000775376
87° 44′ 50″	0.99922713	0.03930826	25.42028416	0.039338663	25.43994589	1.000773466
87° 45′ 00″	0.99922904	0.03925982	25.45169958	0.039290107	25.47133706	1.000771559
87° 45′ 10″	0.99923094	0.03921137	25.48319262	0.039241551	25.50280585	1.000769653
87° 45′ 20″	0.99923284	0.03916293	25.51476357	0.039192995	25.53435255	1.000767751
87° 45′ 30″	0.99923474	0.03911448	25.54641273	0.039144439	25.56597745	1.000765850
87° 45′ 40″	0.99923663	0.03906604	25.57814037	0.039095884	25.59768085	1.000763952
87° 45′ 50″	0.99923852	0.03901759	25.60994681	0.039047328	25.62946304	1.000762057
87° 46′ 00″	0.99924041	0.03896915	25.64183232	0.038998773	25.66132430	1.000760163
87° 46′ 10″	0.99924230	0.03892071	25.67379722	0.038950218	25.69326494	1.000758272
87° 46′ 20″	0.99924419	0.03887226	25.70584178	0.038901663	25.72528526	1.000756384
87° 46′ 30″	0.99924607	0.03882382	25.73796631	0.038853109	25.75738554	1.000754497
87° 46′ 40″	0.99924795	0.03877537	25.77017112	0.038804554	25.78956610	1.000752613
87° 46′ 50″	0.99924983	0.03872693	25.80245650	0.038756000	25.82182723	1.000750732
87° 47′ 00″	0.99925171	0.03867848	25.83482275	0.038707446	25.85416923	1.000748853
87° 47′ 10″	0.99925358	0.03863004	25.86727018	0.038658892	25.88659241	1.000746976
87° 47′ 20″	0.99925545	0.03858159	25.89979910	0.038610338	25.91909708	1.000745102
87° 47′ 30″	0.99925732	0.03853315	25.93240981	0.038561785	25.95168354	1.000743229
87° 47′ 40″	0.99925919	0.03848470	25.96510263	0.038513231	25.98435211	1.000741360
87° 47′ 50″	0.99926105	0.03843625	25.99787785	0.038464678	26.01710308	1.000739492
87° 48′ 00″	0.99926292	0.03838781	26.03073580	0.038416125	26.04993678	1.000737627
87° 48′ 10″	0.99926478	0.03833936	26.06367679	0.038367572	26.08285352	1.000735765
87° 48′ 20″	0.99926663	0.03829092	26.09670114	0.038319020	26.11585362	1.000733904
87° 48′ 30″	0.99926849	0.03824247	26.12980915	0.038270467	26.14893738	1.000732046
87° 48′ 40″	0.99927034	0.03819403	26.16300115	0.038221915	26.18210514	1.000730191
87° 48′ 50″	0.99927219	0.03814558	26.19627747	0.038173363	26.21535720	1.000728338
87° 49′ 00″	0.99927404	0.03809713	26.22963841	0.038124811	26.24869390	1.000726487
87° 49′ 10″	0.99927589	0.03804869	26.26308431	0.038076259	26.28211555	1.000724638
87° 49′ 20″	0.99927773	0.03800024	26.29661549	0.038027707	26.31562248	1.000722792
87° 49′ 30″	0.99927957	0.03795179	26.33023228	0.037979156	26.34921501	1.000720948
87° 49′ 40″	0.99928141	0.03790335	26.36393500	0.037930605	26.38289349	1.000719107
87° 49′ 50″ 87° 50′ 00″	0.99928325	0.03785490	26.39772399	0.037882054	26.41665822	1.000717268
87° 50′ 10″	0.99928508	0.03780646	26.43159957	0.037833503	26.45050956	1.000715431 1.000713597
87° 50′ 10″ 87° 50′ 20″	0.99928691	0.03775801	26.46556209	0.037784952	26.48444782	1.000713397
87° 50′ 30″	0.99928874	0.03770956	26.49961187 26.53374925	0.037736402	26.51847335	1.000711765
87° 50′ 40″	0.99929057	0.03766111 0.03761267		0.037687851 0.037639301	26.55258649 26.58678756	1.000709933
87° 50′ 50″	0.99929422	0.03761267	26.56797457 26.60228818	0.0375390751	26.62107692	1.000706108
87° 51′ 00″	0.99929604	0.03751577	26.63669041	0.037542202	26.65545490	1.000706283
87° 51′ 10″	0.99929785	0.03731377	26.63669041	0.037342202	26.63343470	1.000704460
87° 51′ 20″	0.99929967	0.03746733	26.70576211	0.037445103	26.72447811	1.000702640
87° 51′ 30″	0.99930148	0.03741888	26.74043229	0.037443103	26.75912403	1.000700822
87° 51′ 40″	0.99930329	0.03737043	26.77519247	0.037378333	26.79385996	1.000697007
87° 51′ 50″	0.99930510	0.03732178	26.81004301	0.037348004	26.82868626	1.000697194
=======================================	0.77730310	0.03121334	20.01004301	0.0312//433	20.02000020	1.0000/3303

659 **87° 51′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\operatorname{csc}(x)$
87° 52′ 00″	0.99930691	0.03722509	26.84498427	0.037250907	26.86360327	1.000693574
87° 52′ 10″	0.99930871	0.03717664	26.88001660	0.037202358	26.89861134	1.000691768
87° 52′ 20″	0.99931051	0.03712819	26.91514035	0.037153810	26.93371085	1.000689965
87° 52′ 30″	0.99931231	0.03707974	26.95035589	0.037105261	26.96890214	1.000688163
87° 52′ 40″	0.99931411	0.03703130	26.98566357	0.037056713	27.00418557	1.000686364
87° 52′ 50″	0.99931590	0.03698285	27.02106376	0.037008166	27.03956151	1.000684568
87° 53′ 00″	0.99931769	0.03693440	27.05655682	0.036959618	27.07503033	1.000682774
87° 53′ 10″	0.99931948	0.03688595	27.09214312	0.036911070	27.11059238	1.000680982
87° 53′ 20″	0.99932127	0.03683750	27.12782303	0.036862523	27.14624803	1.000679192
87° 53′ 30″	0.99932305	0.03678905	27.16359691	0.036813976	27.18199766	1.000677405
87° 53′ 40″	0.99932484	0.03674061	27.19946514	0.036765429	27.21784164	1.000675620
87° 53′ 50″	0.99932662	0.03669216	27.23542808	0.036716882	27.25378034	1.000673838
87° 54′ 00″	0.99932839	0.03664371	27.27148613	0.036668335	27.28981414	1.000672058
87° 54′ 10″	0.99933017	0.03659526	27.30763965	0.036619789	27.32594341	1.000670280
87° 54′ 20″	0.99933194	0.03654681	27.34388903	0.036571243	27.36216854	1.000668504
87° 54′ 30″	0.99933371	0.03649836	27.38023464	0.036522697	27.39848991	1.000666731
87° 54′ 40″	0.99933548	0.03644991	27.41667688	0.036474151	27.43490789	1.000664961
87° 54′ 50″	0.99933725	0.03640146	27.45321612	0.036425605	27.47142288	1.000663192
87° 55′ 00″	0.99933901	0.03635301	27.48985276	0.036377059	27.50803527	1.000661426
87° 55′ 10″	0.99934077	0.03630456	27.52658718	0.036328514	27.54474544	1.000659663
87° 55′ 20″	0.99934253	0.03625612	27.56341978	0.036279968	27.58155379	1.000657902
87° 55′ 30″	0.99934429	0.03620767	27.60035095	0.036231423	27.61846072	1.000656143
87° 55′ 40″	0.99934604	0.03615922	27.63738108	0.036182878	27.65546660	1.000654386
87° 55′ 50″	0.99934779	0.03611077	27.67451059	0.036134334	27.69257186	1.000652632
87° 56′ 00″	0.99934954	0.03606232	27.71173986	0.036085789	27.72977688	1.000650880
87° 56′ 10″	0.99935129	0.03601387	27.74906930	0.036037245	27.76708208	1.000649131
87° 56′ 20″	0.99935304	0.03596542	27.78649931	0.035988700	27.80448784	1.000647384
87° 56′ 30″	0.99935478	0.03591697	27.82403031	0.035940156	27.84199459	1.000645639
87° 56′ 40″	0.99935652	0.03586852	27.86166270	0.035891612	27.87960273	1.000643897
87° 56′ 50″	0.99935826	0.03582007	27.89939689	0.035843069	27.91731268	1.000642157
87° 57′ 00″	0.99935999	0.03577162	27.93723330	0.035794525	27.95512484	1.000640419
87° 57′ 10″	0.99936172	0.03572317	27.97517235	0.035745982	27.99303963	1.000638684
87° 57′ 20″ 87° 57′ 30″	0.99936345	0.03567472	28.01321444	0.035697439	28.03105748	1.000636951 1.000635220
87° 57′ 40″	0.99936518	0.03562626 0.03557781	28.05136000 28.08960946	0.035648895 0.035600353	28.06917879 28.10740400	1.000633492
87° 57′ 50″	0.99936863	0.03552936	28.12796324	0.035551810	28.14573354	1.000633472
87° 58′ 00″	0.99937035	0.03548091	28.16642177	0.035503267	28.18416782	1.000631766
87° 58′ 10″	0.99937207	0.03543246	28.20498548	0.035454725	28.22270727	1.000630043
87° 58′ 20″	0.99937379	0.03538401	28.24365479	0.035406183	28.26135234	1.000626521
87° 58′ 30″	0.99937550	0.03533556	28.28243015	0.035357641	28.30010345	1.000624886
87° 58′ 40″	0.99937722	0.03533336	28.32131199	0.035309099	28.33896104	1.000624886
87° 58′ 50″	0.99937893	0.03523866	28.36030075	0.035260557	28.37792556	1.000623172
87° 59′ 00″	0.77737873	0.03519021	28.39939688	0.035212015	28.41699743	1.000621460
87° 59′ 10″	0.99938234	0.03517021	28.43860081	0.035163474	28.45617711	1.000617731
87° 59′ 20″	0.77738234	0.03509330	28.47791299	0.035114933	28.49546505	1.000616339
87° 59′ 30″	0.99938574	0.03504485	28.51733388	0.035066392	28.53486169	1.000614637
87° 59′ 40″	0.99938744	0.03499640	28.55686392	0.035017851	28.57436748	1.000614037
87° 59′ 50″	0.99938913	0.03494795	28.59650357	0.034969310	28.61398288	1.000611240
	3.77730713	0.03171773	_0,57050557	2.031707310	_0,01370200	

