

Ageton's Tables 0°-6°

↓	0°		1°		2°		3°		4°		5°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	—	0.0	175814	6.6	145718	26.5	128120	59.6	115642	105.9	105970	165.6	60
1	353627	0.0	175097	6.8	145358	26.9	127880	60.2	115461	106.8	105826	166.7	59
2	323524	0.0	174391	7.1	145001	27.4	127641	60.9	115282	107.7	105683	167.8	58
3	305915	0.0	173696	7.3	144646	27.8	127403	61.6	115103	108.6	105539	168.9	57
4	293421	0.0	173012	7.5	144295	28.3	127166	62.2	114925	109.5	105397	170.0	56
5	283730	0.0	172339	7.8	143946	28.7	126931	62.9	114748	110.4	105254	171.1	55
6	275812	0.1	171676	8.0	143600	29.2	126697	63.6	114571	111.3	105113	172.3	54
7	269118	0.1	171023	8.2	143257	29.6	126465	64.3	114395	112.2	104971	173.4	53
8	263318	0.1	170379	8.5	142916	30.1	126233	65.0	114220	113.1	104830	174.5	52
9	258203	0.1	169745	8.7	142579	30.6	126003	65.7	114045	114.0	104690	175.7	51
10	253627	0.2	169121	9.0	142243	31.1	125774	66.4	113872	114.9	104550	176.8	50
11	249488	0.2	168505	9.3	141911	31.5	125546	67.1	113699	115.9	104411	178.0	49
12	245709	0.3	167897	9.5	141581	32.0	125320	67.8	113526	116.8	104272	179.1	48
13	242233	0.3	167298	9.8	141253	32.5	125094	68.5	113355	117.7	104133	180.3	47
14	239015	0.4	166708	10.1	140928	33.0	124870	69.2	113184	118.7	103995	181.4	46
15	236018	0.4	166125	10.3	140605	33.5	124647	69.9	113013	119.6	103857	182.6	45
16	233216	0.5	165550	10.6	140285	34.0	124425	70.6	112844	120.5	103720	183.7	44
17	230583	0.5	164982	10.9	139967	34.5	124205	71.3	112675	121.5	103583	184.9	43
18	228100	0.6	164422	11.2	139651	35.0	123985	72.1	112506	122.4	103447	186.1	42
19	225752	0.7	163869	11.5	139338	35.5	123766	72.8	112339	123.4	103311	187.2	41
20	223525	0.7	163322	11.8	139027	36.0	123549	73.5	112171	124.3	103175	188.4	40
21	221406	0.8	162783	12.1	138718	36.5	123333	74.3	112005	125.3	103040	189.6	39
22	219385	0.9	162250	12.4	138411	37.1	123117	75.0	111839	126.2	102905	190.8	38
23	217455	1.0	161724	12.7	138106	37.6	122903	75.8	111674	127.2	102771	192.0	37
24	215607	1.1	161204	13.0	137804	38.1	122690	76.5	111510	128.2	102637	193.2	36
25	213834	1.1	160690	13.3	137503	38.6	122478	77.3	111346	129.2	102504	194.4	35
26	212130	1.2	160182	13.6	137205	39.2	122267	78.0	111183	130.1	102371	195.6	34
27	210491	1.3	159680	13.9	136909	39.7	122057	78.8	111020	131.1	102238	196.8	33
28	208912	1.4	159184	14.2	136615	40.3	121848	79.5	110858	132.1	102106	198.0	32
29	207388	1.5	158693	14.6	136322	40.8	121640	80.3	110696	133.1	101974	199.2	31
30	205916	1.7	158208	14.9	136032	41.4	121432	81.1	110536	134.1	101843	200.4	30
31	204492	1.8	157728	15.2	135744	41.9	121226	81.9	110375	135.1	101712	201.6	29
32	203113	1.9	157254	15.6	135457	42.5	121021	82.6	110216	136.1	101581	202.8	28
33	201777	2.0	156784	15.9	135173	43.0	120817	83.4	110057	137.1	101451	204.1	27
34	200480	2.1	156320	16.2	134890	43.6	120614	84.2	109898	138.1	101321	205.3	26
35	199221	2.3	155861	16.6	134609	44.2	120412	85.0	109740	139.1	101192	206.5	25
36	197998	2.4	155406	16.9	134330	44.7	120211	85.8	109583	140.1	101063	207.8	24
37	196808	2.5	154956	17.3	134053	45.3	120010	86.6	109426	141.1	100934	209.0	23
38	195650	2.7	154511	17.6	133777	45.9	119811	87.4	109270	142.2	100806	210.3	22
39	194522	2.8	154070	18.0	133503	46.5	119612	88.2	109115	143.2	100678	211.5	21
40	193422	2.9	153634	18.4	133231	47.1	119415	89.0	108960	144.2	100550	212.8	20
41	192350	3.1	153201	18.7	132961	47.6	119218	89.8	108805	145.2	100423	214.0	19
42	191304	3.2	152774	19.1	132692	48.2	119022	90.6	108651	146.3	100296	215.3	18
43	190282	3.4	152350	19.5	132425	48.8	118827	91.4	108498	147.3	100170	216.5	17
44	189283	3.6	151931	19.9	132159	49.4	118633	92.3	108345	148.4	100044	217.8	16
45	188307	3.7	151515	20.3	131896	50.0	118440	93.1	108193	149.4	99918	219.1	15
46	187353	3.9	151104	20.6	131633	50.7	118248	93.9	108041	150.5	99793	220.3	14
47	186419	4.1	150696	21.0	131373	51.3	118056	94.7	107890	151.5	99668	221.6	13
48	185505	4.2	150292	21.4	131114	51.9	117866	95.6	107739	152.6	99544	222.9	12
49	184609	4.4	149892	21.8	130856	52.5	117676	96.4	107589	153.6	99419	224.2	11
50	183732	4.6	149496	22.2	130600	53.1	117487	97.3	107439	154.7	99296	225.5	10
51	182872	4.8	149103	22.6	130346	53.7	117299	98.1	107290	155.8	99172	226.8	9
52	182029	5.0	148713	23.1	130093	54.4	117112	99.0	107141	156.9	99049	228.1	8
53	181202	5.2	148327	23.5	129841	55.0	116925	99.8	106993	157.9	98926	229.4	7
54	180390	5.4	147945	23.9	129591	55.7	116739	100.7	106846	159.0	98804	230.7	6
55	179593	5.6	147566	24.3	129342	56.3	116554	101.6	106699	160.1	98682	232.0	5
56	178811	5.8	147190	24.7	129095	56.9	116370	102.4	106552	161.2	98560	233.3	4
57	178042	6.0	146817	25.2	128849	57.6	116187	103.3	106406	162.3	98439	234.6	3
58	177287	6.2	146448	25.6	128605	58.2	116004	104.2	106260	163.4	98318	235.9	2
59	176544	6.4	146081	26.0	128362	58.9	115823	105.0	106115	164.5	98197	237.2	1
60	175814	6.6	145718	26.5	128120	59.6	115642	105.9	105970	165.6	98077	238.6	0

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^{\wedge}5 * \log (1 / \sin \alpha)$$

