

TABLE 2 (0°-180°)

Log.versine α *english*

$$\text{versine} = (1 - \cos \alpha)$$

Log.sinus verse α *français*

$$\text{sinus verse} = (1 - \cos \alpha)$$

example: log.versine 57°33',8 \Rightarrow 9,966617
(Log.sinus verse)

	0	1	2	3	4	5	6	7
ARC↓	DEGREES→	Log versine (L sinus versus)						0° to 7°
0	∞	6,18271	6,78474	7,13687	7,38667	7,58039	7,73863	7,87238
1	2,62642	6,19707	6,79195	7,14168	7,39028	7,58328	7,74104	7,87444
2	3,22848	6,21119	6,79910	7,14646	7,39387	7,58616	7,74344	7,87650
3	3,58066	6,22509	6,80619	7,15122	7,39745	7,58903	7,74583	7,87855
4	3,83054	6,23877	6,81322	7,15595	7,40102	7,59189	7,74822	7,88060
5	4,02436	6,25224	6,82019	7,16066	7,40457	7,59474	7,75060	7,88265
6	4,18272	6,26550	6,82711	7,16534	7,40811	7,59758	7,75297	7,88469
7	4,31662	6,27856	6,83398	7,17000	7,41163	7,60041	7,75534	7,88672
8	4,43260	6,29143	6,84079	7,17463	7,41514	7,60323	7,75770	7,88875
9	4,53491	6,30411	6,84755	7,17924	7,41863	7,60605	7,76006	7,89077
10	4,62642	6,31660	6,85426	7,18382	7,42211	7,60885	7,76241	7,89279
11	4,70921	6,32892	6,86091	7,18838	7,42558	7,61165	7,76475	7,89481
12	4,78478	6,34107	6,86752	7,19291	7,42903	7,61443	7,76708	7,89682
13	4,85431	6,35305	6,87407	7,19742	7,43247	7,61721	7,76941	7,89882
14	4,91868	6,36487	6,88058	7,20191	7,43589	7,61998	7,77174	7,90082
15	4,97860	6,37653	6,88703	7,20638	7,43930	7,62274	7,77405	7,90282
16	5,03466	6,38803	6,89344	7,21082	7,44270	7,62549	7,77636	7,90481
17	5,08732	6,39939	6,89981	7,21524	7,44609	7,62823	7,77867	7,90680
18	5,13697	6,41059	6,90612	7,21963	7,44946	7,63097	7,78097	7,90878
19	5,18393	6,42166	6,91239	7,22401	7,45282	7,63369	7,78326	7,91076
20	5,22848	6,43258	6,91862	7,22836	7,45616	7,63641	7,78555	7,91273
21	5,27086	6,44337	6,92480	7,23269	7,45949	7,63912	7,78783	7,91470
22	5,31127	6,45403	6,93094	7,23700	7,46281	7,64182	7,79010	7,91667
23	5,34988	6,46456	6,93703	7,24129	7,46612	7,64451	7,79237	7,91863
24	5,38684	6,47496	6,94308	7,24556	7,46942	7,64719	7,79463	7,92058
25	5,42230	6,48524	6,94909	7,24980	7,47270	7,64987	7,79689	7,92254
26	5,45637	6,49540	6,95506	7,25403	7,47597	7,65253	7,79914	7,92448
27	5,48915	6,50544	6,96099	7,25823	7,47923	7,65519	7,80139	7,92643
28	5,52074	6,51536	6,96688	7,26242	7,48247	7,65784	7,80362	7,92836
29	5,55122	6,52518	6,97273	7,26658	7,48571	7,66048	7,80586	7,93030
30	5,58066	6,53488	6,97854	7,27073	7,48893	7,66312	7,80809	7,93223
31	5,60914	6,54448	6,98431	7,27485	7,49214	7,66574	7,81031	7,93415
32	5,63672	6,55397	6,99004	7,27896	7,49533	7,66836	7,81252	7,93607
33	5,66345	6,56336	6,99573	7,28304	7,49852	7,67097	7,81473	7,93799
34	5,68938	6,57265	7,00139	7,28711	7,50169	7,67357	7,81694	7,93990
35	5,71455	6,58184	7,00701	7,29116	7,50486	7,67617	7,81914	7,94181
36	5,73902	6,59094	7,01260	7,29519	7,50801	7,67876	7,82133	7,94372
37	5,76282	6,59994	7,01815	7,29920	7,51115	7,68133	7,82352	7,94561
38	5,78599	6,60884	7,02366	7,30319	7,51428	7,68391	7,82570	7,94751
39	5,80855	6,61766	7,02914	7,30716	7,51739	7,68647	7,82788	7,94940
40	5,83054	6,62639	7,03458	7,31112	7,52050	7,68903	7,83005	7,95129
41	5,85198	6,63503	7,03999	7,31506	7,52359	7,69157	7,83222	7,95317
42	5,87292	6,64359	7,04537	7,31898	7,52668	7,69412	7,83438	7,95505
43	5,89335	6,65206	7,05072	7,32288	7,52975	7,69665	7,83653	7,95693
44	5,91332	6,66046	7,05603	7,32676	7,53281	7,69918	7,83869	7,95880
45	5,93284	6,66877	7,06131	7,33063	7,53586	7,70170	7,84083	7,96067
46	5,95193	6,67700	7,06655	7,33448	7,53890	7,70421	7,84297	7,96253
47	5,97061	6,68515	7,07177	7,33832	7,54193	7,70671	7,84510	7,96439
48	5,98890	6,69323	7,07695	7,34213	7,54495	7,70921	7,84723	7,96624
49	6,00681	6,70124	7,08211	7,34593	7,54796	7,71170	7,84936	7,96809
50	6,02435	6,70917	7,08723	7,34972	7,55096	7,71418	7,85148	7,96994
51	6,04155	6,71703	7,09232	7,35348	7,55395	7,71666	7,85359	7,97178
52	6,05842	6,72482	7,09739	7,35723	7,55693	7,71913	7,85570	7,97362
53	6,07497	6,73254	7,10242	7,36097	7,55989	7,72159	7,85780	7,97546
54	6,09120	6,74019	7,10743	7,36469	7,56285	7,72404	7,85990	7,97729
55	6,10714	6,74778	7,11240	7,36839	7,56580	7,72649	7,86199	7,97912
56	6,12279	6,75530	7,11735	7,37208	7,56874	7,72893	7,86408	7,98094
57	6,13816	6,76275	7,12227	7,37575	7,57166	7,73137	7,86616	7,98276
58	6,15327	6,77014	7,12717	7,37940	7,57458	7,73380	7,86824	7,98458
59	6,16812	6,77747	7,13203	7,38304	7,57749	7,73622	7,87031	7,98639
60	6,18271	6,78474	7,13687	7,38667	7,58039	7,73863	7,87238	7,98820

	8	9	10	11	12	13	14	15	
ARC ↓	DEGREES →	Log versine				(L sinus versus)	8° to 15°		
0	7,98820	8,09032	8,18162	8,26418	8,33950	8,40875	8,47282	8,53243	
1	7,99000	8,09192	8,18306	8,26549	8,34070	8,40986	8,47385	8,53338	
2	7,99180	8,09352	8,18451	8,26680	8,34190	8,41096	8,47487	8,53434	
3	7,99360	8,09512	8,18594	8,26810	8,34310	8,41207	8,47590	8,53530	
4	7,99540	8,09671	8,18738	8,26941	8,34429	8,41317	8,47692	8,53626	
5	7,99719	8,09831	8,18881	8,27071	8,34549	8,41427	8,47795	8,53721	
6	7,99897	8,09989	8,19024	8,27201	8,34668	8,41537	8,47897	8,53816	
7	8,00075	8,10148	8,19167	8,27331	8,34787	8,41647	8,47999	8,53912	
8	8,00253	8,10306	8,19310	8,27461	8,34906	8,41757	8,48101	8,54007	
9	8,00431	8,10464	8,19452	8,27590	8,35025	8,41867	8,48203	8,54102	
10	8,00608	8,10622	8,19594	8,27720	8,35144	8,41976	8,48305	8,54197	
11	8,00785	8,10780	8,19736	8,27849	8,35262	8,42086	8,48406	8,54292	
12	8,00961	8,10937	8,19878	8,27978	8,35380	8,42195	8,48508	8,54386	
13	8,01137	8,11094	8,20019	8,28106	8,35498	8,42304	8,48609	8,54481	
14	8,01313	8,11250	8,20160	8,28235	8,35616	8,42413	8,48710	8,54575	
15	8,01488	8,11406	8,20301	8,28363	8,35734	8,42522	8,48811	8,54670	
16	8,01663	8,11562	8,20442	8,28492	8,35852	8,42631	8,48912	8,54764	
17	8,01838	8,11718	8,20583	8,28620	8,35969	8,42739	8,49013	8,54858	
18	8,02012	8,11874	8,20723	8,28747	8,36087	8,42848	8,49114	8,54953	
19	8,02186	8,12029	8,20863	8,28875	8,36204	8,42956	8,49215	8,55047	
20	8,02360	8,12184	8,21003	8,29002	8,36321	8,43064	8,49315	8,55140	
21	8,02533	8,12338	8,21142	8,29130	8,36438	8,43172	8,49416	8,55234	
22	8,02706	8,12493	8,21282	8,29257	8,36554	8,43280	8,49516	8,55328	
23	8,02878	8,12647	8,21421	8,29383	8,36671	8,43388	8,49616	8,55422	
24	8,03051	8,12801	8,21560	8,29510	8,36787	8,43495	8,49716	8,55515	
25	8,03222	8,12954	8,21699	8,29637	8,36903	8,43603	8,49816	8,55608	
26	8,03394	8,13107	8,21837	8,29763	8,37019	8,43710	8,49916	8,55702	
27	8,03565	8,13260	8,21975	8,29889	8,37135	8,43817	8,50016	8,55795	
28	8,03736	8,13413	8,22113	8,30015	8,37251	8,43924	8,50115	8,55888	
29	8,03906	8,13566	8,22251	8,30141	8,37367	8,44031	8,50215	8,55981	
30	8,04077	8,13718	8,22389	8,30266	8,37482	8,44138	8,50314	8,56074	
31	8,04246	8,13870	8,22526	8,30392	8,37597	8,44245	8,50413	8,56167	
32	8,04416	8,14021	8,22663	8,30517	8,37713	8,44351	8,50513	8,56259	
33	8,04585	8,14173	8,22800	8,30642	8,37828	8,44458	8,50612	8,56352	
34	8,04754	8,14324	8,22937	8,30767	8,37942	8,44564	8,50710	8,56444	
35	8,04922	8,14475	8,23073	8,30891	8,38057	8,44670	8,50809	8,56537	
36	8,05091	8,14625	8,23210	8,31016	8,38171	8,44776	8,50908	8,56629	
37	8,05258	8,14775	8,23346	8,31140	8,38286	8,44882	8,51006	8,56721	
38	8,05426	8,14925	8,23482	8,31264	8,38400	8,44988	8,51105	8,56813	
39	8,05593	8,15075	8,23617	8,31388	8,38514	8,45093	8,51203	8,56905	
40	8,05760	8,15225	8,23753	8,31512	8,38628	8,45199	8,51301	8,56997	
41	8,05927	8,15374	8,23888	8,31635	8,38742	8,45304	8,51400	8,57089	
42	8,06093	8,15523	8,24023	8,31759	8,38855	8,45410	8,51498	8,57180	
43	8,06259	8,15672	8,24158	8,31882	8,38969	8,45515	8,51595	8,57272	
44	8,06424	8,15820	8,24292	8,32005	8,39082	8,45620	8,51693	8,57364	
45	8,06590	8,15969	8,24427	8,32128	8,39195	8,45724	8,51791	8,57455	
46	8,06755	8,16117	8,24561	8,32250	8,39308	8,45829	8,51888	8,57546	
47	8,06919	8,16264	8,24695	8,32373	8,39421	8,45934	8,51986	8,57637	
48	8,07084	8,16412	8,24829	8,32495	8,39534	8,46038	8,52083	8,57729	
49	8,07248	8,16559	8,24962	8,32617	8,39646	8,46143	8,52180	8,57819	
50	8,07411	8,16706	8,25095	8,32739	8,39759	8,46247	8,52278	8,57910	
51	8,07575	8,16853	8,25229	8,32861	8,39871	8,46351	8,52375	8,58001	
52	8,07738	8,16999	8,25362	8,32983	8,39983	8,46455	8,52471	8,58092	
53	8,07901	8,17145	8,25494	8,33104	8,40095	8,46559	8,52568	8,58182	
54	8,08063	8,17291	8,25627	8,33226	8,40207	8,46662	8,52665	8,58273	
55	8,08225	8,17437	8,25759	8,33347	8,40319	8,46766	8,52761	8,58363	
56	8,08387	8,17583	8,25891	8,33468	8,40430	8,46869	8,52858	8,58454	
57	8,08549	8,17728	8,26023	8,33589	8,40541	8,46973	8,52954	8,58544	
58	8,08710	8,17873	8,26155	8,33709	8,40653	8,47076	8,53050	8,58634	
59	8,08871	8,18018	8,26286	8,33830	8,40764	8,47179	8,53147	8,58724	
60	8,09032	8,18162	8,26418	8,33950	8,40875	8,47282	8,53243	8,58814	

	16	17	18	19	20	21	22	23	
ARC ↓	DEGREES →	Log versine					(L sinus versus)	16° to 23°	
0	8,58814	8,64043	8,68969	8,73625	8,78037	8,82230	8,86223	8,90034	
1	8,58904	8,64128	8,69049	8,73700	8,78109	8,82298	8,86288	8,90096	
2	8,58994	8,64212	8,69129	8,73776	8,78180	8,82366	8,86353	8,90158	
3	8,59083	8,64297	8,69208	8,73851	8,78252	8,82434	8,86418	8,90220	
4	8,59173	8,64381	8,69288	8,73926	8,78323	8,82502	8,86482	8,90282	
5	8,59262	8,64465	8,69367	8,74001	8,78395	8,82570	8,86547	8,90344	
6	8,59352	8,64549	8,69447	8,74077	8,78466	8,82638	8,86612	8,90406	
7	8,59441	8,64633	8,69526	8,74152	8,78537	8,82705	8,86676	8,90468	
8	8,59530	8,64717	8,69605	8,74227	8,78608	8,82773	8,86741	8,90529	
9	8,59619	8,64801	8,69684	8,74302	8,78679	8,82841	8,86806	8,90591	
10	8,59708	8,64885	8,69763	8,74376	8,78750	8,82908	8,86870	8,90653	
11	8,59797	8,64968	8,69842	8,74451	8,78821	8,82976	8,86935	8,90714	
12	8,59886	8,65052	8,69921	8,74526	8,78892	8,83044	8,86999	8,90776	
13	8,59975	8,65135	8,70000	8,74601	8,78963	8,83111	8,87063	8,90837	
14	8,60063	8,65219	8,70079	8,74675	8,79034	8,83178	8,87128	8,90899	
15	8,60152	8,65302	8,70158	8,74750	8,79105	8,83246	8,87192	8,90960	
16	8,60240	8,65385	8,70236	8,74824	8,79176	8,83313	8,87256	8,91022	
17	8,60329	8,65468	8,70315	8,74899	8,79246	8,83380	8,87320	8,91083	
18	8,60417	8,65551	8,70393	8,74973	8,79317	8,83448	8,87385	8,91144	
19	8,60505	8,65634	8,70472	8,75047	8,79387	8,83515	8,87449	8,91206	
20	8,60593	8,65717	8,70550	8,75121	8,79458	8,83582	8,87513	8,91267	
21	8,60681	8,65800	8,70628	8,75195	8,79528	8,83649	8,87577	8,91328	
22	8,60769	8,65883	8,70706	8,75270	8,79599	8,83716	8,87641	8,91389	
23	8,60857	8,65966	8,70784	8,75344	8,79669	8,83783	8,87704	8,91450	
24	8,60945	8,66048	8,70862	8,75418	8,79739	8,83850	8,87768	8,91511	
25	8,61032	8,66131	8,70940	8,75491	8,79809	8,83917	8,87832	8,91572	
26	8,61120	8,66213	8,71018	8,75565	8,79880	8,83983	8,87896	8,91633	
27	8,61207	8,66296	8,71096	8,75639	8,79950	8,84050	8,87959	8,91694	
28	8,61294	8,66378	8,71174	8,75713	8,80020	8,84117	8,88023	8,91755	
29	8,61382	8,66460	8,71252	8,75786	8,80090	8,84183	8,88087	8,91816	
30	8,61469	8,66542	8,71329	8,75860	8,80159	8,84250	8,88150	8,91876	
31	8,61556	8,66624	8,71407	8,75933	8,80229	8,84316	8,88214	8,91937	
32	8,61643	8,66706	8,71484	8,76007	8,80299	8,84383	8,88277	8,91998	
33	8,61730	8,66788	8,71562	8,76080	8,80369	8,84449	8,88340	8,92058	
34	8,61817	8,66870	8,71639	8,76153	8,80438	8,84516	8,88404	8,92119	
35	8,61903	8,66952	8,71716	8,76227	8,80508	8,84582	8,88467	8,92179	
36	8,61990	8,67033	8,71793	8,76300	8,80578	8,84648	8,88530	8,92240	
37	8,62077	8,67115	8,71870	8,76373	8,80647	8,84714	8,88594	8,92300	
38	8,62163	8,67196	8,71947	8,76446	8,80716	8,84781	8,88657	8,92361	
39	8,62249	8,67278	8,72024	8,76519	8,80786	8,84847	8,88720	8,92421	
40	8,62336	8,67359	8,72101	8,76592	8,80855	8,84913	8,88783	8,92482	
41	8,62422	8,67440	8,72178	8,76665	8,80924	8,84979	8,88846	8,92542	
42	8,62508	8,67521	8,72255	8,76737	8,80994	8,85045	8,88909	8,92602	
43	8,62594	8,67603	8,72332	8,76810	8,81063	8,85111	8,88972	8,92662	
44	8,62680	8,67684	8,72408	8,76883	8,81132	8,85176	8,89035	8,92722	
45	8,62766	8,67765	8,72485	8,76955	8,81201	8,85242	8,89097	8,92782	
46	8,62852	8,67845	8,72561	8,77028	8,81270	8,85308	8,89160	8,92843	
47	8,62937	8,67926	8,72638	8,77100	8,81339	8,85374	8,89223	8,92903	
48	8,63023	8,68007	8,72714	8,77173	8,81408	8,85439	8,89286	8,92962	
49	8,63108	8,68088	8,72790	8,77245	8,81476	8,85505	8,89348	8,93022	
50	8,63194	8,68168	8,72867	8,77318	8,81545	8,85570	8,89411	8,93082	
51	8,63279	8,68249	8,72943	8,77390	8,81614	8,85636	8,89473	8,93142	
52	8,63364	8,68329	8,73019	8,77462	8,81683	8,85701	8,89536	8,93202	
53	8,63450	8,68409	8,73095	8,77534	8,81751	8,85767	8,89598	8,93262	
54	8,63535	8,68490	8,73171	8,77606	8,81820	8,85832	8,89661	8,93321	
55	8,63620	8,68570	8,73247	8,77678	8,81888	8,85897	8,89723	8,93381	
56	8,63705	8,68650	8,73322	8,77750	8,81957	8,85962	8,89785	8,93441	
57	8,63789	8,68730	8,73398	8,77822	8,82025	8,86028	8,89848	8,93500	
58	8,63874	8,68810	8,73474	8,77894	8,82093	8,86093	8,89910	8,93560	
59	8,63959	8,68890	8,73549	8,77965	8,82161	8,86158	8,89972	8,93619	
60	8,64043	8,68969	8,73625	8,78037	8,82230	8,86223	8,90034	8,93679	

