

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 60.0° N/S

Earliest Sunrise: 2:33 a.m. Latest Sunset: 9:27 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	9.4	-500.0	8:25	3:35	500.0	-423.3	4:55	7:05	500.0	168.3
11:50	12:10	18.9	-500.0	8:20	3:40	500.0	-404.3	4:50	7:10	500.0	182.0
11:45	12:15	28.4	-500.0	8:15	3:45	500.0	-385.8	4:45	7:15	500.0	196.0
11:40	12:20	37.9	-500.0	8:10	3:50	500.0	-367.8	4:40	7:20	500.0	210.1
11:35	12:25	47.4	-500.0	8:05	3:55	500.0	-350.3	4:35	7:25	500.0	224.5
11:30	12:30	57.0	-500.0	8:00	4:00	500.0	-333.3	4:30	7:30	500.0	239.1
11:25	12:35	66.6	-500.0	7:55	4:05	500.0	-316.7	4:25	7:35	500.0	254.0
11:20	12:40	76.4	-500.0	7:50	4:10	500.0	-300.5	4:20	7:40	500.0	269.2
11:15	12:45	86.1	-500.0	7:45	4:15	500.0	-284.7	4:15	7:45	500.0	284.7
11:10	12:50	96.0	-500.0	7:40	4:20	500.0	-269.2	4:10	7:50	500.0	300.5
11:05	12:55	106.0	-500.0	7:35	4:25	500.0	-254.0	4:05	7:55	500.0	316.7
11:00	1:00	116.0	-500.0	7:30	4:30	500.0	-239.1	4:00	8:00	500.0	333.3
10:55	1:05	126.2	-500.0	7:25	4:35	500.0	-224.5	3:55	8:05	500.0	350.3
10:50	1:10	136.5	-500.0	7:20	4:40	500.0	-210.1	3:50	8:10	500.0	367.8
10:45	1:15	147.0	-500.0	7:15	4:45	500.0	-196.0	3:45	8:15	500.0	385.8
10:40	1:20	157.6	-500.0	7:10	4:50	500.0	-182.0	3:40	8:20	500.0	404.3
10:35	1:25	168.4	-500.0	7:05	4:55	500.0	-168.3	3:35	8:25	500.0	423.3
10:30	1:30	179.4	-500.0	7:00	5:00	500.0	-154.7	3:30	8:30	500.0	443.0
10:25	1:35	190.5	-500.0	6:55	5:05	500.0	-141.3	3:25	8:35	500.0	463.4
10:20	1:40	201.9	-500.0	6:50	5:10	500.0	-128.0	3:20	8:40	500.0	484.5
10:15	1:45	213.5	-500.0	6:45	5:15	500.0	-114.8	3:15	8:45	493.8	500.0
10:10	1:50	225.4	-500.0	6:40	5:20	500.0	-101.8	3:10	8:50	472.6	500.0
10:05	1:55	237.6	-500.0	6:35	5:25	500.0	-88.9	3:05	8:55	452.3	500.0
10:00	2:00	250.0	-500.0	6:30	5:30	500.0	-76.0	3:00	9:00	433.0	500.0
9:55	2:05	262.8	-500.0	6:25	5:35	500.0	-63.2	2:55	9:05	414.5	500.0
9:50	2:10	275.9	-500.0	6:20	5:40	500.0	-50.5	2:50	9:10	396.8	500.0
9:45	2:15	289.3	-500.0	6:15	5:45	500.0	-37.8	2:45	9:15	-379.7	500.0
9:40	2:20	303.2	-500.0	6:10	5:50	500.0	-25.2	2:40	9:20	363.3	500.0
9:35	2:25	317.5	-500.0	6:05	5:55	500.0	-12.6	2:35	9:25	347.5	500.0
9:30	2:30	332.3	-500.0	6:00	6:00	500.0	0.0	2:30	9:30	332.3	500.0
9:25	2:35	347.5	-500.0	5:55	6:05	500.0	12.6				
9:20	2:40	363.3	-500.0	5:50	6:10	500.0	25.2				
9:15	2:45	379.7	-500.0	5:45	6:15	500.0	37.8				
9:10	2:50	396.8	-500.0	5:40	6:20	500.0	50.5				
9:05	2:55	414.5	-500.0	5:35	6:25	500.0	63.2				
9:00	3:00	433.0	-500.0	5:30	6:30	500.0	76.0				
8:55	3:05	452.3	-500.0	5:25	6:35	500.0	88.9				
8:50	3:10	472.6	-500.0	5:20	6:40	500.0	101.8				
8:45	3:15	493.8	-500.0	5:15	6:45	500.0	114.8				
8:40	3:20	500.0	-484.5	5:10	6:50	500.0	128.0				
8:35	3:25	500.0	-463.4	5:05	6:55	500.0	141.3				
8:30	3:30	500.0	-443.0	5:00	7:00	500.0	154.7				