$$B(\alpha) = 10^{\wedge}5 * \log (1 / \cos \alpha)$$

Ageton's Tables 6°-12°

↓	6°		7°		8°		9°		10°		11°		↑
	A	B	A	B	A	B	A	B	A	B	A	B	
0	98077	238.6	91411	324.9	85644	424.7	80567	538.0	76033	664.9	71940	805.3	60
1	97957	239.9	91308	326.5	85555	426.5	80487	540.0	75961	667.1	71875	807.8	59
2	97837	241.2	91205	328.0	85465	428.3	80408	542.0	75890	669.3	71810	810.3	58
3	97717	242.6	91103	329.6	85376	430.1	80328	544.0	75819	671.6	71746	812.7	57
4	97598	243.9	91001	331.2	85286	431.9	80249	546.0	75747	673.8	71681	815.2	56
5	97480	245.3	90899	332.7	85197	433.6	80170	548.1	75676	676.0	71616	817.7	55
6	97361	246.6	90798	334.3	85109	435.4	80091	550.1	75605	678.3	71552	820.1	54
7	97243	248.0	90696	335.9	85020	437.2	80012	552.1	75534	680.5	71488	822.6	53
8	97126	249.3	90595	337.5	84931	439.0	79933	554.1	75464	682.8	71423	825.1	52
9	97008	250.7	90494	339.0	84843	440.9	79855	556.2	75393	685.1	71359	827.6	51
10	96891	252.0	90394	340.6	84755	442.7	79777	558.2	75323	687.3	71295	830.1	50
11	96774	253.4	90293	342.2	84667	444.5	79698	560.2	75252	689.6	71231	832.6	49
12	96658	254.8	90193	343.8	84579	446.3	79620	562.3	75182	691.9	71167	835.1	48
13	96542	256.1	90093	345.4	84492	448.1	79542	564.3	75112	694.1	71104	837.6	47
14	96426	257.5	89994	347.0	84404	449.9	79465	566.4	75042	696.4	71040	840.1	46
15	96310	258.9	89894	348.6	84317	451.8	79387	568.4	74972	698.7	70976	842.6	45
16	96195	260.3	89795	350.2	84230	453.6	79309	570.5	74902	701.0	70913	845.1	44
17	96080	261.7	89696	351.8	84143	455.4	79232	572.6	74832	703.3	70850	847.6	43
18	95966	263.1	89598	353.5	84056	457.3	79155	574.6	74763	705.6	70786	850.2	42
19	95851	264.5	89499	355.1	83970	459.1	79078	576.7	74693	707.9	70723	852.7	41
20	95738	265.9	89401	356.7	83884	461.0	79001	578.8	74624	710.2	70660	855.2	40
21	95624	267.3	89303	358.3	83797	462.8	78924	580.9	74555	712.5	70597	857.8	39
22	95510	268.7	89205	360.0	83711	464.7	78847	582.9	74486	714.8	70534	860.3	38
23	95397	270.1	89107	361.6	83626	466.6	78771	585.0	74417	717.1	70471	862.8	37
24	95285	271.5	89010	363.2	83540	468.4	78694	587.1	74348	719.4	70409	865.4	36
25	95172	272.9	88913	364.9	83455	470.3	78618	589.2	74279	721.7	70346	867.9	35
26	95060	274.3	88816	366.5	83369	472.2	78542	591.3	74210	724.1	70284	870.5	34
27	94948	275.8	88719	368.2	83284	474.0	78466	593.4	74142	726.4	70221	873.0	33
28	94836	277.2	88623	369.8	83199	475.9	78390	595.5	74073	728.7	70159	875.6	32
29	94725	278.6	88526	371.5	83114	477.8	78315	597.6	74005	731.0	70097	878.2	31
30	94614	280.1	88430	373.1	83030	479.7	78239	599.7	73937	733.4	70034	880.7	30
31	94503	281.5	88334	374.8	82945	481.6	78164	601.8	73869	735.7	69972	883.3	29
32	94393	283.0	88239	376.5	82861	483.5	78088	604.0	73801	738.1	69910	885.9	28
33	94283	284.4	88143	378.1	82777	485.4	78013	606.1	73733	740.4	69849	888.5	27
34	94173	285.9	88048	379.8	82693	487.3	77938	608.2	73665	742.8	69787	891.0	26
35	94063	287.3	87953	381.5	82609	489.2	77863	610.3	73597	745.1	69725	893.6	25
36	93954	288.8	87858	383.2	82526	491.1	77789	612.5	73530	747.5	69664	896.2	24
37	93845	290.2	87764	384.9	82442	493.0	77714	614.6	73462	749.9	69602	898.8	23
38	93736	291.7	87669	386.6	82359	494.9	77639	616.8	73395	752.2	69541	901.4	22
39	93628	293.2	87575	388.3	82276	496.8	77565	618.9	73328	754.6	69479	904.0	21
40	93519	294.7	87481	390.0	82193	498.7	77491	621.1	73261	757.0	69418	906.6	20
41	93411	296.1	87388	391.7	82110	500.7	77417	623.2	73194	759.4	69357	909.2	19
42	93304	297.6	87294	393.4	82027	502.6	77343	625.4	73127	761.8	69296	911.8	18
43	93196	299.1	87201	395.1	81945	504.5	77269	627.5	73060	764.1	69235	914.5	17
44	93089	300.6	87108	396.8	81863	506.5	77195	629.7	72993	766.5	69174	917.1	16
45	92982	302.1	87015	398.5	81780	508.4	77122	631.9	72927	768.9	69113	919.7	15
46	92876	303.6	86922	400.2	81698	510.4	77048	634.0	72860	771.3	69053	922.3	14
47	92769	305.1	86829	402.0	81617	512.3	76975	636.2	72794	773.7	68992	925.0	13
48	92663	306.6	86737	403.7	81535	514.3	76902	638.4	72727	776.1	68932	927.6	12
49	92558	308.1	86645	405.4	81453	516.2	76829	640.6	72661	778.6	68871	930.3	11
50	92452	309.6	86553	407.2	81372	518.2	76756	642.8	72595	781.0	68811	932.9	10
51	92347	311.1	86461	408.9	81291	520.2	76683	645.0	72529	783.4	68750	935.5	9
52	92242	312.6	86370	410.6	81210	522.1	76610	647.2	72463	785.8	68690	938.2	8
53	92137	314.2	86278	412.4	81129	524.1	76538	649.4	72398	788.2	68630	940.9	7
54	92032	315.7	86187	414.1	81048	526.1	76465	651.6	72332	790.7	68570	943.5	6
55	91928	317.2	86096	415.9	80967	528.0	76393	653.8	72266	793.1	68510	946.2	5
56	91824	318.8	86006	417.7	80887	530.0	76321	656.0	72201	795.6	68451	948.9	4
57	91720	320.3	85915	419.4	80807	532.0	76248	658.2	72136	798.0	68391	951.5	3
58	91617	321.8	85825	421.2	80727	534.0	76177	660.4	72070	800.4	68331	954.2	2
59	91514	323.4	85734	422.9	80647	536.0	76105	662.6	72005	802.9	68272	956.9	1
60	91411	324.9	85644	424.7	80567	538.0	76033	664.9	71940	805.3	68212	959.6	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	173°		172°		171°		170°		169°		168°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^5 * \log (1 / \sin \alpha)$$

$$B(\alpha) = 10^5 * \log (1 / \cos \alpha)$$

Ageton's Tables 12°-18°

↓	12°		13°		14°		15°		16°		17°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	68212	959.6	64791	1127.6	61632	1309.6	58700	1505.6	55966	1715.8	53406	1940.4	60
1	68153	962.2	64737	1130.5	61582	1312.7	58653	1509.0	55922	1719.5	53365	1944.2	59
2	68093	964.9	64682	1133.4	61531	1315.9	58606	1512.4	55878	1723.1	53324	1948.1	58
3	68034	967.6	64627	1136.4	61481	1319.1	58559	1515.8	55834	1726.7	53283	1952.0	57
4	67975	970.3	64573	1139.3	61430	1322.2	58512	1519.2	55790	1730.4	53242	1955.8	56
5	67916	973.0	64519	1142.2	61380	1325.4	58465	1522.6	55747	1734.0	53200	1959.7	55
6	67857	975.7	64464	1145.2	61330	1328.6	58418	1526.0	55703	1737.6	53159	1963.6	54
7	67798	978.5	64410	1148.1	61279	1331.7	58372	1529.4	55659	1741.3	53118	1967.5	53
8	67739	981.2	64356	1151.1	61229	1334.9	58325	1532.8	55615	1744.9	53077	1971.4	52
9	67681	983.9	64302	1154.0	61179	1338.1	58278	1536.2	55572	1748.6	53036	1975.3	51
10	67622	986.6	64248	1157.0	61129	1341.3	58232	1539.7	55528	1752.3	52995	1979.2	50
11	67563	989.3	64194	1159.9	61079	1344.5	58185	1543.1	55484	1755.9	52955	1983.1	49
12	67505	992.1	64140	1162.9	61029	1347.7	58139	1546.5	55441	1759.6	52914	1987.0	48
13	67447	994.8	64086	1165.8	60979	1350.9	58092	1550.0	55398	1763.3	52873	1990.9	47
14	67388	997.5	64032	1168.8	60929	1354.1	58046	1553.4	55354	1766.9	52832	1994.8	46
15	67330	1000.3	63978	1171.8	60879	1357.3	57999	1556.8	55311	1770.6	52791	1998.8	45
16	67272	1003.0	63925	1174.8	60830	1360.5	57953	1560.3	55267	1774.3	52751	2002.7	44
17	67214	1005.8	63871	1177.7	60780	1363.7	57907	1563.7	55224	1778.0	52710	2006.6	43
18	67156	1008.5	63818	1180.7	60730	1366.9	57860	1567.2	55181	1781.7	52670	2010.5	42
19	67098	1011.3	63764	1183.7	60681	1370.1	57814	1570.6	55138	1785.4	52629	2014.5	41
20	67040	1014.0	63711	1186.7	60631	1373.4	57768	1574.1	55095	1789.1	52589	2018.4	40
21	66982	1016.8	63658	1189.7	60582	1376.6	57722	1577.6	55052	1792.8	52548	2022.4	39
22	66925	1019.6	63605	1192.7	60533	1379.8	57676	1581.0	55008	1796.5	52508	2026.3	38
23	66867	1022.3	63551	1195.7	60483	1383.1	57630	1584.5	54965	1800.2	52467	2030.3	37
24	66810	1025.1	63498	1198.7	60434	1386.3	57584	1588.0	54923	1803.9	52427	2034.2	36
25	66752	1027.9	63445	1201.7	60385	1389.6	57539	1591.5	54880	1807.6	52387	2038.2	35
26	66695	1030.7	63392	1204.7	60336	1392.8	57493	1595.0	54837	1811.4	52346	2042.1	34
27	66638	1033.5	63340	1207.8	60287	1396.1	57447	1598.5	54794	1815.1	52306	2046.1	33
28	66580	1036.3	63287	1210.8	60238	1399.3	57401	1601.9	54751	1818.8	52266	2050.1	32
29	66523	1039.0	63234	1213.8	60189	1402.6	57356	1605.4	54708	1822.6	52226	2054.1	31
30	66466	1041.8	63181	1216.8	60140	1405.8	57310	1608.9	54666	1826.3	52186	2058.0	30
31	66409	1044.7	63129	1219.9	60091	1409.1	57265	1612.5	54623	1830.0	52146	2062.0	29
32	66353	1047.5	63076	1222.9	60042	1412.4	57219	1616.0	54581	1833.8	52106	2066.0	28
33	66296	1050.3	63024	1226.0	59994	1415.7	57174	1619.5	54538	1837.5	52066	2070.0	27
34	66239	1053.1	62972	1229.0	59945	1418.9	57128	1623.0	54496	1841.3	52026	2074.0	26
35	66182	1055.9	62919	1232.1	59897	1422.2	57083	1626.5	54453	1845.1	51986	2078.0	25
36	66126	1058.7	62867	1235.1	59848	1425.5	57038	1630.0	54411	1848.8	51946	2082.0	24
37	66069	1061.5	62815	1238.2	59800	1428.8	56992	1633.6	54368	1852.6	51906	2086.0	23
38	66013	1064.4	62763	1241.2	59751	1432.1	56947	1637.1	54326	1856.4	51867	2090.0	22
39	65957	1067.2	62711	1244.3	59703	1435.4	56902	1640.6	54284	1860.1	51827	2094.1	21
40	65900	1070.0	62659	1247.4	59654	1438.7	56857	1644.2	54242	1863.9	51787	2098.1	20
41	65844	1072.9	62607	1250.4	59606	1442.0	56812	1647.7	54199	1867.7	51748	2102.1	19
42	65788	1075.7	62555	1253.5	59558	1445.3	56767	1651.3	54157	1871.5	51708	2106.1	18
43	65732	1078.6	62503	1256.6	59510	1448.6	56722	1654.8	54115	1875.3	51668	2110.2	17
44	65676	1081.4	62451	1259.7	59462	1452.0	56677	1658.4	54073	1879.1	51629	2114.2	16
45	65620	1084.3	62400	1262.8	59414	1455.3	56633	1661.9	54031	1882.9	51589	2118.3	15
46	65564	1087.2	62348	1265.9	59366	1458.6	56588	1665.5	53989	1886.7	51550	2122.3	14
47	65509	1090.0	62297	1269.0	59318	1461.9	56543	1669.1	53947	1890.5	51510	2126.3	13
48	65453	1092.9	62245	1272.1	59270	1465.3	56498	1672.7	53905	1894.3	51471	2130.4	12
49	65398	1095.8	62194	1275.2	59222	1468.6	56454	1676.2	53864	1898.1	51432	2134.5	11
50	65342	1098.6	62142	1278.3	59175	1472.0	56409	1679.8	53822	1901.9	51393	2138.5	10
51	65287	1101.5	62091	1281.4	59127	1475.3	56365	1683.4	53780	1905.8	51353	2142.6	9
52	65231	1104.4	62040	1284.5	59079	1478.7	56320	1687.0	53738	1909.6	51314	2146.7	8
53	65176	1107.3	61989	1287.6	59032	1482.0	56276	1690.6	53697	1913.4	51275	2150.7	7
54	65121	1110.2	61938	1290.8	58984	1485.4	56231	1694.2	53655	1917.3	51236	2154.8	6
55	65066	1113.1	61887	1293.9	58937	1488.7	56187	1697.8	53614	1921.1	51197	2158.9	5
56	65011	1116.0	61836	1297.0	58889	1492.1	56143	1701.4	53572	1925.0	51158	2163.0	4
57	64956	1118.9	61785	1300.2	58842	1495.5	56099	1705.0	53531	1928.8	51119	2167.1	3
58	64901	1121.8	61734	1303.3	58795	1498.9	56054	1708.6	53489	1932.7	51080	2171.2	2
59	64846	1124.7	61683	1306.4	58748	1502.2	56010	1712.2	53448	1936.5	51041	2175.3	1
60	64791	1127.6	61632	1309.6	58700	1505.6	55966	1715.8	53406	1940.4	51002	2179.4	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	167°		166°		165°		164°		163°		162°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^{4.5} * \log (1 / \sin \alpha)$$

