

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 37.5° N/S

Earliest Sunrise: 4:37 a.m. Latest Sunset: 7:23 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	6.6	-500.0	8:25	3:35	415.1	-500.0	4:55	7:05	500.0	239.4
11:50	12:10	13.3	-500.0	8:20	3:40	434.7	-500.0	4:50	7:10	500.0	259.0
11:45	12:15	20.0	-500.0	8:15	3:45	455.5	-500.0	4:45	7:15	500.0	278.8
11:40	12:20	26.6	-500.0	8:10	3:50	477.8	-500.0	4:40	7:20	500.0	298.9
11:35	12:25	33.3	-500.0	8:05	3:55	500.0	-498.4	4:35	7:25	500.0	319.4
11:30	12:30	40.1	-500.0	8:00	4:00	500.0	-474.2	4:30	7:30	500.0	340.2
11:25	12:35	46.8	-500.0	7:55	4:05	500.0	-450.6				
11:20	12:40	53.7	-500.0	7:50	4:10	500.0	-427.6				
11:15	12:45	60.5	-500.0	7:45	4:15	500.0	-405.0				
11:10	12:50	67.5	-500.0	7:40	4:20	500.0	-383.0				
11:05	12:55	74.5	-500.0	7:35	4:25	500.0	-361.4				
11:00	1:00	81.6	-500.0	7:30	4:30	500.0	-340.2				
10:55	1:05	88.7	-500.0	7:25	4:35	500.0	-319.4				
10:50	1:10	96.0	-500.0	7:20	4:40	500.0	-298.9				
10:45	1:15	103.3	-500.0	7:15	4:45	500.0	-278.8				
10:40	1:20	110.8	-500.0	7:10	4:50	500.0	-259.0				
10:35	1:25	118.4	-500.0	7:05	4:55	500.0	-239.4				
10:30	1:30	126.1	-500.0	7:00	5:00	500.0	-220.1				
10:25	1:35	133.9	-500.0	6:55	5:05	500.0	-201.0				
10:20	1:40	141.9	-500.0	6:50	5:10	500.0	-182.1				
10:15	1:45	150.1	-500.0	6:45	5:15	500.0	-163.4				
10:10	1:50	158.5	-500.0	6:40	5:20	500.0	-144.8				
10:05	1:55	167.0	-500.0	6:35	5:25	500.0	-126.4				
10:00	2:00	175.7	-500.0	6:30	5:30	500.0	-108.1				
9:55	2:05	184.7	-500.0	6:25	5:35	500.0	-90.0				
9:50	2:10	193.9	-500.0	6:20	5:40	500.0	-71.9				
9:45	2:15	203.4	-500.0	6:15	5:45	500.0	-53.8				
9:40	2:20	213.1	-500.0	6:10	5:50	500.0	-35.9				
9:35	2:25	223.2	-500.0	6:05	5:55	500.0	-17.9				
9:30	2:30	233.6	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	244.3	-500.0	5:55	6:05	500.0	17.9				
9:20	2:40	255.4	-500.0	5:50	6:10	500.0	35.9				
9:15	2:45	266.9	-500.0	5:45	6:15	500.0	53.8				
9:10	2:50	278.9	-500.0	5:40	6:20	500.0	71.9				
9:05	2:55	291.4	-500.0	5:35	6:25	500.0	90.0				
9:00	3:00	304.4	-500.0	5:30	6:30	500.0	108.1				
8:55	3:05	318.0	-500.0	5:25	6:35	500.0	126.4				
8:50	3:10	332.2	-500.0	5:20	6:40	500.0	144.8				
8:45	3:15	347.1	-500.0	5:15	6:45	500.0	163.4				
8:40	3:20	362.7	-500.0	5:10	6:50	500.0	182.1				
8:35	3:25	379.3	-500.0	5:05	6:55	500.0	201.0				
8:30	3:30	396.7	-500.0	5:00	7:00	500.0	220.1				

