

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 58.5° N/S

Earliest Sunrise: 2:49 a.m. Latest Sunset: 9:11 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	9.3	-500.0	8:25	3:35	500.0	-430.0	4:55	7:05	500.0	170.9
11:50	12:10	18.6	-500.0	8:20	3:40	500.0	-410.6	4:50	7:10	500.0	184.9
11:45	12:15	27.9	-500.0	8:15	3:45	500.0	-391.8	4:45	7:15	500.0	199.1
11:40	12:20	37.3	-500.0	8:10	3:50	500.0	-373.6	4:40	7:20	500.0	213.4
11:35	12:25	46.7	-500.0	8:05	3:55	500.0	-355.8	4:35	7:25	500.0	228.0
11:30	12:30	56.1	-500.0	8:00	4:00	500.0	-338.6	4:30	7:30	500.0	242.9
11:25	12:35	65.6	-500.0	7:55	4:05	500.0	-321.7	4:25	7:35	500.0	258.0
11:20	12:40	75.2	-500.0	7:50	4:10	500.0	-305.3	4:20	7:40	500.0	273.4
11:15	12:45	84.8	-500.0	7:45	4:15	500.0	-289.2	4:15	7:45	500.0	289.2
11:10	12:50	94.5	-500.0	7:40	4:20	500.0	-273.4	4:10	7:50	500.0	305.3
11:05	12:55	104.3	-500.0	7:35	4:25	500.0	-258.0	4:05	7:55	500.0	321.7
11:00	1:00	114.2	-500.0	7:30	4:30	500.0	-242.9	4:00	8:00	500.0	338.6
10:55	1:05	124.3	-500.0	7:25	4:35	500.0	-228.0	3:55	8:05	500.0	355.8
10:50	1:10	134.4	-500.0	7:20	4:40	500.0	-213.4	3:50	8:10	500.0	373.6
10:45	1:15	144.7	-500.0	7:15	4:45	500.0	-199.1	3:45	8:15	500.0	391.8
10:40	1:20	155.2	-500.0	7:10	4:50	500.0	-184.9	3:40	8:20	500.0	410.6
10:35	1:25	165.8	-500.0	7:05	4:55	500.0	-170.9	3:35	8:25	500.0	430.0
10:30	1:30	176.6	-500.0	7:00	5:00	500.0	-157.1	3:30	8:30	500.0	450.0
10:25	1:35	187.6	-500.0	6:55	5:05	500.0	-143.5	3:25	8:35	500.0	470.6
10:20	1:40	198.8	-500.0	6:50	5:10	500.0	-130.0	3:20	8:40	500.0	492.1
10:15	1:45	210.2	-500.0	6:45	5:15	500.0	-116.6	3:15	8:45	486.1	500.0
10:10	1:50	221.9	-500.0	6:40	5:20	500.0	-103.4	3:10	8:50	465.2	500.0
10:05	1:55	233.9	-500.0	6:35	5:25	500.0	-90.3	3:05	8:55	445.3	500.0
10:00	2:00	246.1	-500.0	6:30	5:30	500.0	-77.2	3:00	9:00	426.3	500.0
9:55	2:05	258.7	-500.0	6:25	5:35	500.0	-64.2	2:55	9:05	408.1	500.0
9:50	2:10	271.6	-500.0	6:20	5:40	500.0	-51.3	2:50	9:10	390.7	500.0
9:45	2:15	284.9	-500.0	6:15	5:45	500.0	-38.4	2:45	9:15	373.9	500.0
9:40	2:20	298.5	-500.0	6:10	5:50	500.0	-25.6				
9:35	2:25	312.6	-500.0	6:05	5:55	500.0	-12.8				
9:30	2:30	327.1	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	342.2	-500.0	5:55	6:05	500.0	12.8				
9:20	2:40	357.7	-500.0	5:50	6:10	500.0	25.6				
9:15	2:45	373.9	-500.0	5:45	6:15	500.0	38.4				
9:10	2:50	390.7	-500.0	5:40	6:20	500.0	51.3				
9:05	2:55	408.1	-500.0	5:35	6:25	500.0	64.2				
9:00	3:00	426.3	-500.0	5:30	6:30	500.0	77.2				
8:55	3:05	445.3	-500.0	5:25	6:35	500.0	90.3				
8:50	3:10	465.2	-500.0	5:20	6:40	500.0	103.4				
8:45	3:15	486.1	-500.0	5:15	6:45	500.0	116.6				
8:40	3:20	500.0	-492.1	5:10	6:50	500.0	130.0				
8:35	3:25	500.0	-470.6	5:05	6:55	500.0	143.5				
8:30	3:30	500.0	-450.0	5:00	7:00	500.0	157.1				

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## Horizontal Shadow Plane Sundial