660 87° 59′ 50″

88° 00′ 00″ 0.99939083 0.03489950 28.63625328 0.034920769 28.65370835 1.00060954 88° 00′ 20″ 0.99939252 0.03485104 28.67611352 0.034872229 28.67354434 1.00060616 88° 00′ 30″ 0.9993958 0.0347514 28.75616742 0.03475149 28.77354974 1.0006047. 88° 00′ 50″ 0.99939726 0.03475672 28.83666900 0.03467269 28.81372009 1.0006047. 88° 01′ 00″ 0.99940094 0.03460878 28.8770884 0.034678069 28.85400282 1.00060110 88° 01′ 20″ 0.99940094 0.0346083 28.87162201 0.034580990 28.89439734 1.00059942 88° 01′ 30″ 0.99940596 0.03446318 28.895826900 0.034586312 29.91626711 1.00059942 88° 01′ 50″ 0.99940930 0.03436652 29.08089765 0.034386312 29.05711892 1.0005995272 88° 02′ 20″ 0.99941196 0.03418662 29.162322801 0.0343289757 29.18036785 1.0005872 88° 02′ 30″ 0.9994191 <t< th=""><th><u> </u></th><th>$\sin(x)$</th><th>$\cos(x)$</th><th>$\tan(x)$</th><th>$\cot(x)$</th><th>sec(x)</th><th>$\mathbf{csc}(\mathbf{x})$</th></t<>	<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
88° 00′ 10″ 0.99939252 0.03485104 28.67611352 0.034822292 28.69354434 1.00060765 88° 00′ 30″ 0.99939589 0.03475414 28.75616742 0.034775149 28.773349132 1.00060476 88° 00′ 40″ 0.99939589 0.03475414 28.75616742 0.034775149 28.77354974 1.00060078 88° 00′ 50″ 0.99940094 0.03460878 28.8768884 0.034678069 28.831372009 1.00060278 88° 01′ 10″ 0.99940261 0.03456033 28.91762201 0.03458990 28.93497342 1.00059774 88° 01′ 30″ 0.99940596 0.03446343 28.979503028 0.0344532451 28.97553008 1.00059754 88° 01′ 40″ 0.99940763 0.034414197 29.03990633 0.034483312 29.0511892 1.00059724 88° 01′ 50″ 0.99941096 0.034431807 29.12200471 0.034386834 29.09808598 1.00059724 88° 01′ 50″ 0.99941096 0.034426962 29.16322801 0.03422112 29.1391688 1.00059724 88° 02′ 50″ 0.999941954							
88° 00′ 20″							
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88° 06′ 20″ 0.99945343 0.03305827 30.23308425 0.033076347 30.24961791 1.000546873 88° 06′ 30″ 0.99945503 0.03300981 30.27751173 0.033027813 30.29402114 1.000545270 88° 06′ 40″ 0.99945663 0.03296136 30.32206984 0.032979279 30.33855499 1.000543669 88° 06′ 50″ 0.99945822 0.03291290 30.36675914 0.032930745 30.38322005 1.000542070 88° 07′ 00″ 0.99945982 0.03286445 30.41158022 0.032882211 30.42801688 1.000540474 88° 07′ 10″ 0.99946141 0.03281599 30.45653366 0.032833677 30.47294608 1.000538880 88° 07′ 20″ 0.99946300 0.03276754 30.50162005 0.032785144 30.51800822 1.000537280	88° 06′ 00″	0.99945022	0.03315518	30.14461887	0.033173417	30.16120101	1.000550086
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88° 07′ 00″ 0.99945982 0.03286445 30.41158022 0.032882211 30.42801688 1.000540474 88° 07′ 10″ 0.99946141 0.03281599 30.45653366 0.032833677 30.47294608 1.000538886 88° 07′ 20″ 0.99946300 0.03276754 30.50162005 0.032785144 30.51800822 1.000537286	88° 06′ 40″	0.99945663	0.03296136	30.32206984	0.032979279	30.33855499	1.000543669
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88° 07′ 20″ 0.99946300 0.03276754 30.50162005 0.032785144 30.51800822 1.000537286	88° 07′ 00″	0.99945982	0.03286445	30.41158022	0.032882211	30.42801688	1.000540474
	88° 07′ 10″	0.99946141	0.03281599	30.45653366	0.032833677	30.47294608	1.000538880
000 001 0011 0 00046450 0 00071000 00 54600000 0 000706610 00 56000001 1 000707060	88° 07′ 20″	0.99946300	0.03276754	30.50162005	0.032785144	30.51800822	1.000537288
88 ° 07 ′ 30 ′′ 0.99946459 0.032/1908 30.54683999 0.032/36610 30.56320391 1.000535699	88° 07′ 30″	0.99946459	0.03271908	30.54683999	0.032736610	30.56320391	1.000535699
		0.99946617	0.03267063	30.59219406	0.032688077	30.60853373	1.000534113
88° 07′ 50″ 0.99946776 0.03262217 30.63768286 0.032639544 30.65399829 1.000532528	88° 07′ 50″	0.99946776	0.03262217	30.63768286	0.032639544	30.65399829	1.000532528

88° 07′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
88° 08′ 00″	0.99946934	0.03257372	30.68330700	0.032591011	30.69959818	1.000530946
88° 08′ 10″	0.99947091	0.03252526	30.72906708	0.032542478	30.74533401	1.000529366
88° 08′ 20″	0.99947249	0.03247680	30.77496371	0.032493946	30.79120640	1.000527789
88° 08′ 30″	0.99947406	0.03242835	30.82099750	0.032445413	30.83721594	1.000526214
88° 08′ 40″	0.99947563	0.03237989	30.86716907	0.032396881	30.88336326	1.000524641
88° 08′ 50″	0.99947720	0.03233144	30.91347903	0.032348349	30.92964898	1.000523071
88° 09′ 00″	0.99947877	0.03228298	30.95992802	0.032299817	30.97607372	1.000521503
88° 09′ 10″	0.99948033	0.03223452	31.00651665	0.032251285	31.02263810	1.000519938
88° 09′ 20″	0.99948189	0.03218607	31.05324556	0.032202753	31.06934276	1.000518374
88° 09′ 30″	0.99948345	0.03213761	31.10011538	0.032154222	31.11618834	1.000516813
88° 09′ 40″	0.99948501	0.03208916	31.14712676	0.032105690	31.16317547	1.000515255
88° 09′ 50″	0.99948656	0.03204070	31.19428033	0.032057159	31.21030479	1.000513699
88° 10′ 00″	0.99948812	0.03199224	31.24157674	0.032008628	31.25757696	1.000512145
88° 10′ 10″	0.99948967	0.03194379	31.28901664	0.031960097	31.30499261	1.000510594
88° 10′ 20″	0.99949121	0.03189533	31.33660069	0.031911566	31.35255241	1.000509044
88° 10′ 30″	0.99949276	0.03184687	31.38432954	0.031863035	31.40025702	1.000507498
88° 10′ 40″	0.99949430	0.03179842	31.43220386	0.031814505	31.44810709	1.000505953
88° 10′ 50″	0.99949584	0.03174996	31.48022430	0.031765974	31.49610329	1.000504411
88° 11′ 00″	0.99949738	0.03170150	31.52839155	0.031717444	31.54424629	1.000502872
88° 11′ 10″	0.99949892	0.03165305	31.57670628	0.031668914	31.59253677	1.000501334
88° 11′ 20″	0.99950045	0.03160459	31.62516916	0.031620384	31.64097540	1.000499799
88° 11′ 30″	0.99950198	0.03155613	31.67378088	0.031571854	31.68956287	1.000498267
88° 11′ 40″	0.99950351	0.03150767	31.72254212	0.031523325	31.73829987	1.000496737
88° 11′ 50″	0.99950504	0.03145922	31.77145358	0.031474795	31.78718708	1.000495209
88° 12′ 00″	0.99950656	0.03141076	31.82051595	0.031426266	31.83622521	1.000493683
88° 12′ 10″	0.99950808	0.03136230	31.86972994	0.031377737	31.88541494	1.000492160
88° 12′ 20″	0.99950960	0.03131384	31.91909623	0.031329208	31.93475700	1.000490639
88° 12′ 30″	0.99951112	0.03126539	31.96861555	0.031280679	31.98425207	1.000489121
88° 12′ 40″	0.99951263	0.03121693	32.01828861	0.031232150	32.03390088	1.000487605
88° 12′ 50″	0.99951415	0.03116847	32.06811612	0.031183622	32.08370415	1.000486091
88° 13′ 00″	0.99951566	0.03112001	32.11809881	0.031135093	32.13366259	1.000484580
88° 13′ 10″	0.99951716	0.03107156	32.16823740	0.031086565	32.18377693	1.000483071
88° 13′ 20″	0.99951867	0.03102310	32.21853262	0.031038037	32.23404790	1.000481564
88° 13′ 30″	0.99952017	0.03097464	32.26898521	0.030989509	32.28447625	1.000480060
88° 13′ 40″	0.99952167	0.03092618	32.31959591	0.030940981	32.33506270	1.000478558
88° 13′ 50″ 88° 14′ 00″	0.99952317	0.03087772	32.37036546	0.030892453	32.38580800	1.000477058
88° 14′ 10″	0.99952467	0.03082926	32.42129461	0.030843926 0.030795398	32.43671290 32.48777817	1.000475561
88° 14′ 10″	0.99952616 0.99952765	0.03078081	32.47238412			1.000474066
88° 14′ 30″	0.99952914	0.03073235 0.03068389	32.52363474 32.57504724	0.030746871	32.53900454 32.59039279	1.000472573 1.000471083
88° 14′ 40″	0.99953063	0.03063543	32.62662238	0.030698344 0.030649817	32.57057277	1.000471085
88° 14′ 50″					32.69365802	1.000467373
88° 15′ 00″	0.99953211	0.03058697 0.03053851	32.67836095 32.73026372	0.030601290 0.030552763	32.74553653	1.000468110
88° 15′ 10″	0.99953507	0.03033831	32.78233146	0.030504237	32.74553653	1.000466627
88° 15′ 20″	0.99953655	0.03044160	32.83456498	0.030304237	32.84978930	1.000463146
88° 15′ 30″	0.99953802	0.03039314	32.88696505	0.030407184	32.90216513	1.000463666
88° 15′ 40″	0.99953949	0.03037314	32.93953249	0.030407184	32.70216313	1.000462172
88° 15′ 50″	0.99954096	0.03034468	32.99226810	0.030338638	33.00741968	1.000450718
=======================================	0.77734070	0.03027022	32.77220010	0.030310132	33.00/41/00	1.00073/24/