	24	25	26	27	28	29	30	31
ARC ↓	DEGREES →	Log versine				(L sinus versus)	24° to 31°	
0	8,93679	8,97170	9,00521	9,03740	9,06838	9,09823	9,12702	9,15483
1	8,93738	8,97227	9,00575	9,03793	9,06889	9,09872	9,12749	9,15528
2	8,93798	8,97284	9,00630	9,03845	9,06939	9,09921	9,12796	9,15574
3	8,93857	8,97341	9,00685	9,03898	9,06990	9,09969	9,12844	9,15619
4	8,93916	8,97398	9,00739	9,03950	9,07040	9,10018	9,12891	9,15665
5	8,93975	8,97455	9,00794	9,04003	9,07091	9,10067	9,12938	9,15710
6	8,94035	8,97512	9,00848	9,04055	9,07141	9,10115	9,12985	9,15756
7	8,94094	8,97568	9,00903	9,04108	9,07192	9,10164	9,13032	9,15801
8	8,94153	8,97625	9,00957	9,04160	9,07242	9,10213	9,13079	9,15846
9	8,94212	8,97682	9,01012	9,04212	9,07293	9,10261	9,13125	9,15892
10	8,94271	8,97738	9,01066	9,04265	9,07343	9,10310	9,13172	9,15937
11	8,94330	8,97795	9,01120	9,04317	9,07393	9,10358	9,13219	9,15982
12	8,94389	8,97851	9,01175	9,04369	9,07444	9,10407	9,13266	9,16028
13	8,94448	8,97908	9,01229	9,04421	9,07494	9,10455	9,13313	9,16073
14	8,94507	8,97964	9,01283	9,04473	9,07544	9,10504	9,13360	9,16118
15	8,94566	8,98021	9,01337	9,04526	9,07595	9,10552	9,13406	9,16163
16	8,94624	8,98077	9,01392	9,04578	9,07645	9,10601	9,13453	9,16208
17	8,94683	8,98133	9,01446	9,04630	9,07695	9,10649	9,13500	9,16253
18	8,94742	8,98190	9,01500	9,04682	9,07745	9,10697	9,13546	9,16299
19	8,94800	8,98246	9,01554	9,04734	9,07795	9,10746	9,13593	9,16344
20	8,94859	8,98302	9,01608	9,04786	9,07845	9,10794	9,13640	9,16389
21	8,94918	8,98358	9,01662	9,04838	9,07895	9,10842	9,13686	9,16434
22	8,94976	8,98415	9,01716	9,04890	9,07945	9,10891	9,13733	9,16479
23	8,95035	8,98471	9,01770	9,04941	9,07995	9,10939	9,13779	9,16524
24	8,95093	8,98527	9,01824	9,04993	9,08045	9,10987	9,13826	9,16569
25	8,95152	8,98583	9,01877	9,05045	9,08095	9,11035	9,13872	9,16614
26	8,95210	8,98639	9,01931	9,05097	9,08145	9,11083	9,13919	9,16659
27	8,95268	8,98695	9,01985	9,05149	9,08195	9,11131	9,13965	9,16703
28	8,95326	8,98751	9,02039	9,05200	9,08245	9,11179	9,14012	9,16748
29	8,95385	8,98807	9,02092	9,05252	9,08294	9,11227	9,14058	9,16793
30	8,95443	8,98862	9,02146	9,05304	9,08344	9,11275	9,14104	9,16838
31	8,95501	8,98918	9,02200	9,05355	9,08394	9,11323	9,14151	9,16883
32	8,95559	8,98974	9,02253	9,05407	9,08444	9,11371	9,14197	9,16927
33	8,95617	8,99030	9,02307	9,05458	9,08493	9,11419	9,14243	9,16972
34	8,95675	8,99085	9,02360	9,05510	9,08543	9,11467	9,14290	9,17017
35	8,95733	8,99141	9,02414	9,05561	9,08592	9,11515	9,14336	9,17062
36	8,95791	8,99197	9,02467	9,05613	9,08642	9,11563	9,14382	9,17106
37	8,95849	8,99252	9,02521	9,05664	9,08692	9,11611	9,14428	9,17151
38	8,95907	8,99308	9,02574	9,05716	9,08741	9,11658	9,14474	9,17195
39	8,95965	8,99363	9,02628	9,05767	9,08791	9,11706	9,14520	9,17240
40	8,96023	8,99419	9,02681	9,05818	9,08840	9,11754	9,14567	9,17285
41	8,96081	8,99474	9,02734	9,05870	9,08889	9,11801	9,14613	9,17329
42	8,96138	8,99530	9,02787	9,05921	9,08939	9,11849	9,14659	9,17374
43	8,96196	8,99585	9,02841	9,05972	9,08988	9,11897	9,14705	9,17418
44	8,96254	8,99640	9,02894	9,06023	9,09038	9,11944	9,14751	9,17463
45	8,96311	8,99696	9,02947	9,06074	9,09087	9,11992	9,14797	9,17507
46	8,96369	8,99751	9,03000	9,06126	9,09136	9,12039	9,14842	9,17551
47	8,96426	8,99806	9,03053	9,06177	9,09185	9,12087	9,14888	9,17596
48	8,96484	8,99861	9,03106	9,06228	9,09235	9,12134	9,14934	9,17640
49	8,96541	8,99916	9,03159	9,06279	9,09284	9,12182	9,14980	9,17685
50	8,96599	8,99972	9,03212	9,06330	9,09333	9,12229	9,15026	9,17729
51	8,96656	9,00027	9,03265	9,06381	9,09382	9,12277	9,15072	9,17773
52	8,96713	9,00082	9,03318	9,06432	9,09431	9,12324	9,15118	9,17817
53	8,96770	9,00137	9,03371	9,06483	9,09480	9,12372	9,15163	9,17862
54	8,96828	9,00192	9,03424	9,06533	9,09529	9,12419	9,15209	9,17906
55	8,96885	9,00247	9,03477	9,06584	9,09578	9,12466	9,15255	9,17950
56	8,96942	9,00301	9,03529	9,06635	9,09627	9,12513	9,15300	9,17994
57	8,96999	9,00356	9,03582	9,06686	9,09676	9,12561	9,15346	9,18038
58	8,97056	9,00411	9,03635	9,06737	9,09725	9,12608	9,15392	9,18082
59	8,97113	9,00466	9,03687	9,06787	9,09774	9,12655	9,15437	9,18127
60	8,97170	9,00521	9,03740	9,06838	9,09823	9,12702	9,15483	9,18171

	32	33	34	35	36	37	38	39
ARC ↓	DEGREES →	Log versine				(L sinus versus)		32° to 39°
0	9,18171	9,20771	9,23290	9,25731	9,28099	9,30398	9,32631	9,34802
1	9,18215	9,20814	9,23331	9,25771	9,28138	9,30436	9,32668	9,34838
2	9,18259	9,20857	9,23373	9,25811	9,28177	9,30474	9,32705	9,34873
3	9,18303	9,20899	9,23414	9,25851	9,28216	9,30511	9,32741	9,34909
4	9,18347	9,20942	9,23455	9,25891	9,28255	9,30549	9,32778	9,34945
5	9,18391	9,20984	9,23496	9,25931	9,28294	9,30587	9,32815	9,34980
6	9,18435	9,21027	9,23538	9,25971	9,28332	9,30624	9,32851	9,35016
7	9,18478	9,21069	9,23579	9,26011	9,28371	9,30662	9,32888	9,35051
8	9,18522	9,21112	9,23620	9,26051	9,28410	9,30700	9,32924	9,35087
9	9,18566	9,21154	9,23661	9,26091	9,28449	9,30737	9,32961	9,35122
10	9,18610	9,21197	9,23702	9,26131	9,28487	9,30775	9,32997	9,35158
11	9,18654	9,21239	9,23743	9,26171	9,28526	9,30813	9,33034	9,35193
12	9,18698	9,21282	9,23784	9,26211	9,28565	9,30850	9,33070	9,35229
13	9,18741	9,21324	9,23825	9,26251	9,28603	9,30888	9,33107	9,35264
14	9,18785	9,21366	9,23866	9,26290	9,28642	9,30925	9,33143	9,35300
15	9,18829	9,21409	9,23907	9,26330	9,28681	9,30963	9,33180	9,35335
16	9,18872	9,21451	9,23948	9,26370	9,28719	9,31000	9,33216	9,35371
17	9,18916	9,21493	9,23989	9,26410	9,28758	9,31038	9,33253	9,35406
18	9,18960	9,21535	9,24030	9,26449	9,28796	9,31075	9,33289	9,35442
19	9,19003	9,21578	9,24071	9,26489	9,28835	9,31112	9,33325	9,35477
20	9,19047	9,21620	9,24112	9,26529	9,28873	9,31150	9,33362	9,35512
21	9,19091	9,21662	9,24153	9,26568	9,28912	9,31187	9,33398	9,35548
22	9,19134	9,21704	9,24194	9,26608	9,28950	9,31225	9,33434	9,35583
23	9,19178	9,21746	9,24235	9,26648	9,28989	9,31262	9,33471	9,35618
24	9,19221	9,21788	9,24276	9,26687	9,29027	9,31299	9,33507	9,35654
25	9,19265	9,21831	9,24316	9,26727	9,29066	9,31337	9,33543	9,35689
26	9,19308	9,21873	9,24357	9,26766	9,29104	9,31374	9,33579	9,35724
27	9,19351	9,21915	9,24398	9,26806	9,29142	9,31411	9,33616	9,35759
28	9,19395	9,21957	9,24439	9,26845	9,29181	9,31448	9,33652	9,35795
29	9,19438	9,21999	9,24479	9,26885	9,29219	9,31486	9,33688	9,35830
30	9,19482	9,22041	9,24520	9,26924	9,29257	9,31523	9,33724	9,35865
31	9,19525	9,22083	9,24561	9,26964	9,29296	9,31560	9,33760	9,35900
32	9,19568	9,22125	9,24601	9,27003	9,29334	9,31597	9,33797	9,35935
33	9,19611	9,22166	9,24642	9,27043	9,29372	9,31634	9,33833	9,35970
34	9,19655	9,22208	9,24683	9,27082	9,29410	9,31672	9,33869	9,36006
35	9,19698	9,22250	9,24723	9,27121	9,29449	9,31709	9,33905	9,36041
36	9,19741	9,22292	9,24764	9,27161	9,29487	9,31746	9,33941	9,36076
37	9,19784	9,22334	9,24804	9,27200	9,29525	9,31783	9,33977	9,36111
38	9,19828	9,22376	9,24845	9,27239	9,29563	9,31820	9,34013	9,36146
39	9,19871	9,22418	9,24885	9,27279	9,29601	9,31857	9,34049	9,36181
40	9,19914	9,22459	9,24926	9,27318	9,29639	9,31894	9,34085	9,36216
41	9,19957	9,22501	9,24966	9,27357	9,29678	9,31931	9,34121	9,36251
42	9,20000	9,22543	9,25007	9,27396	9,29716	9,31968	9,34157	9,36286
43	9,20043	9,22584	9,25047	9,27436	9,29754	9,32005	9,34193	9,36321
44	9,20086	9,22626	9,25088	9,27475	9,29792	9,32042	9,34229	9,36356
45	9,20129	9,22668	9,25128	9,27514	9,29830	9,32079	9,34265	9,36391
46	9,20172	9,22709	9,25168	9,27553	9,29868	9,32116	9,34301	9,36426
47	9,20215	9,22751	9,25209	9,27592	9,29906	9,32153	9,34337	9,36461
48	9,20258	9,22793	9,25249	9,27632	9,29944	9,32190	9,34373	9,36496
49	9,20301	9,22834	9,25289	9,27671	9,29982	9,32227	9,34409	9,36531
50	9,20344	9,22876	9,25330	9,27710	9,30020	9,32264	9,34444	9,36565
51	9,20387	9,22917	9,25370	9,27749	9,30058	9,32300	9,34480	9,36600
52	9,20429	9,22959	9,25410	9,27788	9,30096	9,32337	9,34516	9,36635
53	9,20472	9,23000	9,25450	9,27827	9,30134	9,32374	9,34552	9,36670
54	9,20515	9,23042	9,25491	9,27866	9,30171	9,32411	9,34588	9,36705
55	9,20558	9,23083	9,25531	9,27905	9,30209	9,32448	9,34623	9,36740
56	9,20601	9,23125	9,25571	9,27944	9,30247	9,32484	9,34659	9,36774
57	9,20643	9,23166	9,25611	9,27983	9,30285	9,32521	9,34695	9,36809
58	9,20686	9,23207	9,25651	9,28022	9,30323	9,32558	9,34731	9,36844
59	9,20729	9,23249	9,25691	9,28061	9,30361	9,32595	9,34766	9,36879
60	9,20771	9,23290	9,25731	9,28099	9,30398	9,32631	9,34802	9,36913

	40	41	42	43	44	45	46	47
ARC ↓	DEGREES →	Log versine				(L sinus versus)	40° to 47°	
0	9,36913	9,38968	9,40969	9,42918	9,44818	9,46671	9,48479	9,50243
1	9,36948	9,39002	9,41002	9,42950	9,44849	9,46701	9,48508	9,50272
2	9,36983	9,39036	9,41035	9,42982	9,44881	9,46732	9,48538	9,50301
3	9,37017	9,39069	9,41067	9,43014	9,44912	9,46762	9,48568	9,50330
4	9,37052	9,39103	9,41100	9,43046	9,44943	9,46793	9,48598	9,50359
5	9,37087	9,39137	9,41133	9,43078	9,44974	9,46823	9,48627	9,50388
6	9,37121	9,39171	9,41166	9,43110	9,45005	9,46854	9,48657	9,50417
7	9,37156	9,39204	9,41199	9,43142	9,45037	9,46884	9,48687	9,50446
8	9,37191	9,39238	9,41232	9,43174	9,45068	9,46915	9,48716	9,50475
9	9,37225	9,39272	9,41264	9,43206	9,45099	9,46945	9,48746	9,50504
10	9,37260	9,39305	9,41297	9,43238	9,45130	9,46975	9,48776	9,50533
11	9,37294	9,39339	9,41330	9,43270	9,45161	9,47006	9,48805	9,50562
12	9,37329	9,39372	9,41363	9,43302	9,45192	9,47036	9,48835	9,50591
13	9,37363	9,39406	9,41395	9,43334	9,45223	9,47066	9,48864	9,50620
14	9,37398	9,39440	9,41428	9,43366	9,45255	9,47097	9,48894	9,50649
15	9,37432	9,39473	9,41461	9,43398	9,45286	9,47127	9,48924	9,50677
16	9,37467	9,39507	9,41494	9,43429	9,45317	9,47157	9,48953	9,50706
17	9,37501	9,39540	9,41526	9,43461	9,45348	9,47188	9,48983	9,50735
18	9,37536	9,39574	9,41559	9,43493	9,45379	9,47218	9,49012	9,50764
19	9,37570	9,39607	9,41592	9,43525	9,45410	9,47248	9,49042	9,50793
20	9,37604	9,39641	9,41624	9,43557	9,45441	9,47278	9,49071	9,50822
21	9,37639	9,39674	9,41657	9,43589	9,45472	9,47309	9,49101	9,50851
22	9,37673	9,39708	9,41689	9,43620	9,45503	9,47339	9,49130	9,50879
23	9,37708	9,39741	9,41722	9,43652	9,45534	9,47369	9,49160	9,50908
24	9,37742	9,39775	9,41755	9,43684	9,45565	9,47399	9,49189	9,50937
25	9,37776	9,39808	9,41787	9,43716	9,45596	9,47430	9,49219	9,50966
26	9,37811	9,39842	9,41820	9,43747	9,45627	9,47460	9,49248	9,50994
27	9,37845	9,39875	9,41852	9,43779	9,45658	9,47490	9,49278	9,51023
28	9,37879	9,39908	9,41885	9,43811	9,45688	9,47520	9,49307	9,51052
29	9,37913	9,39942	9,41917	9,43842	9,45719	9,47550	9,49337	9,51081
30	9,37948	9,39975	9,41950	9,43874	9,45750	9,47580	9,49366	9,51109
31	9,37982	9,40008	9,41982	9,43906	9,45781	9,47610	9,49395	9,51138
32	9,38016	9,40042	9,42015	9,43937	9,45812	9,47641	9,49425	9,51167
33	9,38050	9,40075	9,42047	9,43969	9,45843	9,47671	9,49454	9,51195
34	9,38084	9,40108	9,42080	9,44001	9,45874	9,47701	9,49484	9,51224
35	9,38119	9,40142	9,42112	9,44032	9,45905	9,47731	9,49513	9,51253
36	9,38153	9,40175	9,42144	9,44064	9,45935	9,47761	9,49542	9,51281
37	9,38187	9,40208	9,42177	9,44095	9,45966	9,47791	9,49572	9,51310
38	9,38221	9,40241	9,42209	9,44127	9,45997	9,47821	9,49601	9,51339
39	9,38255	9,40275	9,42242	9,44159	9,46028	9,47851	9,49630	9,51367
40	9,38289	9,40308	9,42274	9,44190	9,46058	9,47881	9,49660	9,51396
41	9,38323	9,40341	9,42306	9,44222	9,46089	9,47911	9,49689	9,51425
42	9,38357	9,40374	9,42339	9,44253	9,46120	9,47941	9,49718	9,51453
43	9,38391	9,40407	9,42371	9,44285	9,46151	9,47971	9,49747	9,51482
44	9,38426	9,40440	9,42403	9,44316	9,46181	9,48001	9,49777	9,51510
45	9,38460	9,40474	9,42435	9,44348	9,46212	9,48031	9,49806	9,51539
46	9,38494	9,40507	9,42468	9,44379	9,46243	9,48061	9,49835	9,51567
47	9,38528	9,40540	9,42500	9,44410	9,46273	9,48091	9,49864	9,51596
48	9,38562	9,40573	9,42532	9,44442	9,46304	9,48121	9,49893	9,51624
49	9,38595	9,40606	9,42564	9,44473	9,46335	9,48150	9,49923	9,51653
50	9,38629	9,40639	9,42597	9,44505	9,46365	9,48180	9,49952	9,51681
51	9,38663	9,40672	9,42629	9,44536	9,46396	9,48210	9,49981	9,51710
52	9,38697	9,40705	9,42661	9,44568	9,46427	9,48240	9,50010	9,51738
53	9,38731	9,40738	9,42693	9,44599	9,46457	9,48270	9,50039	9,51767
54	9,38765	9,40771	9,42725	9,44630	9,46488	9,48300	9,50068	9,51795
55	9,38799	9,40804	9,42758	9,44662	9,46518	9,48330	9,50098	9,51824
56	9,38833	9,40837	9,42790	9,44693	9,46549	9,48359	9,50127	9,51852
57	9,38867	9,40870	9,42822	9,44724	9,46579	9,48389	9,50156	9,51880
58	9,38900	9,40903	9,42854	9,44756	9,46610	9,48419	9,50185	9,51909
59	9,38934	9,40936	9,42886	9,44787	9,46640	9,48449	9,50214	9,51937
60	9,38968	9,40969	9,42918	9,44818	9,46671	9,48479	9,50243	9,51966