Latitude: 58.5° N/S

Earliest Sunrise: 2:49 a.m. Latest Sunset: 9:11 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	27.9	-1500.0	8:25	3:35	1500.0	-1289.9	4:55	7:05	1500.0	512.8
11:50	12:10	55.8	-1500.0	8:20	3:40	1500.0	-1231.8	4:50	7:10	1500.0	554.7
11:45	12:15	83.8	-1500.0	8:15	3:45	1500.0	-1175.5	4:45	7:15	1500.0	597.2
11:40	12:20	111.9	-1500.0	8:10	3:50	1500.0	-1120.8	4:40	7:20	1500.0	640.3
11:35	12:25	140.1	-1500.0	8:05	3:55	1500.0	-1067.5	4:35	7:25	1500.0	684.1
11:30	12:30	168.4	-1500.0	8:00	4:00	1500.0	-1015.7	4:30	7:30	1500.0	728.7
11:25	12:35	196.9	-1500.0	7:55	4:05	1500.0	-965.2	4:25	7:35	1500.0	774.1
11:20	12:40	225.5	-1500.0	7:50	4:10	1500.0	-915.8	4:20	7:40	1500.0	820.3
11:15	12:45	254.4	-1500.0	7:45	4:15	1500.0	-867.6	4:15	7:45	1500.0	867.6
11:10	12:50	283.5	-1500.0	7:40	4:20	1500.0	-820.3	4:10	7:50	1500.0	915.8
11:05	12:55	313.0	-1500.0	7:35	4:25	1500.0	-774.1	4:05	7:55	1500.0	965.2
11:00	1:00	342.7	-1500.0	7:30	4:30	1500.0	-728.7	4:00	8:00	1500.0	1015.7
10:55	1:05	372.8	-1500.0	7:25	4:35	1500.0	-684.1	3:55	8:05	1500.0	1067.5
10:50	1:10	403.3	-1500.0	7:20	4:40	1500.0	-640.3	3:50	8:10	1500.0	1120.8
10:45	1:15	434.1	-1500.0	7:15	4:45	1500.0	-597.2	3:45	8:15	1500.0	1175.5
10:40	1:20	465.5	-1500.0	7:10	4:50	1500.0	-554.7	3:40	8:20	1500.0	1231.8
10:35	1:25	497.4	-1500.0	7:05	4:55	1500.0	-512.8	3:35	8:25	1500.0	1289.9
10:30	1:30	529.8	-1500.0	7:00	5:00	1500.0	-471.4	3:30	8:30	1500.0	1349.9
10:25	1:35	562.8	-1500.0	6:55	5:05	1500.0	-430.5	3:25	8:35	1500.0	1411.9
10:20	1:40	596.4	-1500.0	6:50	5:10	1500.0	-390.0	3:20	8:40	1500.0	1476.2
10:15	1:45	630.7	-1500.0	6:45	5:15	1500.0	-349.9	3:15	8:45	1458.4	1500.0
10:10	1:50	665.8	-1500.0	6:40	5:20	1500.0	-310.2	3:10	8:50	1395.7	1500.0
10:05	1:55	701.7	-1500.0	6:35	5:25	1500.0	-270.8	3:05	8:55	1336.0	1500.0
10:00	2:00	738.4	-1500.0	6:30	5:30	1500.0	-231.6	3:00	9:00	1279.0	1500.0
9:55	2:05	776.1	-1500.0	6:25	5:35	1500.0	-192.7	2:55	9:05	1224.3	1500.0
9:50	2:10	814.8	-1500.0	6:20	5:40	1500.0	-153.9	2:50	9:10	1172.0	1500.0
9:45	2:15	854.6	-1500.0	6:15	5:45	1500.0	-115.3	2:45	9:15	1121.6	1500.0
9:40	2:20	895.5	-1500.0	6:10	5:50	1500.0	-76.8				
9:35	2:25	937.8	-1500.0	6:05	5:55	1500.0	-38.4				
9:30	2:30	981.4	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	1026.5	-1500.0	5:55	6:05	1500.0	38.4				
9:20	2:40	1073.2	-1500.0	5:50	6:10	1500.0	76.8				
9:15	2:45	1121.6	-1500.0	5:45	6:15	1500.0	115.3				
9:10	2:50	1172.0	-1500.0	5:40	6:20	1500.0	153.9				
9:05	2:55	1224.3	-1500.0	5:35	6:25	1500.0	192.7				
9:00	3:00	1279.0	-1500.0	5:30	6:30	1500.0	231.6				
8:55	3:05	1336.0	-1500.0	5:25	6:35	1500.0	270.8				
8:50	3:10	1395.7	-1500.0	5:20	6:40	1500.0	310.2				
8:45	3:15	1458.4	-1500.0	5:15	6:45	1500.0	349.9				
8:40	3:20	1500.0	-1476.2	5:10	6:50	1500.0	390.0				
8:35	3:25	1500.0	-1411.9	5:05	6:55	1500.0	430.5				
8:30	3:30	1500.0	-1349.9	5:00	7:00	1500.0	471.4				