$$B(\alpha) = 10^{4.5} * \log (1 / \cos \alpha)$$

Ageton's Tables 18°-24°

↓ °	18°		19°		20°		21°		22°		23°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	51002	2179.4	48736	2433.0	46595	2701.4	44567	2984.8	42642	3283.4	40812	3597.4	60
1	50963	2183.5	48699	2437.3	46560	2706.0	44534	2989.7	42611	3288.5	40782	3602.8	59
2	50924	2187.6	48662	2441.7	46525	2710.6	44501	2994.5	42580	3293.6	40753	3608.1	58
3	50885	2191.7	48626	2446.1	46491	2715.2	44468	2999.4	42549	3298.7	40723	3613.5	57
4	50847	2195.8	48589	2450.4	46456	2719.8	44436	3004.3	42518	3303.9	40693	3618.9	56
5	50808	2199.9	48553	2454.8	46422	2724.5	44403	3009.1	42486	3309.0	40664	3624.3	55
6	50769	2204.1	48516	2459.2	46387	2729.1	44370	3014.0	42455	3314.1	40634	3629.6	54
7	50731	2208.2	48480	2463.5	46353	2733.7	44337	3018.9	42424	3319.2	40604	3635.0	53
8	50692	2212.3	48443	2467.9	46318	2738.3	44305	3023.8	42393	3324.4	40575	3640.4	52
9	50653	2216.5	48407	2472.3	46284	2743.0	44272	3028.6	42362	3329.5	40545	3645.8	51
10	50615	2220.6	48371	2476.7	46249	2747.6	44239	3033.5	42331	3334.7	40516	3651.2	50
11	50576	2224.8	48334	2481.1	46215	2752.2	44207	3038.4	42300	3339.8	40486	3656.6	49
12	50538	2228.9	48298	2485.5	46181	2756.9	44174	3043.3	42269	3345.0	40457	3662.1	48
13	50500	2233.1	48262	2489.9	46146	2761.5	44142	3048.2	42238	3350.1	40427	3667.5	47
14	50461	2237.2	48226	2494.3	46112	2766.2	44109	3053.1	42207	3355.3	40398	3672.9	46
15	50423	2241.4	48189	2498.7	46078	2770.9	44077	3058.0	42176	3360.5	40368	3678.3	45
16	50385	2245.6	48153	2503.1	46043	2775.5	44044	3063.0	42145	3365.6	40339	3683.7	44
17	50346	2249.7	48117	2507.5	46009	2780.2	44012	3067.9	42115	3370.8	40310	3689.2	43
18	50308	2253.9	48081	2512.0	45975	2784.9	43979	3072.8	42084	3376.0	40280	3694.6	42
19	50270	2258.1	48045	2516.4	45941	2789.5	43947	3077.7	42053	3381.2	40251	3700.1	41
20	50232	2262.3	48009	2520.8	45907	2794.2	43915	3082.7	42022	3386.4	40222	3705.5	40
21	50194	2266.5	47973	2525.2	45873	2798.9	43882	3087.6	41992	3391.5	40192	3711.0	39
22	50156	2270.7	47937	2529.7	45839	2803.6	43850	3092.5	41961	3396.7	40163	3716.4	38
23	50118	2274.9	47901	2534.1	45805	2808.3	43818	3097.5	41930	3401.9	40134	3721.9	37
24	50080	2279.1	47865	2538.6	45771	2813.0	43785	3102.4	41899	3407.1	40105	3727.3	36
25	50042	2283.3	47829	2543.0	45737	2817.7	43753	3107.4	41869	3412.4	40076	3732.8	35
26	50004	2287.5	47793	2547.5	45703	2822.4	43721	3112.3	41838	3417.6	40046	3738.3	34
27	49966	2291.7	47758	2551.9	45669	2827.1	43689	3117.3	41808	3422.8	40017	3743.8	33
28	49928	2295.9	47722	2556.4	45635	2831.8	43657	3122.3	41777	3428.0	39988	3749.2	32
29	49890	2300.1	47686	2560.9	45601	2836.5	43625	3127.2	41747	3433.2	39959	3754.7	31
30	49852	2304.3	47650	2565.3	45567	2841.2	43592	3132.2	41716	3438.5	39930	3760.2	30
31	49815	2308.6	47615	2569.8	45534	2846.0	43560	3137.2	41686	3443.7	39901	3765.7	29
32	49777	2312.8	47579	2574.3	45500	2850.7	43528	3142.2	41655	3448.9	39872	3771.2	28
33	49739	2317.0	47544	2578.8	45466	2855.4	43496	3147.2	41625	3454.2	39843	3776.7	27
34	49702	2321.3	47508	2583.3	45433	2860.2	43464	3152.1	41594	3459.4	39814	3782.2	26
35	49664	2325.5	47473	2587.8	45399	2864.9	43432	3157.1	41564	3464.7	39785	3787.7	25
36	49626	2329.8	47437	2592.3	45365	2869.7	43401	3162.1	41533	3469.9	39756	3793.3	24
37	49589	2334.0	47402	2596.8	45332	2874.4	43369	3167.1	41503	3475.2	39727	3798.8	23
38	49551	2338.3	47366	2601.3	45298	2879.2	43337	3172.2	41473	3480.5	39698	3804.3	22
39	49514	2342.6	47331	2605.8	45265	2883.9	43305	3177.2	41443	3485.7	39669	3809.8	21
40	49477	2346.8	47295	2610.3	45231	2888.7	43273	3182.2	41412	3491.0	39641	3815.4	20
41	49439	2351.1	47260	2614.8	45198	2893.4	43241	3187.2	41382	3496.3	39612	3820.9	19
42	49402	2355.4	47225	2619.3	45164	2898.2	43210	3192.2	41352	3501.6	39583	3826.5	18
43	49365	2359.6	47189	2623.9	45131	2903.0	43178	3197.3	41322	3506.9	39554	3832.0	17
44	49327	2363.9	47154	2628.4	45097	2907.8	43146	3202.3	41291	3512.1	39526	3837.6	16
45	49290	2368.2	47119	2632.9	45064	2912.6	43114	3207.3	41261	3517.4	39497	3843.1	15
46	49253	2372.5	47084	2637.5	45031	2917.3	43083	3212.4	41231	3522.7	39468	3848.7	14
47	49216	2376.8	47049	2642.0	44997	2922.1	43051	3217.4	41201	3528.0	39439	3854.2	13
48	49179	2381.1	47014	2646.5	44964	2926.9	43020	3222.5	41171	3533.4	39411	3859.8	12
49	49142	2385.4	46979	2651.1	44931	2931.7	42988	3227.5	41141	3538.7	39382	3865.4	11
50	49104	2389.7	46944	2655.6	44898	2936.5	42956	3232.6	41111	3544.0	39354	3871.0	10
51	49067	2394.0	46908	2660.2	44864	2941.4	42925	3237.6	41081	3549.3	39325	3876.5	9
52	49030	2398.3	46874	2664.8	44831	2946.2	42893	3242.7	41051	3554.6	39296	3882.1	8
53	48993	2402.6	46839	2669.3	44798	2951.0	42862	3247.8	41021	3560.0	39268	3887.7	7
54	48957	2407.0	46804	2673.9	44765	2955.8	42831	3252.9	40991	3565.3	39239	3893.3	6
55	48920	2411.3	46769	2678.5	44732	2960.6	42799	3257.9	40961	3570.6	39211	3898.9	5
56	48883	2415.6	46734	2683.1	44699	2965.5	42768	3263.0	40931	3576.0	39182	3904.5	4
57	48846	2420.0	46699	2687.6	44666	2970.3	42736	3268.1	40902	3581.3	39154	3910.1	3
58	48809	2424.3	46664	2692.2	44633	2975.1	42705	3273.2	40872	3586.7	39125	3915.7	2
59	48773	2428.6	46630	2696.8	44600	2980.0	42674	3278.3	40842	3592.0	39097	3921.4	1
60	48736	2433.0	46595	2701.4	44567	2984.8	42642	3283.4	40812	3597.4	39069	3927.0	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	161°		160°		159°		158°		157°		156°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$A(\alpha) = 10^{\wedge}5 * \log (1 / \sin \alpha)$

