

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 61.5° N/S

Earliest Sunrise: 2:14 a.m. Latest Sunset: 9:46 p.m.

E-W Dimension: 1000 mm

Local Time		X	Y	Local Time		X	Y	Local Time		X	Y
12:00		0.0	-500.0								
11:55	12:05	9.6	-500.0	8:25	3:35	500.0	-417.2	4:55	7:05	500.0	165.8
11:50	12:10	19.2	-500.0	8:20	3:40	500.0	-398.4	4:50	7:10	500.0	179.4
11:45	12:15	28.8	-500.0	8:15	3:45	500.0	-380.2	4:45	7:15	500.0	193.1
11:40	12:20	38.4	-500.0	8:10	3:50	500.0	-362.5	4:40	7:20	500.0	207.1
11:35	12:25	48.1	-500.0	8:05	3:55	500.0	-345.2	4:35	7:25	500.0	221.3
11:30	12:30	57.8	-500.0	8:00	4:00	500.0	-328.5	4:30	7:30	500.0	235.7
11:25	12:35	67.6	-500.0	7:55	4:05	500.0	-312.1	4:25	7:35	500.0	250.3
11:20	12:40	77.5	-500.0	7:50	4:10	500.0	-296.2	4:20	7:40	500.0	265.3
11:15	12:45	87.4	-500.0	7:45	4:15	500.0	-280.6	4:15	7:45	500.0	280.6
11:10	12:50	97.4	-500.0	7:40	4:20	500.0	-265.3	4:10	7:50	500.0	296.2
11:05	12:55	107.5	-500.0	7:35	4:25	500.0	-250.3	4:05	7:55	500.0	312.1
11:00	1:00	117.7	-500.0	7:30	4:30	500.0	-235.7	4:00	8:00	500.0	328.5
10:55	1:05	128.1	-500.0	7:25	4:35	500.0	-221.3	3:55	8:05	500.0	345.2
10:50	1:10	138.5	-500.0	7:20	4:40	500.0	-207.1	3:50	8:10	500.0	362.5
10:45	1:15	149.2	-500.0	7:15	4:45	500.0	-193.1	3:45	8:15	500.0	380.2
10:40	1:20	159.9	-500.0	7:10	4:50	500.0	-179.4	3:40	8:20	500.0	398.4
10:35	1:25	170.9	-500.0	7:05	4:55	500.0	-165.8	3:35	8:25	500.0	417.2
10:30	1:30	182.0	-500.0	7:00	5:00	500.0	-152.4	3:30	8:30	500.0	436.6
10:25	1:35	193.3	-500.0	6:55	5:05	500.0	-139.2	3:25	8:35	500.0	456.6
10:20	1:40	204.9	-500.0	6:50	5:10	500.0	-126.1	3:20	8:40	500.0	477.4
10:15	1:45	216.7	-500.0	6:45	5:15	500.0	-113.2	3:15	8:45	500.0	499.0
10:10	1:50	228.7	-500.0	6:40	5:20	500.0	-100.3	3:10	8:50	479.5	500.0
10:05	1:55	241.1	-500.0	6:35	5:25	500.0	-87.6	3:05	8:55	459.0	500.0
10:00	2:00	253.7	-500.0	6:30	5:30	500.0	-74.9	3:00	9:00	439.4	500.0
9:55	2:05	266.6	-500.0	6:25	5:35	500.0	-62.3	2:55	9:05	420.6	500.0
9:50	2:10	279.9	-500.0	6:20	5:40	500.0	-49.8	2:50	9:10	402.6	500.0
9:45	2:15	293.6	-500.0	6:15	5:45	500.0	-37.3	2:45	9:15	385.4	500.0
9:40	2:20	307.7	-500.0	6:10	5:50	500.0	-24.8	2:40	9:20	368.7	500.0
9:35	2:25	322.2	-500.0	6:05	5:55	500.0	-12.4	2:35	9:25	352.7	500.0
9:30	2:30	337.2	-500.0	6:00	6:00	500.0	0.0	2:30	9:30	337.2	500.0
9:25	2:35	352.7	-500.0	5:55	6:05	500.0	12.4	2:25	9:35	322.2	500.0
9:20	2:40	368.7	-500.0	5:50	6:10	500.0	24.8	2:20	9:40	307.7	500.0
9:15	2:45	385.4	-500.0	5:45	6:15	500.0	37.3	2:15	9:45	293.6	500.0
9:10	2:50	402.6	-500.0	5:40	6:20	500.0	49.8	2:10	9:50	279.9	500.0
9:05	2:55	420.6	-500.0	5:35	6:25	500.0	62.3	2:05	9:55	266.6	500.0
9:00	3:00	439.4	-500.0	5:30	6:30	500.0	74.9	2:00	10:00	253.7	500.0
8:55	3:05	459.0	-500.0	5:25	6:35	500.0	87.6				
8:50	3:10	479.5	-500.0	5:20	6:40	500.0	100.3				
8:45	3:15	500.0	-499.0	5:15	6:45	500.0	113.2				
8:40	3:20	500.0	-477.4	5:10	6:50	500.0	126.1				
8:35	3:25	500.0	-456.6	5:05	6:55	500.0	139.2				
8:30	3:30	500.0	-436.6	5:00	7:00	500.0	152.4				

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## Horizontal Shadow Plane Sundial

Latitude: 61.5° N/S

Earliest Sunrise: 2:14 a.m. Latest Sunset: 9:46 p.m.