662 **88° 15′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	$\tan(x)$	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
88° 16′ 00″	0.99954243	0.03024776	33.04517267	0.030261606	33.06030001	1.000457778
88° 16′ 10″	0.99954390	0.03019930	33.09824703	0.030213080	33.11335013	1.000456311
88° 16′ 20″	0.99954536	0.03015084	33.15149200	0.030164555	33.16657085	1.000454847
88° 16′ 30″	0.99954682	0.03010238	33.20490840	0.030116029	33.21996300	1.000453385
88° 16′ 40″	0.99954828	0.03005392	33.25849705	0.030067504	33.27352741	1.000451925
88° 16′ 50″	0.99954973	0.03000546	33.31225880	0.030018979	33.32726491	1.000450468
88° 17′ 00″	0.99955119	0.02995700	33.36619448	0.029970454	33.38117634	1.000449013
88° 17′ 10″	0.99955264	0.02990854	33.42030494	0.029921929	33.43526256	1.000447561
88° 17′ 20″	0.99955409	0.02986008	33.47459104	0.029873405	33.48952441	1.000446111
88° 17′ 30″	0.9995553	0.02981162	33.52905362	0.029824880	33.54396274	1.000444663
88° 17′ 40″	0.99955698	0.02976316	33.58369355	0.029776356	33.59857843	1.000443217
88° 17′ 50″	0.99955842	0.02971470	33.63851169	0.029727831	33.65337233	1.000441774
88° 18′ 00″	0.99955986	0.02966624	33.69350893	0.029679307	33.70834532	1.000440334
88° 18′ 10″	0.99956130	0.02961778	33.74868614	0.029630783	33.76349829	1.000438895
88° 18′ 20″	0.99956273	0.02956932	33.80404421	0.029582259	33.81883211	1.000437459
88° 18′ 30″	0.99956416	0.02952086	33.85958402	0.029533736	33.87434767	1.000436026
88° 18′ 40″	0.99956559	0.02947240	33.91530648	0.029485212	33.93004588	1.000434594
88° 18′ 50″	0.99956702	0.02942394	33.97121248	0.029436689	33.98592764	1.000433165
88° 19′ 00″	0.99956845	0.02937548	34.02730294	0.029388165	34.04199385	1.000431739
88° 19′ 10″	0.99956987	0.02932702	34.08357877	0.029339642	34.09824543	1.000430315
88° 19′ 20″	0.99957129	0.02927856	34.14004089	0.029291119	34.15468330	1.000428893
88° 19′ 30″	0.99957271	0.02923010	34.19669022	0.029242596	34.21130839	1.000427473
88° 19′ 40″	0.99957413	0.02918164	34.25352770	0.029194073	34.26812163	1.000426056
88° 19′ 50″	0.99957554	0.02913318	34.31055428	0.029145551	34.32512396	1.000424641
88° 20′ 00″	0.99957695	0.02908472	34.36777089	0.029097028	34.38231632	1.000423229
88° 20′ 10″	0.99957836	0.02903626	34.42517848	0.029048506	34.43969967	1.000421819
88° 20′ 20″	0.99957977	0.02898780	34.48277802	0.028999984	34.49727497	1.000420411
88° 20′ 30″	0.99958117	0.02893934	34.54057047	0.028951462	34.55504317	1.000419006
88° 20′ 40″	0.99958257	0.02889087	34.59855680	0.028902940	34.61300525	1.000417603
88° 20′ 50″	0.99958397	0.02884241	34.65673799	0.028854418	34.67116219	1.000416202
88° 21′ 00″	0.99958537	0.02879395	34.71511501	0.028805896	34.72951498	1.000414804
88° 21′ 10″	0.99958676	0.02874549	34.77368888	0.028757375	34.78806459	1.000413408
88° 21′ 20″	0.99958816	0.02869703	34.83246057	0.028708853	34.84681204	1.000412014
88° 21′ 30″	0.99958955	0.02864857	34.89143109	0.028660332	34.90575832	1.000410623
88° 21′ 40″	0.99959093	0.02860011	34.95060146	0.028611811	34.96490444	1.000409234
88° 21′ 50″	0.99959232	0.02855165	35.00997270	0.028563290	35.02425143	1.000407848
88° 22′ 00″	0.99959370	0.02850318	35.06954582	0.028514769	35.08380031	1.000406463
88° 22′ 10″	0.99959508	0.02845472	35.12932186	0.028466248	35.14355210	1.000405082
88° 22′ 20″	0.99959646	0.02840626	35.18930186	0.028417728	35.20350786	1.000403702
88° 22′ 30″	0.99959784	0.02835780	35.24948687	0.028369207	35.26366862	1.000402325
88° 22′ 40″	0.99959921	0.02830934	35.30987793	0.028320687	35.32403543	1.000400950
88° 22′ 50″	0.99960058	0.02826087	35.37047611	0.028272167	35.38460937	1.000399578
88° 23′ 00″	0.99960195	0.02821241	35.43128247	0.028223647	35.44539149	1.000398208
88° 23′ 10″	0.99960332	0.02816395	35.49229810	0.028175127	35.50638287	1.000396840
88° 23′ 20″	0.99960468	0.02811549	35.55352407	0.028126607	35.56758459	1.000395475
88° 23′ 30″	0.99960604	0.02806703	35.61496147	0.028078087	35.62899775	1.000394112
88° 23′ 40″	0.99960740	0.02801856	35.67661141	0.028029568	35.69062344	1.000392751
88° 23′ 50″	0.99960876	0.02797010	35.73847497	0.027981048	35.75246276	1.000391393

663 **88° 23′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
88° 24′ 00″	0.99961012	0.02792164	35.80055329	0.027932529	35.81451683	1.000390037
88° 24′ 10″	0.99961147	0.02787318	35.86284747	0.027884010	35.87678677	1.000388683
88° 24′ 20″	0.99961282	0.02782471	35.92535865	0.027835491	35.93927370	1.000387332
88° 24′ 30″	0.99961417	0.02777625	35.98808797	0.027786972	36.00197877	1.000385983
88° 24′ 40″	0.99961551	0.02772779	36.05103656	0.027738453	36.06490312	1.000384637
88° 24′ 50″	0.99961685	0.02767933	36.11420558	0.027689935	36.12804789	1.000383293
88° 25′ 00″	0.99961819	0.02763086	36.17759618	0.027641416	36.19141425	1.000381951
88° 25′ 10″	0.99961953	0.02758240	36.24120955	0.027592898	36.25500337	1.000380612
88° 25′ 20″	0.99962087	0.02753394	36.30504685	0.027544380	36.31881643	1.000379275
88° 25′ 30″	0.99962220	0.02748547	36.36910927	0.027495862	36.38285460	1.000377940
88° 25′ 40″	0.99962353	0.02743701	36.43339800	0.027447344	36.44711908	1.000376607
88° 25′ 50″	0.99962486	0.02738855	36.49791424	0.027398826	36.51161108	1.000375277
88° 26′ 00″	0.99962619	0.02734008	36.56265921	0.027350308	36.57633180	1.000373950
88° 26′ 10″	0.99962751	0.02729162	36.62763411	0.027301791	36.64128247	1.000372624
88° 26′ 20″	0.99962884	0.02724316	36.69284019	0.027253273	36.70646430	1.000371302
88° 26′ 30″	0.99963016	0.02719469	36.75827868	0.027204756	36.77187854	1.000369981
88° 26′ 40″	0.99963147	0.02714623	36.82395082	0.027156239	36.83752643	1.000368663
88° 26′ 50″	0.99963279	0.02709777	36.88985786	0.027107722	36.90340923	1.000367347
88° 27′ 00″	0.99963410	0.02704930	36.95600107	0.027059205	36.96952819	1.000366033
88° 27′ 10″	0.99963541	0.02700084	37.02238172	0.027010688	37.03588460	1.000364722
88° 27′ 20″	0.99963672	0.02695238	37.08900109	0.026962171	37.10247972	1.000363413
88° 27′ 30″	0.99963802	0.02690391	37.15586047	0.026913655	37.16931486	1.000362107
88° 27′ 40″	0.99963933	0.02685545	37.22296116	0.026865138	37.23639131	1.000360803
88° 27′ 50″	0.99964063	0.02680698	37.29030448	0.026816622	37.30371038	1.000359501
88° 28′ 00″	0.99964193	0.02675852	37.35789173	0.026768106	37.37127338	1.000358202
88° 28′ 10″	0.99964322	0.02671006	37.42572425	0.026719590	37.43908166	1.000356905
88° 28′ 20″	0.99964452	0.02666159	37.49380337	0.026671074	37.50713654	1.000355610
88° 28′ 30″	0.99964581	0.02661313	37.56213045	0.026622558	37.57543937	1.000354318
88° 28′ 40″	0.99964710	0.02656466	37.63070684	0.026574042	37.64399151	1.000353028
88° 28′ 50″	0.99964838	0.02651620	37.69953390	0.026525527	37.71279433	1.000351740
88° 29′ 00″	0.99964967	0.02646774	37.76861302	0.026477011	37.78184921	1.000350455
88° 29′ 10″	0.99965095	0.02641927	37.83794558	0.026428496	37.85115752	1.000349172
88° 29′ 20″	0.99965223	0.02637081	37.90753298	0.026379981	37.92072068	1.000347891
88° 29′ 30″	0.99965351	0.02632234	37.97737663	0.026331466	37.99054008	1.000346613
88° 29′ 40″	0.99965478	0.02627388	38.04747794	0.026282951	38.06061715	1.000345337
88° 29′ 50″	0.99965605	0.02622541	38.11783835	0.026234436	38.13095332	1.000344064
88° 30′ 00″	0.99965732	0.02617695	38.18845930	0.026185922	38.20155001	1.000342792
88° 30′ 10″	0.99965859	0.02612848	38.25934222	0.026137407	38.27240870	1.000341524
88° 30′ 20″	0.99965986	0.02608002	38.33048860	0.026088893	38.34353083	1.000340257
88° 30′ 30″	0.99966112	0.02603155	38.40189989	0.026040378	38.41491787	1.000338993
88° 30′ 40″	0.99966238	0.02598309	38.47357758	0.025991864	38.48657131	1.000337731
88° 30′ 50″	0.99966364	0.02593462	38.54552316	0.025943350	38.55849265	1.000336472
88° 31′ 00″	0.99966490	0.02588616	38.61773814	0.025894836	38.63068339	1.000335215
88° 31′ 10″	0.99966615	0.02583769	38.69022404	0.025846322	38.70314504	1.000333960
88° 31′ 20″	0.99966740	0.02578923	38.76298238	0.025797809	38.77587914	1.000332708
88° 31′ 30″	0.99966865	0.02574076	38.83601470	0.025749295	38.84888721	1.000331458
88° 31′ 40″	0.99966990	0.02569230	38.90932255	0.025700782	38.92217082	1.000330211
88° 31′ 50″	0.99967114	0.02564383	38.98290750	0.025652268	38.99573153	1.000328965

88° 31′ 50″

x	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
88° 32′ 00″	0.99967238	0.02559537	39.05677112	0.025603755	39.06957090	1.000327722
88° 32′ 10″	0.99967362	0.02554690	39.13091499	0.025555242	39.14369053	1.000326482
88° 32′ 20″	0.99967486	0.02549844	39.20534072	0.025506729	39.21809201	1.000325244
88° 32′ 30″	0.99967610	0.02544997	39.28004992	0.025458216	39.29277696	1.000324008
88° 32′ 40″	0.99967733	0.02540150	39.35504420	0.025409703	39.36774700	1.000322774
88° 32′ 50″	0.99967856	0.02535304	39.43032520	0.025361191	39.44300376	1.000321543
88° 33′ 00″	0.99967979	0.02530457	39.50589458	0.025312678	39.51854889	1.000320315
88° 33′ 10″	0.99968101	0.02525611	39.58175399	0.025264166	39.59438406	1.000319088
88° 33′ 20″	0.99968224	0.02520764	39.65790510	0.025215654	39.67051092	1.000317864
88° 33′ 30″	0.99968346	0.02515918	39.73434960	0.025167142	39.74693118	1.000316642
88° 33′ 40″	0.99968468	0.02511071	39.81108920	0.025118630	39.82364653	1.000315423
88° 33′ 50″	0.99968589	0.02506224	39.88812559	0.025070118	39.90065868	1.000314206
88° 34′ 00″	0.99968711	0.02501378	39.96546052	0.025021606	39.97796936	1.000312991
88° 34′ 10″	0.99968832	0.02496531	40.04309571	0.024973094	40.05558031	1.000311779
88° 34′ 20″	0.99968953	0.02491684	40.12103292	0.024924583	40.13349327	1.000310569
88° 34′ 30″	0.99969073	0.02486838	40.19927391	0.024876071	40.21171003	1.000309362
88° 34′ 40″	0.99969194	0.02481991	40.27782048	0.024827560	40.29023234	1.000308156
88° 34′ 50″	0.99969314	0.02477145	40.35667440	0.024779049	40.36906202	1.000306954
88° 35′ 00″	0.99969434	0.02472298	40.43583749	0.024730538	40.44820087	1.000305753
88° 35′ 10″	0.99969554	0.02467451	40.51531157	0.024682027	40.52765070	1.000304555
88° 35′ 20″	0.99969673	0.02462605	40.59509847	0.024633516	40.60741336	1.000303359
88° 35′ 30″	0.99969793	0.02457758	40.67520006	0.024585005	40.68749070	1.000302166
88° 35′ 40″	0.99969912	0.02452911	40.75561818	0.024536494	40.76788458	1.000300974
88° 35′ 50″	0.99970030	0.02448065	40.83635473	0.024487984	40.84859689	1.000299786
88° 36′ 00″	0.99970149	0.02443218	40.91741160	0.024439474	40.92962951	1.000298599
88° 36′ 10″	0.99970267	0.02438371	40.99879070	0.024390963	41.01098437	1.000297415
88° 36′ 20″	0.99970385	0.02433524	41.08049395	0.024342453	41.09266338	1.000296234
88° 36′ 30″	0.99970503	0.02428678	41.16252330	0.024293943	41.17466848	1.000295054
88° 36′ 40″	0.99970621	0.02423831	41.24488070	0.024245433	41.25700164	1.000293877
88° 36′ 50″	0.99970738	0.02418984	41.32756813	0.024196923	41.33966482	1.000292703
88° 37′ 00″	0.99970855	0.02414138	41.41058757	0.024148414	41.42266002	1.000291530
88° 37′ 10″	0.99970972	0.02409291	41.49394103	0.024099904	41.50598923	1.000290361
88° 37′ 20″	0.99971089	0.02404444	41.57763053	0.024051395	41.58965448	1.000289193
88° 37′ 30″	0.99971206	0.02399597	41.66165809	0.024002885	41.67365781	1.000288028
88° 37′ 40″	0.99971322	0.02394751	41.74602579	0.023954376	41.75800126	1.000286865
88° 37′ 50″	0.99971438	0.02389904	41.83073568	0.023905867	41.84268691	1.000285704
88° 38′ 00″	0.99971553	0.02385057	41.91578986	0.023857358	41.92771684	1.000284546
88° 38′ 10″	0.99971669	0.02380210	42.00119042	0.023808849	42.01309316	1.000283390
88° 38′ 20″	0.99971784	0.02375364	42.08693950	0.023760340	42.09881799	1.000282237
88° 38′ 30″	0.99971899	0.02370517	42.17303921	0.023711832	42.18489346	1.000281086
88° 38′ 40″	0.99972014	0.02365670	42.25949173	0.023663323	42.27132174	1.000279937
88° 38′ 50″	0.99972129	0.02360823	42.34629923	0.023614814	42.35810499	1.000278791
88° 39′ 00″	0.99972243	0.02355976	42.43346389	0.023566306	42.44524540	1.000277647
88° 39′ 10″	0.99972357	0.02351130	42.52098792	0.023517798	42.53274519	1.000276505
88° 39′ 20″	0.99972471	0.02346283	42.60887356	0.023469290	42.62060659	1.000275366
88° 39′ 30″	0.99972585	0.02341436	42.69712304	0.023420782	42.70883183	1.000274229
88° 39′ 40″	0.99972698	0.02336589	42.78573864	0.023372274	42.79742319	1.000273094
88° 39′ 50″	0.99972811	0.02331742	42.87472264	0.023323766	42.88638294	1.000271962

