

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 62.5° N/S

Earliest Sunrise: 2:00 a.m.    Latest Sunset: 10:00 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	9.7	-500.0	8:25	3:35	500.0	-413.3	4:55	7:05	500.0	164.3
11:50	12:10	19.4	-500.0	8:20	3:40	500.0	-394.7	4:50	7:10	500.0	177.7
11:45	12:15	29.1	-500.0	8:15	3:45	500.0	-376.6	4:45	7:15	500.0	191.3
11:40	12:20	38.8	-500.0	8:10	3:50	500.0	-359.1	4:40	7:20	500.0	205.2
11:35	12:25	48.6	-500.0	8:05	3:55	500.0	-342.1	4:35	7:25	500.0	219.2
11:30	12:30	58.4	-500.0	8:00	4:00	500.0	-325.4	4:30	7:30	500.0	233.5
11:25	12:35	68.3	-500.0	7:55	4:05	500.0	-309.3	4:25	7:35	500.0	248.0
11:20	12:40	78.2	-500.0	7:50	4:10	500.0	-293.4	4:20	7:40	500.0	262.9
11:15	12:45	88.2	-500.0	7:45	4:15	500.0	-278.0	4:15	7:45	500.0	278.0
11:10	12:50	98.3	-500.0	7:40	4:20	500.0	-262.9	4:10	7:50	500.0	293.4
11:05	12:55	108.5	-500.0	7:35	4:25	500.0	-248.0	4:05	7:55	500.0	309.3
11:00	1:00	118.8	-500.0	7:30	4:30	500.0	-233.5	4:00	8:00	500.0	325.4
10:55	1:05	129.3	-500.0	7:25	4:35	500.0	-219.2	3:55	8:05	500.0	342.1
10:50	1:10	139.8	-500.0	7:20	4:40	500.0	-205.2	3:50	8:10	500.0	359.1
10:45	1:15	150.5	-500.0	7:15	4:45	500.0	-191.3	3:45	8:15	500.0	376.6
10:40	1:20	161.4	-500.0	7:10	4:50	500.0	-177.7	3:40	8:20	500.0	394.7
10:35	1:25	172.5	-500.0	7:05	4:55	500.0	-164.3	3:35	8:25	500.0	413.3
10:30	1:30	183.7	-500.0	7:00	5:00	500.0	-151.0	3:30	8:30	500.0	432.5
10:25	1:35	195.1	-500.0	6:55	5:05	500.0	-137.9	3:25	8:35	500.0	452.4
10:20	1:40	206.8	-500.0	6:50	5:10	500.0	-125.0	3:20	8:40	500.0	473.0
10:15	1:45	218.7	-500.0	6:45	5:15	500.0	-112.1	3:15	8:45	500.0	494.3
10:10	1:50	230.9	-500.0	6:40	5:20	500.0	-99.4	3:10	8:50	484.0	500.0
10:05	1:55	243.3	-500.0	6:35	5:25	500.0	-86.8	3:05	8:55	463.3	500.0
10:00	2:00	256.1	-500.0	6:30	5:30	500.0	-74.2	3:00	9:00	443.5	500.0
9:55	2:05	269.1	-500.0	6:25	5:35	500.0	-61.7	2:55	9:05	424.6	500.0
9:50	2:10	282.5	-500.0	6:20	5:40	500.0	-49.3	2:50	9:10	406.4	500.0
9:45	2:15	296.3	-500.0	6:15	5:45	500.0	-36.9	2:45	9:15	388.9	500.0
9:40	2:20	310.5	-500.0	6:10	5:50	500.0	-24.6	2:40	9:20	372.1	500.0
9:35	2:25	325.2	-500.0	6:05	5:55	500.0	-12.3	2:35	9:25	356.0	500.0
9:30	2:30	340.3	-500.0	6:00	6:00	500.0	0.0	2:30	9:30	340.3	500.0
9:25	2:35	356.0	-500.0	5:55	6:05	500.0	12.3	2:25	9:35	325.2	500.0
9:20	2:40	372.1	-500.0	5:50	6:10	500.0	24.6	2:20	9:40	310.5	500.0
9:15	2:45	388.9	-500.0	5:45	6:15	500.0	36.9	2:15	9:45	296.3	500.0
9:10	2:50	406.4	-500.0	5:40	6:20	500.0	49.3	2:10	9:50	282.5	500.0
9:05	2:55	424.6	-500.0	5:35	6:25	500.0	61.7	2:05	9:55	269.1	500.0
9:00	3:00	443.5	-500.0	5:30	6:30	500.0	74.2	2:00	10:00	256.1	500.0
8:55	3:05	463.3	-500.0	5:25	6:35	500.0	86.8				
8:50	3:10	484.0	-500.0	5:20	6:40	500.0	99.4				
8:45	3:15	500.0	-494.3	5:15	6:45	500.0	112.1				
8:40	3:20	500.0	-473.0	5:10	6:50	500.0	125.0				
8:35	3:25	500.0	-452.4	5:05	6:55	500.0	137.9				
8:30	3:30	500.0	-432.5	5:00	7:00	500.0	151.0				

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## Horizontal Shadow Plane Sundial