$B(\alpha) = 10^{\wedge}5 * \log (1 / \cos \alpha)$

Ageton's Tables 30°-36°

↓	30°		31°		32°		33°		34°		35°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	30103	6246.9	28816	6693.4	27579	7158.0	26389	7640.9	25244	8142.6	24141	8663.5	60
1	30081	6254.2	28795	6701.0	27559	7165.8	26370	7649.1	25225	8151.1	24123	8672.4	59
2	30059	6261.5	28774	6708.6	27539	7173.7	26350	7657.3	25206	8159.6	24105	8681.3	58
3	30037	6268.8	28753	6716.2	27518	7181.7	26331	7665.5	25188	8168.2	24087	8690.1	57
4	30016	6276.2	28732	6723.8	27498	7189.6	26311	7673.7	25169	8176.7	24069	8699.0	56
5	29994	6283.5	28711	6731.5	27478	7197.5	26292	7681.9	25150	8185.3	24051	8707.8	55
6	29972	6290.8	28690	6739.1	27458	7205.4	26273	7690.2	25132	8193.8	24033	8716.7	54
7	29950	6298.1	28669	6746.7	27438	7213.3	26253	7698.4	25113	8202.4	24015	8725.6	53
8	29928	6305.4	28648	6754.3	27418	7221.3	26234	7706.7	25094	8210.9	23997	8734.5	52
9	29907	6312.8	28627	6762.0	27398	7229.2	26215	7714.9	25076	8219.5	23979	8743.4	51
10	29885	6320.1	28607	6769.6	27378	7237.1	26195	7723.2	25057	8228.1	23961	8752.3	50
11	29863	6327.5	28586	6777.2	27357	7245.1	26176	7731.4	25039	8236.6	23943	8761.2	49
12	29841	6334.8	28565	6784.9	27337	7253.0	26157	7739.7	25020	8245.2	23925	8770.1	48
13	29820	6342.2	28544	6792.5	27317	7261.0	26137	7748.0	25001	8253.8	23907	8779.0	47
14	29798	6349.5	28523	6800.2	27297	7269.0	26118	7756.2	24983	8262.4	23889	8787.9	46
15	29776	6356.9	28502	6807.9	27277	7276.9	26099	7764.5	24964	8271.0	23871	8796.9	45
16	29755	6364.3	28481	6815.5	27257	7284.9	26079	7772.8	24946	8279.6	23854	8805.8	44
17	29733	6371.6	28461	6823.2	27237	7292.9	26060	7781.1	24927	8288.2	23836	8814.7	43
18	29712	6379.0	28440	6830.9	27217	7300.9	26041	7789.4	24909	8296.8	23818	8823.7	42
19	29690	6386.4	28419	6838.6	27197	7308.9	26022	7797.7	24890	8305.4	23800	8832.6	41
20	29668	6393.8	28398	6846.3	27177	7316.9	26003	7806.0	24872	8314.1	23782	8841.6	40
21	29647	6401.2	28378	6854.0	27157	7324.9	25983	7814.3	24853	8322.7	23764	8850.5	39
22	29625	6408.6	28357	6861.7	27137	7332.9	25964	7822.6	24835	8331.3	23747	8859.5	38
23	29604	6416.0	28336	6869.4	27117	7340.9	25945	7830.9	24816	8340.0	23729	8868.5	37
24	29582	6423.4	28315	6877.1	27098	7348.9	25926	7839.3	24798	8348.6	23711	8877.4	36
25	29561	6430.8	28295	6884.8	27078	7356.9	25907	7847.6	24779	8357.3	23693	8886.4	35
26	29539	6438.2	28274	6892.5	27058	7364.9	25887	7855.9	24761	8365.9	23676	8895.4	34
27	29518	6445.7	28253	6900.2	27038	7373.0	25868	7864.3	24742	8374.6	23658	8904.4	33
28	29496	6453.1	28233	6907.9	27018	7381.0	25849	7872.6	24724	8383.3	23640	8913.4	32
29	29475	6460.5	28212	6915.7	26998	7389.0	25830	7881.0	24706	8391.9	23622	8922.4	31
30	29453	6468.0	28191	6923.4	26978	7397.1	25811	7889.3	24687	8400.6	23605	8931.4	30
31	29432	6475.4	28171	6931.2	26959	7405.1	25792	7897.7	24669	8409.3	23587	8940.4	29
32	29410	6482.9	28150	6938.9	26939	7413.2	25773	7906.1	24650	8418.0	23569	8949.4	28
33	29389	6490.3	28130	6946.7	26919	7421.2	25754	7914.4	24632	8426.7	23552	8958.5	27
34	29367	6497.8	28109	6954.4	26899	7429.3	25735	7922.8	24614	8435.4	23534	8967.5	26
35	29346	6505.2	28089	6962.2	26879	7437.4	25716	7931.2	24595	8444.1	23516	8976.5	25
36	29325	6512.7	28068	6970.0	26860	7445.5	25697	7939.6	24577	8452.8	23499	8985.6	24
37	29303	6520.2	28048	6977.7	26840	7453.5	25678	7948.0	24559	8461.5	23481	8994.6	23
38	29282	6527.7	28027	6985.5	26820	7461.6	25659	7956.4	24541	8470.3	23463	9003.7	22
39	29261	6535.1	28006	6993.3	26800	7469.7	25640	7964.8	24522	8479.0	23446	9012.7	21
40	29239	6542.6	27986	7001.1	26781	7477.8	25621	7973.2	24504	8487.7	23428	9021.8	20
41	29218	6550.1	27966	7008.9	26761	7485.9	25602	7981.6	24486	8496.5	23410	9030.9	19
42	29197	6557.6	27945	7016.7	26741	7494.0	25583	7990.1	24467	8505.2	23393	9039.9	18
43	29176	6565.1	27925	7024.5	26722	7502.1	25564	7998.5	24449	8514.0	23375	9049.0	17
44	29154	6572.6	27904	7032.3	26702	7510.3	25545	8006.9	24431	8522.7	23358	9058.1	16
45	29133	6580.1	27884	7040.1	26682	7518.4	25526	8015.4	24413	8531.5	23340	9067.2	15
46	29112	6587.7	27863	7047.9	26663	7526.5	25507	8023.8	24395	8540.2	23323	9076.3	14
47	29091	6595.2	27843	7055.8	26643	7534.6	25488	8032.3	24376	8549.0	23305	9085.4	13
48	29069	6602.7	27823	7063.6	26623	7542.8	25469	8040.7	24358	8557.8	23288	9094.5	12
49	29048	6610.2	27802	7071.4	26604	7550.9	25451	8049.2	24340	8566.6	23270	9103.6	11
50	29027	6617.8	27782	7079.3	26584	7559.1	25432	8057.6	24322	8575.4	23253	9112.7	10
51	29006	6625.3	27762	7087.1	26565	7567.2	25413	8066.1	24304	8584.2	23235	9121.9	9
52	28985	6632.9	27741	7095.0	26545	7575.4	25394	8074.6	24286	8593.0	23218	9131.0	8
53	28964	6640.4	27721	7102.8	26526	7583.6	25375	8083.1	24267	8601.8	23200	9140.1	7
54	28942	6648.0	27701	7110.7	26506	7591.7	25356	8091.5	24249	8610.6	23183	9149.3	6
55	28921	6655.5	27680	7118.5	26487	7599.9	25338	8100.0	24231	8619.4	23165	9158.4	5
56	28900	6663.1	27660	7126.4	26467	7608.1	25319	8108.5	24213	8628.2	23148	9167.6	4
57	28879	6670.7	27640	7134.3	26448	7616.3	25300	8117.0	24195	8637.0	23130	9176.7	3
58	28858	6678.3	27619	7142.2	26428	7624.5	25281	8125.5	24177	8645.9	23113	9185.9	2
59	28837	6685.9	27599	7150.1	26409	7632.7	25263	8134.1	24159	8654.7	23096	9195.1	1
60	28816	6693.4	27579	7158.0	26389	7640.9	25244	8142.6	24141	8663.5	23078	9204.2	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	149°		148°		147°		146°		145°		144°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^{.5} * \log (1 / \sin \alpha)$$