88° 39′ 50″

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
88° 40′ 00″	0.99972924	0.02326896	42.96407734	0.023275258	42.97571339	1.000270832
88° 40′ 10″	0.99973037	0.02322049	43.05380505	0.023226751	43.06541686	1.000269705
88° 40′ 20″	0.99973149	0.02317202	43.14390813	0.023178243	43.15549570	1.000268579
88° 40′ 30″	0.99973261	0.02312355	43.23438893	0.023129736	43.24595225	1.000267457
88° 40′ 40″	0.99973373	0.02307508	43.32524984	0.023081229	43.33678892	1.000266336
88° 40′ 50″	0.99973485	0.02302661	43.41649325	0.023032722	43.42800808	1.000265218
88° 41′ 00″	0.99973597	0.02297815	43.50812158	0.022984215	43.51961217	1.000264102
88° 41′ 10″	0.99973708	0.02292968	43.60013728	0.022935708	43.61160363	1.000262989
88° 41′ 20″	0.99973819	0.02288121	43.69254281	0.022887201	43.70398492	1.000261878
88° 41′ 30″	0.99973930	0.02283274	43.78534065	0.022838694	43.79675851	1.000260769
88° 41′ 40″	0.99974040	0.02278427	43.87853331	0.022790187	43.88992693	1.000259663
88° 41′ 50″	0.99974151	0.02273580	43.97212331	0.022741681	43.98349268	1.000258559
88° 42′ 00″	0.99974261	0.02268733	44.06611320	0.022693175	44.07745832	1.000257457
88° 42′ 10″	0.99974371	0.02263886	44.16050554	0.022644668	44.17182642	1.000256358
88° 42′ 20″	0.99974480	0.02259040	44.25530293	0.022596162	44.26659957	1.000255261
88° 42′ 30″	0.99974590	0.02254193	44.35050798	0.022547656	44.36178038	1.000254166
88° 42′ 40″	0.99974699	0.02249346	44.44612333	0.022499150	44.45737148	1.000253074
88° 42′ 50″	0.99974808	0.02244499	44.54215164	0.022450644	44.55337554	1.000251984
88° 43′ 00″	0.99974917	0.02239652	44.63859558	0.022402138	44.64979524	1.000250896
88° 43′ 10″	0.99975025	0.02234805	44.73545786	0.022353633	44.74663328	1.000249811
88° 43′ 20″	0.99975133	0.02229958	44.83274121	0.022305127	44.84389239	1.000248728
88° 43′ 30″	0.99975241	0.02225111	44.93044839	0.022256622	44.94157532	1.000247648
88° 43′ 40″	0.99975349	0.02220264	45.02858216	0.022208117	45.03968485	1.000246570
88° 43′ 50″	0.99975457	0.02215417	45.12714534	0.022159611	45.13822378	1.000245494
88° 44′ 00″	0.99975564	0.02210570	45.22614073	0.022111106	45.23719494	1.000244421
88° 44′ 10″	0.99975671	0.02205723	45.32557120	0.022062601	45.33660116	1.000243350
88° 44′ 20″	0.99975778	0.02200876	45.42543962	0.022014096	45.43644534	1.000242281
88° 44′ 30″	0.99975884	0.02196029	45.52574889	0.021965591	45.53673036	1.000241215
88° 44′ 40″	0.99975991	0.02191182	45.62650193	0.021917087	45.63745916	1.000240151
88° 44′ 50″ 88° 45′ 00″	0.99976097	0.02186335	45.72770170	0.021868582	45.73863468	1.000239089
88° 45′ 10″	0.99976203	0.02181489	45.82935117 45.93145336	0.021820078	45.84025991	1.000238030
88° 45′ 20″	0.99976308	0.02176642 0.02171795	46.03401128	0.021771573 0.021723069	45.94233785 46.04487154	1.000236973 1.000235918
88° 45′ 30″	0.99976519	0.02171773	46.13702801	0.021723067	46.14786402	1.000233718
88° 45′ 40″	0.77776317	0.02162101	46.24050662	0.021674363	46.25131838	1.000234866
88° 45′ 50″	0.99976729	0.02162161	46.34445023	0.021577557	46.35523775	1.000233768
88° 46′ 00″	0.99976833	0.02157254	46.44886198	0.021529053	46.45962526	1.000232768
88° 46′ 10″	0.99976937	0.02132407	46.55374504	0.021480549	46.56448408	1.000230680
88° 46′ 20″	0.99977041	0.02147337	46.65910262	0.021432045	46.66981741	1.000229640
88° 46′ 30″	0.99977145	0.02137865	46.76493793	0.021383542	46.77562848	1.000228602
88° 46′ 40″	0.99977249	0.02133018	46.87125424	0.021335038	46.88192055	1.000227566
88° 46′ 50″	0.99977352	0.02128171	46.97805483	0.021286535	46.98869689	1.000226533
88° 47′ 00″	0.99977455	0.02123324	47.08534303	0.021238032	47.09596084	1.000225502
88° 47′ 10″	0.99977558	0.02118477	47.19312217	0.021189528	47.20371574	1.000224473
88° 47′ 20″	0.99977660	0.02113630	47.30139563	0.021141025	47.31196496	1.000223447
88° 47′ 30″	0.99977763	0.02108783	47.41016683	0.021092522	47.42071192	1.000222423
88° 47′ 40″	0.99977865	0.02103936	47.51943921	0.021044019	47.52996005	1.000221401
88° 47′ 50″	0.99977967	0.02099089	47.62921623	0.020995517	47.63971283	1.000220382
	1 200	3.0207,007				

666 88° 47′ 50″

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
88° 48′ 00″	0.99978068	0.02094242	47.73950141	0.020947014	47.74997376	1.000219365
88° 48′ 10″	0.99978170	0.02089395	47.85029827	0.020898511	47.86074639	1.000218350
88° 48′ 20″	0.99978271	0.02084548	47.96161039	0.020850009	47.97203427	1.000217338
88° 48′ 30″	0.99978372	0.02079701	48.07344138	0.020801506	48.08384101	1.000216328
88° 48′ 40″	0.99978473	0.02074854	48.18579487	0.020753004	48.19617025	1.000215320
88° 48′ 50″	0.99978573	0.02070007	48.29867452	0.020704502	48.30902566	1.000214315
88° 49′ 00″	0.99978673	0.02065159	48.41208405	0.020656000	48.42241095	1.000213312
88° 49′ 10″	0.99978773	0.02060312	48.52602720	0.020607498	48.53632985	1.000212312
88° 49′ 20″	0.99978873	0.02055465	48.64050774	0.020558996	48.65078615	1.000211314
88° 49′ 30″	0.99978973	0.02050618	48.75552948	0.020510494	48.76578365	1.000210318
88° 49′ 40″	0.99979072	0.02045771	48.87109627	0.020461992	48.88132620	1.000209325
88° 49′ 50″	0.99979171	0.02040924	48.98721199	0.020413491	48.99741768	1.000208334
88° 50′ 00″	0.99979270	0.02036077	49.10388057	0.020364989	49.11406201	1.000207345
88° 50′ 10″	0.99979368	0.02031230	49.22110597	0.020316488	49.23126316	1.000206359
88° 50′ 20″	0.99979467	0.02026382	49.33889217	0.020267986	49.34902512	1.000205375
88° 50′ 30″	0.99979565	0.02021535	49.45724322	0.020219485	49.46735193	1.000204393
88° 50′ 40″	0.99979663	0.02016688	49.57616319	0.020170984	49.58624765	1.000203414
88° 50′ 50″	0.99979760	0.02011841	49.69565618	0.020122483	49.70571640	1.000202437
88° 51′ 00″	0.99979858	0.02006994	49.81572636	0.020073982	49.82576234	1.000201462
88° 51′ 10″	0.99979955	0.02002147	49.93637791	0.020025481	49.94638965	1.000200490
88° 51′ 20″	0.99980052	0.01997300	50.05761508	0.019976980	50.06760257	1.000199520
88° 51′ 30″	0.99980149	0.01992452	50.17944212	0.019928480	50.18940537	1.000198552
88° 51′ 40″	0.99980245	0.01987605	50.30186337	0.019879979	50.31180237	1.000197587
88° 51′ 50″	0.99980341	0.01982758	50.42488317	0.019831479	50.43479793	1.000196624
88° 52′ 00″	0.99980437	0.01977911	50.54850593	0.019782978	50.55839645	1.000195664
88° 52′ 10″	0.99980533	0.01973064	50.67273610	0.019734478	50.68260238	1.000194706
88° 52′ 20″	0.99980629	0.01968216	50.79757816	0.019685978	50.80742019	1.000193750
88° 52′ 30″	0.99980724	0.01963369	50.92303664	0.019637478	50.93285443	1.000192797
88° 52′ 40″	0.99980819	0.01958522	51.04911612	0.019588978	51.05890967	1.000191846
88° 52′ 50″	0.99980914	0.01953675	51.17582123	0.019540478	51.18559053	1.000190897
88° 53′ 00″	0.99981009	0.01948828	51.30315663	0.019491978	51.31290169	1.000189951
88° 53′ 10″	0.99981103	0.01943980	51.43112704	0.019443478	51.44084786	1.000189007
88° 53′ 20″	0.99981197	0.01939133	51.55973722	0.019394979	51.56943379	1.000188065
88° 53′ 30″	0.99981291	0.01934286	51.68899198	0.019346479	51.69866431	1.000187126
88° 53′ 40″	0.99981385	0.01929439	51.81889618	0.019297980	51.82854427	1.000186189
88° 53′ 50″	0.99981478	0.01924591	51.94945473	0.019249480	51.95907858	1.000185254
88° 54′ 00″	0.99981571	0.01919744	52.08067259	0.019200981	52.09027219	1.000184322
88° 54′ 10″	0.99981664	0.01914897	52.21255475	0.019152482	52.22213012	1.000183392
88° 54′ 20″	0.99981757	0.01910050	52.34510629	0.019103983	52.35465741	1.000182464
88° 54′ 30″	0.99981849	0.01905202	52.47833231	0.019055484	52.48785919	1.000181539
88° 54′ 40″	0.99981942	0.01900355	52.61223797	0.019006985	52.62174061	1.000180616
88° 54′ 50″	0.99982034	0.01895508	52.74682849	0.018958486	52.75630688	1.000179696
88° 55′ 00″	0.99982125	0.01890661	52.88210913	0.018909987	52.89156328	1.000178778
88° 55′ 10″	0.99982217	0.01885813	53.01808522	0.018861488	53.02751513	1.000177862
88° 55′ 20″	0.99982308	0.01880966	53.15476213	0.018812990	53.16416780	1.000176949
88° 55′ 30″	0.99982399	0.01876119	53.29214530	0.018764491	53.30152672	1.000176038
88° 55′ 40″ 88° 55′ 50″	0.99982490	0.01871272	53.43024022	0.018715993	53.43959740	1.000175129
00 33 30"	0.99982581	0.01866424	53.56905243	0.018667495	53.57838536	1.000174223

