

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 59.5° N/S

Earliest Sunrise: 2:39 a.m. Latest Sunset: 9:21 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	-425.5	4:55	7:05	500.0	169.1
11:50	12:10	18.8	-500.0	8:20	3:40	500.0	-406.3	4:50	7:10	500.0	183.0
11:45	12:15	28.2	-500.0	8:15	3:45	500.0	-387.7	4:45	7:15	500.0	197.0
11:40	12:20	37.7	-500.0	8:10	3:50	500.0	-369.7	4:40	7:20	500.0	211.2
11:35	12:25	47.2	-500.0	8:05	3:55	500.0	-352.1	4:35	7:25	500.0	225.7
11:30	12:30	56.7	-500.0	8:00	4:00	500.0	-335.0	4:30	7:30	500.0	240.4
11:25	12:35	66.3	-500.0	7:55	4:05	500.0	-318.4	4:25	7:35	500.0	255.3
11:20	12:40	76.0	-500.0	7:50	4:10	500.0	-302.1	4:20	7:40	500.0	270.6
11:15	12:45	85.7	-500.0	7:45	4:15	500.0	-286.2	4:15	7:45	500.0	286.2
11:10	12:50	95.5	-500.0	7:40	4:20	500.0	-270.6	4:10	7:50	500.0	302.1
11:05	12:55	105.4	-500.0	7:35	4:25	500.0	-255.3	4:05	7:55	500.0	318.4
11:00	1:00	115.4	-500.0	7:30	4:30	500.0	-240.4	4:00	8:00	500.0	335.0
10:55	1:05	125.6	-500.0	7:25	4:35	500.0	-225.7	3:55	8:05	500.0	352.1
10:50	1:10	135.8	-500.0	7:20	4:40	500.0	-211.2	3:50	8:10	500.0	369.7
10:45	1:15	146.2	-500.0	7:15	4:45	500.0	-197.0	3:45	8:15	500.0	387.7
10:40	1:20	156.8	-500.0	7:10	4:50	500.0	-183.0	3:40	8:20	500.0	406.3
10:35	1:25	167.5	-500.0	7:05	4:55	500.0	-169.1	3:35	8:25	500.0	425.5
10:30	1:30	178.4	-500.0	7:00	5:00	500.0	-155.5	3:30	8:30	500.0	445.3
10:25	1:35	189.6	-500.0	6:55	5:05	500.0	-142.0	3:25	8:35	500.0	465.7
10:20	1:40	200.9	-500.0	6:50	5:10	500.0	-128.6	3:20	8:40	500.0	486.9
10:15	1:45	212.5	-500.0	6:45	5:15	500.0	-115.4	3:15	8:45	491.2	500.0
10:10	1:50	224.3	-500.0	6:40	5:20	500.0	-102.3	3:10	8:50	470.2	500.0
10:05	1:55	236.4	-500.0	6:35	5:25	500.0	-89.3	3:05	8:55	450.0	500.0
10:00	2:00	248.7	-500.0	6:30	5:30	500.0	-76.4	3:00	9:00	430.8	500.0
9:55	2:05	261.4	-500.0	6:25	5:35	500.0	-63.6	2:55	9:05	412.4	500.0
9:50	2:10	274.5	-500.0	6:20	5:40	500.0	-50.8	2:50	9:10	394.8	500.0
9:45	2:15	287.9	-500.0	6:15	5:45	500.0	-38.0	2:45	9:15	377.8	500.0
9:40	2:20	301.7	-500.0	6:10	5:50	500.0	-25.3	2:40	9:20	361.5	500.0
9:35	2:25	315.9	-500.0	6:05	5:55	500.0	-12.7	2:35	9:25	345.8	500.0
9:30	2:30	330.6	-500.0	6:00	6:00	500.0	0.0	2:30	9:30	330.6	500.0
9:25	2:35	345.8	-500.0	5:55	6:05	500.0	12.7				
9:20	2:40	361.5	-500.0	5:50	6:10	500.0	25.3				
9:15	2:45	377.8	-500.0	5:45	6:15	500.0	38.0				
9:10	2:50	394.8	-500.0	5:40	6:20	500.0	50.8				
9:05	2:55	412.4	-500.0	5:35	6:25	500.0	63.6				
9:00	3:00	430.8	-500.0	5:30	6:30	500.0	76.4				
8:55	3:05	450.0	-500.0	5:25	6:35	500.0	89.3				
8:50	3:10	470.2	-500.0	5:20	6:40	500.0	102.3				
8:45	3:15	491.2	-500.0	5:15	6:45	500.0	115.4				
8:40	3:20	500.0	-486.9	5:10	6:50	500.0	128.6				
8:35	3:25	500.0	-465.7	5:05	6:55	500.0	142.0				
8:30	3:30	500.0	-445.3	5:00	7:00	500.0	155.5				

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## Horizontal Shadow Plane Sundial

