

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 51.0° N/S

Earliest Sunrise: 3:44 a.m. Latest Sunset: 8:16 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	8.5	-500.0	8:25	3:35	500.0	-471.7	4:55	7:05	500.0	187.5
11:50	12:10	17.0	-500.0	8:20	3:40	500.0	-450.5	4:50	7:10	500.0	202.9
11:45	12:15	25.5	-500.0	8:15	3:45	500.0	-429.9	4:45	7:15	500.0	218.4
11:40	12:20	34.0	-500.0	8:10	3:50	500.0	-409.9	4:40	7:20	500.0	234.2
11:35	12:25	42.6	-500.0	8:05	3:55	500.0	-390.4	4:35	7:25	500.0	250.2
11:30	12:30	51.2	-500.0	8:00	4:00	500.0	-371.5	4:30	7:30	500.0	266.5
11:25	12:35	59.8	-500.0	7:55	4:05	500.0	-353.0	4:25	7:35	500.0	283.1
11:20	12:40	68.5	-500.0	7:50	4:10	500.0	-334.9	4:20	7:40	500.0	300.0
11:15	12:45	77.3	-500.0	7:45	4:15	500.0	-317.3	4:15	7:45	500.0	317.3
11:10	12:50	86.1	-500.0	7:40	4:20	500.0	-300.0	4:10	7:50	500.0	334.9
11:05	12:55	95.1	-500.0	7:35	4:25	500.0	-283.1	4:05	7:55	500.0	353.0
11:00	1:00	104.1	-500.0	7:30	4:30	500.0	-266.5	4:00	8:00	500.0	371.5
10:55	1:05	113.3	-500.0	7:25	4:35	500.0	-250.2	3:55	8:05	500.0	390.4
10:50	1:10	122.5	-500.0	7:20	4:40	500.0	-234.2	3:50	8:10	500.0	409.9
10:45	1:15	131.9	-500.0	7:15	4:45	500.0	-218.4	3:45	8:15	500.0	429.9
10:40	1:20	141.4	-500.0	7:10	4:50	500.0	-202.9	3:40	8:20	500.0	450.5
10:35	1:25	151.1	-500.0	7:05	4:55	500.0	-187.5	3:35	8:25	500.0	471.7
10:30	1:30	161.0	-500.0	7:00	5:00	500.0	-172.4	3:30	8:30	500.0	493.7
10:25	1:35	171.0	-500.0	6:55	5:05	500.0	-157.4				
10:20	1:40	181.2	-500.0	6:50	5:10	500.0	-142.6				
10:15	1:45	191.6	-500.0	6:45	5:15	500.0	-128.0				
10:10	1:50	202.3	-500.0	6:40	5:20	500.0	-113.4				
10:05	1:55	213.2	-500.0	6:35	5:25	500.0	-99.0				
10:00	2:00	224.3	-500.0	6:30	5:30	500.0	-84.7				
9:55	2:05	235.8	-500.0	6:25	5:35	500.0	-70.5				
9:50	2:10	247.5	-500.0	6:20	5:40	500.0	-56.3				
9:45	2:15	259.6	-500.0	6:15	5:45	500.0	-42.2				
9:40	2:20	272.1	-500.0	6:10	5:50	500.0	-28.1				
9:35	2:25	284.9	-500.0	6:05	5:55	500.0	-14.0				
9:30	2:30	298.2	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	311.9	-500.0	5:55	6:05	500.0	14.0				
9:20	2:40	326.1	-500.0	5:50	6:10	500.0	28.1				
9:15	2:45	340.8	-500.0	5:45	6:15	500.0	42.2				
9:10	2:50	356.1	-500.0	5:40	6:20	500.0	56.3				
9:05	2:55	372.0	-500.0	5:35	6:25	500.0	70.5				
9:00	3:00	388.6	-500.0	5:30	6:30	500.0	84.7				
8:55	3:05	405.9	-500.0	5:25	6:35	500.0	99.0				
8:50	3:10	424.1	-500.0	5:20	6:40	500.0	113.4				
8:45	3:15	443.1	-500.0	5:15	6:45	500.0	128.0				
8:40	3:20	463.1	-500.0	5:10	6:50	500.0	142.6				
8:35	3:25	484.2	-500.0	5:05	6:55	500.0	157.4				
8:30	3:30	500.0	-493.7	5:00	7:00	500.0	172.4				