	48	49	50	51	52	53	54	55	
ARC ↓	DEGREES →	Log versine					(L sinus versus)	48° to 55°	
0	9,51966	9,53648	9,55293	9,56900	9,58471	9,60008	9,61512	9,62984	
1	9,51994	9,53676	9,55320	9,56926	9,58497	9,60034	9,61537	9,63008	
2	9,52022	9,53704	9,55347	9,56953	9,58523	9,60059	9,61562	9,63033	
3	9,52051	9,53732	9,55374	9,56979	9,58549	9,60084	9,61587	9,63057	
4	9,52079	9,53759	9,55401	9,57006	9,58575	9,60110	9,61611	9,63081	
5	9,52107	9,53787	9,55428	9,57032	9,58601	9,60135	9,61636	9,63105	
6	9,52136	9,53815	9,55455	9,57059	9,58627	9,60160	9,61661	9,63130	
7	9,52164	9,53842	9,55482	9,57085	9,58652	9,60186	9,61686	9,63154	
8	9,52192	9,53870	9,55509	9,57111	9,58678	9,60211	9,61710	9,63178	
9	9,52221	9,53897	9,55536	9,57138	9,58704	9,60236	9,61735	9,63202	
10	9,52249	9,53925	9,55563	9,57164	9,58730	9,60261	9,61760	9,63226	
11	9,52277	9,53953	9,55590	9,57191	9,58756	9,60287	9,61785	9,63251	
12	9,52305	9,53980	9,55617	9,57217	9,58782	9,60312	9,61809	9,63275	
13	9,52334	9,54008	9,55644	9,57243	9,58807	9,60337	9,61834	9,63299	
14	9,52362	9,54035	9,55671	9,57270	9,58833	9,60362	9,61859	9,63323	
15	9,52390	9,54063	9,55698	9,57296	9,58859	9,60388	9,61883	9,63347	
16	9,52418	9,54091	9,55725	9,57322	9,58885	9,60413	9,61908	9,63371	
17	9,52446	9,54118	9,55752	9,57349	9,58910	9,60438	9,61933	9,63395	
18	9,52475	9,54146	9,55779	9,57375	9,58936	9,60463	9,61957	9,63420	
19	9,52503	9,54173	9,55806	9,57401	9,58962	9,60488	9,61982	9,63444	
20	9,52531	9,54201	9,55832	9,57428	9,58988	9,60513	9,62006	9,63468	
21	9,52559	9,54228	9,55859	9,57454	9,59013	9,60539	9,62031	9,63492	
22	9,52587	9,54256	9,55886	9,57480	9,59039	9,60564	9,62056	9,63516	
23	9,52615	9,54283	9,55913	9,57506	9,59065	9,60589	9,62080	9,63540	
24	9,52643	9,54311	9,55940	9,57533	9,59090	9,60614	9,62105	9,63564	
25	9,52672	9,54338	9,55967	9,57559	9,59116	9,60639	9,62129	9,63588	
26	9,52700	9,54366	9,55994	9,57585	9,59142	9,60664	9,62154	9,63612	
27	9,52728	9,54393	9,56020	9,57611	9,59167	9,60689	9,62179	9,63636	
28	9,52756	9,54420	9,56047	9,57638	9,59193	9,60714	9,62203	9,63660	
29	9,52784	9,54448	9,56074	9,57664	9,59219	9,60739	9,62228	9,63684	
30	9,52812	9,54475	9,56101	9,57690	9,59244	9,60765	9,62252	9,63708	
31	9,52840	9,54503	9,56128	9,57716	9,59270	9,60790	9,62277	9,63732	
32	9,52868	9,54530	9,56154	9,57742	9,59295	9,60815	9,62301	9,63756	
33	9,52896	9,54557	9,56181	9,57769	9,59321	9,60840	9,62326	9,63780	
34	9,52924	9,54585	9,56208	9,57795	9,59347	9,60865	9,62350	9,63804	
35	9,52952	9,54612	9,56235	9,57821	9,59372	9,60890	9,62375	9,63828	
36	9,52980	9,54639	9,56261	9,57847	9,59398	9,60915	9,62399	9,63852	
37	9,53008	9,54667	9,56288	9,57873	9,59423	9,60940	9,62424	9,63876	
38	9,53036	9,54694	9,56315	9,57899	9,59449	9,60965	9,62448	9,63900	
39	9,53064	9,54721	9,56341	9,57925	9,59474	9,60990	9,62473	9,63924	
40	9,53092	9,54749	9,56368	9,57951	9,59500	9,61015	9,62497	9,63948	
41	9,53120	9,54776	9,56395	9,57978	9,59525	9,61040	9,62521	9,63972	
42	9,53148	9,54803	9,56422	9,58004	9,59551	9,61065	9,62546	9,63996	
43	9,53176	9,54831	9,56448	9,58030	9,59576	9,61090	9,62570	9,64020	
44	9,53203	9,54858	9,56475	9,58056	9,59602	9,61115	9,62595	9,64044	
45	9,53231	9,54885	9,56501	9,58082	9,59627	9,61139	9,62619	9,64068	
46	9,53259	9,54912	9,56528	9,58108	9,59653	9,61164	9,62644	9,64091	
47	9,53287	9,54940	9,56555	9,58134	9,59678	9,61189	9,62668	9,64115	
48	9,53315	9,54967	9,56581	9,58160	9,59704	9,61214	9,62692	9,64139	
49	9,53343	9,54994	9,56608	9,58186	9,59729	9,61239	9,62717	9,64163	
50	9,53371	9,55021	9,56635	9,58212	9,59755	9,61264	9,62741	9,64187	
51	9,53398	9,55048	9,56661	9,58238	9,59780	9,61289	9,62765	9,64211	
52	9,53426	9,55076	9,56688	9,58264	9,59805	9,61314	9,62790	9,64235	
53	9,53454	9,55103	9,56714	9,58290	9,59831	9,61339	9,62814	9,64258	
54	9,53482	9,55130	9,56741	9,58316	9,59856	9,61363	9,62838	9,64282	
55	9,53510	9,55157	9,56767	9,58342	9,59882	9,61388	9,62863	9,64306	
56	9,53537	9,55184	9,56794	9,58368	9,59907	9,61413	9,62887	9,64330	
57	9,53565	9,55211	9,56820	9,58394	9,59932	9,61438	9,62911	9,64354	
58	9,53593	9,55238	9,56847	9,58420	9,59958	9,61463	9,62936	9,64377	
59	9,53621	9,55266	9,56873	9,58445	9,59983	9,61488	9,62960	9,64401	
60	9,53648	9,55293	9,56900	9,58471	9,60008	9,61512	9,62984	9,64425	

	56	57	58	59	60	61	62	63
ARC ↓	DEGREES →	Log versine				(L sinus versus)	56° to 63°	
0	9,64425	9,65836	9,67217	9,68571	9,69897	9,71197	9,72471	9,73720
1	9,64449	9,65859	9,67240	9,68593	9,69919	9,71218	9,72492	9,73741
2	9,64472	9,65882	9,67263	9,68615	9,69941	9,71240	9,72513	9,73761
3	9,64496	9,65905	9,67286	9,68638	9,69963	9,71261	9,72534	9,73782
4	9,64520	9,65929	9,67308	9,68660	9,69984	9,71283	9,72555	9,73802
5	9,64544	9,65952	9,67331	9,68682	9,70006	9,71304	9,72576	9,73823
6	9,64567	9,65975	9,67354	9,68705	9,70028	9,71325	9,72597	9,73844
7	9,64591	9,65998	9,67377	9,68727	9,70050	9,71347	9,72618	9,73864
8	9,64615	9,66021	9,67399	9,68749	9,70072	9,71368	9,72639	9,73885
9	9,64638	9,66045	9,67422	9,68771	9,70094	9,71390	9,72660	9,73905
10	9,64662	9,66068	9,67445	9,68794	9,70115	9,71411	9,72681	9,73926
11	9,64686	9,66091	9,67467	9,68816	9,70137	9,71432	9,72702	9,73946
12	9,64709	9,66114	9,67490	9,68838	9,70159	9,71454	9,72723	9,73967
13	9,64733	9,66137	9,67513	9,68860	9,70181	9,71475	9,72744	9,73987
14	9,64757	9,66161	9,67536	9,68883	9,70203	9,71496	9,72765	9,74008
15	9,64780	9,66184	9,67558	9,68905	9,70224	9,71518	9,72785	9,74028
16	9,64804	9,66207	9,67581	9,68927	9,70246	9,71539	9,72806	9,74049
17	9,64828	9,66230	9,67604	9,68949	9,70268	9,71560	9,72827	9,74070
18	9,64851	9,66253	9,67626	9,68971	9,70290	9,71582	9,72848	9,74090
19	9,64875	9,66276	9,67649	9,68994	9,70311	9,71603	9,72869	9,74111
20	9,64898	9,66299	9,67672	9,69016	9,70333	9,71624	9,72890	9,74131
21	9,64922	9,66322	9,67694	9,69038	9,70355	9,71646	9,72911	9,74151
22	9,64946	9,66346	9,67717	9,69060	9,70377	9,71667	9,72932	9,74172
23	9,64969	9,66369	9,67739	9,69082	9,70398	9,71688	9,72953	9,74192
24	9,64993	9,66392	9,67762	9,69104	9,70420	9,71709	9,72973	9,74213
25	9,65016	9,66415	9,67785	9,69127	9,70442	9,71731	9,72994	9,74233
26	9,65040	9,66438	9,67807	9,69149	9,70463	9,71752	9,73015	9,74254
27	9,65063	9,66461	9,67830	9,69171	9,70485	9,71773	9,73036	9,74274
28	9,65087	9,66484	9,67852	9,69193	9,70507	9,71795	9,73057	9,74295
29	9,65110	9,66507	9,67875	9,69215	9,70528	9,71816	9,73078	9,74315
30	9,65134	9,66530	9,67897	9,69237	9,70550	9,71837	9,73099	9,74335
31	9,65157	9,66553	9,67920	9,69259	9,70572	9,71858	9,73119	9,74356
32	9,65181	9,66576	9,67943	9,69281	9,70593	9,71879	9,73140	9,74376
33	9,65204	9,66599	9,67965	9,69304	9,70615	9,71901	9,73161	9,74397
34	9,65228	9,66622	9,67988	9,69326	9,70637	9,71922	9,73182	9,74417
35	9,65251	9,66645	9,68010	9,69348	9,70658	9,71943	9,73203	9,74437
36	9,65275	9,66668	9,68033	9,69370	9,70680	9,71964	9,73223	9,74458
37	9,65298	9,66691	9,68055	9,69392	9,70702	9,71985	9,73244	9,74478
38	9,65322	9,66714	9,68078	9,69414	9,70723	9,72007	9,73265	9,74499
39	9,65345	9,66737	9,68100	9,69436	9,70745	9,72028	9,73286	9,74519
40	9,65369	9,66760	9,68123	9,69458	9,70766	9,72049	9,73306	9,74539
41	9,65392	9,66783	9,68145	9,69480	9,70788	9,72070	9,73327	9,74560
42	9,65415	9,66806	9,68168	9,69502	9,70810	9,72091	9,73348	9,74580
43	9,65439	9,66829	9,68190	9,69524	9,70831	9,72112	9,73369	9,74600
44	9,65462	9,66852	9,68213	9,69546	9,70853	9,72134	9,73389	9,74621
45	9,65486	9,66875	9,68235	9,69568	9,70874	9,72155	9,73410	9,74641
46	9,65509	9,66897	9,68257	9,69590	9,70896	9,72176	9,73431	9,74661
47	9,65532	9,66920	9,68280	9,69612	9,70917	9,72197	9,73451	9,74682
48	9,65556	9,66943	9,68302	9,69634	9,70939	9,72218	9,73472	9,74702
49	9,65579	9,66966	9,68325	9,69656	9,70960	9,72239	9,73493	9,74722
50	9,65603	9,66989	9,68347	9,69678	9,70982	9,72260	9,73514	9,74742
51	9,65626	9,67012	9,68369	9,69700	9,71003	9,72281	9,73534	9,74763
52	9,65649	9,67035	9,68392	9,69722	9,71025	9,72302	9,73555	9,74783
53	9,65673	9,67058	9,68414	9,69744	9,71046	9,72324	9,73576	9,74803
54	9,65696	9,67080	9,68437	9,69766	9,71068	9,72345	9,73596	9,74824
55	9,65719	9,67103	9,68459	9,69788	9,71089	9,72366	9,73617	9,74844
56	9,65742	9,67126	9,68481	9,69809	9,71111	9,72387	9,73638	9,74864
57	9,65766	9,67149	9,68504	9,69831	9,71132	9,72408	9,73658	9,74884
58	9,65789	9,67172	9,68526	9,69853	9,71154	9,72429	9,73679	9,74904
59	9,65812	9,67194	9,68548	9,69875	9,71175	9,72450	9,73699	9,74925
60	9,65836	9,67217	9,68571	9,69897	9,71197	9,72471	9,73720	9,74945

