

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 39.0° N/S

Earliest Sunrise: 4:32 a.m. Latest Sunset: 7:28 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	6.9	-500.0	8:25	3:35	429.1	-500.0	4:55	7:05	500.0	231.6
11:50	12:10	13.7	-500.0	8:20	3:40	449.4	-500.0	4:50	7:10	500.0	250.5
11:45	12:15	20.6	-500.0	8:15	3:45	470.9	-500.0	4:45	7:15	500.0	269.7
11:40	12:20	27.5	-500.0	8:10	3:50	493.9	-500.0	4:40	7:20	500.0	289.2
11:35	12:25	34.5	-500.0	8:05	3:55	500.0	-482.1	4:35	7:25	500.0	309.0
11:30	12:30	41.4	-500.0	8:00	4:00	500.0	-458.7	4:30	7:30	500.0	329.1
11:25	12:35	48.4	-500.0	7:55	4:05	500.0	-435.9				
11:20	12:40	55.5	-500.0	7:50	4:10	500.0	-413.6				
11:15	12:45	62.6	-500.0	7:45	4:15	500.0	-391.8				
11:10	12:50	69.8	-500.0	7:40	4:20	500.0	-370.5				
11:05	12:55	77.0	-500.0	7:35	4:25	500.0	-349.6				
11:00	1:00	84.3	-500.0	7:30	4:30	500.0	-329.1				
10:55	1:05	91.7	-500.0	7:25	4:35	500.0	-309.0				
10:50	1:10	99.2	-500.0	7:20	4:40	500.0	-289.2				
10:45	1:15	106.8	-500.0	7:15	4:45	500.0	-269.7				
10:40	1:20	114.5	-500.0	7:10	4:50	500.0	-250.5				
10:35	1:25	122.4	-500.0	7:05	4:55	500.0	-231.6				
10:30	1:30	130.3	-500.0	7:00	5:00	500.0	-212.9				
10:25	1:35	138.5	-500.0	6:55	5:05	500.0	-194.4				
10:20	1:40	146.7	-500.0	6:50	5:10	500.0	-176.1				
10:15	1:45	155.2	-500.0	6:45	5:15	500.0	-158.0				
10:10	1:50	163.8	-500.0	6:40	5:20	500.0	-140.1				
10:05	1:55	172.6	-500.0	6:35	5:25	500.0	-122.3				
10:00	2:00	181.7	-500.0	6:30	5:30	500.0	-104.6				
9:55	2:05	190.9	-500.0	6:25	5:35	500.0	-87.0				
9:50	2:10	200.5	-500.0	6:20	5:40	500.0	-69.5				
9:45	2:15	210.2	-500.0	6:15	5:45	500.0	-52.1				
9:40	2:20	220.3	-500.0	6:10	5:50	500.0	-34.7				
9:35	2:25	230.7	-500.0	6:05	5:55	500.0	-17.3				
9:30	2:30	241.4	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	252.5	-500.0	5:55	6:05	500.0	17.3				
9:20	2:40	264.0	-500.0	5:50	6:10	500.0	34.7				
9:15	2:45	275.9	-500.0	5:45	6:15	500.0	52.1				
9:10	2:50	288.3	-500.0	5:40	6:20	500.0	69.5				
9:05	2:55	301.2	-500.0	5:35	6:25	500.0	87.0				
9:00	3:00	314.7	-500.0	5:30	6:30	500.0	104.6				
8:55	3:05	328.7	-500.0	5:25	6:35	500.0	122.3				
8:50	3:10	343.4	-500.0	5:20	6:40	500.0	140.1				
8:45	3:15	358.8	-500.0	5:15	6:45	500.0	158.0				
8:40	3:20	375.0	-500.0	5:10	6:50	500.0	176.1				
8:35	3:25	392.1	-500.0	5:05	6:55	500.0	194.4				
8:30	3:30	410.1	-500.0	5:00	7:00	500.0	212.9				

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## Horizontal Shadow Plane Sundial