## Horizontal Shadow Plane Sundial

Latitude: 37.5° N/S

Earliest Sunrise: 4:37 a.m. Latest Sunset: 7:23 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	19.9	-1500.0	8:25	3:35	1245.4	-1500.0	4:55	7:05	1500.0	718.2
11:50	12:10	39.9	-1500.0	8:20	3:40	1304.1	-1500.0	4:50	7:10	1500.0	776.9
11:45	12:15	59.9	-1500.0	8:15	3:45	1366.6	-1500.0	4:45	7:15	1500.0	836.4
11:40	12:20	79.9	-1500.0	8:10	3:50	1433.3	-1500.0	4:40	7:20	1500.0	896.8
11:35	12:25	100.0	-1500.0	8:05	3:55	1500.0	-1495.2	4:35	7:25	1500.0	958.2
11:30	12:30	120.2	-1500.0	8:00	4:00	1500.0	-1422.6	4:30	7:30	1500.0	1020.6
11:25	12:35	140.5	-1500.0	7:55	4:05	1500.0	-1351.8				
11:20	12:40	161.0	-1500.0	7:50	4:10	1500.0	-1282.7				
11:15	12:45	181.6	-1500.0	7:45	4:15	1500.0	-1215.1				
11:10	12:50	202.4	-1500.0	7:40	4:20	1500.0	-1149.0				
11:05	12:55	223.4	-1500.0	7:35	4:25	1500.0	-1084.2				
11:00	1:00	244.7	-1500.0	7:30	4:30	1500.0	-1020.6				
10:55	1:05	266.2	-1500.0	7:25	4:35	1500.0	-958.2				
10:50	1:10	287.9	-1500.0	7:20	4:40	1500.0	-896.8				
10:45	1:15	310.0	-1500.0	7:15	4:45	1500.0	-836.4				
10:40	1:20	332.4	-1500.0	7:10	4:50	1500.0	-776.9				
10:35	1:25	355.1	-1500.0	7:05	4:55	1500.0	-718.2				
10:30	1:30	378.2	-1500.0	7:00	5:00	1500.0	-660.2				
10:25	1:35	401.8	-1500.0	6:55	5:05	1500.0	-602.9				
10:20	1:40	425.8	-1500.0	6:50	5:10	1500.0	-546.3				
10:15	1:45	450.3	-1500.0	6:45	5:15	1500.0	-490.1				
10:10	1:50	475.4	-1500.0	6:40	5:20	1500.0	-434.5				
10:05	1:55	501.0	-1500.0	6:35	5:25	1500.0	-379.2				
10:00	2:00	527.2	-1500.0	6:30	5:30	1500.0	-324.4				
9:55	2:05	554.1	-1500.0	6:25	5:35	1500.0	-269.9				
9:50	2:10	581.7	-1500.0	6:20	5:40	1500.0	-215.6				
9:45	2:15	610.1	-1500.0	6:15	5:45	1500.0	-161.5				
9:40	2:20	639.4	-1500.0	6:10	5:50	1500.0	-107.6				
9:35	2:25	669.5	-1500.0	6:05	5:55	1500.0	-53.8				
9:30	2:30	700.7	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	732.9	-1500.0	5:55	6:05	1500.0	53.8				
9:20	2:40	766.2	-1500.0	5:50	6:10	1500.0	107.6				
9:15	2:45	800.8	-1500.0	5:45	6:15	1500.0	161.5				
9:10	2:50	836.7	-1500.0	5:40	6:20	1500.0	215.6				
9:05	2:55	874.1	-1500.0	5:35	6:25	1500.0	269.9				
9:00	3:00	913.1	-1500.0	5:30	6:30	1500.0	324.4				
8:55	3:05	953.9	-1500.0	5:25	6:35	1500.0	379.2				
8:50	3:10	996.5	-1500.0	5:20	6:40	1500.0	434.5				
8:45	3:15	1041.2	-1500.0	5:15	6:45	1500.0	490.1				
8:40	3:20	1088.2	-1500.0	5:10	6:50	1500.0	546.3				
8:35	3:25	1137.8	-1500.0	5:05	6:55	1500.0	602.9				
8:30	3:30	1190.0	-1500.0	5:00	7:00	1500.0	660.2				