	64	65	66	67	68	69	70	71
ARC ↓	DEGREES →	Log versine				(L sinus versus)	64° to 71°	
0	9,74945	9,76146	9,77325	9,78481	9,79615	9,80729	9,81821	9,82894
1	9,74965	9,76166	9,77344	9,78500	9,79634	9,80747	9,81839	9,82912
2	9,74985	9,76186	9,77364	9,78519	9,79653	9,80765	9,81857	9,82929
3	9,75006	9,76206	9,77383	9,78538	9,79671	9,80784	9,81875	9,82947
4	9,75026	9,76226	9,77403	9,78557	9,79690	9,80802	9,81893	9,82965
5	9,75046	9,76245	9,77422	9,78576	9,79709	9,80820	9,81911	9,82982
6	9,75066	9,76265	9,77441	9,78595	9,79728	9,80839	9,81929	9,83000
7	9,75086	9,76285	9,77461	9,78614	9,79746	9,80857	9,81947	9,83018
8	9,75106	9,76305	9,77480	9,78633	9,79765	9,80875	9,81965	9,83035
9	9,75127	9,76325	9,77500	9,78652	9,79784	9,80894	9,81983	9,83053
10	9,75147	9,76344	9,77519	9,78671	9,79802	9,80912	9,82001	9,83071
11	9,75167	9,76364	9,77538	9,78690	9,79821	9,80930	9,82019	9,83088
12	9,75187	9,76384	9,77558	9,78710	9,79840	9,80949	9,82037	9,83106
13	9,75207	9,76404	9,77577	9,78729	9,79858	9,80967	9,82055	9,83124
14	9,75227	9,76423	9,77596	9,78748	9,79877	9,80985	9,82073	9,83141
15	9,75247	9,76443	9,77616	9,78767	9,79896	9,81004	9,82091	9,83159
16	9,75268	9,76463	9,77635	9,78786	9,79914	9,81022	9,82109	9,83176
17	9,75288	9,76482	9,77655	9,78805	9,79933	9,81040	9,82127	9,83194
18	9,75308	9,76502	9,77674	9,78823	9,79952	9,81059	9,82145	9,83212
19	9,75328	9,76522	9,77693	9,78842	9,79970	9,81077	9,82163	9,83229
20	9,75348	9,76542	9,77713	9,78861	9,79989	9,81095	9,82181	9,83247
21	9,75368	9,76561	9,77732	9,78880	9,80007	9,81113	9,82199	9,83265
22	9,75388	9,76581	9,77751	9,78899	9,80026	9,81132	9,82217	9,83282
23	9,75408	9,76601	9,77771	9,78918	9,80045	9,81150	9,82235	9,83300
24	9,75428	9,76620	9,77790	9,78937	9,80063	9,81168	9,82253	9,83317
25	9,75448	9,76640	9,77809	9,78956	9,80082	9,81186	9,82271	9,83335
26	9,75468	9,76660	9,77828	9,78975	9,80100	9,81205	9,82288	9,83352
27	9,75488	9,76679	9,77848	9,78994	9,80119	9,81223	9,82306	9,83370
28	9,75508	9,76699	9,77867	9,79013	9,80137	9,81241	9,82324	9,83388
29	9,75529	9,76719	9,77886	9,79032	9,80156	9,81259	9,82342	9,83405
30	9,75549	9,76738	9,77906	9,79051	9,80175	9,81277	9,82360	9,83423
31	9,75569	9,76758	9,77925	9,79070	9,80193	9,81296	9,82378	9,83440
32	9,75589	9,76778	9,77944	9,79089	9,80212	9,81314	9,82396	9,83458
33	9,75609	9,76797	9,77963	9,79107	9,80230	9,81332	9,82414	9,83475
34	9,75629	9,76817	9,77983	9,79126	9,80249	9,81350	9,82431	9,83493
35	9,75649	9,76836	9,78002	9,79145	9,80267	9,81368	9,82449	9,83510
36	9,75669	9,76856	9,78021	9,79164	9,80286	9,81387	9,82467	9,83528
37	9,75689	9,76876	9,78040	9,79183	9,80304	9,81405	9,82485	9,83545
38	9,75708	9,76895	9,78060	9,79202	9,80323	9,81423	9,82503	9,83563
39	9,75728	9,76915	9,78079	9,79221	9,80341	9,81441	9,82521	9,83580
40	9,75748	9,76934	9,78098	9,79240	9,80360	9,81459	9,82538	9,83598
41	9,75768	9,76954	9,78117	9,79258	9,80378	9,81477	9,82556	9,83615
42	9,75788	9,76974	9,78136	9,79277	9,80397	9,81496	9,82574	9,83633
43	9,75808	9,76993	9,78156	9,79296	9,80415	9,81514	9,82592	9,83650
44	9,75828	9,77013	9,78175	9,79315	9,80434	9,81532	9,82610	9,83668
45	9,75848	9,77032	9,78194	9,79334	9,80452	9,81550	9,82628	9,83685
46	9,75868	9,77052	9,78213	9,79353	9,80471	9,81568	9,82645	9,83703
47	9,75888	9,77071	9,78232	9,79371	9,80489	9,81586	9,82663	9,83720
48	9,75908	9,77091	9,78251	9,79390	9,80508	9,81604	9,82681	9,83738
49	9,75928	9,77110	9,78271	9,79409	9,80526	9,81622	9,82699	9,83755
50	9,75948	9,77130	9,78290	9,79428	9,80545	9,81641	9,82716	9,83773
51	9,75968	9,77149	9,78309	9,79447	9,80563	9,81659	9,82734	9,83790
52	9,75987	9,77169	9,78328	9,79465	9,80581	9,81677	9,82752	9,83807
53	9,76007	9,77188	9,78347	9,79484	9,80600	9,81695	9,82770	9,83825
54	9,76027	9,77208	9,78366	9,79503	9,80618	9,81713	9,82787	9,83842
55	9,76047	9,77227	9,78385	9,79522	9,80637	9,81731	9,82805	9,83860
56	9,76067	9,77247	9,78405	9,79540	9,80655	9,81749	9,82823	9,83877
57	9,76087	9,77266	9,78424	9,79559	9,80673	9,81767	9,82841	9,83895
58	9,76107	9,77286	9,78443	9,79578	9,80692	9,81785	9,82858	9,83912
59	9,76126	9,77305	9,78462	9,79597	9,80710	9,81803	9,82876	9,83929
60	9,76146	9,77325	9,78481	9,79615	9,80729	9,81821	9,82894	9,83947

	72	73	74	75	76	77	78	79
ARC ↓	DEGREES →	Log versine				(L sinus versus)	72° to 79°	
0	9,83947	9,84981	9,85996	9,86992	9,87971	9,88933	9,89877	9,90805
1	9,83964	9,84998	9,86012	9,87009	9,87988	9,88949	9,89893	9,90820
2	9,83982	9,85015	9,86029	9,87025	9,88004	9,88965	9,89909	9,90836
3	9,83999	9,85032	9,86046	9,87042	9,88020	9,88981	9,89924	9,90851
4	9,84016	9,85049	9,86063	9,87058	9,88036	9,88996	9,89940	9,90866
5	9,84034	9,85066	9,86079	9,87075	9,88052	9,89012	9,89955	9,90882
6	9,84051	9,85083	9,86096	9,87091	9,88068	9,89028	9,89971	9,90897
7	9,84068	9,85100	9,86113	9,87108	9,88084	9,89044	9,89986	9,90912
8	9,84086	9,85117	9,86130	9,87124	9,88101	9,89060	9,90002	9,90928
9	9,84103	9,85134	9,86146	9,87140	9,88117	9,89076	9,90018	9,90943
10	9,84120	9,85151	9,86163	9,87157	9,88133	9,89091	9,90033	9,90958
11	9,84138	9,85168	9,86180	9,87173	9,88149	9,89107	9,90049	9,90973
12	9,84155	9,85185	9,86196	9,87190	9,88165	9,89123	9,90064	9,90989
13	9,84172	9,85202	9,86213	9,87206	9,88181	9,89139	9,90080	9,91004
14	9,84190	9,85219	9,86230	9,87222	9,88197	9,89155	9,90095	9,91019
15	9,84207	9,85236	9,86247	9,87239	9,88213	9,89171	9,90111	9,91034
16	9,84224	9,85253	9,86263	9,87255	9,88229	9,89186	9,90126	9,91050
17	9,84242	9,85270	9,86280	9,87272	9,88246	9,89202	9,90142	9,91065
18	9,84259	9,85287	9,86297	9,87288	9,88262	9,89218	9,90157	9,91080
19	9,84276	9,85304	9,86313	9,87304	9,88278	9,89234	9,90173	9,91095
20	9,84293	9,85321	9,86330	9,87321	9,88294	9,89250	9,90188	9,91111
21	9,84311	9,85338	9,86347	9,87337	9,88310	9,89265	9,90204	9,91126
22	9,84328	9,85355	9,86363	9,87353	9,88326	9,89281	9,90219	9,91141
23	9,84345	9,85372	9,86380	9,87370	9,88342	9,89297	9,90235	9,91156
24	9,84363	9,85389	9,86397	9,87386	9,88358	9,89313	9,90250	9,91172
25	9,84380	9,85406	9,86413	9,87402	9,88374	9,89328	9,90266	9,91187
26	9,84397	9,85423	9,86430	9,87419	9,88390	9,89344	9,90281	9,91202
27	9,84414	9,85440	9,86446	9,87435	9,88406	9,89360	9,90297	9,91217
28	9,84432	9,85457	9,86463	9,87451	9,88422	9,89376	9,90312	9,91232
29	9,84449	9,85473	9,86480	9,87468	9,88438	9,89392	9,90328	9,91248
30	9,84466	9,85490	9,86496	9,87484	9,88454	9,89407	9,90343	9,91263
31	9,84483	9,85507	9,86513	9,87500	9,88470	9,89423	9,90359	9,91278
32	9,84500	9,85524	9,86529	9,87517	9,88486	9,89439	9,90374	9,91293
33	9,84518	9,85541	9,86546	9,87533	9,88502	9,89454	9,90390	9,91308
34	9,84535	9,85558	9,86563	9,87549	9,88518	9,89470	9,90405	9,91324
35	9,84552	9,85575	9,86579	9,87566	9,88534	9,89486	9,90421	9,91339
36	9,84569	9,85592	9,86596	9,87582	9,88550	9,89502	9,90436	9,91354
37	9,84586	9,85609	9,86612	9,87598	9,88566	9,89517	9,90451	9,91369
38	9,84604	9,85626	9,86629	9,87614	9,88582	9,89533	9,90467	9,91384
39	9,84621	9,85642	9,86646	9,87631	9,88598	9,89549	9,90482	9,91399
40	9,84638	9,85659	9,86662	9,87647	9,88614	9,89564	9,90498	9,91414
41	9,84655	9,85676	9,86679	9,87663	9,88630	9,89580	9,90513	9,91430
42	9,84672	9,85693	9,86695	9,87680	9,88646	9,89596	9,90529	9,91445
43	9,84690	9,85710	9,86712	9,87696	9,88662	9,89611	9,90544	9,91460
44	9,84707	9,85727	9,86728	9,87712	9,88678	9,89627	9,90559	9,91475
45	9,84724	9,85744	9,86745	9,87728	9,88694	9,89643	9,90575	9,91490
46	9,84741	9,85760	9,86761	9,87745	9,88710	9,89658	9,90590	9,91505
47	9,84758	9,85777	9,86778	9,87761	9,88726	9,89674	9,90605	9,91520
48	9,84775	9,85794	9,86795	9,87777	9,88742	9,89690	9,90621	9,91536
49	9,84792	9,85811	9,86811	9,87793	9,88758	9,89705	9,90636	9,91551
50	9,84810	9,85828	9,86828	9,87809	9,88774	9,89721	9,90652	9,91566
51	9,84827	9,85845	9,86844	9,87826	9,88790	9,89737	9,90667	9,91581
52	9,84844	9,85861	9,86861	9,87842	9,88806	9,89752	9,90682	9,91596
53	9,84861	9,85878	9,86877	9,87858	9,88822	9,89768	9,90698	9,91611
54	9,84878	9,85895	9,86894	9,87874	9,88838	9,89784	9,90713	9,91626
55	9,84895	9,85912	9,86910	9,87890	9,88853	9,89799	9,90728	9,91641
56	9,84912	9,85929	9,86927	9,87907	9,88869	9,89815	9,90744	9,91656
57	9,84929	9,85945	9,86943	9,87923	9,88885	9,89831	9,90759	9,91671
58	9,84946	9,85962	9,86959	9,87939	9,88901	9,89846	9,90774	9,91686
59	9,84963	9,85979	9,86976	9,87955	9,88917	9,89862	9,90790	9,91701
60	9,84981	9,85996	9,86992	9,87971	9,88933	9,89877	9,90805	9,91716

	80	81	82	83	84	85	86	87
ARC ↓	DEGREES →	Log versine				(L sinus versus)	80° to 87°	
0	9,91716	9,92612	9,93492	9,94356	9,95205	9,96040	9,96860	9,97665
1	9,91732	9,92627	9,93506	9,94370	9,95219	9,96053	9,96873	9,97679
2	9,91747	9,92641	9,93521	9,94384	9,95233	9,96067	9,96887	9,97692
3	9,91762	9,92656	9,93535	9,94399	9,95247	9,96081	9,96900	9,97705
4	9,91777	9,92671	9,93550	9,94413	9,95261	9,96095	9,96914	9,97719
5	9,91792	9,92686	9,93564	9,94427	9,95275	9,96109	9,96927	9,97732
6	9,91807	9,92701	9,93579	9,94442	9,95289	9,96122	9,96941	9,97745
7	9,91822	9,92715	9,93593	9,94456	9,95303	9,96136	9,96954	9,97759
8	9,91837	9,92730	9,93608	9,94470	9,95317	9,96150	9,96968	9,97772
9	9,91852	9,92745	9,93622	9,94484	9,95331	9,96164	9,96981	9,97785
10	9,91867	9,92760	9,93637	9,94498	9,95345	9,96177	9,96995	9,97798
11	9,91882	9,92774	9,93651	9,94513	9,95359	9,96191	9,97008	9,97812
12	9,91897	9,92789	9,93666	9,94527	9,95373	9,96205	9,97022	9,97825
13	9,91912	9,92804	9,93680	9,94541	9,95387	9,96219	9,97035	9,97838
14	9,91927	9,92819	9,93695	9,94555	9,95401	9,96232	9,97049	9,97851
15	9,91942	9,92833	9,93709	9,94570	9,95415	9,96246	9,97062	9,97865
16	9,91957	9,92848	9,93724	9,94584	9,95429	9,96260	9,97076	9,97878
17	9,91972	9,92863	9,93738	9,94598	9,95443	9,96273	9,97089	9,97891
18	9,91987	9,92877	9,93752	9,94612	9,95457	9,96287	9,97103	9,97904
19	9,92002	9,92892	9,93767	9,94626	9,95471	9,96301	9,97116	9,97918
20	9,92017	9,92907	9,93781	9,94641	9,95485	9,96315	9,97130	9,97931
21	9,92032	9,92922	9,93796	9,94655	9,95499	9,96328	9,97143	9,97944
22	9,92047	9,92936	9,93810	9,94669	9,95513	9,96342	9,97157	9,97957
23	9,92062	9,92951	9,93825	9,94683	9,95527	9,96356	9,97170	9,97971
24	9,92077	9,92966	9,93839	9,94697	9,95541	9,96369	9,97184	9,97984
25	9,92092	9,92980	9,93854	9,94712	9,95555	9,96383	9,97197	9,97997
26	9,92106	9,92995	9,93868	9,94726	9,95569	9,96397	9,97211	9,98010
27	9,92121	9,93010	9,93882	9,94740	9,95583	9,96410	9,97224	9,98023
28	9,92136	9,93024	9,93897	9,94754	9,95596	9,96424	9,97237	9,98037
29	9,92151	9,93039	9,93911	9,94768	9,95610	9,96438	9,97251	9,98050
30	9,92166	9,93054	9,93926	9,94782	9,95624	9,96451	9,97264	9,98063
31	9,92181	9,93068	9,93940	9,94797	9,95638	9,96465	9,97278	9,98076
32	9,92196	9,93083	9,93954	9,94811	9,95652	9,96479	9,97291	9,98089
33	9,92211	9,93098	9,93969	9,94825	9,95666	9,96492	9,97305	9,98103
34	9,92226	9,93112	9,93983	9,94839	9,95680	9,96506	9,97318	9,98116
35	9,92241	9,93127	9,93998	9,94853	9,95694	9,96520	9,97331	9,98129
36	9,92256	9,93142	9,94012	9,94867	9,95708	9,96533	9,97345	9,98142
37	9,92271	9,93156	9,94026	9,94881	9,95722	9,96547	9,97358	9,98155
38	9,92285	9,93171	9,94041	9,94896	9,95735	9,96561	9,97372	9,98169
39	9,92300	9,93185	9,94055	9,94910	9,95749	9,96574	9,97385	9,98182
40	9,92315	9,93200	9,94069	9,94924	9,95763	9,96588	9,97398	9,98195
41	9,92330	9,93215	9,94084	9,94938	9,95777	9,96602	9,97412	9,98208
42	9,92345	9,93229	9,94098	9,94952	9,95791	9,96615	9,97425	9,98221
43	9,92360	9,93244	9,94113	9,94966	9,95805	9,96629	9,97439	9,98234
44	9,92375	9,93259	9,94127	9,94980	9,95819	9,96642	9,97452	9,98247
45	9,92390	9,93273	9,94141	9,94994	9,95832	9,96656	9,97465	9,98261
46	9,92404	9,93288	9,94156	9,95008	9,95846	9,96670	9,97479	9,98274
47	9,92419	9,93302	9,94170	9,95022	9,95860	9,96683	9,97492	9,98287
48	9,92434	9,93317	9,94184	9,95037	9,95874	9,96697	9,97505	9,98300
49	9,92449	9,93331	9,94199	9,95051	9,95888	9,96710	9,97519	9,98313
50	9,92464	9,93346	9,94213	9,95065	9,95902	9,96724	9,97532	9,98326
51	9,92479	9,93361	9,94227	9,95079	9,95915	9,96738	9,97545	9,98339
52	9,92493	9,93375	9,94242	9,95093	9,95929	9,96751	9,97559	9,98352
53	9,92508	9,93390	9,94256	9,95107	9,95943	9,96765	9,97572	9,98366
54	9,92523	9,93404	9,94270	9,95121	9,95957	9,96778	9,97585	9,98379
55	9,92538	9,93419	9,94284	9,95135	9,95971	9,96792	9,97599	9,98392
56	9,92553	9,93433	9,94299	9,95149	9,95984	9,96805	9,97612	9,98405
57	9,92567	9,93448	9,94313	9,95163	9,95998	9,96819	9,97625	9,98418
58	9,92582	9,93463	9,94327	9,95177	9,96012	9,96833	9,97639	9,98431
59	9,92597	9,93477	9,94342	9,95191	9,96026	9,96846	9,97652	9,98444
60	9,92612	9,93492	9,94356	9,95205	9,96040	9,96860	9,97665	9,98457