## Horizontal Shadow Plane Sundial

Latitude: 51.0° N/S

Earliest Sunrise: 3:44 a.m. Latest Sunset: 8:16 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	25.4	-1500.0	8:25	3:35	1500.0	-1415.2	4:55	7:05	1500.0	562.6
11:50	12:10	50.9	-1500.0	8:20	3:40	1500.0	-1351.5	4:50	7:10	1500.0	608.6
11:45	12:15	76.4	-1500.0	8:15	3:45	1500.0	-1289.7	4:45	7:15	1500.0	655.2
11:40	12:20	102.0	-1500.0	8:10	3:50	1500.0	-1229.6	4:40	7:20	1500.0	702.5
11:35	12:25	127.7	-1500.0	8:05	3:55	1500.0	-1171.2	4:35	7:25	1500.0	750.6
11:30	12:30	153.5	-1500.0	8:00	4:00	1500.0	-1114.4	4:30	7:30	1500.0	799.5
11:25	12:35	179.4	-1500.0	7:55	4:05	1500.0	-1058.9	4:25	7:35	1500.0	849.3
11:20	12:40	205.5	-1500.0	7:50	4:10	1500.0	-1004.8	4:20	7:40	1500.0	900.0
11:15	12:45	231.9	-1500.0	7:45	4:15	1500.0	-951.8	4:15	7:45	1500.0	951.8
11:10	12:50	258.4	-1500.0	7:40	4:20	1500.0	-900.0	4:10	7:50	1500.0	1004.8
11:05	12:55	285.2	-1500.0	7:35	4:25	1500.0	-849.3	4:05	7:55	1500.0	1058.9
11:00	1:00	312.4	-1500.0	7:30	4:30	1500.0	-799.5	4:00	8:00	1500.0	1114.4
10:55	1:05	339.8	-1500.0	7:25	4:35	1500.0	-750.6	3:55	8:05	1500.0	1171.2
10:50	1:10	367.5	-1500.0	7:20	4:40	1500.0	-702.5	3:50	8:10	1500.0	1229.6
10:45	1:15	395.7	-1500.0	7:15	4:45	1500.0	-655.2	3:45	8:15	1500.0	1289.7
10:40	1:20	424.3	-1500.0	7:10	4:50	1500.0	-608.6	3:40	8:20	1500.0	1351.5
10:35	1:25	453.3	-1500.0	7:05	4:55	1500.0	-562.6	3:35	8:25	1500.0	1415.2
10:30	1:30	482.9	-1500.0	7:00	5:00	1500.0	-517.2	3:30	8:30	1500.0	1481.0
10:25	1:35	512.9	-1500.0	6:55	5:05	1500.0	-472.3				
10:20	1:40	543.6	-1500.0	6:50	5:10	1500.0	-427.9				
10:15	1:45	574.9	-1500.0	6:45	5:15	1500.0	-383.9				
10:10	1:50	606.8	-1500.0	6:40	5:20	1500.0	-340.3				
10:05	1:55	639.5	-1500.0	6:35	5:25	1500.0	-297.1				
10:00	2:00	673.0	-1500.0	6:30	5:30	1500.0	-254.1				
9:55	2:05	707.4	-1500.0	6:25	5:35	1500.0	-211.4				
9:50	2:10	742.6	-1500.0	6:20	5:40	1500.0	-168.9				
9:45	2:15	778.9	-1500.0	6:15	5:45	1500.0	-126.5				
9:40	2:20	816.2	-1500.0	6:10	5:50	1500.0	-84.3				
9:35	2:25	854.7	-1500.0	6:05	5:55	1500.0	-42.1				
9:30	2:30	894.5	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	935.6	-1500.0	5:55	6:05	1500.0	42.1				
9:20	2:40	978.2	-1500.0	5:50	6:10	1500.0	84.3				
9:15	2:45	1022.3	-1500.0	5:45	6:15	1500.0	126.5				
9:10	2:50	1068.2	-1500.0	5:40	6:20	1500.0	168.9				
9:05	2:55	1115.9	-1500.0	5:35	6:25	1500.0	211.4				
9:00	3:00	1165.7	-1500.0	5:30	6:30	1500.0	254.1				
8:55	3:05	1217.7	-1500.0	5:25	6:35	1500.0	297.1				
8:50	3:10	1272.2	-1500.0	5:20	6:40	1500.0	340.3				
8:45	3:15	1329.2	-1500.0	5:15	6:45	1500.0	383.9				
8:40	3:20	1389.2	-1500.0	5:10	6:50	1500.0	427.9				
8:35	3:25	1452.5	-1500.0	5:05	6:55	1500.0	472.3				
8:30	3:30	1500.0	-1481.0	5:00	7:00	1500.0	517.2				