$$B(\alpha) = 10^{.5} * \log (1 / \cos \alpha)$$

Ageton's Tables 36°-42°

↓	36°		37°		38°		39°		40°		41°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	23078	9204.2	22054	9765.1	21066	10347	20113	10950	19193	11575	18306	12222	60
1	23061	9213.4	22037	9774.7	21050	10357	20097	10960	19178	11585	18291	12233	59
2	23043	9222.6	22020	9784.2	21033	10367	20082	10970	19163	11596	18277	12244	58
3	23026	9231.8	22003	9793.7	21017	10376	20066	10980	19148	11606	18262	12255	57
4	23009	9241.0	21987	9803.3	21001	10386	20050	10991	19133	11617	18248	12266	56
5	22991	9250.2	21970	9812.8	20985	10396	20035	11001	19118	11628	18233	12277	55
6	22974	9259.4	21953	9822.4	20969	10406	20019	11011	19103	11638	18219	12288	54
7	22957	9268.6	21937	9831.9	20953	10416	20004	11022	19088	11649	18204	12299	53
8	22939	9277.8	21920	9841.5	20937	10426	19988	11032	19073	11660	18190	12310	52
9	22922	9287.1	21903	9851.0	20921	10436	19973	11042	19058	11670	18175	12321	51
10	22905	9296.3	21887	9860.6	20905	10446	19957	11052	19043	11681	18161	12332	50
11	22888	9305.5	21870	9870.2	20889	10456	19942	11063	19028	11692	18146	12343	49
12	22870	9314.8	21853	9879.8	20872	10466	19926	11073	19013	11702	18132	12354	48
13	22853	9324.0	21837	9889.4	20856	10476	19911	11083	18998	11713	18118	12365	47
14	22836	9333.3	21820	9899.0	20840	10486	19895	11094	18983	11724	18103	12376	46
15	22819	9342.5	21803	9908.6	20824	10496	19880	11104	18968	11734	18089	12387	45
16	22801	9351.8	21787	9918.2	20808	10505	19864	11114	18953	11745	18074	12399	44
17	22784	9361.1	21770	9927.8	20792	10515	19849	11125	18939	11756	18060	12410	43
18	22767	9370.4	21754	9937.4	20776	10525	19834	11135	18924	11766	18045	12421	42
19	22750	9379.6	21737	9947.1	20760	10535	19818	11145	18909	11777	18031	12432	41
20	22732	9388.9	21720	9956.7	20744	10545	19803	11156	18894	11788	18017	12443	40
21	22715	9398.2	21704	9966.3	20728	10555	19787	11166	18879	11799	18002	12454	39
22	22698	9407.5	21687	9976.0	20712	10565	19772	11176	18864	11809	17988	12465	38
23	22681	9416.8	21671	9985.6	20696	10575	19756	11187	18849	11820	17974	12476	37
24	22664	9426.1	21654	9995.3	20681	10585	19741	11197	18834	11831	17959	12487	36
25	22647	9435.5	21638	10005	20665	10595	19726	11207	18820	11842	17945	12499	35
26	22630	9444.8	21621	10015	20649	10605	19710	11218	18805	11852	17931	12510	34
27	22613	9454.1	21605	10024	20633	10615	19695	11228	18790	11863	17916	12521	33
28	22595	9463.4	21588	10034	20617	10625	19680	11239	18775	11874	17902	12532	32
29	22578	9472.8	21572	10044	20601	10636	19664	11249	18760	11885	17888	12543	31
30	22561	9482.1	21555	10053	20585	10646	19649	11259	18746	11895	17874	12554	30
31	22544	9491.5	21539	10063	20569	10656	19634	11270	18731	11906	17859	12566	29
32	22527	9500.8	21522	10073	20553	10666	19618	11280	18716	11917	17845	12577	28
33	22510	9510.2	21506	10082	20537	10676	19603	11291	18701	11928	17831	12588	27
34	22493	9519.6	21490	10092	20522	10686	19588	11301	18686	11939	17816	12599	26
35	22476	9528.9	21473	10102	20506	10696	19572	11312	18672	11949	17802	12610	25
36	22459	9538.3	21457	10112	20490	10706	19557	11322	18657	11960	17788	12622	24
37	22442	9547.7	21440	10121	20474	10716	19542	11332	18642	11971	17774	12633	23
38	22425	9557.1	21424	10131	20458	10726	19527	11343	18628	11982	17760	12644	22
39	22408	9566.5	21408	10141	20442	10736	19511	11353	18613	11993	17745	12655	21
40	22391	9575.9	21391	10151	20427	10746	19496	11364	18598	12004	17731	12666	20
41	22374	9585.3	21375	10160	20411	10756	19481	11374	18583	12015	17717	12678	19
42	22357	9594.7	21358	10170	20395	10767	19466	11385	18569	12025	17703	12689	18
43	22340	9604.1	21342	10180	20379	10777	19450	11395	18554	12036	17689	12700	17
44	22323	9613.6	21326	10190	20364	10787	19435	11406	18539	12047	17674	12712	16
45	22306	9623.0	21309	10199	20348	10797	19420	11416	18525	12058	17660	12723	15
46	22289	9632.4	21293	10209	20332	10807	19405	11427	18510	12069	17646	12734	14
47	22272	9641.9	21277	10219	20316	10817	19390	11437	18495	12080	17632	12745	13
48	22256	9651.3	21261	10229	20301	10827	19375	11448	18481	12091	17618	12757	12
49	22239	9660.8	21244	10239	20285	10838	19359	11458	18466	12102	17604	12768	11
50	22222	9670.2	21228	10248	20269	10848	19344	11469	18451	12113	17590	12779	10
51	22205	9679.7	21212	10258	20254	10858	19329	11479	18437	12123	17576	12791	9
52	22188	9689.2	21195	10268	20238	10868	19314	11490	18422	12134	17561	12802	8
53	22171	9698.6	21179	10278	20222	10878	19299	11501	18408	12145	17547	12813	7
54	22154	9708.1	21163	10288	20207	10888	19284	11511	18393	12156	17533	12825	6
55	22138	9717.6	21147	10298	20191	10899	19269	11522	18378	12167	17519	12836	5
56	22121	9727.1	21131	10307	20175	10909	19254	11532	18364	12178	17505	12847	4
57	22104	9736.6	21114	10317	20160	10919	19238	11543	18349	12189	17491	12859	3
58	22087	9746.1	21098	10327	20144	10929	19223	11553	18335	12200	17477	12870	2
59	22070	9755.6	21082	10337	20128	10940	19208	11564	18320	12211	17463	12881	1
60	22054	9765.1	21066	10347	20113	10950	19193	11575	18306	12222	17449	12893	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	143°		142°		141°		140°		139°		138°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^{.5} * \log (1 / \sin \alpha)$$

$$B(\alpha) = 10^{.5} * \log (1 / \cos \alpha)$$

Ageton's Tables 42°-48°

↓ ' 0	42°		43°		44°		45°		46°		47°		
	A	B	A	B	A	B	A	B	A	B	A	B	
1	17435	12904	16608	13599	15810	14319	15039	15064	14294	15836	13575	16635	59
2	17421	12915	16595	13611	15797	14331	15026	15077	14282	15849	13564	16649	58
3	17407	12927	16581	13623	15784	14343	15014	15089	14270	15862	13552	16662	57
4	17393	12938	16568	13634	15771	14355	15001	15102	14258	15875	13540	16676	56
5	17379	12950	16554	13646	15758	14368	14988	15115	14246	15888	13528	16690	55
6	17365	12961	16541	13658	15745	14380	14976	15127	14234	15902	13517	16703	54
7	17351	12972	16527	13670	15731	14392	14963	15140	14221	15915	13505	16717	53
8	17337	12984	16514	13682	15718	14404	14951	15153	14209	15928	13493	16730	52
9	17323	12995	16500	13694	15705	14417	14938	15165	14197	15941	13482	16744	51
10	17309	13007	16487	13705	15692	14429	14926	15178	14185	15954	13470	16758	50
11	17295	13018	16473	13717	15679	14441	14913	15191	14173	15967	13458	16771	49
12	17281	13030	16460	13729	15666	14453	14900	15204	14161	15980	13446	16785	48
13	17267	13041	16446	13741	15653	14466	14888	15216	14149	15994	13435	16798	47
14	17253	13053	16433	13753	15640	14478	14875	15229	14136	16007	13423	16812	46
15	17239	13064	16419	13765	15627	14490	14863	15242	14124	16020	13411	16826	45
16	17225	13076	16406	13777	15615	14503	14850	15255	14112	16033	13400	16839	44
17	17212	13087	16392	13789	15602	14515	14838	15267	14100	16046	13388	16853	43
18	17198	13098	16379	13800	15589	14527	14825	15280	14088	16060	13376	16867	42
19	17184	13110	16366	13812	15576	14540	14813	15293	14076	16073	13365	16880	41
20	17170	13121	16352	13824	15563	14552	14800	15306	14064	16086	13353	16894	40
21	17156	13133	16339	13836	15550	14564	14788	15318	14052	16099	13341	16908	39
22	17142	13145	16326	13848	15537	14577	14775	15331	14040	16113	13330	16922	38
23	17128	13156	16312	13860	15524	14589	14763	15344	14028	16126	13318	16935	37
24	17115	13168	16299	13872	15511	14601	14750	15357	14016	16139	13306	16949	36
25	17101	13179	16285	13884	15498	14614	14738	15370	14004	16152	13295	16963	35
26	17087	13191	16272	13896	15485	14626	14726	15382	13992	16166	13283	16977	34
27	17073	13202	16259	13908	15472	14639	14713	15395	13980	16179	13272	16990	33
28	17059	13214	16245	13920	15460	14651	14701	15408	13968	16192	13260	17004	32
29	17045	13225	16232	13932	15447	14663	14688	15421	13956	16205	13248	17018	31
30	17032	13237	16219	13944	15434	14676	14676	15434	13944	16219	13237	17032	30
31	17018	13248	16205	13956	15421	14688	14663	15447	13932	16232	13225	17045	29
32	17004	13260	16192	13968	15408	14701	14651	15460	13920	16245	13214	17059	28
33	16990	13272	16179	13980	15395	14713	14639	15472	13908	16259	13202	17073	27
34	16977	13283	16166	13992	15382	14726	14626	15485	13896	16272	13191	17087	26
35	16963	13295	16152	14004	15370	14738	14614	15498	13884	16285	13179	17101	25
36	16949	13306	16139	14016	15357	14750	14601	15511	13872	16299	13168	17115	24
37	16935	13318	16126	14028	15344	14763	14589	15524	13860	16312	13156	17128	23
38	16922	13330	16113	14040	15331	14775	14577	15537	13848	16326	13145	17142	22
39	16908	13341	16099	14052	15318	14788	14564	15550	13836	16339	13133	17156	21
40	16894	13353	16086	14064	15306	14800	14552	15563	13824	16352	13121	17170	20
41	16880	13365	16073	14076	15293	14813	14540	15576	13812	16366	13110	17184	19
42	16867	13376	16060	14088	15280	14825	14527	15589	13800	16379	13098	17198	18
43	16853	13388	16046	14100	15267	14838	14515	15602	13789	16392	13087	17212	17
44	16839	13400	16033	14112	15255	14850	14503	15615	13777	16406	13076	17225	16
45	16826	13411	16020	14124	15242	14863	14490	15627	13765	16419	13064	17239	15
46	16812	13423	16007	14136	15229	14875	14478	15640	13753	16433	13053	17253	14
47	16798	13435	15994	14149	15216	14888	14466	15653	13741	16446	13041	17267	13
48	16785	13446	15980	14161	15204	14900	14453	15666	13729	16460	13030	17281	12
49	16771	13458	15967	14173	15191	14913	14441	15679	13717	16473	13018	17295	11
50	16758	13470	15954	14185	15178	14926	14429	15692	13705	16487	13007	17309	10
51	16744	13482	15941	14197	15165	14938	14417	15705	13694	16500	12995	17323	9
52	16730	13493	15928	14209	15153	14951	14404	15718	13682	16514	12984	17337	8
53	16717	13505	15915	14221	15140	14963	14392	15731	13670	16527	12972	17351	7
54	16703	13517	15902	14234	15127	14976	14380	15745	13658	16541	12961	17365	6
55	16690	13528	15888	14246	15115	14988	14368	15758	13646	16554	12950	17379	5
56	16676	13540	15875	14258	15102	15001	14355	15771	13634	16568	12938	17393	4
57	16662	13552	15862	14270	15089	15014	14343	15784	13623	16581	12927	17407	3
58	16649	13564	15849	14282	15077	15026	14331	15797	13611	16595	12915	17421	2
59	16635	13575	15836	14294	15064	15039	14319	15810	13599	16608	12904	17435	1
60	16622	13587	15823	14307	15051	15051	14307	15823	13587	16622	12893	17449	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	137°		136°		135°		134°		133°		132°		
When meridian angle, t, is greater than 90°, take K from bottom of table.													
Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.													
$A(\alpha) = 10^{.5} * \log(1 / \sin \alpha)$							$B(\alpha) = 10^{.5} * \log(1 / \cos \alpha)$						