	88	89	90	91	92	93	94	95
ARC ↓	DEGREES →	Log versine				(L sinus versus)	88° to 95°	
0	9,98457	9,99235	10,00000	10,00751	10,01490	10,02215	10,02928	10,03629
1	9,98470	9,99248	10,00013	10,00764	10,01502	10,02227	10,02940	10,03641
2	9,98483	9,99261	10,00025	10,00776	10,01514	10,02239	10,02952	10,03652
3	9,98496	9,99274	10,00038	10,00789	10,01526	10,02251	10,02964	10,03664
4	9,98510	9,99287	10,00051	10,00801	10,01539	10,02263	10,02976	10,03675
5	9,98523	9,99300	10,00063	10,00813	10,01551	10,02275	10,02987	10,03687
6	9,98536	9,99312	10,00076	10,00826	10,01563	10,02287	10,02999	10,03699
7	9,98549	9,99325	10,00088	10,00838	10,01575	10,02299	10,03011	10,03710
8	9,98562	9,99338	10,00101	10,00851	10,01587	10,02311	10,03023	10,03722
9	9,98575	9,99351	10,00114	10,00863	10,01599	10,02323	10,03034	10,03733
10	9,98588	9,99364	10,00126	10,00875	10,01612	10,02335	10,03046	10,03745
11	9,98601	9,99377	10,00139	10,00888	10,01624	10,02347	10,03058	10,03756
12	9,98614	9,99389	10,00151	10,00900	10,01636	10,02359	10,03070	10,03768
13	9,98627	9,99402	10,00164	10,00912	10,01648	10,02371	10,03081	10,03779
14	9,98640	9,99415	10,00177	10,00925	10,01660	10,02383	10,03093	10,03791
15	9,98653	9,99428	10,00189	10,00937	10,01672	10,02395	10,03105	10,03802
16	9,98666	9,99441	10,00202	10,00950	10,01685	10,02407	10,03117	10,03814
17	9,98679	9,99453	10,00214	10,00962	10,01697	10,02419	10,03128	10,03825
18	9,98692	9,99466	10,00227	10,00974	10,01709	10,02431	10,03140	10,03837
19	9,98705	9,99479	10,00239	10,00987	10,01721	10,02443	10,03152	10,03849
20	9,98718	9,99492	10,00252	10,00999	10,01733	10,02455	10,03163	10,03860
21	9,98731	9,99505	10,00264	10,01011	10,01745	10,02466	10,03175	10,03872
22	9,98744	9,99517	10,00277	10,01024	10,01757	10,02478	10,03187	10,03883
23	9,98757	9,99530	10,00290	10,01036	10,01769	10,02490	10,03199	10,03895
24	9,98770	9,99543	10,00302	10,01048	10,01782	10,02502	10,03210	10,03906
25	9,98783	9,99556	10,00315	10,01061	10,01794	10,02514	10,03222	10,03918
26	9,98796	9,99568	10,00327	10,01073	10,01806	10,02526	10,03234	10,03929
27	9,98809	9,99581	10,00340	10,01085	10,01818	10,02538	10,03245	10,03941
28	9,98822	9,99594	10,00352	10,01098	10,01830	10,02550	10,03257	10,03952
29	9,98835	9,99607	10,00365	10,01110	10,01842	10,02562	10,03269	10,03963
30	9,98848	9,99619	10,00377	10,01122	10,01854	10,02574	10,03280	10,03975
31	9,98861	9,99632	10,00390	10,01135	10,01866	10,02585	10,03292	10,03986
32	9,98874	9,99645	10,00402	10,01147	10,01878	10,02597	10,03304	10,03998
33	9,98887	9,99658	10,00415	10,01159	10,01890	10,02609	10,03315	10,04009
34	9,98900	9,99670	10,00427	10,01171	10,01903	10,02621	10,03327	10,04021
35	9,98913	9,99683	10,00440	10,01184	10,01915	10,02633	10,03339	10,04032
36	9,98926	9,99696	10,00452	10,01196	10,01927	10,02645	10,03350	10,04044
37	9,98939	9,99708	10,00465	10,01208	10,01939	10,02657	10,03362	10,04055
38	9,98952	9,99721	10,00477	10,01221	10,01951	10,02668	10,03374	10,04067
39	9,98965	9,99734	10,00490	10,01233	10,01963	10,02680	10,03385	10,04078
40	9,98977	9,99747	10,00502	10,01245	10,01975	10,02692	10,03397	10,04090
41	9,98990	9,99759	10,00515	10,01257	10,01987	10,02704	10,03409	10,04101
42	9,99003	9,99772	10,00527	10,01270	10,01999	10,02716	10,03420	10,04112
43	9,99016	9,99785	10,00540	10,01282	10,02011	10,02728	10,03432	10,04124
44	9,99029	9,99797	10,00552	10,01294	10,02023	10,02740	10,03444	10,04135
45	9,99042	9,99810	10,00565	10,01306	10,02035	10,02751	10,03455	10,04147
46	9,99055	9,99823	10,00577	10,01319	10,02047	10,02763	10,03467	10,04158
47	9,99068	9,99835	10,00590	10,01331	10,02059	10,02775	10,03478	10,04170
48	9,99081	9,99848	10,00602	10,01343	10,02071	10,02787	10,03490	10,04181
49	9,99094	9,99861	10,00615	10,01355	10,02083	10,02799	10,03502	10,04192
50	9,99107	9,99873	10,00627	10,01368	10,02095	10,02811	10,03513	10,04204
51	9,99120	9,99886	10,00640	10,01380	10,02107	10,02822	10,03525	10,04215
52	9,99132	9,99899	10,00652	10,01392	10,02119	10,02834	10,03536	10,04227
53	9,99145	9,99911	10,00664	10,01404	10,02131	10,02846	10,03548	10,04238
54	9,99158	9,99924	10,00677	10,01417	10,02143	10,02858	10,03560	10,04249
55	9,99171	9,99937	10,00689	10,01429	10,02155	10,02870	10,03571	10,04261
56	9,99184	9,99949	10,00702	10,01441	10,02167	10,02881	10,03583	10,04272
57	9,99197	9,99962	10,00714	10,01453	10,02179	10,02893	10,03594	10,04284
58	9,99210	9,99975	10,00727	10,01465	10,02191	10,02905	10,03606	10,04295
59	9,99223	9,99987	10,00739	10,01478	10,02203	10,02917	10,03618	10,04306
60	9,99235	10,00000	10,00751	10,01490	10,02215	10,02928	10,03629	10,04318

	96	97	98	99	100	101	102	103
ARC ↓	DEGREES →	Log versine				(L sinus versus)	96° to 103°	
0	10,04318	10,04994	10,05659	10,06312	10,06954	10,07584	10,08204	10,08812
1	10,04329	10,05005	10,05670	10,06323	10,06964	10,07595	10,08214	10,08822
2	10,04340	10,05017	10,05681	10,06334	10,06975	10,07605	10,08224	10,08832
3	10,04352	10,05028	10,05692	10,06344	10,06986	10,07615	10,08234	10,08842
4	10,04363	10,05039	10,05703	10,06355	10,06996	10,07626	10,08244	10,08852
5	10,04375	10,05050	10,05714	10,06366	10,07007	10,07636	10,08255	10,08862
6	10,04386	10,05061	10,05725	10,06377	10,07017	10,07647	10,08265	10,08872
7	10,04397	10,05072	10,05736	10,06388	10,07028	10,07657	10,08275	10,08882
8	10,04409	10,05084	10,05747	10,06398	10,07038	10,07667	10,08285	10,08892
9	10,04420	10,05095	10,05758	10,06409	10,07049	10,07678	10,08295	10,08902
10	10,04431	10,05106	10,05769	10,06420	10,07060	10,07688	10,08306	10,08912
11	10,04443	10,05117	10,05780	10,06431	10,07070	10,07699	10,08316	10,08922
12	10,04454	10,05128	10,05791	10,06441	10,07081	10,07709	10,08326	10,08932
13	10,04465	10,05139	10,05801	10,06452	10,07091	10,07719	10,08336	10,08942
14	10,04477	10,05150	10,05812	10,06463	10,07102	10,07730	10,08346	10,08952
15	10,04488	10,05162	10,05823	10,06474	10,07112	10,07740	10,08357	10,08962
16	10,04499	10,05173	10,05834	10,06484	10,07123	10,07750	10,08367	10,08972
17	10,04511	10,05184	10,05845	10,06495	10,07134	10,07761	10,08377	10,08982
18	10,04522	10,05195	10,05856	10,06506	10,07144	10,07771	10,08387	10,08992
19	10,04533	10,05206	10,05867	10,06517	10,07155	10,07782	10,08397	10,09002
20	10,04545	10,05217	10,05878	10,06527	10,07165	10,07792	10,08408	10,09012
21	10,04556	10,05228	10,05889	10,06538	10,07176	10,07802	10,08418	10,09022
22	10,04567	10,05239	10,05900	10,06549	10,07186	10,07813	10,08428	10,09032
23	10,04578	10,05250	10,05911	10,06559	10,07197	10,07823	10,08438	10,09042
24	10,04590	10,05262	10,05922	10,06570	10,07207	10,07833	10,08448	10,09052
25	10,04601	10,05273	10,05933	10,06581	10,07218	10,07844	10,08458	10,09062
26	10,04612	10,05284	10,05943	10,06592	10,07228	10,07854	10,08468	10,09072
27	10,04624	10,05295	10,05954	10,06602	10,07239	10,07864	10,08479	10,09082
28	10,04635	10,05306	10,05965	10,06613	10,07249	10,07875	10,08489	10,09092
29	10,04646	10,05317	10,05976	10,06624	10,07260	10,07885	10,08499	10,09102
30	10,04657	10,05328	10,05987	10,06634	10,07270	10,07895	10,08509	10,09112
31	10,04669	10,05339	10,05998	10,06645	10,07281	10,07906	10,08519	10,09122
32	10,04680	10,05350	10,06009	10,06656	10,07291	10,07916	10,08529	10,09132
33	10,04691	10,05361	10,06020	10,06666	10,07302	10,07926	10,08539	10,09142
34	10,04703	10,05372	10,06030	10,06677	10,07312	10,07937	10,08550	10,09152
35	10,04714	10,05383	10,06041	10,06688	10,07323	10,07947	10,08560	10,09162
36	10,04725	10,05394	10,06052	10,06698	10,07333	10,07957	10,08570	10,09172
37	10,04736	10,05406	10,06063	10,06709	10,07344	10,07967	10,08580	10,09182
38	10,04748	10,05417	10,06074	10,06720	10,07354	10,07978	10,08590	10,09192
39	10,04759	10,05428	10,06085	10,06730	10,07365	10,07988	10,08600	10,09202
40	10,04770	10,05439	10,06096	10,06741	10,07375	10,07998	10,08610	10,09211
41	10,04781	10,05450	10,06107	10,06752	10,07386	10,08009	10,08620	10,09221
42	10,04793	10,05461	10,06117	10,06762	10,07396	10,08019	10,08631	10,09231
43	10,04804	10,05472	10,06128	10,06773	10,07407	10,08029	10,08641	10,09241
44	10,04815	10,05483	10,06139	10,06784	10,07417	10,08039	10,08651	10,09251
45	10,04826	10,05494	10,06150	10,06794	10,07428	10,08050	10,08661	10,09261
46	10,04837	10,05505	10,06161	10,06805	10,07438	10,08060	10,08671	10,09271
47	10,04849	10,05516	10,06172	10,06816	10,07449	10,08070	10,08681	10,09281
48	10,04860	10,05527	10,06182	10,06826	10,07459	10,08081	10,08691	10,09291
49	10,04871	10,05538	10,06193	10,06837	10,07469	10,08091	10,08701	10,09301
50	10,04882	10,05549	10,06204	10,06848	10,07480	10,08101	10,08711	10,09311
51	10,04894	10,05560	10,06215	10,06858	10,07490	10,08111	10,08721	10,09320
52	10,04905	10,05571	10,06226	10,06869	10,07501	10,08122	10,08731	10,09330
53	10,04916	10,05582	10,06236	10,06880	10,07511	10,08132	10,08741	10,09340
54	10,04927	10,05593	10,06247	10,06890	10,07522	10,08142	10,08752	10,09350
55	10,04938	10,05604	10,06258	10,06901	10,07532	10,08152	10,08762	10,09360
56	10,04949	10,05615	10,06269	10,06911	10,07543	10,08163	10,08772	10,09370
57	10,04961	10,05626	10,06280	10,06922	10,07553	10,08173	10,08782	10,09380
58	10,04972	10,05637	10,06291	10,06933	10,07563	10,08183	10,08792	10,09390
59	10,04983	10,05648	10,06301	10,06943	10,07574	10,08193	10,08802	10,09400
60	10,04994	10,05659	10,06312	10,06954	10,07584	10,08204	10,08812	10,09409

	104	105	106	107	108	109	110	111	
ARC ↓	DEGREES →	Log versine					(L sinus versus)	104° to 111°	
0	10,09409	10,09996	10,10573	10,11139	10,11695	10,12240	10,12776	10,13302	
1	10,09419	10,10006	10,10582	10,11148	10,11704	10,12249	10,12785	10,13310	
2	10,09429	10,10016	10,10592	10,11157	10,11713	10,12258	10,12794	10,13319	
3	10,09439	10,10025	10,10601	10,11167	10,11722	10,12267	10,12802	10,13328	
4	10,09449	10,10035	10,10611	10,11176	10,11731	10,12276	10,12811	10,13336	
5	10,09459	10,10045	10,10620	10,11185	10,11740	10,12285	10,12820	10,13345	
6	10,09469	10,10054	10,10630	10,11195	10,11750	10,12294	10,12829	10,13354	
7	10,09478	10,10064	10,10639	10,11204	10,11759	10,12303	10,12838	10,13362	
8	10,09488	10,10074	10,10649	10,11213	10,11768	10,12312	10,12847	10,13371	
9	10,09498	10,10083	10,10658	10,11223	10,11777	10,12321	10,12855	10,13380	
10	10,09508	10,10093	10,10668	10,11232	10,11786	10,12330	10,12864	10,13388	
11	10,09518	10,10103	10,10677	10,11241	10,11795	10,12339	10,12873	10,13397	
12	10,09528	10,10112	10,10687	10,11251	10,11804	10,12348	10,12882	10,13406	
13	10,09537	10,10122	10,10696	10,11260	10,11814	10,12357	10,12891	10,13414	
14	10,09547	10,10132	10,10706	10,11269	10,11823	10,12366	10,12899	10,13423	
15	10,09557	10,10141	10,10715	10,11279	10,11832	10,12375	10,12908	10,13432	
16	10,09567	10,10151	10,10725	10,11288	10,11841	10,12384	10,12917	10,13440	
17	10,09577	10,10161	10,10734	10,11297	10,11850	10,12393	10,12926	10,13449	
18	10,09587	10,10170	10,10744	10,11307	10,11859	10,12402	10,12935	10,13458	
19	10,09596	10,10180	10,10753	10,11316	10,11868	10,12411	10,12943	10,13466	
20	10,09606	10,10190	10,10763	10,11325	10,11878	10,12420	10,12952	10,13475	
21	10,09616	10,10199	10,10772	10,11334	10,11887	10,12429	10,12961	10,13483	
22	10,09626	10,10209	10,10781	10,11344	10,11896	10,12438	10,12970	10,13492	
23	10,09636	10,10219	10,10791	10,11353	10,11905	10,12447	10,12979	10,13501	
24	10,09645	10,10228	10,10800	10,11362	10,11914	10,12456	10,12987	10,13509	
25	10,09655	10,10238	10,10810	10,11372	10,11923	10,12465	10,12996	10,13518	
26	10,09665	10,10247	10,10819	10,11381	10,11932	10,12474	10,13005	10,13527	
27	10,09675	10,10257	10,10829	10,11390	10,11941	10,12482	10,13014	10,13535	
28	10,09685	10,10267	10,10838	10,11399	10,11950	10,12491	10,13023	10,13544	
29	10,09694	10,10276	10,10848	10,11409	10,11960	10,12500	10,13031	10,13552	
30	10,09704	10,10286	10,10857	10,11418	10,11969	10,12509	10,13040	10,13561	
31	10,09714	10,10295	10,10866	10,11427	10,11978	10,12518	10,13049	10,13570	
32	10,09724	10,10305	10,10876	10,11436	10,11987	10,12527	10,13058	10,13578	
33	10,09734	10,10315	10,10885	10,11446	10,11996	10,12536	10,13066	10,13587	
34	10,09743	10,10324	10,10895	10,11455	10,12005	10,12545	10,13075	10,13595	
35	10,09753	10,10334	10,10904	10,11464	10,12014	10,12554	10,13084	10,13604	
36	10,09763	10,10343	10,10914	10,11473	10,12023	10,12563	10,13093	10,13613	
37	10,09773	10,10353	10,10923	10,11483	10,12032	10,12572	10,13101	10,13621	
38	10,09782	10,10363	10,10932	10,11492	10,12041	10,12581	10,13110	10,13630	
39	10,09792	10,10372	10,10942	10,11501	10,12050	10,12590	10,13119	10,13638	
40	10,09802	10,10382	10,10951	10,11510	10,12059	10,12598	10,13128	10,13647	
41	10,09812	10,10391	10,10961	10,11520	10,12068	10,12607	10,13136	10,13655	
42	10,09821	10,10401	10,10970	10,11529	10,12078	10,12616	10,13145	10,13664	
43	10,09831	10,10410	10,10979	10,11538	10,12087	10,12625	10,13154	10,13673	
44	10,09841	10,10420	10,10989	10,11547	10,12096	10,12634	10,13162	10,13681	
45	10,09851	10,10430	10,10998	10,11557	10,12105	10,12643	10,13171	10,13690	
46	10,09860	10,10439	10,11008	10,11566	10,12114	10,12652	10,13180	10,13698	
47	10,09870	10,10449	10,11017	10,11575	10,12123	10,12661	10,13189	10,13707	
48	10,09880	10,10458	10,11026	10,11584	10,12132	10,12670	10,13197	10,13715	
49	10,09890	10,10468	10,11036	10,11593	10,12141	10,12678	10,13206	10,13724	
50	10,09899	10,10477	10,11045	10,11603	10,12150	10,12687	10,13215	10,13732	
51	10,09909	10,10487	10,11054	10,11612	10,12159	10,12696	10,13223	10,13741	
52	10,09919	10,10496	10,11064	10,11621	10,12168	10,12705	10,13232	10,13750	
53	10,09928	10,10506	10,11073	10,11630	10,12177	10,12714	10,13241	10,13758	
54	10,09938	10,10516	10,11083	10,11639	10,12186	10,12723	10,13250	10,13767	
55	10,09948	10,10525	10,11092	10,11649	10,12195	10,12732	10,13258	10,13775	
56	10,09958	10,10535	10,11101	10,11658	10,12204	10,12740	10,13267	10,13784	
57	10,09967	10,10544	10,11111	10,11667	10,12213	10,12749	10,13276	10,13792	
58	10,09977	10,10554	10,11120	10,11676	10,12222	10,12758	10,13284	10,13801	
59	10,09987	10,10563	10,11129	10,11685	10,12231	10,12767	10,13293	10,13809	
60	10,09996	10,10573	10,11139	10,11695	10,12240	10,12776	10,13302	10,13818	