Latitude: 39.0° N/S

Earliest Sunrise: 4:32 a.m. Latest Sunset: 7:28 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	20.6	-1500.0	8:25	3:35	1287.4	-1500.0	4:55	7:05	1500.0	694.7
11:50	12:10	41.2	-1500.0	8:20	3:40	1348.1	-1500.0	4:50	7:10	1500.0	751.5
11:45	12:15	61.9	-1500.0	8:15	3:45	1412.8	-1500.0	4:45	7:15	1500.0	809.1
11:40	12:20	82.6	-1500.0	8:10	3:50	1481.8	-1500.0	4:40	7:20	1500.0	867.5
11:35	12:25	103.4	-1500.0	8:05	3:55	1500.0	-1446.4	4:35	7:25	1500.0	926.9
11:30	12:30	124.3	-1500.0	8:00	4:00	1500.0	-1376.1	4:30	7:30	1500.0	987.3
11:25	12:35	145.3	-1500.0	7:55	4:05	1500.0	-1307.6				
11:20	12:40	166.4	-1500.0	7:50	4:10	1500.0	-1240.8				
11:15	12:45	187.8	-1500.0	7:45	4:15	1500.0	-1175.4				
11:10	12:50	209.3	-1500.0	7:40	4:20	1500.0	-1111.5				
11:05	12:55	231.0	-1500.0	7:35	4:25	1500.0	-1048.8				
11:00	1:00	252.9	-1500.0	7:30	4:30	1500.0	-987.3				
10:55	1:05	275.1	-1500.0	7:25	4:35	1500.0	-926.9				
10:50	1:10	297.6	-1500.0	7:20	4:40	1500.0	-867.5				
10:45	1:15	320.4	-1500.0	7:15	4:45	1500.0	-809.1				
10:40	1:20	343.6	-1500.0	7:10	4:50	1500.0	-751.5				
10:35	1:25	367.1	-1500.0	7:05	4:55	1500.0	-694.7				
10:30	1:30	391.0	-1500.0	7:00	5:00	1500.0	-638.7				
10:25	1:35	415.4	-1500.0	6:55	5:05	1500.0	-583.2				
10:20	1:40	440.2	-1500.0	6:50	5:10	1500.0	-528.4				
10:15	1:45	465.5	-1500.0	6:45	5:15	1500.0	-474.1				
10:10	1:50	491.4	-1500.0	6:40	5:20	1500.0	-420.3				
10:05	1:55	517.9	-1500.0	6:35	5:25	1500.0	-366.9				
10:00	2:00	545.0	-1500.0	6:30	5:30	1500.0	-313.8				
9:55	2:05	572.8	-1500.0	6:25	5:35	1500.0	-261.0				
9:50	2:10	601.4	-1500.0	6:20	5:40	1500.0	-208.5				
9:45	2:15	630.7	-1500.0	6:15	5:45	1500.0	-156.2				
9:40	2:20	661.0	-1500.0	6:10	5:50	1500.0	-104.1				
9:35	2:25	692.2	-1500.0	6:05	5:55	1500.0	-52.0				
9:30	2:30	724.3	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	757.6	-1500.0	5:55	6:05	1500.0	52.0				
9:20	2:40	792.1	-1500.0	5:50	6:10	1500.0	104.1				
9:15	2:45	827.8	-1500.0	5:45	6:15	1500.0	156.2				
9:10	2:50	865.0	-1500.0	5:40	6:20	1500.0	208.5				
9:05	2:55	903.7	-1500.0	5:35	6:25	1500.0	261.0				
9:00	3:00	944.0	-1500.0	5:30	6:30	1500.0	313.8				
8:55	3:05	986.1	-1500.0	5:25	6:35	1500.0	366.9				
8:50	3:10	1030.2	-1500.0	5:20	6:40	1500.0	420.3				
8:45	3:15	1076.4	-1500.0	5:15	6:45	1500.0	474.1				
8:40	3:20	1125.0	-1500.0	5:10	6:50	1500.0	528.4				
8:35	3:25	1176.2	-1500.0	5:05	6:55	1500.0	583.2				
8:30	3:30	1230.2	-1500.0	5:00	7:00	1500.0	638.7				