Ageton's Tables 48°-54°

↓	48°		49°		50°		51°		52°		53°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	12893	17449	12222	18306	11575	19193	10950	20113	10347	21066	9765.1	22054	60
1	12881	17463	12211	18320	11564	19208	10940	20128	10337	21082	9755.6	22070	59
2	12870	17477	12200	18335	11553	19223	10929	20144	10327	21098	9746.1	22087	58
3	12859	17491	12189	18349	11543	19238	10919	20160	10317	21114	9736.6	22104	57
4	12847	17505	12178	18364	11532	19254	10909	20175	10307	21131	9727.1	22121	56
5	12836	17519	12167	18378	11522	19269	10899	20191	10298	21147	9717.6	22138	55
6	12825	17533	12156	18393	11511	19284	10888	20207	10288	21163	9708.1	22154	54
7	12813	17547	12145	18408	11501	19299	10878	20222	10278	21179	9698.6	22171	53
8	12802	17561	12134	18422	11490	19314	10868	20238	10268	21195	9689.2	22188	52
9	12791	17576	12123	18437	11479	19329	10858	20254	10258	21212	9679.7	22205	51
10	12779	17590	12113	18451	11469	19344	10848	20269	10248	21228	9670.2	22222	50
11	12768	17604	12102	18466	11458	19359	10838	20285	10239	21244	9660.8	22239	49
12	12757	17618	12091	18481	11448	19375	10827	20301	10229	21261	9651.3	22256	48
13	12745	17632	12080	18495	11437	19390	10817	20316	10219	21277	9641.9	22272	47
14	12734	17646	12069	18510	11427	19405	10807	20332	10209	21293	9632.4	22289	46
15	12723	17660	12058	18525	11416	19420	10797	20348	10199	21309	9623.0	22306	45
16	12712	17674	12047	18539	11406	19435	10787	20364	10190	21326	9613.6	22323	44
17	12700	17689	12036	18554	11395	19450	10777	20379	10180	21342	9604.1	22340	43
18	12689	17703	12025	18569	11385	19466	10767	20395	10170	21358	9594.7	22357	42
19	12678	17717	12015	18583	11374	19481	10756	20411	10160	21375	9585.3	22374	41
20	12666	17731	12004	18598	11364	19496	10746	20427	10151	21391	9575.9	22391	40
21	12655	17745	11993	18613	11353	19511	10736	20442	10141	21408	9566.5	22408	39
22	12644	17760	11982	18628	11343	19527	10726	20458	10131	21424	9557.1	22425	38
23	12633	17774	11971	18642	11332	19542	10716	20474	10121	21440	9547.7	22442	37
24	12622	17788	11960	18657	11322	19557	10706	20490	10112	21457	9538.3	22459	36
25	12610	17802	11949	18672	11312	19572	10696	20506	10102	21473	9528.9	22476	35
26	12599	17816	11939	18686	11301	19588	10686	20522	10092	21490	9519.6	22493	34
27	12588	17831	11928	18701	11291	19603	10676	20537	10082	21506	9510.2	22510	33
28	12577	17845	11917	18716	11280	19618	10666	20553	10073	21522	9500.8	22527	32
29	12566	17859	11906	18731	11270	19634	10656	20569	10063	21539	9491.5	22544	31
30	12554	17874	11895	18746	11259	19649	10646	20585	10053	21555	9482.1	22561	30
31	12543	17888	11885	18760	11249	19664	10636	20601	10044	21572	9472.8	22578	29
32	12532	17902	11874	18775	11239	19680	10625	20617	10034	21588	9463.4	22595	28
33	12521	17916	11863	18790	11228	19695	10615	20633	10024	21605	9454.1	22613	27
34	12510	17931	11852	18805	11218	19710	10605	20649	10015	21621	9444.8	22630	26
35	12499	17945	11842	18820	11207	19726	10595	20665	10005	21638	9435.5	22647	25
36	12487	17959	11831	18834	11197	19741	10585	20681	9995.3	21654	9426.1	22664	24
37	12476	17974	11820	18849	11187	19756	10575	20696	9985.6	21671	9416.8	22681	23
38	12465	17988	11809	18864	11176	19772	10565	20712	9976.0	21687	9407.5	22698	22
39	12454	18002	11799	18879	11166	19787	10555	20728	9966.3	21704	9398.2	22715	21
40	12443	18017	11788	18894	11156	19803	10545	20744	9956.7	21720	9388.9	22732	20
41	12432	18031	11777	18909	11145	19818	10535	20760	9947.1	21737	9379.6	22750	19
42	12421	18045	11766	18924	11135	19834	10525	20776	9937.4	21754	9370.4	22767	18
43	12410	18060	11756	18939	11125	19849	10515	20792	9927.8	21770	9361.1	22784	17
44	12399	18074	11745	18953	11114	19864	10505	20808	9918.2	21787	9351.8	22801	16
45	12387	18089	11734	18968	11104	19880	10496	20824	9908.6	21803	9342.5	22819	15
46	12376	18103	11724	18983	11094	19895	10486	20840	9899.0	21820	9333.3	22836	14
47	12365	18118	11713	18998	11083	19911	10476	20856	9889.4	21837	9324.0	22853	13
48	12354	18132	11702	19013	11073	19926	10466	20872	9879.8	21853	9314.8	22870	12
49	12343	18146	11692	19028	11063	19942	10456	20889	9870.2	21870	9305.5	22888	11
50	12332	18161	11681	19043	11052	19957	10446	20905	9860.6	21887	9296.3	22905	10
51	12321	18175	11670	19058	11042	19973	10436	20921	9851.0	21903	9287.1	22922	9
52	12310	18190	11660	19073	11032	19988	10426	20937	9841.5	21920	9277.8	22939	8
53	12299	18204	11649	19088	11022	20004	10416	20953	9831.9	21937	9268.6	22957	7
54	12288	18219	11638	19103	11011	20019	10406	20969	9822.4	21953	9259.4	22974	6
55	12277	18233	11628	19118	11001	20035	10396	20985	9812.8	21970	9250.2	22991	5
56	12266	18248	11617	19133	10991	20050	10386	21001	9803.3	21987	9241.0	23009	4
57	12255	18262	11606	19148	10980	20066	10376	21017	9793.7	22003	9231.8	23026	3
58	12244	18277	11596	19163	10970	20082	10367	21033	9784.2	22020	9222.6	23043	2
59	12233	18291	11585	19178	10960	20097	10357	21050	9774.7	22037	9213.4	23061	1
60	12222	18306	11575	19193	10950	20113	10347	21066	9765.1	22054	9204.2	23078	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	131°		130°		129°		128°		127°		126°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^{\wedge}5 * \log (1 / \sin \alpha)$$