	112	113	114	115	116	117	118	119
ARC ↓	DEGREES →	Log versine				(L sinus versus)	112° to 119°	
0	10,13818	10,14324	10,14821	10,15309	10,15787	10,16256	10,16716	10,17167
1	10,13826	10,14333	10,14829	10,15317	10,15795	10,16264	10,16724	10,17175
2	10,13835	10,14341	10,14838	10,15325	10,15803	10,16272	10,16731	10,17182
3	10,13843	10,14349	10,14846	10,15333	10,15811	10,16279	10,16739	10,17189
4	10,13852	10,14358	10,14854	10,15341	10,15819	10,16287	10,16746	10,17197
5	10,13860	10,14366	10,14862	10,15349	10,15827	10,16295	10,16754	10,17204
6	10,13869	10,14374	10,14870	10,15357	10,15834	10,16303	10,16762	10,17212
7	10,13877	10,14383	10,14879	10,15365	10,15842	10,16310	10,16769	10,17219
8	10,13886	10,14391	10,14887	10,15373	10,15850	10,16318	10,16777	10,17227
9	10,13894	10,14399	10,14895	10,15381	10,15858	10,16326	10,16784	10,17234
10	10,13903	10,14408	10,14903	10,15389	10,15866	10,16333	10,16792	10,17241
11	10,13911	10,14416	10,14911	10,15397	10,15874	10,16341	10,16799	10,17249
12	10,13920	10,14424	10,14920	10,15405	10,15882	10,16349	10,16807	10,17256
13	10,13928	10,14433	10,14928	10,15413	10,15890	10,16357	10,16815	10,17264
14	10,13937	10,14441	10,14936	10,15421	10,15897	10,16364	10,16822	10,17271
15	10,13945	10,14449	10,14944	10,15429	10,15905	10,16372	10,16830	10,17278
16	10,13954	10,14458	10,14952	10,15437	10,15913	10,16380	10,16837	10,17286
17	10,13962	10,14466	10,14960	10,15445	10,15921	10,16387	10,16845	10,17293
18	10,13971	10,14474	10,14969	10,15453	10,15929	10,16395	10,16852	10,17301
19	10,13979	10,14483	10,14977	10,15461	10,15937	10,16403	10,16860	10,17308
20	10,13988	10,14491	10,14985	10,15469	10,15944	10,16410	10,16867	10,17315
21	10,13996	10,14499	10,14993	10,15477	10,15952	10,16418	10,16875	10,17323
22	10,14005	10,14508	10,15001	10,15485	10,15960	10,16426	10,16883	10,17330
23	10,14013	10,14516	10,15009	10,15493	10,15968	10,16434	10,16890	10,17338
24	10,14022	10,14524	10,15017	10,15501	10,15976	10,16441	10,16898	10,17345
25	10,14030	10,14533	10,15026	10,15509	10,15984	10,16449	10,16905	10,17352
26	10,14038	10,14541	10,15034	10,15517	10,15991	10,16457	10,16913	10,17360
27	10,14047	10,14549	10,15042	10,15525	10,15999	10,16464	10,16920	10,17367
28	10,14055	10,14557	10,15050	10,15533	10,16007	10,16472	10,16928	10,17374
29	10,14064	10,14566	10,15058	10,15541	10,16015	10,16480	10,16935	10,17382
30	10,14072	10,14574	10,15066	10,15549	10,16023	10,16487	10,16943	10,17389
31	10,14081	10,14582	10,15074	10,15557	10,16031	10,16495	10,16950	10,17397
32	10,14089	10,14591	10,15082	10,15565	10,16038	10,16503	10,16958	10,17404
33	10,14098	10,14599	10,15091	10,15573	10,16046	10,16510	10,16965	10,17411
34	10,14106	10,14607	10,15099	10,15581	10,16054	10,16518	10,16973	10,17419
35	10,14114	10,14615	10,15107	10,15589	10,16062	10,16526	10,16980	10,17426
36	10,14123	10,14624	10,15115	10,15597	10,16070	10,16533	10,16988	10,17433
37	10,14131	10,14632	10,15123	10,15605	10,16077	10,16541	10,16995	10,17441
38	10,14140	10,14640	10,15131	10,15613	10,16085	10,16549	10,17003	10,17448
39	10,14148	10,14648	10,15139	10,15621	10,16093	10,16556	10,17010	10,17455
40	10,14157	10,14657	10,15147	10,15629	10,16101	10,16564	10,17018	10,17463
41	10,14165	10,14665	10,15155	10,15637	10,16109	10,16571	10,17025	10,17470
42	10,14173	10,14673	10,15164	10,15645	10,16116	10,16579	10,17033	10,17477
43	10,14182	10,14681	10,15172	10,15653	10,16124	10,16587	10,17040	10,17485
44	10,14190	10,14690	10,15180	10,15660	10,16132	10,16594	10,17048	10,17492
45	10,14199	10,14698	10,15188	10,15668	10,16140	10,16602	10,17055	10,17499
46	10,14207	10,14706	10,15196	10,15676	10,16148	10,16610	10,17063	10,17507
47	10,14215	10,14714	10,15204	10,15684	10,16155	10,16617	10,17070	10,17514
48	10,14224	10,14723	10,15212	10,15692	10,16163	10,16625	10,17078	10,17521
49	10,14232	10,14731	10,15220	10,15700	10,16171	10,16632	10,17085	10,17529
50	10,14241	10,14739	10,15228	10,15708	10,16179	10,16640	10,17093	10,17536
51	10,14249	10,14747	10,15236	10,15716	10,16186	10,16648	10,17100	10,17543
52	10,14257	10,14756	10,15244	10,15724	10,16194	10,16655	10,17107	10,17551
53	10,14266	10,14764	10,15252	10,15732	10,16202	10,16663	10,17115	10,17558
54	10,14274	10,14772	10,15261	10,15740	10,16210	10,16671	10,17122	10,17565
55	10,14282	10,14780	10,15269	10,15748	10,16217	10,16678	10,17130	10,17573
56	10,14291	10,14788	10,15277	10,15755	10,16225	10,16686	10,17137	10,17580
57	10,14299	10,14797	10,15285	10,15763	10,16233	10,16693	10,17145	10,17587
58	10,14308	10,14805	10,15293	10,15771	10,16241	10,16701	10,17152	10,17595
59	10,14316	10,14813	10,15301	10,15779	10,16248	10,16709	10,17160	10,17602
60	10,14324	10,14821	10,15309	10,15787	10,16256	10,16716	10,17167	10,17609

	120	121	122	123	124	125	126	127
ARC ↓	DEGREES →	Log versine				(L sinus versus)	120° to 127°	
0	10,17609	10,18042	10,18467	10,18883	10,19290	10,19689	10,20079	10,20461
1	10,17616	10,18050	10,18474	10,18890	10,19297	10,19695	10,20086	10,20468
2	10,17624	10,18057	10,18481	10,18896	10,19303	10,19702	10,20092	10,20474
3	10,17631	10,18064	10,18488	10,18903	10,19310	10,19709	10,20098	10,20480
4	10,17638	10,18071	10,18495	10,18910	10,19317	10,19715	10,20105	10,20486
5	10,17646	10,18078	10,18502	10,18917	10,19324	10,19722	10,20111	10,20493
6	10,17653	10,18085	10,18509	10,18924	10,19330	10,19728	10,20118	10,20499
7	10,17660	10,18092	10,18516	10,18931	10,19337	10,19735	10,20124	10,20505
8	10,17667	10,18099	10,18523	10,18937	10,19344	10,19741	10,20131	10,20512
9	10,17675	10,18107	10,18530	10,18944	10,19350	10,19748	10,20137	10,20518
10	10,17682	10,18114	10,18537	10,18951	10,19357	10,19754	10,20143	10,20524
11	10,17689	10,18121	10,18544	10,18958	10,19364	10,19761	10,20150	10,20530
12	10,17696	10,18128	10,18551	10,18965	10,19370	10,19768	10,20156	10,20537
13	10,17704	10,18135	10,18558	10,18972	10,19377	10,19774	10,20163	10,20543
14	10,17711	10,18142	10,18565	10,18978	10,19384	10,19781	10,20169	10,20549
15	10,17718	10,18149	10,18572	10,18985	10,19390	10,19787	10,20175	10,20555
16	10,17726	10,18156	10,18579	10,18992	10,19397	10,19794	10,20182	10,20562
17	10,17733	10,18164	10,18586	10,18999	10,19404	10,19800	10,20188	10,20568
18	10,17740	10,18171	10,18593	10,19006	10,19411	10,19807	10,20195	10,20574
19	10,17747	10,18178	10,18599	10,19013	10,19417	10,19813	10,20201	10,20580
20	10,17755	10,18185	10,18606	10,19019	10,19424	10,19820	10,20207	10,20587
21	10,17762	10,18192	10,18613	10,19026	10,19431	10,19826	10,20214	10,20593
22	10,17769	10,18199	10,18620	10,19033	10,19437	10,19833	10,20220	10,20599
23	10,17776	10,18206	10,18627	10,19040	10,19444	10,19839	10,20227	10,20605
24	10,17783	10,18213	10,18634	10,19047	10,19451	10,19846	10,20233	10,20612
25	10,17791	10,18220	10,18641	10,19053	10,19457	10,19852	10,20239	10,20618
26	10,17798	10,18227	10,18648	10,19060	10,19464	10,19859	10,20246	10,20624
27	10,17805	10,18234	10,18655	10,19067	10,19470	10,19865	10,20252	10,20630
28	10,17812	10,18242	10,18662	10,19074	10,19477	10,19872	10,20259	10,20637
29	10,17820	10,18249	10,18669	10,19081	10,19484	10,19879	10,20265	10,20643
30	10,17827	10,18256	10,18676	10,19087	10,19490	10,19885	10,20271	10,20649
31	10,17834	10,18263	10,18683	10,19094	10,19497	10,19892	10,20278	10,20655
32	10,17841	10,18270	10,18690	10,19101	10,19504	10,19898	10,20284	10,20662
33	10,17848	10,18277	10,18697	10,19108	10,19510	10,19905	10,20290	10,20668
34	10,17856	10,18284	10,18704	10,19115	10,19517	10,19911	10,20297	10,20674
35	10,17863	10,18291	10,18710	10,19121	10,19524	10,19918	10,20303	10,20680
36	10,17870	10,18298	10,18717	10,19128	10,19530	10,19924	10,20309	10,20687
37	10,17877	10,18305	10,18724	10,19135	10,19537	10,19931	10,20316	10,20693
38	10,17885	10,18312	10,18731	10,19142	10,19544	10,19937	10,20322	10,20699
39	10,17892	10,18319	10,18738	10,19148	10,19550	10,19943	10,20328	10,20705
40	10,17899	10,18326	10,18745	10,19155	10,19557	10,19950	10,20335	10,20711
41	10,17906	10,18333	10,18752	10,19162	10,19563	10,19956	10,20341	10,20718
42	10,17913	10,18340	10,18759	10,19169	10,19570	10,19963	10,20347	10,20724
43	10,17920	10,18347	10,18766	10,19175	10,19577	10,19969	10,20354	10,20730
44	10,17928	10,18355	10,18773	10,19182	10,19583	10,19976	10,20360	10,20736
45	10,17935	10,18362	10,18780	10,19189	10,19590	10,19982	10,20366	10,20742
46	10,17942	10,18369	10,18786	10,19196	10,19596	10,19989	10,20373	10,20749
47	10,17949	10,18376	10,18793	10,19202	10,19603	10,19995	10,20379	10,20755
48	10,17956	10,18383	10,18800	10,19209	10,19610	10,20002	10,20385	10,20761
49	10,17964	10,18390	10,18807	10,19216	10,19616	10,20008	10,20392	10,20767
50	10,17971	10,18397	10,18814	10,19223	10,19623	10,20015	10,20398	10,20773
51	10,17978	10,18404	10,18821	10,19229	10,19630	10,20021	10,20404	10,20779
52	10,17985	10,18411	10,18828	10,19236	10,19636	10,20028	10,20411	10,20786
53	10,17992	10,18418	10,18835	10,19243	10,19643	10,20034	10,20417	10,20792
54	10,17999	10,18425	10,18842	10,19250	10,19649	10,20041	10,20423	10,20798
55	10,18007	10,18432	10,18848	10,19256	10,19656	10,20047	10,20430	10,20804
56	10,18014	10,18439	10,18855	10,19263	10,19662	10,20053	10,20436	10,20810
57	10,18021	10,18446	10,18862	10,19270	10,19669	10,20060	10,20442	10,20817
58	10,18028	10,18453	10,18869	10,19277	10,19676	10,20066	10,20449	10,20823
59	10,18035	10,18460	10,18876	10,19283	10,19682	10,20073	10,20455	10,20829
60	10,18042	10,18467	10,18883	10,19290	10,19689	10,20079	10,20461	10,20835

	128	129	130	131	132	133	134	135	
ARC ↓	DEGREES →	Log versine					(L sinus versus)	128° to 135°	
0	10,20835	10,21201	10,21558	10,21908	10,22249	10,22583	10,22908	10,23226	
1	10,20841	10,21207	10,21564	10,21913	10,22255	10,22588	10,22914	10,23231	
2	10,20847	10,21213	10,21570	10,21919	10,22260	10,22594	10,22919	10,23237	
3	10,20854	10,21219	10,21576	10,21925	10,22266	10,22599	10,22924	10,23242	
4	10,20860	10,21225	10,21582	10,21931	10,22272	10,22605	10,22930	10,23247	
5	10,20866	10,21231	10,21588	10,21936	10,22277	10,22610	10,22935	10,23252	
6	10,20872	10,21237	10,21593	10,21942	10,22283	10,22615	10,22940	10,23257	
7	10,20878	10,21243	10,21599	10,21948	10,22288	10,22621	10,22946	10,23263	
8	10,20884	10,21249	10,21605	10,21954	10,22294	10,22626	10,22951	10,23268	
9	10,20890	10,21255	10,21611	10,21959	10,22300	10,22632	10,22956	10,23273	
10	10,20897	10,21261	10,21617	10,21965	10,22305	10,22637	10,22962	10,23278	
11	10,20903	10,21267	10,21623	10,21971	10,22311	10,22643	10,22967	10,23283	
12	10,20909	10,21273	10,21629	10,21977	10,22316	10,22648	10,22972	10,23289	
13	10,20915	10,21279	10,21635	10,21982	10,22322	10,22654	10,22978	10,23294	
14	10,20921	10,21285	10,21640	10,21988	10,22328	10,22659	10,22983	10,23299	
15	10,20927	10,21291	10,21646	10,21994	10,22333	10,22665	10,22988	10,23304	
16	10,20933	10,21297	10,21652	10,21999	10,22339	10,22670	10,22994	10,23310	
17	10,20939	10,21303	10,21658	10,22005	10,22344	10,22676	10,22999	10,23315	
18	10,20946	10,21309	10,21664	10,22011	10,22350	10,22681	10,23004	10,23320	
19	10,20952	10,21315	10,21670	10,22017	10,22356	10,22687	10,23010	10,23325	
20	10,20958	10,21321	10,21676	10,22022	10,22361	10,22692	10,23015	10,23330	
21	10,20964	10,21327	10,21681	10,22028	10,22367	10,22697	10,23020	10,23335	
22	10,20970	10,21333	10,21687	10,22034	10,22372	10,22703	10,23026	10,23341	
23	10,20976	10,21339	10,21693	10,22039	10,22378	10,22708	10,23031	10,23346	
24	10,20982	10,21345	10,21699	10,22045	10,22383	10,22714	10,23036	10,23351	
25	10,20988	10,21351	10,21705	10,22051	10,22389	10,22719	10,23042	10,23356	
26	10,20994	10,21357	10,21711	10,22057	10,22395	10,22725	10,23047	10,23361	
27	10,21001	10,21363	10,21716	10,22062	10,22400	10,22730	10,23052	10,23367	
28	10,21007	10,21368	10,21722	10,22068	10,22406	10,22736	10,23058	10,23372	
29	10,21013	10,21374	10,21728	10,22074	10,22411	10,22741	10,23063	10,23377	
30	10,21019	10,21380	10,21734	10,22079	10,22417	10,22746	10,23068	10,23382	
31	10,21025	10,21386	10,21740	10,22085	10,22422	10,22752	10,23073	10,23387	
32	10,21031	10,21392	10,21746	10,22091	10,22428	10,22757	10,23079	10,23392	
33	10,21037	10,21398	10,21751	10,22096	10,22433	10,22763	10,23084	10,23398	
34	10,21043	10,21404	10,21757	10,22102	10,22439	10,22768	10,23089	10,23403	
35	10,21049	10,21410	10,21763	10,22108	10,22445	10,22773	10,23095	10,23408	
36	10,21055	10,21416	10,21769	10,22113	10,22450	10,22779	10,23100	10,23413	
37	10,21061	10,21422	10,21775	10,22119	10,22456	10,22784	10,23105	10,23418	
38	10,21068	10,21428	10,21780	10,22125	10,22461	10,22790	10,23110	10,23423	
39	10,21074	10,21434	10,21786	10,22130	10,22467	10,22795	10,23116	10,23429	
40	10,21080	10,21440	10,21792	10,22136	10,22472	10,22801	10,23121	10,23434	
41	10,21086	10,21446	10,21798	10,22142	10,22478	10,22806	10,23126	10,23439	
42	10,21092	10,21452	10,21804	10,22147	10,22483	10,22811	10,23132	10,23444	
43	10,21098	10,21458	10,21809	10,22153	10,22489	10,22817	10,23137	10,23449	
44	10,21104	10,21464	10,21815	10,22159	10,22494	10,22822	10,23142	10,23454	
45	10,21110	10,21470	10,21821	10,22164	10,22500	10,22828	10,23147	10,23459	
46	10,21116	10,21475	10,21827	10,22170	10,22505	10,22833	10,23153	10,23465	
47	10,21122	10,21481	10,21833	10,22176	10,22511	10,22838	10,23158	10,23470	
48	10,21128	10,21487	10,21838	10,22181	10,22516	10,22844	10,23163	10,23475	
49	10,21134	10,21493	10,21844	10,22187	10,22522	10,22849	10,23168	10,23480	
50	10,21140	10,21499	10,21850	10,22193	10,22528	10,22854	10,23174	10,23485	
51	10,21146	10,21505	10,21856	10,22198	10,22533	10,22860	10,23179	10,23490	
52	10,21152	10,21511	10,21861	10,22204	10,22539	10,22865	10,23184	10,23495	
53	10,21158	10,21517	10,21867	10,22210	10,22544	10,22871	10,23189	10,23500	
54	10,21164	10,21523	10,21873	10,22215	10,22550	10,22876	10,23195	10,23506	
55	10,21170	10,21529	10,21879	10,22221	10,22555	10,22881	10,23200	10,23511	
56	10,21177	10,21535	10,21885	10,22227	10,22561	10,22887	10,23205	10,23516	
57	10,21183	10,21540	10,21890	10,22232	10,22566	10,22892	10,23210	10,23521	
58	10,21189	10,21546	10,21896	10,22238	10,22572	10,22897	10,23216	10,23526	
59	10,21195	10,21552	10,21902	10,22243	10,22577	10,22903	10,23221	10,23531	
60	10,21201	10,21558	10,21908	10,22249	10,22583	10,22908	10,23226	10,23536	