667 **88° 55′ 50″**

<u>x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
88° 56′ 00″	0.99982671	0.01861577	53.70858754	0.018618996	53.71789623	1.000173318
88° 56′ 10″	0.99982761	0.01856730	53.84885120	0.018570498	53.85813565	1.000172417
88° 56′ 20″	0.99982851	0.01851882	53.98984914	0.018522000	53.99910935	1.000171518
88° 56′ 30″	0.99982941	0.01847035	54.13158715	0.018473502	54.14082311	1.000170621
88° 56′ 40″	0.99983030	0.01842188	54.27407106	0.018425004	54.28328278	1.000169726
88° 56′ 50″	0.99983119	0.01837340	54.41730678	0.018376507	54.42649425	1.000168834
88° 57′ 00″	0.99983208	0.01832493	54.56130027	0.018328009	54.57046351	1.000167944
88° 57′ 10″	0.99983297	0.01827646	54.70605757	0.018279511	54.71519656	1.000167056
88° 57′ 20″	0.99983386	0.01822798	54.85158477	0.018231014	54.86069952	1.000166171
88° 57′ 30″	0.99983474	0.01817951	54.99788803	0.018182516	55.00697853	1.000165288
88° 57′ 40″	0.99983562	0.01813104	55.14497357	0.018134019	55.15403983	1.000164408
88° 57′ 50″	0.99983650	0.01808256	55.29284769	0.018085522	55.30188971	1.000163530
88° 58′ 00″	0.99983737	0.01803409	55.44151674	0.018037025	55.45053452	1.000162654
88° 58′ 10″	0.99983825	0.01798562	55.59098716	0.017988527	55.59998069	1.000161780
88° 58′ 20″	0.99983912	0.01793714	55.74126543	0.017940030	55.75023473	1.000160909
88° 58′ 30″	0.99983998	0.01788867	55.89235814	0.017891534	55.90130319	1.000160041
88° 58′ 40″	0.99984085	0.01784020	56.04427191	0.017843037	56.05319272	1.000159174
88° 58′ 50″	0.99984171	0.01779172	56.19701347	0.017794540	56.20591003	1.000158310
88° 59′ 00″	0.99984258	0.01774325	56.35058959	0.017746043	56.35946191	1.000157449
88° 59′ 10″	0.99984344	0.01769478	56.50500713	0.017697547	56.51385521	1.000156589
88° 59′ 20″	0.99984429	0.01764630	56.66027303	0.017649050	56.66909687	1.000155732
88° 59′ 30″	0.99984515	0.01759783	56.81639431	0.017600554	56.82519390	1.000154878
88° 59′ 40″	0.99984600	0.01754935	56.97337804	0.017552057	56.98215339	1.000154025
88° 59′ 50″	0.99984685	0.01750088	57.13123140	0.017503561	57.13998251	1.000153176
89° 00′ 00″	0.99984770	0.01745241	57.28996163	0.017455065	57.29868850	1.000152328
89° 00′ 10″	0.99984854	0.01740393	57.44957606	0.017406569	57.45827869	1.000151483
89° 00′ 20″	0.99984938	0.01735546	57.61008211	0.017358073	57.61876049	1.000150640
89° 00′ 30″	0.99985022	0.01730698	57.77148725	0.017309577	57.78014139	1.000149800
89° 00′ 40″	0.99985106	0.01725851	57.93379908	0.017261081	57.94242898	1.000148961
89° 00′ 50″	0.99985190	0.01721004	58.09702525	0.017212585	58.10563090	1.000148126
89° 01′ 00″	0.99985273	0.01716156	58.26117351	0.017164090	58.26975492	1.000147292
89° 01′ 10″	0.99985356	0.01711309	58.42625169	0.017115594	58.43480886	1.000146461
89° 01′ 20″	0.99985439	0.01706461	58.59226773	0.017067098	58.60080066	1.000145632
89° 01′ 30″	0.99985522	0.01701614	58.75922964	0.017018603	58.76773832	1.000144806
89° 01′ 40″	0.99985604	0.01696766	58.92714552	0.016970108	58.93562996	1.000143982
89° 01′ 50″	0.99985686	0.01691919	59.09602357	0.016921612	59.10448377	1.000143160
89° 02′ 00″	0.99985768	0.01687072	59.26587210	0.016873117	59.27430806	1.000142341
89° 02′ 10″	0.99985850	0.01682224	59.43669949	0.016824622	59.44511121	1.000141524
89° 02′ 20″	0.99985931	0.01677377	59.60851423	0.016776127	59.61690170	1.000140709
89° 02′ 30″	0.99986012	0.01672529	59.78132490	0.016727632	59.78968813	1.000139897
89° 02′ 40″	0.99986093	0.01667682	59.95514019	0.016679137	59.96347918	1.000139087
89° 02′ 50″	0.99986174	0.01662834	60.12996889	0.016630642	60.13828363	1.000138280
89° 03′ 00″	0.99986254	0.01657987	60.30581988	0.016582147	60.31411038	1.000137474
89° 03′ 10″	0.99986335	0.01653139	60.48270216	0.016533653	60.49096842	1.000136671
89° 03′ 20″	0.99986415	0.01648292	60.66062483	0.016485158	60.66886685	1.000135871
89° 03′ 30″	0.99986495	0.01643444	60.83959710	0.016436664	60.84781487	1.000135073
89° 03′ 40″	0.99986574	0.01638597	61.01962827	0.016388169	61.02782181	1.000134277
89° 03′ 50″	0.99986653	0.01633749	61.20072779	0.016339675	61.20889708	1.000133484
	1 , 2 2 2 2 3					