$$B(\alpha) = 10^{\wedge}5 * \log (1 / \cos \alpha)$$

Ageton's Tables 60°-66°

↓	60°		61°		62°		63°		64°		65°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	6246.9	30103	5818.1	31443	5406.5	32839	5011.9	34295	4634.0	35816	4272.4	37405	60
1	6239.6	30125	5811.1	31466	5399.8	32863	5005.5	34320	4627.8	35842	4266.5	37432	59
2	6232.4	30147	5804.1	31488	5393.1	32887	4999.0	34345	4621.7	35868	4260.7	37459	58
3	6225.1	30169	5797.1	31511	5386.4	32910	4992.6	34370	4615.5	35894	4254.8	37487	57
4	6217.8	30191	5790.1	31534	5379.7	32934	4986.2	34395	4609.4	35920	4248.9	37514	56
5	6210.5	30213	5783.1	31557	5373.0	32958	4979.8	34420	4603.2	35946	4243.0	37541	55
6	6203.3	30235	5776.1	31580	5366.3	32982	4973.4	34444	4597.1	35972	4237.2	37568	54
7	6196.0	30257	5769.2	31603	5359.6	33006	4967.0	34469	4591.0	35998	4231.3	37595	53
8	6188.7	30279	5762.2	31626	5352.9	33030	4960.6	34494	4584.8	36024	4225.4	37623	52
9	6181.5	30301	5755.2	31649	5346.2	33054	4954.2	34519	4578.7	36050	4219.6	37650	51
10	6174.2	30323	5748.3	31672	5339.6	33078	4947.8	34544	4572.6	36076	4213.7	37677	50
11	6167.0	30345	5741.3	31695	5332.9	33101	4941.4	34569	4566.5	36102	4207.9	37704	49
12	6159.8	30367	5734.4	31717	5326.2	33125	4935.0	34594	4560.4	36128	4202.1	37732	48
13	6152.5	30389	5727.4	31740	5319.6	33149	4928.6	34619	4554.3	36154	4196.2	37759	47
14	6145.3	30411	5720.5	31763	5312.9	33173	4922.2	34644	4548.2	36180	4190.4	37786	46
15	6138.1	30433	5713.6	31787	5306.3	33197	4915.9	34669	4542.1	36206	4184.6	37814	45
16	6130.9	30455	5706.6	31810	5299.6	33221	4909.5	34694	4536.0	36233	4178.7	37841	44
17	6123.7	30477	5699.7	31833	5293.0	33245	4903.2	34719	4529.9	36259	4172.9	37869	43
18	6116.4	30499	5692.8	31856	5286.4	33269	4896.8	34745	4523.8	36285	4167.1	37896	42
19	6109.2	30521	5685.9	31879	5279.7	33294	4890.4	34770	4517.7	36311	4161.3	37924	41
20	6102.0	30544	5679.0	31902	5273.1	33318	4884.1	34795	4511.7	36338	4155.5	37951	40
21	6094.8	30566	5672.1	31925	5266.5	33342	4877.8	34820	4505.6	36364	4149.7	37979	39
22	6087.7	30588	5665.2	31948	5259.9	33366	4871.4	34845	4499.5	36390	4143.9	38006	38
23	6080.5	30610	5658.3	31971	5253.3	33390	4865.1	34870	4493.5	36417	4138.1	38034	37
24	6073.3	30632	5651.4	31994	5246.7	33414	4858.8	34896	4487.4	36443	4132.3	38061	36
25	6066.1	30655	5644.5	32018	5240.0	33438	4852.4	34921	4481.4	36469	4126.6	38089	35
26	6059.0	30677	5637.6	32041	5233.5	33463	4846.1	34946	4475.3	36496	4120.8	38117	34
27	6051.8	30699	5630.7	32064	5226.9	33487	4839.8	34971	4469.3	36522	4115.0	38144	33
28	6044.6	30721	5623.9	32087	5220.3	33511	4833.5	34997	4463.2	36549	4109.2	38172	32
29	6037.5	30744	5617.0	32110	5213.7	33535	4827.2	35022	4457.2	36575	4103.5	38200	31
30	6030.3	30766	5610.1	32134	5207.1	33559	4820.9	35047	4451.2	36602	4097.7	38227	30
31	6023.2	30788	5603.3	32157	5200.5	33584	4814.6	35073	4445.2	36628	4092.0	38255	29
32	6016.0	30811	5596.4	32180	5194.0	33608	4808.3	35098	4439.1	36655	4086.2	38283	28
33	6008.9	30833	5589.6	32204	5187.4	33632	4802.0	35123	4433.1	36681	4080.5	38311	27
34	6001.8	30856	5582.8	32227	5180.8	33657	4795.7	35149	4427.1	36708	4074.7	38338	26
35	5994.6	30878	5575.9	32250	5174.3	33681	4789.4	35174	4421.1	36734	4069.0	38366	25
36	5987.5	30900	5569.1	32274	5167.7	33705	4783.2	35200	4415.1	36761	4063.2	38394	24
37	5980.4	30923	5562.3	32297	5161.2	33730	4776.9	35225	4409.1	36787	4057.5	38422	23
38	5973.3	30945	5555.4	32320	5154.6	33754	4770.6	35251	4403.1	36814	4051.8	38450	22
39	5966.2	30968	5548.6	32344	5148.1	33779	4764.4	35276	4397.1	36841	4046.1	38478	21
40	5959.1	30990	5541.8	32367	5141.6	33803	4758.1	35302	4391.1	36867	4040.4	38506	20
41	5952.0	31013	5535.0	32391	5135.0	33827	4751.9	35327	4385.2	36894	4034.6	38534	19
42	5944.9	31035	5528.2	32414	5128.5	33852	4745.6	35353	4379.2	36921	4028.9	38562	18
43	5937.8	31058	5521.4	32438	5122.0	33876	4739.4	35378	4373.2	36948	4023.2	38589	17
44	5930.7	31080	5514.6	32461	5115.5	33901	4733.1	35404	4367.3	36974	4017.5	38618	16
45	5923.7	31103	5507.8	32485	5109.0	33925	4726.9	35429	4361.3	37001	4011.8	38646	15
46	5916.6	31125	5501.0	32508	5102.5	33950	4720.7	35455	4355.3	37028	4006.2	38674	14
47	5909.5	31148	5494.2	32532	5096.0	33975	4714.5	35481	4349.4	37055	4000.5	38702	13
48	5902.5	31171	5487.5	32555	5089.5	33999	4708.2	35506	4343.4	37082	3994.8	38730	12
49	5895.4	31193	5480.7	32579	5083.0	34024	4702.0	35532	4337.5	37108	3989.1	38758	11
50	5888.3	31216	5473.9	32602	5076.5	34048	4695.8	35558	4331.6	37135	3983.5	38786	10
51	5881.3	31238	5467.2	32626	5070.0	34073	4689.6	35583	4325.6	37162	3977.8	38814	9
52	5874.2	31261	5460.4	32650	5063.6	34098	4683.4	35609	4319.7	37189	3972.1	38842	8
53	5867.2	31284	5453.6	32673	5057.1	34122	4677.2	35635	4313.8	37216	3966.5	38871	7
54	5860.2	31306	5446.9	32697	5050.6	34147	4671.0	35661	4307.9	37243	3960.8	38899	6
55	5853.1	31329	5440.2	32720	5044.2	34172	4664.8	35687	4301.9	37270	3955.2	38927	5
56	5846.1	31352	5433.4	32744	5037.7	34196	4658.7	35712	4296.0	37297	3949.5	38955	4
57	5839.1	31375	5426.7	32768	5031.2	34221	4652.5	35738	4290.1	37324	3943.9	38984	3
58	5832.1	31397	5420.0	32792	5024.8	34246	4646.3	35764	4284.2	37351	3938.2	39012	2
59	5825.1	31420	5413.2	32815	5018.4	34271	4640.1	35790	4278.3	37378	3932.6	39040	1
60	5818.1	31443	5406.5	32839	5011.9	34295	4634.0	35816	4272.4	37405	3927.0	39069	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	119°		118°		117°		116°		115°		114°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^5 * \log(1 / \sin \alpha)$$

$$B(\alpha) = 10^5 * \log(1 / \cos \alpha)$$

Ageton's Tables 78°-84°

↓	78°		79°		80°		81°		82°		83°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	959.6	68212	805.3	71940	664.9	76033	538.0	80567	424.7	85644	324.9	91411	60
1	956.9	68272	802.9	72005	662.6	76105	536.0	80647	422.9	85734	323.4	91514	59
2	954.2	68331	800.4	72070	660.4	76177	534.0	80727	421.2	85825	321.8	91617	58
3	951.5	68391	798.0	72136	658.2	76248	532.0	80807	419.4	85915	320.3	91720	57
4	948.9	68451	795.6	72201	656.0	76321	530.0	80887	417.7	86006	318.8	91824	56
5	946.2	68510	793.1	72266	653.8	76393	528.0	80967	415.9	86096	317.2	91928	55
6	943.5	68570	790.7	72332	651.6	76465	526.1	81048	414.1	86187	315.7	92032	54
7	940.9	68630	788.2	72398	649.4	76538	524.1	81129	412.4	86278	314.2	92137	53
8	938.2	68690	785.8	72463	647.2	76610	522.1	81210	410.6	86370	312.6	92242	52
9	935.5	68750	783.4	72529	645.0	76683	520.2	81291	408.9	86461	311.1	92347	51
10	932.9	68811	781.0	72595	642.8	76756	518.2	81372	407.2	86553	309.6	92452	50
11	930.3	68871	778.6	72661	640.6	76829	516.2	81453	405.4	86645	308.1	92558	49
12	927.6	68932	776.1	72727	638.4	76902	514.3	81535	403.7	86737	306.6	92663	48
13	925.0	68992	773.7	72794	636.2	76975	512.3	81617	402.0	86829	305.1	92769	47
14	922.3	69053	771.3	72860	634.0	77048	510.4	81698	400.2	86922	303.6	92876	46
15	919.7	69113	768.9	72927	631.9	77122	508.4	81780	398.5	87015	302.1	92982	45
16	917.1	69174	766.5	72993	629.7	77195	506.5	81863	396.8	87108	300.6	93089	44
17	914.5	69235	764.1	73060	627.5	77269	504.5	81945	395.1	87201	299.1	93196	43
18	911.8	69296	761.8	73127	625.4	77343	502.6	82027	393.4	87294	297.6	93304	42
19	909.2	69357	759.4	73194	623.2	77417	500.7	82110	391.7	87388	296.1	93411	41
20	906.6	69418	757.0	73261	621.1	77491	498.7	82193	390.0	87481	294.7	93519	40
21	904.0	69479	754.6	73328	618.9	77565	496.8	82276	388.3	87575	293.2	93628	39
22	901.4	69541	752.2	73395	616.8	77639	494.9	82359	386.6	87669	291.7	93736	38
23	898.8	69602	749.9	73462	614.6	77714	493.0	82442	384.9	87764	290.2	93845	37
24	896.2	69664	747.5	73530	612.5	77789	491.1	82526	383.2	87858	288.8	93954	36
25	893.6	69725	745.1	73597	610.3	77863	489.2	82609	381.5	87953	287.3	94063	35
26	891.0	69787	742.8	73665	608.2	77938	487.3	82693	379.8	88048	285.9	94173	34
27	888.5	69849	740.4	73733	606.1	78013	485.4	82777	378.1	88143	284.4	94283	33
28	885.9	69910	738.1	73801	604.0	78088	483.5	82861	376.5	88239	283.0	94393	32
29	883.3	69972	735.7	73869	601.8	78164	481.6	82945	374.8	88334	281.5	94503	31
30	880.7	70034	733.4	73937	599.7	78239	479.7	83030	373.1	88430	280.1	94614	30
31	878.2	70097	731.0	74005	597.6	78315	477.8	83114	371.5	88526	278.6	94725	29
32	875.6	70159	728.7	74073	595.5	78390	475.9	83199	369.8	88623	277.2	94836	28
33	873.0	70221	726.4	74142	593.4	78466	474.0	83284	368.2	88719	275.8	94948	27
34	870.5	70284	724.1	74210	591.3	78542	472.2	83369	366.5	88816	274.3	95060	26
35	867.9	70346	721.7	74279	589.2	78618	470.3	83455	364.9	88913	272.9	95172	25
36	865.4	70409	719.4	74348	587.1	78694	468.4	83540	363.2	89010	271.5	95285	24
37	862.8	70471	717.1	74417	585.0	78771	466.6	83626	361.6	89107	270.1	95397	23
38	860.3	70534	714.8	74486	582.9	78847	464.7	83711	360.0	89205	268.7	95510	22
39	857.8	70597	712.5	74555	580.9	78924	462.8	83797	358.3	89303	267.3	95624	21
40	855.2	70660	710.2	74624	578.8	79001	461.0	83884	356.7	89401	265.9	95738	20
41	852.7	70723	707.9	74693	576.7	79078	459.1	83970	355.1	89499	264.5	95851	19
42	850.2	70786	705.6	74763	574.6	79155	457.3	84056	353.5	89598	263.1	95966	18
43	847.6	70850	703.3	74832	572.6	79232	455.4	84143	351.8	89696	261.7	96080	17
44	845.1	70913	701.0	74902	570.5	79309	453.6	84230	350.2	89795	260.3	96195	16
45	842.6	70976	698.7	74972	568.4	79387	451.8	84317	348.6	89894	258.9	96310	15
46	840.1	71040	696.4	75042	566.4	79465	449.9	84404	347.0	89994	257.5	96426	14
47	837.6	71104	694.1	75112	564.3	79542	448.1	84492	345.4	90093	256.1	96542	13
48	835.1	71167	691.9	75182	562.3	79620	446.3	84579	343.8	90193	254.8	96658	12
49	832.6	71231	689.6	75252	560.2	79698	444.5	84667	342.2	90293	253.4	96774	11
50	830.1	71295	687.3	75323	558.2	79777	442.7	84755	340.6	90394	252.0	96891	10
51	827.6	71359	685.1	75393	556.2	79855	440.9	84843	339.0	90494	250.7	97008	9
52	825.1	71423	682.8	75464	554.1	79933	439.0	84931	337.5	90595	249.3	97126	8
53	822.6	71488	680.5	75534	552.1	80012	437.2	85020	335.9	90696	248.0	97243	7
54	820.1	71552	678.3	75605	550.1	80091	435.4	85109	334.3	90798	246.6	97361	6
55	817.7	71616	676.0	75676	548.1	80170	433.6	85197	332.7	90899	245.3	97480	5
56	815.2	71681	673.8	75747	546.0	80249	431.9	85286	331.2	91001	243.9	97598	4
57	812.7	71746	671.6	75819	544.0	80328	430.1	85376	329.6	91103	242.6	97717	3
58	810.3	71810	669.3	75890	542.0	80408	428.3	85465	328.0	91205	241.2	97837	2
59	807.8	71875	667.1	75961	540.0	80487	426.5	85555	326.5	91308	239.9	97957	1
60	805.3	71940	664.9	76033	538.0	80567	424.7	85644	324.9	91411	238.6	98077	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	101°		100°		99°		98°		97°		96°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^{\wedge}5 * \log (1 / \sin \alpha)$$

