

§14.1

Chapter Fourteen

As other of these things should be studied most carefully, for which (if the scheme is to be complete and not too far removed from use through being seized upon and used for the secular affairs of men from the start) the whole periphery of the circle considered is most conveniently cut into 100 equal parts; and all the canons of sines, tangents, secants, and their logarithms, together with tables of mean movements and Prosthaphaeresium [an astronomical term] are displayed with these fractions. For the sake of these I have decided these few sines should be adjoining, by dividing the quadrant into 40 equal parts, of which the number will be able to be increased to 200, then 10 1000, by a third [subdivision] into 5000, and finally 25000. For in the place of degrees we should use hundredth parts of the circle, and for minutes or sixtieths of degrees, we should use thousandths of the hundredths. Therefor the total quadrant contains 25 hundredths, and of these any particular thousandths you require.

Degrees	Minutes	Sines	Hundredths	Thousandths of Hundredths
2	25	0.0392598157590686	0	625
4	50	0.0784590957278449	1	250
6	75	0.1175373974578380	1	875
9	00	0.1564344650402310	2	500
11	25	0.1950903220161280	3	125
13	50	0.2334453638559050	3	750
15	75	0.2714404498650740	4	375
18	00	0.3090169943749470	5	000
20	25	0.3461170570774930	5	625
22	50	0.3826834323650900	6	250
24	75	0.4186597375374280	6	875
27	00	0.4539904997395470	7	500
29	25	0.4886212414969550	8	125
31	50	0.5224985647159490	8	750
33	75	0.5555702330196020	9	375
36	00	0.5877852522924730	10	000
38	25	0.6190939493098340	10	625
40	50	0.6494480483301840	11	250
42	75	0.6788007455329420	11	875
45	00	0.7071067811865470	12	500
47	25	0.7343225094356860	13	125
49	50	0.7604059656000310	13	750
51	75	0.7853169308807450	14	375
54	00	0.8090169943749470	15	000
56	25	0.8314696123025450	15	625
58	50	0.8526401643540920	16	250
60	75	0.8724960070727970	16	875
63	00	0.8910065241883680	17	500
65	25	0.9081431738250810	18	125
67	50	0.9238795325112870	18	750
69	75	0.9381913359224840	19	375
72	00	0.9510565162951540	20	000
74	25	0.9624552364536470	20	625
76	50	0.9723699203976770	21	225
78	75	0.9807852804032300	21	875
81	00	0.9876883405951380	22	500
83	25	0.9930684569549260	23	125
85	50	0.9969173337331280	23	750
87	75	0.9992290362407230	24	375
90	00	1.0000000000000000	25	000