	136	137	138	139	140	141	142	143	
ARC ↓	DEGREES →	Log versine					(L sinus versus)	136° to 143°	
0	10,23536	10,23839	10,24133	10,24421	10,24700	10,24972	10,25237	10,25494	
1	10,23541	10,23844	10,24138	10,24425	10,24705	10,24977	10,25241	10,25499	
2	10,23546	10,23849	10,24143	10,24430	10,24709	10,24981	10,25246	10,25503	
3	10,23551	10,23853	10,24148	10,24435	10,24714	10,24986	10,25250	10,25507	
4	10,23557	10,23858	10,24153	10,24439	10,24719	10,24990	10,25254	10,25511	
5	10,23562	10,23863	10,24158	10,24444	10,24723	10,24995	10,25259	10,25515	
6	10,23567	10,23868	10,24162	10,24449	10,24728	10,24999	10,25263	10,25520	
7	10,23572	10,23873	10,24167	10,24454	10,24732	10,25004	10,25267	10,25524	
8	10,23577	10,23878	10,24172	10,24458	10,24737	10,25008	10,25272	10,25528	
9	10,23582	10,23883	10,24177	10,24463	10,24741	10,25012	10,25276	10,25532	
10	10,23587	10,23888	10,24182	10,24468	10,24746	10,25017	10,25280	10,25536	
11	10,23592	10,23893	10,24187	10,24472	10,24751	10,25021	10,25285	10,25541	
12	10,23597	10,23898	10,24191	10,24477	10,24755	10,25026	10,25289	10,25545	
13	10,23602	10,23903	10,24196	10,24482	10,24760	10,25030	10,25293	10,25549	
14	10,23607	10,23908	10,24201	10,24486	10,24764	10,25035	10,25298	10,25553	
15	10,23612	10,23913	10,24206	10,24491	10,24769	10,25039	10,25302	10,25557	
16	10,23618	10,23918	10,24211	10,24496	10,24773	10,25044	10,25306	10,25562	
17	10,23623	10,23923	10,24215	10,24501	10,24778	10,25048	10,25311	10,25566	
18	10,23628	10,23928	10,24220	10,24505	10,24783	10,25053	10,25315	10,25570	
19	10,23633	10,23933	10,24225	10,24510	10,24787	10,25057	10,25319	10,25574	
20	10,23638	10,23938	10,24230	10,24515	10,24792	10,25061	10,25324	10,25578	
21	10,23643	10,23943	10,24235	10,24519	10,24796	10,25066	10,25328	10,25583	
22	10,23648	10,23948	10,24240	10,24524	10,24801	10,25070	10,25332	10,25587	
23	10,23653	10,23952	10,24244	10,24529	10,24805	10,25075	10,25337	10,25591	
24	10,23658	10,23957	10,24249	10,24533	10,24810	10,25079	10,25341	10,25595	
25	10,23663	10,23962	10,24254	10,24538	10,24814	10,25084	10,25345	10,25599	
26	10,23668	10,23967	10,24259	10,24543	10,24819	10,25088	10,25349	10,25604	
27	10,23673	10,23972	10,24264	10,24547	10,24824	10,25092	10,25354	10,25608	
28	10,23678	10,23977	10,24268	10,24552	10,24828	10,25097	10,25358	10,25612	
29	10,23683	10,23982	10,24273	10,24557	10,24833	10,25101	10,25362	10,25616	
30	10,23688	10,23987	10,24278	10,24561	10,24837	10,25106	10,25367	10,25620	
31	10,23693	10,23992	10,24283	10,24566	10,24842	10,25110	10,25371	10,25624	
32	10,23698	10,23997	10,24287	10,24571	10,24846	10,25114	10,25375	10,25629	
33	10,23703	10,24002	10,24292	10,24575	10,24851	10,25119	10,25379	10,25633	
34	10,23708	10,24007	10,24297	10,24580	10,24855	10,25123	10,25384	10,25637	
35	10,23714	10,24011	10,24302	10,24585	10,24860	10,25128	10,25388	10,25641	
36	10,23719	10,24016	10,24307	10,24589	10,24864	10,25132	10,25392	10,25645	
37	10,23724	10,24021	10,24311	10,24594	10,24869	10,25136	10,25397	10,25649	
38	10,23729	10,24026	10,24316	10,24599	10,24873	10,25141	10,25401	10,25653	
39	10,23734	10,24031	10,24321	10,24603	10,24878	10,25145	10,25405	10,25658	
40	10,23739	10,24036	10,24326	10,24608	10,24882	10,25150	10,25409	10,25662	
41	10,23744	10,24041	10,24330	10,24612	10,24887	10,25154	10,25414	10,25666	
42	10,23749	10,24046	10,24335	10,24617	10,24891	10,25158	10,25418	10,25670	
43	10,23754	10,24051	10,24340	10,24622	10,24896	10,25163	10,25422	10,25674	
44	10,23759	10,24055	10,24345	10,24626	10,24900	10,25167	10,25426	10,25678	
45	10,23764	10,24060	10,24349	10,24631	10,24905	10,25172	10,25431	10,25682	
46	10,23769	10,24065	10,24354	10,24636	10,24909	10,25176	10,25435	10,25687	
47	10,23774	10,24070	10,24359	10,24640	10,24914	10,25180	10,25439	10,25691	
48	10,23779	10,24075	10,24364	10,24645	10,24918	10,25185	10,25443	10,25695	
49	10,23784	10,24080	10,24368	10,24649	10,24923	10,25189	10,25448	10,25699	
50	10,23789	10,24085	10,24373	10,24654	10,24927	10,25193	10,25452	10,25703	
51	10,23794	10,24090	10,24378	10,24659	10,24932	10,25198	10,25456	10,25707	
52	10,23799	10,24094	10,24383	10,24663	10,24936	10,25202	10,25460	10,25711	
53	10,23804	10,24099	10,24387	10,24668	10,24941	10,25207	10,25465	10,25715	
54	10,23809	10,24104	10,24392	10,24673	10,24945	10,25211	10,25469	10,25720	
55	10,23814	10,24109	10,24397	10,24677	10,24950	10,25215	10,25473	10,25724	
56	10,23819	10,24114	10,24402	10,24682	10,24954	10,25220	10,25477	10,25728	
57	10,23824	10,24119	10,24406	10,24686	10,24959	10,25224	10,25482	10,25732	
58	10,23829	10,24124	10,24411	10,24691	10,24963	10,25228	10,25486	10,25736	
59	10,23834	10,24128	10,24416	10,24696	10,24968	10,25233	10,25490	10,25740	
60	10,23839	10,24133	10,24421	10,24700	10,24972	10,25237	10,25494	10,25744	

	144	145	146	147	148	149	150	151	
ARC ↓	DEGREES →	Log versine					(L sinus versus)	144° to 151°	
0	10,25744	10,25987	10,26222	10,26450	10,26671	10,26885	10,27092	10,27291	
1	10,25748	10,25991	10,26226	10,26454	10,26675	10,26889	10,27095	10,27295	
2	10,25752	10,25995	10,26230	10,26458	10,26679	10,26892	10,27099	10,27298	
3	10,25757	10,25999	10,26234	10,26462	10,26682	10,26896	10,27102	10,27301	
4	10,25761	10,26003	10,26238	10,26465	10,26686	10,26899	10,27105	10,27304	
5	10,25765	10,26007	10,26242	10,26469	10,26689	10,26903	10,27109	10,27308	
6	10,25769	10,26011	10,26245	10,26473	10,26693	10,26906	10,27112	10,27311	
7	10,25773	10,26015	10,26249	10,26477	10,26697	10,26910	10,27115	10,27314	
8	10,25777	10,26019	10,26253	10,26480	10,26700	10,26913	10,27119	10,27317	
9	10,25781	10,26023	10,26257	10,26484	10,26704	10,26917	10,27122	10,27321	
10	10,25785	10,26027	10,26261	10,26488	10,26707	10,26920	10,27126	10,27324	
11	10,25789	10,26031	10,26265	10,26491	10,26711	10,26924	10,27129	10,27327	
12	10,25793	10,26035	10,26268	10,26495	10,26715	10,26927	10,27132	10,27330	
13	10,25797	10,26039	10,26272	10,26499	10,26718	10,26930	10,27136	10,27334	
14	10,25802	10,26042	10,26276	10,26503	10,26722	10,26934	10,27139	10,27337	
15	10,25806	10,26046	10,26280	10,26506	10,26725	10,26937	10,27142	10,27340	
16	10,25810	10,26050	10,26284	10,26510	10,26729	10,26941	10,27146	10,27343	
17	10,25814	10,26054	10,26288	10,26514	10,26733	10,26944	10,27149	10,27347	
18	10,25818	10,26058	10,26291	10,26517	10,26736	10,26948	10,27152	10,27350	
19	10,25822	10,26062	10,26295	10,26521	10,26740	10,26951	10,27156	10,27353	
20	10,25826	10,26066	10,26299	10,26525	10,26743	10,26955	10,27159	10,27356	
21	10,25830	10,26070	10,26303	10,26529	10,26747	10,26958	10,27162	10,27359	
22	10,25834	10,26074	10,26307	10,26532	10,26751	10,26962	10,27166	10,27363	
23	10,25838	10,26078	10,26311	10,26536	10,26754	10,26965	10,27169	10,27366	
24	10,25842	10,26082	10,26314	10,26540	10,26758	10,26969	10,27172	10,27369	
25	10,25846	10,26086	10,26318	10,26543	10,26761	10,26972	10,27176	10,27372	
26	10,25850	10,26090	10,26322	10,26547	10,26765	10,26976	10,27179	10,27376	
27	10,25854	10,26094	10,26326	10,26551	10,26768	10,26979	10,27182	10,27379	
28	10,25858	10,26098	10,26330	10,26554	10,26772	10,26982	10,27186	10,27382	
29	10,25862	10,26102	10,26333	10,26558	10,26776	10,26986	10,27189	10,27385	
30	10,25866	10,26105	10,26337	10,26562	10,26779	10,26989	10,27192	10,27388	
31	10,25871	10,26109	10,26341	10,26565	10,26783	10,26993	10,27196	10,27392	
32	10,25875	10,26113	10,26345	10,26569	10,26786	10,26996	10,27199	10,27395	
33	10,25879	10,26117	10,26349	10,26573	10,26790	10,27000	10,27202	10,27398	
34	10,25883	10,26121	10,26352	10,26576	10,26793	10,27003	10,27206	10,27401	
35	10,25887	10,26125	10,26356	10,26580	10,26797	10,27007	10,27209	10,27404	
36	10,25891	10,26129	10,26360	10,26584	10,26800	10,27010	10,27212	10,27408	
37	10,25895	10,26133	10,26364	10,26587	10,26804	10,27013	10,27216	10,27411	
38	10,25899	10,26137	10,26368	10,26591	10,26808	10,27017	10,27219	10,27414	
39	10,25903	10,26141	10,26371	10,26595	10,26811	10,27020	10,27222	10,27417	
40	10,25907	10,26145	10,26375	10,26598	10,26815	10,27024	10,27226	10,27420	
41	10,25911	10,26149	10,26379	10,26602	10,26818	10,27027	10,27229	10,27424	
42	10,25915	10,26152	10,26383	10,26606	10,26822	10,27031	10,27232	10,27427	
43	10,25919	10,26156	10,26386	10,26609	10,26825	10,27034	10,27235	10,27430	
44	10,25923	10,26160	10,26390	10,26613	10,26829	10,27037	10,27239	10,27433	
45	10,25927	10,26164	10,26394	10,26617	10,26832	10,27041	10,27242	10,27436	
46	10,25931	10,26168	10,26398	10,26620	10,26836	10,27044	10,27245	10,27440	
47	10,25935	10,26172	10,26402	10,26624	10,26839	10,27048	10,27249	10,27443	
48	10,25939	10,26176	10,26405	10,26628	10,26843	10,27051	10,27252	10,27446	
49	10,25943	10,26180	10,26409	10,26631	10,26846	10,27054	10,27255	10,27449	
50	10,25947	10,26184	10,26413	10,26635	10,26850	10,27058	10,27259	10,27452	
51	10,25951	10,26187	10,26417	10,26639	10,26853	10,27061	10,27262	10,27455	
52	10,25955	10,26191	10,26420	10,26642	10,26857	10,27065	10,27265	10,27459	
53	10,25959	10,26195	10,26424	10,26646	10,26861	10,27068	10,27268	10,27462	
54	10,25963	10,26199	10,26428	10,26650	10,26864	10,27071	10,27272	10,27465	
55	10,25967	10,26203	10,26432	10,26653	10,26868	10,27075	10,27275	10,27468	
56	10,25971	10,26207	10,26435	10,26657	10,26871	10,27078	10,27278	10,27471	
57	10,25975	10,26211	10,26439	10,26660	10,26875	10,27082	10,27282	10,27474	
58	10,25979	10,26215	10,26443	10,26664	10,26878	10,27085	10,27285	10,27478	
59	10,25983	10,26218	10,26447	10,26668	10,26882	10,27088	10,27288	10,27481	
60	10,25987	10,26222	10,26450	10,26671	10,26885	10,27092	10,27291	10,27484	

	152	153	154	155	156	157	158	159	
ARC ↓	DEGREES →	Log versine				(L sinus versus)	152° to 159°		
0	10,27484	10,27669	10,27848	10,28019	10,28184	10,28342	10,28492	10,28636	
1	10,27487	10,27672	10,27851	10,28022	10,28187	10,28344	10,28495	10,28639	
2	10,27490	10,27675	10,27854	10,28025	10,28189	10,28347	10,28497	10,28641	
3	10,27493	10,27678	10,27857	10,28028	10,28192	10,28349	10,28500	10,28643	
4	10,27496	10,27681	10,27859	10,28030	10,28195	10,28352	10,28502	10,28646	
5	10,27500	10,27684	10,27862	10,28033	10,28197	10,28354	10,28505	10,28648	
6	10,27503	10,27687	10,27865	10,28036	10,28200	10,28357	10,28507	10,28650	
7	10,27506	10,27690	10,27868	10,28039	10,28203	10,28359	10,28509	10,28653	
8	10,27509	10,27694	10,27871	10,28042	10,28205	10,28362	10,28512	10,28655	
9	10,27512	10,27697	10,27874	10,28044	10,28208	10,28365	10,28514	10,28657	
10	10,27515	10,27700	10,27877	10,28047	10,28211	10,28367	10,28517	10,28660	
11	10,27518	10,27703	10,27880	10,28050	10,28213	10,28370	10,28519	10,28662	
12	10,27521	10,27706	10,27883	10,28053	10,28216	10,28372	10,28522	10,28664	
13	10,27525	10,27709	10,27886	10,28056	10,28219	10,28375	10,28524	10,28667	
14	10,27528	10,27712	10,27888	10,28058	10,28221	10,28377	10,28527	10,28669	
15	10,27531	10,27715	10,27891	10,28061	10,28224	10,28380	10,28529	10,28671	
16	10,27534	10,27718	10,27894	10,28064	10,28227	10,28382	10,28531	10,28673	
17	10,27537	10,27721	10,27897	10,28067	10,28229	10,28385	10,28534	10,28676	
18	10,27540	10,27724	10,27900	10,28069	10,28232	10,28387	10,28536	10,28678	
19	10,27543	10,27727	10,27903	10,28072	10,28235	10,28390	10,28539	10,28680	
20	10,27546	10,27730	10,27906	10,28075	10,28237	10,28393	10,28541	10,28683	
21	10,27550	10,27733	10,27909	10,28078	10,28240	10,28395	10,28543	10,28685	
22	10,27553	10,27736	10,27911	10,28080	10,28242	10,28398	10,28546	10,28687	
23	10,27556	10,27739	10,27914	10,28083	10,28245	10,28400	10,28548	10,28690	
24	10,27559	10,27742	10,27917	10,28086	10,28248	10,28403	10,28551	10,28692	
25	10,27562	10,27745	10,27920	10,28089	10,28250	10,28405	10,28553	10,28694	
26	10,27565	10,27748	10,27923	10,28091	10,28253	10,28408	10,28556	10,28696	
27	10,27568	10,27750	10,27926	10,28094	10,28256	10,28410	10,28558	10,28699	
28	10,27571	10,27753	10,27929	10,28097	10,28258	10,28413	10,28560	10,28701	
29	10,27574	10,27756	10,27932	10,28100	10,28261	10,28415	10,28563	10,28703	
30	10,27577	10,27759	10,27934	10,28102	10,28264	10,28418	10,28565	10,28706	
31	10,27581	10,27762	10,27937	10,28105	10,28266	10,28420	10,28568	10,28708	
32	10,27584	10,27765	10,27940	10,28108	10,28269	10,28423	10,28570	10,28710	
33	10,27587	10,27768	10,27943	10,28111	10,28271	10,28425	10,28572	10,28712	
34	10,27590	10,27771	10,27946	10,28113	10,28274	10,28428	10,28575	10,28715	
35	10,27593	10,27774	10,27949	10,28116	10,28277	10,28430	10,28577	10,28717	
36	10,27596	10,27777	10,27952	10,28119	10,28279	10,28433	10,28579	10,28719	
37	10,27599	10,27780	10,27954	10,28122	10,28282	10,28435	10,28582	10,28722	
38	10,27602	10,27783	10,27957	10,28124	10,28285	10,28438	10,28584	10,28724	
39	10,27605	10,27786	10,27960	10,28127	10,28287	10,28440	10,28587	10,28726	
40	10,27608	10,27789	10,27963	10,28130	10,28290	10,28443	10,28589	10,28728	
41	10,27611	10,27792	10,27966	10,28133	10,28292	10,28445	10,28591	10,28731	
42	10,27614	10,27795	10,27969	10,28135	10,28295	10,28448	10,28594	10,28733	
43	10,27617	10,27798	10,27971	10,28138	10,28298	10,28450	10,28596	10,28735	
44	10,27621	10,27801	10,27974	10,28141	10,28300	10,28453	10,28599	10,28737	
45	10,27624	10,27804	10,27977	10,28143	10,28303	10,28455	10,28601	10,28740	
46	10,27627	10,27807	10,27980	10,28146	10,28305	10,28458	10,28603	10,28742	
47	10,27630	10,27810	10,27983	10,28149	10,28308	10,28460	10,28606	10,28744	
48	10,27633	10,27813	10,27986	10,28152	10,28311	10,28463	10,28608	10,28746	
49	10,27636	10,27816	10,27988	10,28154	10,28313	10,28465	10,28610	10,28749	
50	10,27639	10,27819	10,27991	10,28157	10,28316	10,28468	10,28613	10,28751	
51	10,27642	10,27821	10,27994	10,28160	10,28318	10,28470	10,28615	10,28753	
52	10,27645	10,27824	10,27997	10,28162	10,28321	10,28473	10,28617	10,28755	
53	10,27648	10,27827	10,28000	10,28165	10,28324	10,28475	10,28620	10,28758	
54	10,27651	10,27830	10,28002	10,28168	10,28326	10,28478	10,28622	10,28760	
55	10,27654	10,27833	10,28005	10,28170	10,28329	10,28480	10,28624	10,28762	
56	10,27657	10,27836	10,28008	10,28173	10,28331	10,28482	10,28627	10,28764	
57	10,27660	10,27839	10,28011	10,28176	10,28334	10,28485	10,28629	10,28767	
58	10,27663	10,27842	10,28014	10,28179	10,28336	10,28487	10,28632	10,28769	
59	10,27666	10,27845	10,28017	10,28181	10,28339	10,28490	10,28634	10,28771	
60	10,27669	10,27848	10,28019	10,28184	10,28342	10,28492	10,28636	10,28773	