E-W Dimension: 3000 mm

Local Time		X	Y	Local Time		X	Y	Local Time		X	Y
12:00		0.0	-1500.0								
11:55	12:05	28.8	-1500.0	8:25	3:35	1500.0	-1251.5	4:55	7:05	1500.0	497.5
11:50	12:10	57.6	-1500.0	8:20	3:40	1500.0	-1195.1	4:50	7:10	1500.0	538.2
11:45	12:15	86.4	-1500.0	8:15	3:45	1500.0	-1140.5	4:45	7:15	1500.0	579.4
11:40	12:20	115.3	-1500.0	8:10	3:50	1500.0	-1087.4	4:40	7:20	1500.0	621.2
11:35	12:25	144.4	-1500.0	8:05	3:55	1500.0	-1035.7	4:35	7:25	1500.0	663.8
11:30	12:30	173.5	-1500.0	8:00	4:00	1500.0	-985.4	4:30	7:30	1500.0	707.0
11:25	12:35	202.9	-1500.0	7:55	4:05	1500.0	-936.4	4:25	7:35	1500.0	751.0
11:20	12:40	232.4	-1500.0	7:50	4:10	1500.0	-888.5	4:20	7:40	1500.0	795.9
11:15	12:45	262.2	-1500.0	7:45	4:15	1500.0	-841.7	4:15	7:45	1500.0	841.7
11:10	12:50	292.2	-1500.0	7:40	4:20	1500.0	-795.9	4:10	7:50	1500.0	888.5
11:05	12:55	322.6	-1500.0	7:35	4:25	1500.0	-751.0	4:05	7:55	1500.0	936.4
11:00	1:00	353.2	-1500.0	7:30	4:30	1500.0	-707.0	4:00	8:00	1500.0	985.4
10:55	1:05	384.2	-1500.0	7:25	4:35	1500.0	-663.8	3:55	8:05	1500.0	1035.7
10:50	1:10	415.6	-1500.0	7:20	4:40	1500.0	-621.2	3:50	8:10	1500.0	1087.4
10:45	1:15	447.5	-1500.0	7:15	4:45	1500.0	-579.4	3:45	8:15	1500.0	1140.5
10:40	1:20	479.8	-1500.0	7:10	4:50	1500.0	-538.2	3:40	8:20	1500.0	1195.1
10:35	1:25	512.6	-1500.0	7:05	4:55	1500.0	-497.5	3:35	8:25	1500.0	1251.5
10:30	1:30	546.0	-1500.0	7:00	5:00	1500.0	-457.3	3:30	8:30	1500.0	1309.7
10:25	1:35	580.0	-1500.0	6:55	5:05	1500.0	-417.7	3:25	8:35	1500.0	1369.9
10:20	1:40	614.7	-1500.0	6:50	5:10	1500.0	-378.4	3:20	8:40	1500.0	1432.2
10:15	1:45	650.1	-1500.0	6:45	5:15	1500.0	-339.5	3:15	8:45	1500.0	1496.9
10:10	1:50	686.2	-1500.0	6:40	5:20	1500.0	-301.0	3:10	8:50	1438.6	1500.0
10:05	1:55	723.2	-1500.0	6:35	5:25	1500.0	-262.7	3:05	8:55	1377.0	1500.0
10:00	2:00	761.1	-1500.0	6:30	5:30	1500.0	-224.7	3:00	9:00	1318.2	1500.0
9:55	2:05	799.9	-1500.0	6:25	5:35	1500.0	-186.9	2:55	9:05	1261.9	1500.0
9:50	2:10	839.8	-1500.0	6:20	5:40	1500.0	-149.3	2:50	9:10	1207.9	1500.0
9:45	2:15	880.8	-1500.0	6:15	5:45	1500.0	-111.9	2:45	9:15	1156.1	1500.0
9:40	2:20	923.0	-1500.0	6:10	5:50	1500.0	-74.5	2:40	9:20	1106.1	1500.0
9:35	2:25	966.6	-1500.0	6:05	5:55	1500.0	-37.2	2:35	9:25	1058.0	1500.0
9:30	2:30	1011.5	-1500.0	6:00	6:00	1500.0	0.0	2:30	9:30	1011.5	1500.0
9:25	2:35	1058.0	-1500.0	5:55	6:05	1500.0	37.2	2:25	9:35	966.6	1500.0
9:20	2:40	1106.1	-1500.0	5:50	6:10	1500.0	74.5	2:20	9:40	923.0	1500.0
9:15	2:45	1156.1	-1500.0	5:45	6:15	1500.0	111.9	2:15	9:45	880.8	1500.0
9:10	2:50	1207.9	-1500.0	5:40	6:20	1500.0	149.3	2:10	9:50	839.8	1500.0
9:05	2:55	1261.9	-1500.0	5:35	6:25	1500.0	186.9	2:05	9:55	799.9	1500.0
9:00	3:00	1318.2	-1500.0	5:30	6:30	1500.0	224.7	2:00	10:00	761.1	1500.0
8:55	3:05	1377.0	-1500.0	5:25	6:35	1500.0	262.7				
8:50	3:10	1438.6	-1500.0	5:20	6:40	1500.0	301.0				
8:45	3:15	1500.0	-1496.9	5:15	6:45	1500.0	339.5				
8:40	3:20	1500.0	-1432.2	5:10	6:50	1500.0	378.4				
8:35	3:25	1500.0	-1369.9	5:05	6:55	1500.0	417.7				
8:30	3:30	1500.0	-1309.7	5:00	7:00	1500.0	457.3				