Latitude: 62.5° N/S

Earliest Sunrise: 2:00 a.m. Latest Sunset: 10:00 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	29.0	-1500.0	8:25	3:35	1500.0	-1239.9	4:55	7:05	1500.0	492.9
11:50	12:10	58.1	-1500.0	8:20	3:40	1500.0	-1184.1	4:50	7:10	1500.0	533.2
11:45	12:15	87.2	-1500.0	8:15	3:45	1500.0	-1129.9	4:45	7:15	1500.0	574.0
11:40	12:20	116.4	-1500.0	8:10	3:50	1500.0	-1077.3	4:40	7:20	1500.0	615.5
11:35	12:25	145.7	-1500.0	8:05	3:55	1500.0	-1026.2	4:35	7:25	1500.0	657.6
11:30	12:30	175.2	-1500.0	8:00	4:00	1500.0	-976.3	4:30	7:30	1500.0	700.5
11:25	12:35	204.8	-1500.0	7:55	4:05	1500.0	-927.8	4:25	7:35	1500.0	744.1
11:20	12:40	234.6	-1500.0	7:50	4:10	1500.0	-880.3	4:20	7:40	1500.0	788.6
11:15	12:45	264.7	-1500.0	7:45	4:15	1500.0	-833.9	4:15	7:45	1500.0	833.9
11:10	12:50	295.0	-1500.0	7:40	4:20	1500.0	-788.6	4:10	7:50	1500.0	880.3
11:05	12:55	325.6	-1500.0	7:35	4:25	1500.0	-744.1	4:05	7:55	1500.0	927.8
11:00	1:00	356.5	-1500.0	7:30	4:30	1500.0	-700.5	4:00	8:00	1500.0	976.3
10:55	1:05	387.8	-1500.0	7:25	4:35	1500.0	-657.6	3:55	8:05	1500.0	1026.2
10:50	1:10	419.5	-1500.0	7:20	4:40	1500.0	-615.5	3:50	8:10	1500.0	1077.3
10:45	1:15	451.6	-1500.0	7:15	4:45	1500.0	-574.0	3:45	8:15	1500.0	1129.9
10:40	1:20	484.3	-1500.0	7:10	4:50	1500.0	-533.2	3:40	8:20	1500.0	1184.1
10:35	1:25	517.4	-1500.0	7:05	4:55	1500.0	-492.9	3:35	8:25	1500.0	1239.9
10:30	1:30	551.1	-1500.0	7:00	5:00	1500.0	-453.1	3:30	8:30	1500.0	1297.6
10:25	1:35	585.4	-1500.0	6:55	5:05	1500.0	-413.8	3:25	8:35	1500.0	1357.2
10:20	1:40	620.4	-1500.0	6:50	5:10	1500.0	-374.9	3:20	8:40	1500.0	1419.0
10:15	1:45	656.1	-1500.0	6:45	5:15	1500.0	-336.4	3:15	8:45	1500.0	1483.0
10:10	1:50	692.6	-1500.0	6:40	5:20	1500.0	-298.2	3:10	8:50	1452.0	1500.0
10:05	1:55	729.9	-1500.0	6:35	5:25	1500.0	-260.3	3:05	8:55	1389.9	1500.0
10:00	2:00	768.2	-1500.0	6:30	5:30	1500.0	-222.6	3:00	9:00	1330.5	1500.0
9:55	2:05	807.4	-1500.0	6:25	5:35	1500.0	-185.2	2:55	9:05	1273.7	1500.0
9:50	2:10	847.6	-1500.0	6:20	5:40	1500.0	-147.9	2:50	9:10	1219.2	1500.0
9:45	2:15	889.0	-1500.0	6:15	5:45	1500.0	-110.8	2:45	9:15	1166.8	1500.0
9:40	2:20	931.6	-1500.0	6:10	5:50	1500.0	-73.8	2:40	9:20	1116.4	1500.0
9:35	2:25	975.6	-1500.0	6:05	5:55	1500.0	-36.9	2:35	9:25	1067.9	1500.0
9:30	2:30	1020.9	-1500.0	6:00	6:00	1500.0	0.0	2:30	9:30	1020.9	1500.0
9:25	2:35	1067.9	-1500.0	5:55	6:05	1500.0	36.9	2:25	9:35	975.6	1500.0
9:20	2:40	1116.4	-1500.0	5:50	6:10	1500.0	73.8	2:20	9:40	931.6	1500.0
9:15	2:45	1166.8	-1500.0	5:45	6:15	1500.0	110.8	2:15	9:45	889.0	1500.0
9:10	2:50	1219.2	-1500.0	5:40	6:20	1500.0	147.9	2:10	9:50	847.6	1500.0
9:05	2:55	1273.7	-1500.0	5:35	6:25	1500.0	185.2	2:05	9:55	807.4	1500.0
9:00	3:00	1330.5	-1500.0	5:30	6:30	1500.0	222.6	2:00	10:00	768.2	1500.0
8:55	3:05	1389.9	-1500.0	5:25	6:35	1500.0	260.3				
8:50	3:10	1452.0	-1500.0	5:20	6:40	1500.0	298.2				
8:45	3:15	1500.0	-1483.0	5:15	6:45	1500.0	336.4				
8:40	3:20	1500.0	-1419.0	5:10	6:50	1500.0	374.9				
8:35	3:25	1500.0	-1357.2	5:05	6:55	1500.0	413.8				
8:30	3:30	1500.0	-1297.6	5:00	7:00	1500.0	453.1				