	160	161	162	163	164	165	166	167	
ARC ↓	DEGREES →	Log versine				(L sinus versus)	160° to 167°		
0	10,28773	10,28904	10,29027	10,29144	10,29254	10,29357	10,29453	10,29543	
1	10,28776	10,28906	10,29029	10,29146	10,29255	10,29358	10,29455	10,29544	
2	10,28778	10,28908	10,29031	10,29147	10,29257	10,29360	10,29456	10,29546	
3	10,28780	10,28910	10,29033	10,29149	10,29259	10,29362	10,29458	10,29547	
4	10,28782	10,28912	10,29035	10,29151	10,29261	10,29363	10,29459	10,29549	
5	10,28784	10,28914	10,29037	10,29153	10,29262	10,29365	10,29461	10,29550	
6	10,28787	10,28916	10,29039	10,29155	10,29264	10,29367	10,29462	10,29551	
7	10,28789	10,28918	10,29041	10,29157	10,29266	10,29368	10,29464	10,29553	
8	10,28791	10,28920	10,29043	10,29159	10,29268	10,29370	10,29465	10,29554	
9	10,28793	10,28922	10,29045	10,29161	10,29269	10,29372	10,29467	10,29556	
10	10,28795	10,28925	10,29047	10,29162	10,29271	10,29373	10,29469	10,29557	
11	10,28798	10,28927	10,29049	10,29164	10,29273	10,29375	10,29470	10,29559	
12	10,28800	10,28929	10,29051	10,29166	10,29275	10,29377	10,29472	10,29560	
13	10,28802	10,28931	10,29053	10,29168	10,29276	10,29378	10,29473	10,29561	
14	10,28804	10,28933	10,29055	10,29170	10,29278	10,29380	10,29475	10,29563	
15	10,28806	10,28935	10,29057	10,29172	10,29280	10,29381	10,29476	10,29564	
16	10,28809	10,28937	10,29059	10,29174	10,29282	10,29383	10,29478	10,29566	
17	10,28811	10,28939	10,29061	10,29175	10,29283	10,29385	10,29479	10,29567	
18	10,28813	10,28941	10,29063	10,29177	10,29285	10,29386	10,29481	10,29568	
19	10,28815	10,28943	10,29065	10,29179	10,29287	10,29388	10,29482	10,29570	
20	10,28817	10,28945	10,29067	10,29181	10,29289	10,29390	10,29484	10,29571	
21	10,28820	10,28948	10,29069	10,29183	10,29290	10,29391	10,29485	10,29573	
22	10,28822	10,28950	10,29071	10,29185	10,29292	10,29393	10,29487	10,29574	
23	10,28824	10,28952	10,29073	10,29187	10,29294	10,29394	10,29488	10,29575	
24	10,28826	10,28954	10,29074	10,29188	10,29296	10,29396	10,29490	10,29577	
25	10,28828	10,28956	10,29076	10,29190	10,29297	10,29398	10,29491	10,29578	
26	10,28831	10,28958	10,29078	10,29192	10,29299	10,29399	10,29493	10,29580	
27	10,28833	10,28960	10,29080	10,29194	10,29301	10,29401	10,29494	10,29581	
28	10,28835	10,28962	10,29082	10,29196	10,29303	10,29403	10,29496	10,29582	
29	10,28837	10,28964	10,29084	10,29198	10,29304	10,29404	10,29497	10,29584	
30	10,28839	10,28966	10,29086	10,29199	10,29306	10,29406	10,29499	10,29585	
31	10,28841	10,28968	10,29088	10,29201	10,29308	10,29407	10,29500	10,29587	
32	10,28844	10,28970	10,29090	10,29203	10,29309	10,29409	10,29502	10,29588	
33	10,28846	10,28972	10,29092	10,29205	10,29311	10,29411	10,29503	10,29589	
34	10,28848	10,28974	10,29094	10,29207	10,29313	10,29412	10,29505	10,29591	
35	10,28850	10,28976	10,29096	10,29209	10,29315	10,29414	10,29506	10,29592	
36	10,28852	10,28978	10,29098	10,29210	10,29316	10,29415	10,29508	10,29593	
37	10,28854	10,28980	10,29100	10,29212	10,29318	10,29417	10,29509	10,29595	
38	10,28857	10,28983	10,29102	10,29214	10,29320	10,29419	10,29511	10,29596	
39	10,28859	10,28985	10,29104	10,29216	10,29321	10,29420	10,29512	10,29598	
40	10,28861	10,28987	10,29106	10,29218	10,29323	10,29422	10,29514	10,29599	
41	10,28863	10,28989	10,29107	10,29219	10,29325	10,29423	10,29515	10,29600	
42	10,28865	10,28991	10,29109	10,29221	10,29326	10,29425	10,29517	10,29602	
43	10,28867	10,28993	10,29111	10,29223	10,29328	10,29427	10,29518	10,29603	
44	10,28869	10,28995	10,29113	10,29225	10,29330	10,29428	10,29520	10,29604	
45	10,28872	10,28997	10,29115	10,29227	10,29332	10,29430	10,29521	10,29606	
46	10,28874	10,28999	10,29117	10,29229	10,29333	10,29431	10,29523	10,29607	
47	10,28876	10,29001	10,29119	10,29230	10,29335	10,29433	10,29524	10,29608	
48	10,28878	10,29003	10,29121	10,29232	10,29337	10,29434	10,29525	10,29610	
49	10,28880	10,29005	10,29123	10,29234	10,29338	10,29436	10,29527	10,29611	
50	10,28882	10,29007	10,29125	10,29236	10,29340	10,29438	10,29528	10,29612	
51	10,28884	10,29009	10,29127	10,29237	10,29342	10,29439	10,29530	10,29614	
52	10,28887	10,29011	10,29128	10,29239	10,29343	10,29441	10,29531	10,29615	
53	10,28889	10,29013	10,29130	10,29241	10,29345	10,29442	10,29533	10,29617	
54	10,28891	10,29015	10,29132	10,29243	10,29347	10,29444	10,29534	10,29618	
55	10,28893	10,29017	10,29134	10,29245	10,29348	10,29445	10,29536	10,29619	
56	10,28895	10,29019	10,29136	10,29246	10,29350	10,29447	10,29537	10,29621	
57	10,28897	10,29021	10,29138	10,29248	10,29352	10,29448	10,29539	10,29622	
58	10,28899	10,29023	10,29140	10,29250	10,29353	10,29450	10,29540	10,29623	
59	10,28901	10,29025	10,29142	10,29252	10,29355	10,29452	10,29541	10,29625	
60	10,28904	10,29027	10,29144	10,29254	10,29357	10,29453	10,29543	10,29626	

	168	169	170	171	172	173	174	175	
ARC ↓	DEGREES →	Log versine					(L sinus versus)	168° to 175°	
0	10,29626	10,29702	10,29772	10,29835	10,29891	10,29941	10,29984	10,30020	
1	10,29627	10,29703	10,29773	10,29836	10,29892	10,29942	10,29985	10,30021	
2	10,29629	10,29705	10,29774	10,29837	10,29893	10,29942	10,29985	10,30021	
3	10,29630	10,29706	10,29775	10,29838	10,29894	10,29943	10,29986	10,30022	
4	10,29631	10,29707	10,29776	10,29839	10,29895	10,29944	10,29987	10,30022	
5	10,29632	10,29708	10,29777	10,29840	10,29896	10,29945	10,29987	10,30023	
6	10,29634	10,29709	10,29778	10,29841	10,29896	10,29945	10,29988	10,30024	
7	10,29635	10,29711	10,29780	10,29842	10,29897	10,29946	10,29988	10,30024	
8	10,29636	10,29712	10,29781	10,29843	10,29898	10,29947	10,29989	10,30025	
9	10,29638	10,29713	10,29782	10,29844	10,29899	10,29948	10,29990	10,30025	
10	10,29639	10,29714	10,29783	10,29845	10,29900	10,29948	10,29990	10,30026	
11	10,29640	10,29715	10,29784	10,29846	10,29901	10,29949	10,29991	10,30026	
12	10,29642	10,29717	10,29785	10,29847	10,29902	10,29950	10,29992	10,30027	
13	10,29643	10,29718	10,29786	10,29848	10,29902	10,29951	10,29992	10,30027	
14	10,29644	10,29719	10,29787	10,29849	10,29903	10,29951	10,29993	10,30028	
15	10,29646	10,29720	10,29788	10,29850	10,29904	10,29952	10,29994	10,30028	
16	10,29647	10,29721	10,29789	10,29851	10,29905	10,29953	10,29994	10,30029	
17	10,29648	10,29723	10,29790	10,29851	10,29906	10,29954	10,29995	10,30029	
18	10,29649	10,29724	10,29791	10,29852	10,29907	10,29954	10,29995	10,30030	
19	10,29651	10,29725	10,29793	10,29853	10,29908	10,29955	10,29996	10,30030	
20	10,29652	10,29726	10,29794	10,29854	10,29908	10,29956	10,29997	10,30031	
21	10,29653	10,29727	10,29795	10,29855	10,29909	10,29957	10,29997	10,30031	
22	10,29655	10,29729	10,29796	10,29856	10,29910	10,29957	10,29998	10,30032	
23	10,29656	10,29730	10,29797	10,29857	10,29911	10,29958	10,29999	10,30032	
24	10,29657	10,29731	10,29798	10,29858	10,29912	10,29959	10,29999	10,30033	
25	10,29658	10,29732	10,29799	10,29859	10,29913	10,29960	10,30000	10,30034	
26	10,29660	10,29733	10,29800	10,29860	10,29914	10,29960	10,30000	10,30034	
27	10,29661	10,29734	10,29801	10,29861	10,29914	10,29961	10,30001	10,30035	
28	10,29662	10,29736	10,29802	10,29862	10,29915	10,29962	10,30002	10,30035	
29	10,29664	10,29737	10,29803	10,29863	10,29916	10,29962	10,30002	10,30036	
30	10,29665	10,29738	10,29804	10,29864	10,29917	10,29963	10,30003	10,30036	
31	10,29666	10,29739	10,29805	10,29865	10,29918	10,29964	10,30004	10,30037	
32	10,29667	10,29740	10,29806	10,29866	10,29918	10,29965	10,30004	10,30037	
33	10,29669	10,29741	10,29807	10,29867	10,29919	10,29965	10,30005	10,30037	
34	10,29670	10,29742	10,29808	10,29868	10,29920	10,29966	10,30005	10,30038	
35	10,29671	10,29744	10,29809	10,29868	10,29921	10,29967	10,30006	10,30038	
36	10,29672	10,29745	10,29810	10,29869	10,29922	10,29967	10,30007	10,30039	
37	10,29674	10,29746	10,29811	10,29870	10,29923	10,29968	10,30007	10,30039	
38	10,29675	10,29747	10,29813	10,29871	10,29923	10,29969	10,30008	10,30040	
39	10,29676	10,29748	10,29814	10,29872	10,29924	10,29970	10,30008	10,30040	
40	10,29677	10,29749	10,29815	10,29873	10,29925	10,29970	10,30009	10,30041	
41	10,29679	10,29751	10,29816	10,29874	10,29926	10,29971	10,30009	10,30041	
42	10,29680	10,29752	10,29817	10,29875	10,29927	10,29972	10,30010	10,30042	
43	10,29681	10,29753	10,29818	10,29876	10,29927	10,29972	10,30011	10,30042	
44	10,29682	10,29754	10,29819	10,29877	10,29928	10,29973	10,30011	10,30043	
45	10,29684	10,29755	10,29820	10,29878	10,29929	10,29974	10,30012	10,30043	
46	10,29685	10,29756	10,29821	10,29879	10,29930	10,29974	10,30012	10,30044	
47	10,29686	10,29757	10,29822	10,29880	10,29931	10,29975	10,30013	10,30044	
48	10,29687	10,29758	10,29823	10,29880	10,29931	10,29976	10,30014	10,30045	
49	10,29689	10,29760	10,29824	10,29881	10,29932	10,29976	10,30014	10,30045	
50	10,29690	10,29761	10,29825	10,29882	10,29933	10,29977	10,30015	10,30046	
51	10,29691	10,29762	10,29826	10,29883	10,29934	10,29978	10,30015	10,30046	
52	10,29692	10,29763	10,29827	10,29884	10,29935	10,29979	10,30016	10,30046	
53	10,29694	10,29764	10,29828	10,29885	10,29935	10,29979	10,30016	10,30047	
54	10,29695	10,29765	10,29829	10,29886	10,29936	10,29980	10,30017	10,30047	
55	10,29696	10,29766	10,29830	10,29887	10,29937	10,29981	10,30018	10,30048	
56	10,29697	10,29767	10,29831	10,29888	10,29938	10,29981	10,30018	10,30048	
57	10,29699	10,29769	10,29832	10,29888	10,29939	10,29982	10,30019	10,30049	
58	10,29700	10,29770	10,29833	10,29889	10,29939	10,29983	10,30019	10,30049	
59	10,29701	10,29771	10,29834	10,29890	10,29940	10,29983	10,30020	10,30050	
60	10,29702	10,29772	10,29835	10,29891	10,29941	10,29984	10,30020	10,30050	

	176	177	178	179
ARC ↓	DEGREES →	Log versine		176° to 179°
0	10,30050	10,30073	10,30090	10,30100
1	10,30051	10,30074	10,30090	10,30100
2	10,30051	10,30074	10,30090	10,30100
3	10,30051	10,30074	10,30090	10,30100
4	10,30052	10,30075	10,30091	10,30100
5	10,30052	10,30075	10,30091	10,30100
6	10,30053	10,30075	10,30091	10,30100
7	10,30053	10,30076	10,30091	10,30100
8	10,30054	10,30076	10,30091	10,30101
9	10,30054	10,30076	10,30092	10,30101
10	10,30054	10,30076	10,30092	10,30101
11	10,30055	10,30077	10,30092	10,30101
12	10,30055	10,30077	10,30092	10,30101
13	10,30056	10,30077	10,30092	10,30101
14	10,30056	10,30078	10,30093	10,30101
15	10,30056	10,30078	10,30093	10,30101
16	10,30057	10,30078	10,30093	10,30101
17	10,30057	10,30079	10,30093	10,30101
18	10,30058	10,30079	10,30093	10,30101
19	10,30058	10,30079	10,30094	10,30101
20	10,30059	10,30079	10,30094	10,30102
21	10,30059	10,30080	10,30094	10,30102
22	10,30059	10,30080	10,30094	10,30102
23	10,30060	10,30080	10,30094	10,30102
24	10,30060	10,30081	10,30095	10,30102
25	10,30061	10,30081	10,30095	10,30102
26	10,30061	10,30081	10,30095	10,30102
27	10,30061	10,30081	10,30095	10,30102
28	10,30062	10,30082	10,30095	10,30102
29	10,30062	10,30082	10,30095	10,30102
30	10,30062	10,30082	10,30096	10,30102
31	10,30063	10,30083	10,30096	10,30102
32	10,30063	10,30083	10,30096	10,30102
33	10,30064	10,30083	10,30096	10,30102
34	10,30064	10,30083	10,30096	10,30102
35	10,30064	10,30084	10,30096	10,30102
36	10,30065	10,30084	10,30097	10,30102
37	10,30065	10,30084	10,30097	10,30103
38	10,30066	10,30084	10,30097	10,30103
39	10,30066	10,30085	10,30097	10,30103
40	10,30066	10,30085	10,30097	10,30103
41	10,30067	10,30085	10,30097	10,30103
42	10,30067	10,30086	10,30097	10,30103
43	10,30067	10,30086	10,30098	10,30103
44	10,30068	10,30086	10,30098	10,30103
45	10,30068	10,30086	10,30098	10,30103
46	10,30068	10,30087	10,30098	10,30103
47	10,30069	10,30087	10,30098	10,30103
48	10,30069	10,30087	10,30098	10,30103
49	10,30069	10,30087	10,30098	10,30103
50	10,30070	10,30087	10,30098	10,30103
51	10,30070	10,30088	10,30099	10,30103
52	10,30071	10,30088	10,30099	10,30103
53	10,30071	10,30088	10,30099	10,30103
54	10,30071	10,30088	10,30099	10,30103
55	10,30072	10,30089	10,30099	10,30103
56	10,30072	10,30089	10,30099	10,30103
57	10,30072	10,30089	10,30099	10,30103
58	10,30073	10,30089	10,30099	10,30103
59	10,30073	10,30090	10,30100	10,30103
60	10,30073	10,30090	10,30100	10,30103