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Latitude: 60.0° N/S

Earliest Sunrise: 2:33 a.m. Latest Sunset: 9:27 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	28.3	-1500.0	8:25	3:35	1500.0	-1270.0	4:55	7:05	1500.0	504.8
11:50	12:10	56.7	-1500.0	8:20	3:40	1500.0	-1212.8	4:50	7:10	1500.0	546.1
11:45	12:15	85.1	-1500.0	8:15	3:45	1500.0	-1157.3	4:45	7:15	1500.0	588.0
11:40	12:20	113.7	-1500.0	8:10	3:50	1500.0	-1103.4	4:40	7:20	1500.0	630.4
11:35	12:25	142.3	-1500.0	8:05	3:55	1500.0	-1051.0	4:35	7:25	1500.0	673.6
11:30	12:30	171.0	-1500.0	8:00	4:00	1500.0	-1000.0	4:30	7:30	1500.0	717.4
11:25	12:35	199.9	-1500.0	7:55	4:05	1500.0	-950.2	4:25	7:35	1500.0	762.1
11:20	12:40	229.1	-1500.0	7:50	4:10	1500.0	-901.6	4:20	7:40	1500.0	807.7
11:15	12:45	258.4	-1500.0	7:45	4:15	1500.0	-854.2	4:15	7:45	1500.0	854.2
11:10	12:50	288.0	-1500.0	7:40	4:20	1500.0	-807.7	4:10	7:50	1500.0	901.6
11:05	12:55	317.9	-1500.0	7:35	4:25	1500.0	-762.1	4:05	7:55	1500.0	950.2
11:00	1:00	348.1	-1500.0	7:30	4:30	1500.0	-717.4	4:00	8:00	1500.0	1000.0
10:55	1:05	378.6	-1500.0	7:25	4:35	1500.0	-673.6	3:55	8:05	1500.0	1051.0
10:50	1:10	409.6	-1500.0	7:20	4:40	1500.0	-630.4	3:50	8:10	1500.0	1103.4
10:45	1:15	441.0	-1500.0	7:15	4:45	1500.0	-588.0	3:45	8:15	1500.0	1157.3
10:40	1:20	472.8	-1500.0	7:10	4:50	1500.0	-546.1	3:40	8:20	1500.0	1212.8
10:35	1:25	505.2	-1500.0	7:05	4:55	1500.0	-504.8	3:35	8:25	1500.0	1270.0
10:30	1:30	538.1	-1500.0	7:00	5:00	1500.0	-464.1	3:30	8:30	1500.0	1329.0
10:25	1:35	571.6	-1500.0	6:55	5:05	1500.0	-423.8	3:25	8:35	1500.0	1390.1
10:20	1:40	605.8	-1500.0	6:50	5:10	1500.0	-384.0	3:20	8:40	1500.0	1453.4
10:15	1:45	640.6	-1500.0	6:45	5:15	1500.0	-344.5	3:15	8:45	1481.3	1500.0
10:10	1:50	676.2	-1500.0	6:40	5:20	1500.0	-305.4	3:10	8:50	1417.7	1500.0
10:05	1:55	712.7	-1500.0	6:35	5:25	1500.0	-266.6	3:05	8:55	1357.0	1500.0
10:00	2:00	750.0	-1500.0	6:30	5:30	1500.0	-228.0	3:00	9:00	1299.0	1500.0
9:55	2:05	788.3	-1500.0	6:25	5:35	1500.0	-189.7	2:55	9:05	1243.6	1500.0
9:50	2:10	827.6	-1500.0	6:20	5:40	1500.0	-151.5	2:50	9:10	1190.3	1500.0
9:45	2:15	868.0	-1500.0	6:15	5:45	1500.0	-113.5	2:45	9:15	-1139.2	1500.0
9:40	2:20	909.6	-1500.0	6:10	5:50	1500.0	-75.6	2:40	9:20	1090.0	1500.0
9:35	2:25	952.5	-1500.0	6:05	5:55	1500.0	-37.8	2:35	9:25	1042.6	1500.0
9:30	2:30	996.8	-1500.0	6:00	6:00	1500.0	0.0	2:30	9:30	996.8	1500.0
9:25	2:35	1042.6	-1500.0	5:55	6:05	1500.0	37.8				
9:20	2:40	1090.0	-1500.0	5:50	6:10	1500.0	75.6				
9:15	2:45	1139.2	-1500.0	5:45	6:15	1500.0	113.5				
9:10	2:50	1190.3	-1500.0	5:40	6:20	1500.0	151.5				
9:05	2:55	1243.6	-1500.0	5:35	6:25	1500.0	189.7				
9:00	3:00	1299.0	-1500.0	5:30	6:30	1500.0	228.0				
8:55	3:05	1357.0	-1500.0	5:25	6:35	1500.0	266.6				
8:50	3:10	1417.7	-1500.0	5:20	6:40	1500.0	305.4				
8:45	3:15	1481.3	-1500.0	5:15	6:45	1500.0	344.5				
8:40	3:20	1500.0	-1453.4	5:10	6:50	1500.0	384.0				
8:35	3:25	1500.0	-1390.1	5:05	6:55	1500.0	423.8				
8:30	3:30	1500.0	-1329.0	5:00	7:00	1500.0	464.1				