668 **89° 03′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
89° 04′ 00″	0.99986733	0.01628902	61.38290518	0.016291181	61.39105023	1.000132692
89° 04′ 10″	0.99986811	0.01624054	61.56617011	0.016242686	61.57429091	1.000131904
89° 04′ 20″	0.99986890	0.01619207	61.75053233	0.016194192	61.75862889	1.000131117
89° 04′ 30″	0.99986968	0.01614359	61.93600173	0.016145698	61.94407406	1.000130333
89° 04′ 40″	0.99987047	0.01609512	62.12258832	0.016097204	62.13063641	1.000129552
89° 04′ 50″	0.99987124	0.01604664	62.31030223	0.016048710	62.31832607	1.000128772
89° 05′ 00″	0.99987202	0.01599817	62.49915370	0.016000217	62.50715330	1.000127995
89° 05′ 10″	0.99987280	0.01594969	62.68915310	0.015951723	62.69712846	1.000127221
89° 05′ 20″	0.99987357	0.01590122	62.88031094	0.015903229	62.88826205	1.000126448
89° 05′ 30″	0.99987434	0.01585274	63.07263784	0.015854736	63.08056471	1.000125678
89° 05′ 40″	0.99987510	0.01580427	63.26614456	0.015806242	63.27404719	1.000124911
89° 05′ 50″	0.99987587	0.01575579	63.46084199	0.015757749	63.46872038	1.000124146
89° 06′ 00″	0.99987663	0.01570732	63.65674116	0.015709255	63.66459531	1.000123383
89° 06′ 10″	0.99987739	0.01565884	63.85385323	0.015660762	63.86168313	1.000122622
89° 06′ 20″	0.99987815	0.01561037	64.05218949	0.015612269	64.05999515	1.000121864
89° 06′ 30″	0.99987891	0.01556189	64.25176140	0.015563776	64.25954281	1.000121108
89° 06′ 40″	0.99987966	0.01551342	64.45258052	0.015515283	64.46033770	1.000120355
89° 06′ 50″	0.99988041	0.01546494	64.65465860	0.015466790	64.66239154	1.000119604
89° 07′ 00″	0.99988116	0.01541646	64.85800751	0.015418297	64.86571620	1.000118855
89° 07′ 10″	0.99988191	0.01536799	65.06263928	0.015369804	65.07032373	1.000118108
89° 07′ 20″	0.99988265	0.01531951	65.26856608	0.015321311	65.27622628	1.000117364
89° 07′ 30″	0.99988339	0.01527104	65.47580025	0.015272818	65.48343621	1.000116623
89° 07′ 40‴	0.99988413	0.01522256	65.68435428	0.015224326	65.69196600	1.000115883
89° 07′ 50″	0.99988487	0.01517409	65.89424082	0.015175833	65.90182830	1.000115146
89° 08′ 00″	0.99988560	0.01512561	66.10547268	0.015127341	66.11303592	1.000114412
89° 08′ 10″	0.99988633	0.01507713	66.31806285	0.015078848	66.32560184	1.000113679
89° 08′ 20″	0.99988706	0.01502866	66.53202446	0.015030356	66.53953921	1.000112949
89° 08′ 30″	0.99988779	0.01498018	66.74737083	0.014981864	66.75486134	1.000112222
89° 08′ 40″	0.99988852	0.01493171	66.96411544	0.014933371	66.97158171	1.000111497
89° 08′ 50″	0.99988924	0.01488323	67.18227197	0.014884879	67.18971400	1.000110774
89° 09′ 00″	0.99988996	0.01483475	67.40185426	0.014836387	67.40927204	1.000110053
89° 09′ 10″	0.99989068	0.01478628	67.62287632	0.014787895	67.63026986	1.000109335
89° 09′ 20″	0.99989139	0.01473780	67.84535236	0.014739403	67.85272166	1.000108619
89° 09′ 30″	0.99989211	0.01468933	68.06929679	0.014690911	68.07664185	1.000107906
89° 09′ 40″	0.99989282	0.01464085	68.29472419	0.014642419	68.30204501	1.000107194
89° 09′ 50″	0.99989353	0.01459237	68.52164934	0.014593928	68.52894591	1.000106486
89° 10′ 00″	0.99989423	0.01454390	68.75008721	0.014545436	68.75735954	1.000105779
89° 10′ 10″	0.99989494	0.01449542	68.98005299	0.014496945	68.98730108	1.000105075
89° 10′ 20″	0.99989564	0.01444695	69.21156205	0.014448453	69.21878590	1.000104373
89° 10′ 30″ 89° 10′ 40″	0.99989634	0.01439847	69.44462999	0.014399962	69.45182960	1.000103674
89° 10′ 50″	0.99989703	0.01434999	69.67927260	0.014351470	69.68644797	1.000102977
89° 11′ 00″	0.99989773	0.01430152 0.01425304	69.91550590	0.014302979 0.014254488	69.92265703	1.000102282 1.000101590
89° 11′ 00″ 89° 11′ 10″	0.99989842	0.01425304	70.15334612 70.39280972	0.014254488	70.16047301 70.39991236	1.000101390
89° 11′ 10″ 89° 11′ 20″	0.99989911	0.01420456	70.39280972	0.014205996	70.39991236 70.64099176	1.000100900
89° 11′ 30″	0.99990048	0.01413609	70.83391336	0.014107003	70.88372812	1.000100212
89° 11′ 40″	0.99990048	0.01410761	70.87667396	0.014109014	71.12813858	1.000099327
89° 11′ 50″	0.99990185	0.01403913	71.12110006	0.014060323	71.12013030	1.0000988164
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669 **89° 11′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
89° 12′ 00″	0.99990252	0.01396218	71.61507012	0.013963541	71.62205155	1.000097485
89° 12′ 10″	0.99990320	0.01391370	71.86463236	0.013915051	71.87158955	1.000096810
89° 12′ 20″	0.99990387	0.01386523	72.11593968	0.013866560	72.12287262	1.000096136
89° 12′ 30″	0.99990454	0.01381675	72.36901044	0.013818069	72.37591914	1.000095465
89° 12′ 40″	0.99990521	0.01376827	72.62386328	0.013769579	72.63074774	1.000094796
89° 12′ 50″	0.99990588	0.01371980	72.88051708	0.013721088	72.88737730	1.000094130
89° 13′ 00″	0.99990654	0.01367132	73.13899101	0.013672598	73.14582699	1.000093466
89° 13′ 10″	0.99990720	0.01362284	73.39930450	0.013624107	73.40611623	1.000092804
89° 13′ 20″	0.99990786	0.01357437	73.66147725	0.013575617	73.66826474	1.000092144
89° 13′ 30″	0.99990852	0.01352589	73.92552926	0.013527127	73.93229251	1.000091487
89° 13′ 40″	0.99990918	0.01347741	74.19148081	0.013478636	74.19821982	1.000090833
89° 13′ 50″	0.99990983	0.01342894	74.45935247	0.013430146	74.46606724	1.000090180
89° 14′ 00″	0.99991048	0.01338046	74.72916511	0.013381656	74.73585564	1.000089530
89° 14′ 10″	0.99991113	0.01333198	75.00093991	0.013333166	75.00760620	1.000088883
89° 14′ 20″	0.99991177	0.01328350	75.27469835	0.013284676	75.28134040	1.000088237
89° 14′ 30″	0.99991241	0.01323503	75.55046223	0.013236186	75.55708003	1.000087594
89° 14′ 40″	0.99991305	0.01318655	75.82825366	0.013187697	75.83484722	1.000086954
89° 14′ 50″	0.99991369	0.01313807	76.10809510	0.013139207	76.11466442	1.000086316
89° 15′ 00″	0.99991433	0.01308960	76.39000931	0.013090717	76.39655439	1.000085680
89° 15′ 10″	0.99991496	0.01304112	76.67401942	0.013042227	76.68054026	1.000085046
89° 15′ 20″	0.99991559	0.01299264	76.96014889	0.012993738	76.96664549	1.000084415
89° 15′ 30″	0.99991622	0.01294416	77.24842153	0.012945248	77.25489389	1.000083786
89° 15′ 40″	0.99991685	0.01289569	77.53886151	0.012896759	77.54530963	1.000083160
89° 15′ 50″	0.99991747	0.01284721	77.83149337	0.012848269	77.83791724	1.000082536
89° 16′ 00″	0.99991809	0.01279873	78.12634202	0.012799780	78.13274165	1.000081914
89° 16′ 10″	0.99991871	0.01275025	78.42343274	0.012751291	78.42980812	1.000081294
89° 16′ 20″	0.99991933	0.01270178	78.72279120	0.012702802	78.72914234	1.000080677
89° 16′ 30″	0.99991994	0.01265330	79.02444347	0.012654312	79.03077038	1.000080063
89° 16′ 40″	0.99992056	0.01260482	79.32841602	0.012605823	79.33471869	1.000079450
89° 16′ 50″	0.99992117	0.01255634	79.63473573	0.012557334	79.64101415	1.000078840
89° 17′ 00″	0.99992177	0.01250787	79.94342988	0.012508845	79.94968406	1.000078233
89° 17′ 10″	0.99992238	0.01245939	80.25452619	0.012460356	80.26075613	1.000077627
89° 17′ 20″	0.99992298	0.01241091	80.56805282	0.012411868	80.57425852	1.000077024
89° 17′ 30″	0.99992358	0.01236243	80.88403835	0.012363379	80.89021981	1.000076424
89° 17′ 40″	0.99992418	0.01231396	81.20251184	0.012314890	81.20866905	1.000075825
89° 17′ 50″	0.99992478	0.01226548	81.52350277	0.012266401	81.52963574	1.000075229
89° 18′ 00″	0.99992537	0.01221700	81.84704111	0.012217913	81.85314984	1.000074636
89° 18′ 10″	0.99992596	0.01216852	82.17315733	0.012169424	82.17924182	1.000074045
89° 18′ 20″	0.99992655	0.01212005	82.50188235	0.012120936	82.50794259	1.000073456
89° 18′ 30″	0.99992714	0.01207157	82.83324759	0.012072447	82.83928360	1.000072869
89° 18′ 40″	0.99992772	0.01202309	83.16728501	0.012023959	83.17329677	1.000072285
89° 18′ 50″	0.99992830	0.01197461	83.50402705	0.011975470	83.51001457	1.000071703
89° 19′ 00″	0.99992888	0.01192613	83.84350670	0.011926982	83.84946998	1.000071124
89° 19′ 10″	0.99992946	0.01187766	84.18575749	0.011878494	84.19169652	1.000070547
89° 19′ 20″	0.99993003	0.01182918	84.53081347	0.011830006	84.53672827	1.000069972
89° 19′ 30″	0.99993061	0.01178070	84.87870929	0.011781518	84.88459984	1.000069400
89° 19′ 40″ 89° 19′ 50″	0.99993118	0.01173222	85.22948014	0.011733029	85.23534646	1.000068830
<u> </u>	0.99993174	0.01168374	85.58316183	0.011684541	85.58900390	1.000068262

670 **89° 19′ 50″**

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
89° 20′ 00″	0.99993231	0.01163527	85.93979073	0.011636053	85.94560855	1.000067697
89° 20′ 10″	0.99993287	0.01158679	86.29940383	0.011587566	86.30519742	1.000067134
89° 20′ 20″	0.99993343	0.01153831	86.66203876	0.011539078	86.66780810	1.000066573
89° 20′ 30″	0.99993399	0.01148983	87.02773376	0.011490590	87.03347886	1.000066015
89° 20′ 40″	0.99993455	0.01144135	87.39652773	0.011442102	87.40224859	1.000065459
89° 20′ 50″	0.99993510	0.01139288	87.76846024	0.011393614	87.77415686	1.000064905
89° 21′ 00″	0.99993565	0.01134440	88.14357152	0.011345127	88.14924390	1.000064354
89° 21′ 10″	0.99993620	0.01129592	88.52190250	0.011296639	88.52755064	1.000063805
89° 21′ 20″	0.99993675	0.01124744	88.90349481	0.011248152	88.90911871	1.000063258
89° 21′ 30″	0.99993729	0.01119896	89.28839082	0.011199664	89.29399048	1.000062714
89° 21′ 40″	0.99993783	0.01115048	89.67663361	0.011151177	89.68220902	1.000062172
89° 21′ 50″	0.99993837	0.01110201	90.06826702	0.011102689	90.07381819	1.000061633
89° 22′ 00″	0.99993891	0.01105353	90.46333567	0.011054202	90.46886260	1.000061096
89° 22′ 10″	0.99993944	0.01100505	90.86188496	0.011005715	90.86738765	1.000060561
89° 22′ 20″	0.99993997	0.01095657	91.26396109	0.010957228	91.26943954	1.000060029
89° 22′ 30″	0.99994051	0.01090809	91.66961109	0.010908741	91.67506530	1.000059499
89° 22′ 40″	0.99994103	0.01085961	92.07888282	0.010860253	92.08431278	1.000058971
89° 22′ 50″	0.99994156	0.01081113	92.49182500	0.010811766	92.49723073	1.000058445
89° 23′ 00″	0.99994208	0.01076266	92.90848724	0.010763279	92.91386872	1.000057922
89° 23′ 10″	0.99994260	0.01071418	93.32892003	0.010714792	93.33427727	1.000057402
89° 23′ 20″	0.99994312	0.01066570	93.75317479	0.010666305	93.75850779	1.000056883
89° 23′ 30″	0.99994364	0.01061722	94.18130387	0.010617819	94.18661263	1.000056367
89° 23′ 40″	0.99994415	0.01056874	94.61336059	0.010569332	94.61864511	1.000055854
89° 23′ 50″	0.99994466	0.01052026	95.04939926	0.010520845	95.05465954	1.000055343
89° 24′ 00″	0.99994517	0.01047178	95.48947517	0.010472358	95.49471121	1.000054834
89° 24′ 10″	0.99994568	0.01042331	95.93364466	0.010423872	95.93885646	1.000054327
89° 24′ 20″	0.99994618	0.01037483	96.38196512	0.010375385	96.38715267	1.000053823
89° 24′ 30″	0.99994668	0.01032635	96.83449500	0.010326898	96.83965832	1.000053321
89° 24′ 40″	0.99994718	0.01027787	97.29129389	0.010278412	97.29643296	1.000052821
89° 24′ 50″	0.99994768	0.01022939	97.75242246	0.010229926	97.75753729	1.000052324
89° 25′ 00″	0.99994817	0.01018091	98.21794259	0.010181439	98.22303318	1.000051830
89° 25′ 10″	0.99994867	0.01013243	98.68791730	0.010132953	98.69298364	1.000051337
89° 25′ 20″	0.99994916	0.01008395	99.16241084	0.010084466	99.16745294	1.000050847
89° 25′ 30″	0.99994964	0.01003547	99.64148870	0.010035980	99.64650656	1.000050359
89° 25′ 40″	0.99995013	0.00998700	100.1252176	0.009987494	100.1302113	1.000049874
89° 25′ 50″	0.99995061	0.00993852	100.6136657	0.009939008	100.6186351	1.000049391
89° 26′ 00″	0.99995109	0.00989004	101.1069024	0.009890522	101.1118475	1.000048910
89° 26′ 10″	0.99995157	0.00984156	101.6049983	0.009842035	101.6099192	1.000048432
89° 26′ 20″	0.99995205	0.00979308	102.1080258	0.009793549	102.1129224	1.000047956
89° 26′ 30″	0.99995252	0.00974460	102.6160583	0.009745063	102.6209307	1.000047482
89° 26′ 40″	0.99995299	0.00969612	103.1291710	0.009696578	103.1340192	1.000047011
89° 26′ 50″	0.99995346	0.00964764	103.6474405	0.009648092	103.6522644	1.000046542
89° 27′ 00″	0.99995393	0.00959916	104.1709448	0.009599606	104.1757445	1.000046075
89° 27′ 10″	0.99995439	0.00955068	104.6997637	0.009551120	104.7045392	1.000045611
89° 27′ 20″	0.99995485	0.00950221	105.2339786	0.009502634	105.2387298	1.000045149
89° 27′ 30″	0.99995531	0.00945373	105.7736724	0.009454148	105.7783994	1.000044689
89° 27′ 40″	0.99995577	0.00940525	106.3189299	0.009405663	106.3236327	1.000044232
89° 27′ 50″	0.99995622	0.00935677	106.8698376	0.009357177	106.8745161	1.000043777