Latitude: 59.5° N/S

Earliest Sunrise: 2:39 a.m. Latest Sunset: 9:21 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	28.2	-1500.0	8:25	3:35	1500.0	-1276.5	4:55	7:05	1500.0	507.4
11:50	12:10	56.4	-1500.0	8:20	3:40	1500.0	-1219.0	4:50	7:10	1500.0	548.9
11:45	12:15	84.7	-1500.0	8:15	3:45	1500.0	-1163.2	4:45	7:15	1500.0	591.0
11:40	12:20	113.1	-1500.0	8:10	3:50	1500.0	-1109.1	4:40	7:20	1500.0	633.6
11:35	12:25	141.5	-1500.0	8:05	3:55	1500.0	-1056.4	4:35	7:25	1500.0	677.0
11:30	12:30	170.2	-1500.0	8:00	4:00	1500.0	-1005.1	4:30	7:30	1500.0	721.1
11:25	12:35	198.9	-1500.0	7:55	4:05	1500.0	-955.1	4:25	7:35	1500.0	766.0
11:20	12:40	227.9	-1500.0	7:50	4:10	1500.0	-906.2	4:20	7:40	1500.0	811.8
11:15	12:45	257.1	-1500.0	7:45	4:15	1500.0	-858.5	4:15	7:45	1500.0	858.5
11:10	12:50	286.5	-1500.0	7:40	4:20	1500.0	-811.8	4:10	7:50	1500.0	906.2
11:05	12:55	316.3	-1500.0	7:35	4:25	1500.0	-766.0	4:05	7:55	1500.0	955.1
11:00	1:00	346.3	-1500.0	7:30	4:30	1500.0	-721.1	4:00	8:00	1500.0	1005.1
10:55	1:05	376.7	-1500.0	7:25	4:35	1500.0	-677.0	3:55	8:05	1500.0	1056.4
10:50	1:10	407.5	-1500.0	7:20	4:40	1500.0	-633.6	3:50	8:10	1500.0	1109.1
10:45	1:15	438.7	-1500.0	7:15	4:45	1500.0	-591.0	3:45	8:15	1500.0	1163.2
10:40	1:20	470.4	-1500.0	7:10	4:50	1500.0	-548.9	3:40	8:20	1500.0	1219.0
10:35	1:25	502.6	-1500.0	7:05	4:55	1500.0	-507.4	3:35	8:25	1500.0	1276.5
10:30	1:30	535.3	-1500.0	7:00	5:00	1500.0	-466.5	3:30	8:30	1500.0	1335.8
10:25	1:35	568.7	-1500.0	6:55	5:05	1500.0	-426.0	3:25	8:35	1500.0	1397.2
10:20	1:40	602.7	-1500.0	6:50	5:10	1500.0	-385.9	3:20	8:40	1500.0	1460.8
10:15	1:45	637.4	-1500.0	6:45	5:15	1500.0	-346.3	3:15	8:45	1473.7	1500.0
10:10	1:50	672.8	-1500.0	6:40	5:20	1500.0	-307.0	3:10	8:50	1410.5	1500.0
10:05	1:55	709.1	-1500.0	6:35	5:25	1500.0	-267.9	3:05	8:55	1350.1	1500.0
10:00	2:00	746.2	-1500.0	6:30	5:30	1500.0	-229.2	3:00	9:00	1292.4	1500.0
9:55	2:05	784.3	-1500.0	6:25	5:35	1500.0	-190.7	2:55	9:05	1237.2	1500.0
9:50	2:10	823.4	-1500.0	6:20	5:40	1500.0	-152.3	2:50	9:10	1184.3	1500.0
9:45	2:15	863.6	-1500.0	6:15	5:45	1500.0	-114.1	2:45	9:15	1133.4	1500.0
9:40	2:20	905.0	-1500.0	6:10	5:50	1500.0	-76.0	2:40	9:20	1084.5	1500.0
9:35	2:25	947.7	-1500.0	6:05	5:55	1500.0	-38.0	2:35	9:25	1037.3	1500.0
9:30	2:30	991.7	-1500.0	6:00	6:00	1500.0	0.0	2:30	9:30	991.7	1500.0
9:25	2:35	1037.3	-1500.0	5:55	6:05	1500.0	38.0				
9:20	2:40	1084.5	-1500.0	5:50	6:10	1500.0	76.0				
9:15	2:45	1133.4	-1500.0	5:45	6:15	1500.0	114.1				
9:10	2:50	1184.3	-1500.0	5:40	6:20	1500.0	152.3				
9:05	2:55	1237.2	-1500.0	5:35	6:25	1500.0	190.7				
9:00	3:00	1292.4	-1500.0	5:30	6:30	1500.0	229.2				
8:55	3:05	1350.1	-1500.0	5:25	6:35	1500.0	267.9				
8:50	3:10	1410.5	-1500.0	5:20	6:40	1500.0	307.0				
8:45	3:15	1473.7	-1500.0	5:15	6:45	1500.0	346.3				
8:40	3:20	1500.0	-1460.8	5:10	6:50	1500.0	385.9				
8:35	3:25	1500.0	-1397.2	5:05	6:55	1500.0	426.0				
8:30	3:30	1500.0	-1335.8	5:00	7:00	1500.0	466.5				