$$B(\alpha) = 10^{\wedge}5 * \log (1 / \cos \alpha)$$

Ageton's Tables 84°-90°

↓	84°		85°		86°		87°		88°		89°		
	A	B	A	B	A	B	A	B	A	B	A	B	
0	238.6	98077	165.6	105970	105.9	115642	59.6	128120	26.5	145718	6.6	175814	60
1	237.2	98197	164.5	106115	105.0	115823	58.9	128362	26.0	146081	6.4	176544	59
2	235.9	98318	163.4	106260	104.2	116004	58.2	128605	25.6	146448	6.2	177287	58
3	234.6	98439	162.3	106406	103.3	116187	57.6	128849	25.2	146817	6.0	178042	57
4	233.3	98560	161.2	106552	102.4	116370	56.9	129095	24.7	147190	5.8	178811	56
5	232.0	98682	160.1	106699	101.6	116554	56.3	129342	24.3	147566	5.6	179593	55
6	230.7	98804	159.0	106846	100.7	116739	55.7	129591	23.9	147945	5.4	180390	54
7	229.4	98926	157.9	106993	99.8	116925	55.0	129841	23.5	148327	5.2	181202	53
8	228.1	99049	156.9	107141	99.0	117112	54.4	130093	23.1	148713	5.0	182029	52
9	226.8	99172	155.8	107290	98.1	117299	53.7	130346	22.6	149103	4.8	182872	51
10	225.5	99296	154.7	107439	97.3	117487	53.1	130600	22.2	149496	4.6	183732	50
11	224.2	99419	153.6	107589	96.4	117676	52.5	130856	21.8	149892	4.4	184609	49
12	222.9	99544	152.6	107739	95.6	117866	51.9	131114	21.4	150292	4.2	185505	48
13	221.6	99668	151.5	107890	94.7	118056	51.3	131373	21.0	150696	4.1	186419	47
14	220.3	99793	150.5	108041	93.9	118248	50.7	131633	20.6	151104	3.9	187353	46
15	219.1	99918	149.4	108193	93.1	118440	50.0	131896	20.3	151515	3.7	188307	45
16	217.8	100044	148.4	108345	92.3	118633	49.4	132159	19.9	151931	3.6	189283	44
17	216.5	100170	147.3	108498	91.4	118827	48.8	132425	19.5	152350	3.4	190282	43
18	215.3	100296	146.3	108651	90.6	119022	48.2	132692	19.1	152774	3.2	191304	42
19	214.0	100423	145.2	108805	89.8	119218	47.6	132961	18.7	153201	3.1	192350	41
20	212.8	100550	144.2	108960	89.0	119415	47.1	133231	18.4	153634	2.9	193422	40
21	211.5	100678	143.2	109115	88.2	119612	46.5	133503	18.0	154070	2.8	194522	39
22	210.3	100806	142.2	109270	87.4	119811	45.9	133777	17.6	154511	2.7	195650	38
23	209.0	100934	141.1	109426	86.6	120010	45.3	134053	17.3	154956	2.5	196808	37
24	207.8	101063	140.1	109583	85.8	120211	44.7	134330	16.9	155406	2.4	197998	36
25	206.5	101192	139.1	109740	85.0	120412	44.2	134609	16.6	155861	2.3	199221	35
26	205.3	101321	138.1	109898	84.2	120614	43.6	134890	16.2	156320	2.1	200480	34
27	204.1	101451	137.1	110057	83.4	120817	43.0	135173	15.9	156784	2.0	201777	33
28	202.8	101581	136.1	110216	82.6	121021	42.5	135457	15.6	157254	1.9	203113	32
29	201.6	101712	135.1	110375	81.9	121226	41.9	135744	15.2	157728	1.8	204492	31
30	200.4	101843	134.1	110536	81.1	121432	41.4	136032	14.9	158208	1.7	205916	30
31	199.2	101974	133.1	110696	80.3	121640	40.8	136322	14.6	158693	1.5	207388	29
32	198.0	102106	132.1	110858	79.5	121848	40.3	136615	14.2	159184	1.4	208912	28
33	196.8	102238	131.1	111020	78.8	122057	39.7	136909	13.9	159680	1.3	210491	27
34	195.6	102371	130.1	111183	78.0	122267	39.2	137205	13.6	160182	1.2	212130	26
35	194.4	102504	129.2	111346	77.3	122478	38.6	137503	13.3	160690	1.1	213834	25
36	193.2	102637	128.2	111510	76.5	122690	38.1	137804	13.0	161204	1.1	215607	24
37	192.0	102771	127.2	111674	75.8	122903	37.6	138106	12.7	161724	1.0	217455	23
38	190.8	102905	126.2	111839	75.0	123117	37.1	138411	12.4	162250	0.9	219385	22
39	189.6	103040	125.3	112005	74.3	123333	36.5	138718	12.1	162783	0.8	221406	21
40	188.4	103175	124.3	112171	73.5	123549	36.0	139027	11.8	163322	0.7	223525	20
41	187.2	103311	123.4	112339	72.8	123766	35.5	139338	11.5	163869	0.7	225752	19
42	186.1	103447	122.4	112506	72.1	123985	35.0	139651	11.2	164422	0.6	228100	18
43	184.9	103583	121.5	112675	71.3	124205	34.5	139967	10.9	164982	0.5	230583	17
44	183.7	103720	120.5	112844	70.6	124425	34.0	140285	10.6	165550	0.5	233216	16
45	182.6	103857	119.6	113013	69.9	124647	33.5	140605	10.3	166125	0.4	236018	15
46	181.4	103995	118.7	113184	69.2	124870	33.0	140928	10.1	166708	0.4	239015	14
47	180.3	104133	117.7	113355	68.5	125094	32.5	141253	9.8	167298	0.3	242233	13
48	179.1	104272	116.8	113526	67.8	125320	32.0	141581	9.5	167897	0.3	245709	12
49	178.0	104411	115.9	113699	67.1	125546	31.5	141911	9.3	168505	0.2	249488	11
50	176.8	104550	114.9	113872	66.4	125774	31.1	142243	9.0	169121	0.2	253627	10
51	175.7	104690	114.0	114045	65.7	126003	30.6	142579	8.7	169745	0.1	258203	9
52	174.5	104830	113.1	114220	65.0	126233	30.1	142916	8.5	170379	0.1	263318	8
53	173.4	104971	112.2	114395	64.3	126465	29.6	143257	8.2	171023	0.1	269118	7
54	172.3	105113	111.3	114571	63.6	126697	29.2	143600	8.0	171676	0.1	275812	6
55	171.1	105254	110.4	114748	62.9	126931	28.7	143946	7.8	172339	0.0	283730	5
56	170.0	105397	109.5	114925	62.2	127166	28.3	144295	7.5	173012	0.0	293421	4
57	168.9	105539	108.6	115103	61.6	127403	27.8	144646	7.3	173696	0.0	305915	3
58	167.8	105683	107.7	115282	60.9	127641	27.4	145001	7.1	174391	0.0	323524	2
59	166.7	105826	106.8	115461	60.2	127880	26.9	145358	6.8	175097	0.0	353627	1
60	165.6	105970	105.9	115642	59.6	128120	26.5	145718	6.6	175814	0.0	—	0
	A	B	A	B	A	B	A	B	A	B	A	B	↑
	95°		94°		93°		92°		91°		90°		

When meridian angle, t, is greater than 90°, take K from bottom of table.

Always take Z from bottom of table, except when K is same name and greater than latitude, in which case take Z from top of table.

$$A(\alpha) = 10^5 * \log (1 / \sin \alpha)$$

$$B(\alpha) = 10^5 * \log (1 / \cos \alpha)$$