671 **89° 27′ 50″**

	gin(a)	ang(24)	ton(v)	ant(a)	gog(24)	202(21)
x	$\sin(x)$	$\cos(x)$	$\frac{\tan(x)}{107.4264939}$	$\cot(x)$	sec(x)	csc(x)
89° 28′ 00″	0.99995668	0.00930829	107.4264838	0.009308692	107.4311380	1.000043325
89° 28′ 10″	0.99995713	0.00925981	107.9889585	0.009260206	107.9935885	1.000042875
89° 28′ 20″	0.99995757	0.00921133	108.5573538	0.009211720	108.5619596	1.000042427
89° 28′ 30″	0.99995802	0.00916285	109.1317638	0.009163235	109.1363453	1.000041982
89° 28′ 40″	0.99995846	0.00911437	109.7122843	0.009114750	109.7168416	1.000041538
89° 28′ 50″	0.99995890	0.00906589	110.2990134	0.009066264	110.3035464	1.000041098
89° 29′ 00″	0.99995934	0.00901741	110.8920513	0.009017779	110.8965601	1.000040659
89° 29′ 10″	0.99995978	0.00896893	111.4915002	0.008969294	111.4959847	1.000040223
89° 29′ 20″	0.99996021	0.00892045	112.0974646	0.008920808	112.1019250	1.000039790
89° 29′ 30″	0.99996064	0.00887197	112.7100515	0.008872323	112.7144876	1.000039358
89° 29′ 40″	0.99996107	0.00882349	113.3293699	0.008823838	113.3337817	1.000038929
89° 29′ 50″	0.99996150	0.00877502	113.9555314	0.008775353	113.9599190	1.000038503
89° 30′ 00″	0.99996192	0.00872654	114.5886501	0.008726868	114.5930135	1.000038078
89° 30′ 10″	0.99996234	0.00867806	115.2288426	0.008678383	115.2331817	1.000037656
89° 30′ 20″	0.99996276	0.00862958	115.8762281	0.008629898	115.8805429	1.000037237
89° 30′ 30″	0.99996318	0.00858110	116.5309284	0.008581413	116.5352191	1.000036820
89° 30′ 40″	0.99996360	0.00853262	117.1930684	0.008532928	117.1973348	1.000036405
89° 30′ 50″	0.99996401	0.00848414	117.8627755	0.008484443	117.8670176	1.000035992
89° 31′ 00″	0.99996442	0.00843566	118.5401802	0.008435958	118.5443981	1.000035582
89° 31′ 10″	0.99996483	0.00838718	119.2254159	0.008387473	119.2296096	1.000035174
89° 31′ 20″	0.99996523	0.00833870	119.9186194	0.008338989	119.9227888	1.000034769
89° 31′ 30″	0.99996564	0.00829022	120.6199303	0.008290504	120.6240754	1.000034366
89° 31′ 40″	0.99996604	0.00824174	121.3294917	0.008242019	121.3336126	1.000033965
89° 31′ 50″	0.99996643	0.00819326	122.0474501	0.008193535	122.0515468	1.000033566
89° 32′ 00″	0.99996683	0.00814478	122.7739554	0.008145050	122.7780279	1.000033170
89° 32′ 10″	0.99996722	0.00809630	123.5091612	0.008096565	123.5132094	1.000032777
89° 32′ 20″ 89° 32′ 30″	0.99996762	0.00804782 0.00799934	124.2532247	0.008048081 0.007999596	124.2572487	1.000032385
89° 32′ 40″	0.99996839		125.0063070		125.0103067	1.000031996
89° 32′ 50″	0.99996878	0.00795086 0.00790238	125.7685730 126.5401918	0.007951112 0.007902628	125.7725485 126.5441430	1.000031610 1.000031225
89° 33′ 00″	0.99996916	0.00770238	126.3401916	0.007902628	126.3441430	1.000031223
89° 33′ 10″	0.99996954	0.00780542	128.1121846	0.007805659	128.1160874	1.000030843
89° 33′ 20″	0.99996991	0.00780342	128.9129182	0.007803637	128.9167967	1.000030464
89° 33′ 30″	0.99997029	0.00773874	129.7237237	0.007737174	129.7275780	1.000030088
89° 33′ 40″	0.99997066	0.00770040	130.5447924	0.007660206	130.5486224	1.000027712
89° 33′ 50″	0.99997103	0.00763778	131.3763203	0.007611722	131.3801261	1.000027337
89° 34′ 00″	0.99997140	0.00756302	132.2185086	0.007563238	132,2222902	1.000028601
89° 34′ 10″	0.99997177	0.00750302	133.0715637	0.007514754	133.0753210	1.000028235
89° 34′ 20″	0.99997213	0.00731434	133.9356972	0.007466269	133.9394302	1.000027872
89° 34′ 30″	0.99997249	0.00740000	134.8111263	0.007417785	134.8148351	1.000027571
89° 34′ 40″	0.99997285	0.00741738	135.6980740	0.007369301	135.7017586	1.000027311
89° 34′ 50″	0.99997320	0.00730710	136.5967692	0.007320817	136.6004296	1.000027133
89° 35′ 00″	0.99997356	0.00732002	137.5074468	0.007320817	137.5110829	1.000026777
89° 35′ 10″	0.99997391	0.00727214	138.4303480	0.007223850	138.4339598	1.000026092
89° 35′ 20″	0.99997426	0.00717518	139.3657206	0.007175366	139.3693082	1.000025743
89° 35′ 30″	0.99997460	0.00717510	140.3138191	0.007126882	140.3173825	1.000025396
89° 35′ 40″	0.99997495	0.00707822	141.2749051	0.007078398	141.2784443	1.000025052
89° 35′ 50″	0.99997529	0.00702974	142.2492472	0.007029914	142.2527622	1.000024710
		3.00.02,,,		1.00.02////		

672 **89° 35′ 50″**

<u> </u>	$\sin(x)$	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
89° 36′ 00″	0.99997563	0.00698126	143.2371217	0.006981430	143.2406123	1.000024370
89° 36′ 10″	0.99997597	0.00693278	144.2388123	0.006932947	144.2422787	1.000024033
89° 36′ 20″	0.99997630	0.00688430	145.2546110	0.006884463	145.2580532	1.000023698
89° 36′ 30″	0.99997664	0.00683582	146.2848180	0.006835979	146.2882359	1.000023365
89° 36′ 40″	0.99997697	0.00678734	147.3297420	0.006787496	147.3331357	1.000023035
89° 36′ 50″	0.99997729	0.00673886	148.3897006	0.006739012	148.3930701	1.000022707
89° 37′ 00″	0.99997762	0.00669038	149.4650208	0.006690529	149.4683660	1.000022381
89° 37′ 10″	0.99997794	0.00664190	150.5560387	0.006642045	150.5593597	1.000022058
89° 37′ 20″	0.99997826	0.00659342	151.6631009	0.006593562	151.6663976	1.000021737
89° 37′ 30″	0.99997858	0.00654494	152.7865637	0.006545078	152.7898362	1.000021419
89° 37′ 40″	0.99997890	0.00649646	153.9267944	0.006496595	153.9300426	1.000021103
89° 37′ 50″	0.99997921	0.00644798	155.0841711	0.006448111	155.0873952	1.000020789
89° 38′ 00″	0.99997952	0.00639950	156.2590837	0.006399628	156.2622834	1.000020477
89° 38′ 10″	0.99997983	0.00635102	157.4519335	0.006351145	157.4551091	1.000020168
89° 38′ 20″	0.99998014	0.00630254	158.6631347	0.006302661	158.6662860	1.000019862
89° 38′ 30″	0.99998044	0.00625406	159.8931139	0.006254178	159.8962410	1.000019557
89° 38′ 40″	0.99998075	0.00620558	161.1423113	0.006205695	161.1454142	1.000019255
89° 38′ 50″	0.99998104	0.00615709	162.4111809	0.006157212	162.4142595	1.000018955
89° 39′ 00″	0.99998134	0.00610861	163.7001910	0.006108728	163.7032453	1.000018658
89° 39′ 10″	0.99998164	0.00606013	165.0098249	0.006060245	165.0128550	1.000018363
89° 39′ 20″	0.99998193	0.00601165	166.3405818	0.006011762	166.3435876	1.000018070
89° 39′ 30″	0.99998222	0.00596317	167.6929767	0.005963279	167.6959583	1.000017780
89° 39′ 40″	0.99998251	0.00591469	169.0675417	0.005914796	169.0704991	1.000017492
89° 39′ 50″	0.99998279	0.00586621	170.4648266	0.005866313	170.4677597	1.000017207
89° 40′ 00″	0.99998308	0.00581773	171.8853993	0.005817830	171.8883082	1.000016923
89° 40′ 10″	0.99998336	0.00576925	173.3298469	0.005769347	173.3327315	1.000016643
89° 40′ 20″	0.99998364	0.00572077	174.7987763	0.005720864	174.8016367	1.000016364
89° 40′ 30″	0.99998391	0.00567229	176.2928154	0.005672381	176.2956516	1.000016088
89° 40′ 40″	0.99998419	0.00562381	177.8126135	0.005623898	177.8154255	1.000015814
89° 40′ 50″	0.99998446	0.00557533	179.3588426	0.005575415	179.3616303	1.000015543
89° 41′ 00″	0.99998473	0.00552685	180.9321983	0.005526932	180.9349617	1.000015273
89° 41′ 10″	0.99998499	0.00547837	182.5334006	0.005478449	182.5361398	1.000015007
89° 41′ 20″	0.99998526	0.00542989	184.1631956	0.005429967	184.1659106	1.000014742
89° 41′ 30″	0.99998552	0.00538141	185.8223560	0.005381484	185.8250467	1.000014480
89° 41′ 40″	0.99998578	0.00533293	187.5116826	0.005333001	187.5143491	1.000014220
89° 41′ 50″	0.99998604	0.00528444	189.2320057	0.005284518	189.2346479	1.000013963
89° 42′ 00″	0.99998629	0.00523596	190.9841864	0.005236036	190.9868044	1.000013708
89° 42′ 10″	0.99998654	0.00518748	192.7691178	0.005187553	192.7717115	1.000013455
89° 42′ 20″	0.99998680	0.00513900	194.5877268	0.005139070	194.5902964	1.000013205
89° 42′ 30″	0.99998704	0.00509052	196.4409758	0.005090588	196.4435210	1.000012957
89° 42′ 40″	0.99998729	0.00504204	198.3298638	0.005042105	198.3323848	1.000012711
89° 42′ 50″	0.99998753	0.00499356	200.2554289	0.004993622	200.2579257	1.000012468
89° 43′ 00″	0.99998777	0.00494508	202.2187499	0.004945140	202.2212225	1.000012227
89° 43′ 10″	0.99998801	0.00489660	204.2209482	0.004896657	204.2233965	1.000011989
89° 43′ 20″	0.99998825	0.00484812	206.2631902	0.004848175	206.2656143	1.000011752
89° 43′ 30″	0.99998848	0.00479964	208.3466893	0.004799692	208.3490891	1.000011518
89° 43′ 40″ 89° 43′ 50″	0.99998871	0.00475116	210.4727084 212.6425626	0.004751210	210.4750840 212.6449139	1.000011287 1.000011058
07 45 30	0.77770074	0.00470268	Z1Z.04Z36Z6	0.004702727	Z12.0447137	1.000011038

673 **89° 43′ 50″**

<u> x</u>	$\sin(x)$	$\cos(x)$	tan(x)	$\mathbf{cot}(\mathbf{x})$	sec(x)	$\mathbf{csc}(\mathbf{x})$
89° 44′ 00″	0.99998917	0.00465419	214.8576218	0.004654245	214.8599489	1.000010831
89° 44′ 10″	0.99998939	0.00460571	217.1193134	0.004605763	217.1216163	1.000010606
89° 44′ 20″	0.99998962	0.00455723	219.4291259	0.004557280	219.4314045	1.000010384
89° 44′ 30″	0.99998984	0.00450875	221.7886113	0.004508798	221.7908657	1.000010165
89° 44′ 40″	0.99999005	0.00446027	224.1993896	0.004460315	224.2016197	1.000009947
89° 44′ 50″	0.99999027	0.00441179	226.6631516	0.004411833	226.6653576	1.000009732
89° 45′ 00″	0.99999048	0.00436331	229.1816636	0.004363351	229.1838453	1.000009519
89° 45′ 10″	0.99999069	0.00431483	231.7567710	0.004314869	231.7589284	1.000009309
89° 45′ 20″	0.99999090	0.00426635	234.3904032	0.004266386	234.3925363	1.000009101
89° 45′ 30″	0.99999110	0.00421787	237.0845782	0.004217904	237.0866872	1.000008895
89° 45′ 40″	0.99999131	0.00416939	239.8414082	0.004169422	239.8434929	1.000008692
89° 45′ 50″	0.99999151	0.00412090	242.6631043	0.004120940	242.6651648	1.000008491
89° 46′ 00″	0.99999171	0.00407242	245.5519833	0.004072457	245.5540195	1.000008292
89° 46′ 10″	0.99999190	0.00402394	248.5104734	0.004023975	248.5124854	1.000008096
89° 46′ 20″	0.99999210	0.00397546	251.5411215	0.003975493	251.5431092	1.000007902
89° 46′ 30″	0.99999229	0.00392698	254.6465999	0.003927011	254.6485634	1.000007711
89° 46′ 40″	0.99999248	0.00387850	257.8297150	0.003878529	257.8316542	1.000007521
89° 46′ 50″	0.99999267	0.00383002	261.0934148	0.003830047	261.0953298	1.000007335
89° 47′ 00″	0.99999285	0.00378154	264.4407988	0.003781565	264.4426895	1.000007150
89° 47′ 10″	0.99999303	0.00373306	267.8751274	0.003733083	267.8769939	1.000006968
89° 47′ 20″	0.99999321	0.00368458	271.3998327	0.003684601	271.4016749	1.000006788
89° 47′ 30″	0.99999339	0.00363609	275.0185296	0.003636119	275.0203477	1.000006611
89° 47′ 40″	0.99999356	0.00358761	278.7350288	0.003587637	278.7368226	1.000006436
89° 47′ 50″	0.99999374	0.00353913	282.5533494	0.003539155	282.5551190	1.000006263
89° 48′ 00″	0.99999391	0.00349065	286.4777340	0.003490673	286.4794793	1.000006092
89° 48′ 10″	0.99999408	0.00344217	290.5126642	0.003442191	290.5143853	1.000005924
89° 48′ 20″	0.99999424	0.00339369	294.6628777	0.003393709	294.6645745	1.000005759
89° 48′ 30″	0.99999440	0.00334521	298.9333867	0.003345227	298.9350593	1.000005595
89° 48′ 40″	0.99999457	0.00329673	303.3294985	0.003296745	303.3311469	1.000005434
89° 48′ 50″	0.99999472	0.00324825	307.8568370	0.003248263	307.8584611	1.000005276
89° 49′ 00″	0.99999488	0.00319976	312.5213671	0.003199781	312.5229670	1.000005119
89° 49′ 10″	0.99999503	0.00315128	317.3294207	0.003151299	317.3309964	1.000004965
89° 49′ 20″ 89° 49′ 30″	0.99999519	0.00310280	322.2877255	0.003102818	322.2892769	1.000004814
89° 49′ 40″	0.99999548	0.00305432 0.00300584	327.4034363 332.6841694	0.003054336 0.003005854	327.4049634 332.6856723	1.000004664 1.000004518
89° 49′ 50″	0.99999563	0.00300384	338.1380408	0.003003634	338.1395195	1.000004373
89° 50′ 00″	0.99999577	0.00293736	343.7737075	0.002908890	343.7751619	1.000004373
89° 50′ 10″	0.99999591	0.00270888	349.6004131	0.002708870	349.6018433	1.000004231
89° 50′ 20″	0.99999605	0.00286040	355.6280390	0.002860407	355.6294449	1.000003953
89° 50′ 30″	0.99999618	0.00281172	361.8671600	0.002811727	361.8685417	1.000003733
89° 50′ 40″	0.99999631	0.00276343	368.3291062	0.002763443	368.3304636	1.000003818
89° 50′ 50″	0.99999644	0.00271473	375.0260316	0.002666482	375.0273649	1.000003555
89° 51′ 00″	0.99999657	0.00261799	381.9709908	0.002618000	381.9722998	1.000003333
89° 51′ 10″	0.99999670	0.00256951	389.1780232	0.002569518	389.1793080	1.000003427
89° 51′ 20″	0.99999682	0.00252103	396.6622486	0.002521036	396.6635091	1.000003178
89° 51′ 30″	0.99999694	0.00232103	404.4399724	0.002472555	404.4412087	1.000003057
89° 51′ 40″	0.99999706	0.00242407	412.5288045	0.002424073	412.5300165	1.000002938
89° 51′ 50″	0.99999718	0.00237558	420.9477923	0.002375592	420.9489801	1.000002822
	2.,,,,,,,	3.00237330	.20., 1, 7, 23	5.00 <u>2</u> 57,557 <u>2</u>	.20., 10,001	

674 89° 51′ 50″

<u>x</u>	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\mathbf{csc}(\mathbf{x})$
89° 52′ 00″	0.99999729	0.00232710	429.7175706	0.002327110	429.7187342	1.000002708
89° 52′ 10″	0.99999740	0.00227862	438.8605303	0.002278628	438.8616697	1.000002596
89° 52′ 20″	0.99999751	0.00223014	448.4010093	0.002230147	448.4021244	1.000002487
89° 52′ 30″	0.99999762	0.00218166	458.3655089	0.002181665	458.3665997	1.000002380
89° 52′ 40″	0.99999772	0.00213318	468.7829395	0.002133183	468.7840061	1.000002275
89° 52′ 50″	0.99999783	0.00208470	479.6849010	0.002084702	479.6859434	1.000002173
89° 53′ 00″	0.99999793	0.00203622	491.1060028	0.002036220	491.1070209	1.000002073
89° 53′ 10″	0.99999802	0.00198773	503.0842307	0.001987739	503.0852246	1.000001976
89° 53′ 20″	0.99999812	0.00193925	515.6613692	0.001939257	515.6623388	1.000001880
89° 53′ 30″	0.99999821	0.00189077	528.8834883	0.001890776	528.8844337	1.000001788
89° 53′ 40″	0.99999830	0.00184229	542.8015076	0.001842294	542.8024288	1.000001697
89° 53′ 50″	0.99999839	0.00179381	557.4718514	0.001793813	557.4727483	1.000001609
89° 54′ 00″	0.99999848	0.00174533	572.9572134	0.001745331	572.9580860	1.000001523
89° 54′ 10″	0.99999856	0.00169685	589.3274522	0.001696850	589.3283007	1.000001440
89° 54′ 20″	0.99999864	0.00164837	606.6606454	0.001648368	606.6614696	1.000001359
89° 54′ 30″	0.99999872	0.00159988	625.0443341	0.001599887	625.0451341	1.000001280
89° 54′ 40″	0.99999880	0.00155140	644.5770024	0.001551405	644.5777781	1.000001203
89° 54′ 50″	0.99999887	0.00150292	665.3698418	0.001502924	665.3705932	1.000001129
89° 55′ 00″	0.99999894	0.00145444	687.5488693	0.001454442	687.5495966	1.000001058
89° 55′ 10″	0.99999901	0.00140596	711.2574839	0.001405961	711.2581869	1.000000988
89° 55′ 20″	0.99999908	0.00135748	736.6595698	0.001357479	736.6602486	1.000000921
89° 55′ 30″	0.99999914	0.00130900	763.9432905	0.001308998	763.9439450	1.000000857
89° 55′ 40″	0.99999921	0.00126052	793.3257577	0.001260516	793.3263880	1.000000794
89° 55′ 50″	0.99999927	0.00121203	825.0588210	0.001212035	825.0594270	1.000000735
89° 56′ 00″	0.99999932	0.00116355	859.4363048	0.001163553	859.4368866	1.000000677
89° 56′ 10″	0.99999938	0.00111507	896.8031337	0.001115072	896.8036913	1.000000622
89° 56′ 20″	0.99999943	0.00106659	937.5669456	0.001066591	937.5674789	1.000000569
89° 56′ 30″	0.99999948	0.00101811	982.2130237	0.001018109	982.2135328	1.000000518
89° 56′ 40″	0.99999953	0.00096963	1031.323708	0.000969628	1031.324193	1.000000470
89° 56′ 50″	0.99999958	0.00092115	1085.603936	0.000921146	1085.604397	1.000000424
89° 57′ 00″	0.99999962	0.00087266	1145.915299	0.000872665	1145.915736	1.000000381
89° 57′ 10″ 89° 57′ 20″	0.99999966	0.00082418	1213.322115	0.000824183	1213.322527	1.000000340
89° 57′ 30″	0.99999970	0.00077570 0.00072722	1289.154780 1375.098466	0.000775702 0.000727221	1289.155168 1375.098830	1.000000301 1.000000264
89° 57′ 40″	0.99999977	0.00072722	1473.319818	0.000727221	1473.320158	1.000000284
89° 57′ 50″	0.99999980	0.00067874	1586.652146	0.000678739	1586.652461	1.000000230
89° 58′ 00″	0.99999983	0.00058178	1718.873191	0.000581776	1718.873482	1.000000177
89° 58′ 10″	0.77777783	0.00053330	1875.134424	0.000533295	1875.134691	1.000000169
89° 58′ 20″	0.77777788	0.00033330	2062.647901	0.000333273	2062.648143	1.000000142
89° 58′ 30″	0.77777788	0.00043633	2291.831035	0.000436332	2291.831253	1.0000000118
89° 58′ 40″	0.99999992	0.00043033	2578.309949	0.000430332	2578.310143	1.000000075
89° 58′ 50″	0.99999994	0.00033937	2946.639976	0.000339370	2946.640146	1.000000058
89° 59′ 00″	0.99999996	0.00033737	3437.746674	0.000337370	3437.746819	1.000000042
89° 59′ 10″	0.99999997	0.00027007	4125.296044	0.000242407	4125.296165	1.000000042
89° 59′ 20″	0.99999998	0.00024241	5156.620092	0.000193925	5156.620189	1.000000019
89° 59′ 30″	0.99999999	0.00017373	6875.493493	0.000173723	6875.493566	1.000000011
89° 59′ 40″	1.00000000	0.00014544	10313.24028	0.000096963	10313.24033	1.000000005
89° 59′ 50″	1.00000000	0.00004848	20626.48061	0.000048481	20626.48063	1.000000001
	1	2.00001010		2.000010101		

675 **89° 59′ 50″**

x	sin(x)	$\cos(x)$	tan(x)	$\cot(x)$	sec(x)	$\csc(x)$
90° 00′ 00″	1	0	∞	0	∞	1

90° 00′ 00″