

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 36.5° N/S

Earliest Sunrise: 4:40 a.m. Latest Sunset: 7:20 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	6.5	-500.0	8:25	3:35	405.6	-500.0	4:55	7:05	500.0	245.0
11:50	12:10	13.0	-500.0	8:20	3:40	424.7	-500.0	4:50	7:10	500.0	265.0
11:45	12:15	19.5	-500.0	8:15	3:45	445.1	-500.0	4:45	7:15	500.0	285.3
11:40	12:20	26.0	-500.0	8:10	3:50	466.8	-500.0	4:40	7:20	500.0	305.9
11:35	12:25	32.6	-500.0	8:05	3:55	490.1	-500.0	4:35	7:25	500.0	326.9
11:30	12:30	39.2	-500.0	8:00	4:00	500.0	-485.3	4:30	7:30	500.0	348.2
11:25	12:35	45.8	-500.0	7:55	4:05	500.0	-461.2				
11:20	12:40	52.4	-500.0	7:50	4:10	500.0	-437.6				
11:15	12:45	59.2	-500.0	7:45	4:15	500.0	-414.5				
11:10	12:50	65.9	-500.0	7:40	4:20	500.0	-392.0				
11:05	12:55	72.8	-500.0	7:35	4:25	500.0	-369.9				
11:00	1:00	79.7	-500.0	7:30	4:30	500.0	-348.2				
10:55	1:05	86.7	-500.0	7:25	4:35	500.0	-326.9				
10:50	1:10	93.8	-500.0	7:20	4:40	500.0	-305.9				
10:45	1:15	101.0	-500.0	7:15	4:45	500.0	-285.3				
10:40	1:20	108.2	-500.0	7:10	4:50	500.0	-265.0				
10:35	1:25	115.7	-500.0	7:05	4:55	500.0	-245.0				
10:30	1:30	123.2	-500.0	7:00	5:00	500.0	-225.2				
10:25	1:35	130.9	-500.0	6:55	5:05	500.0	-205.7				
10:20	1:40	138.7	-500.0	6:50	5:10	500.0	-186.4				
10:15	1:45	146.7	-500.0	6:45	5:15	500.0	-167.2				
10:10	1:50	154.8	-500.0	6:40	5:20	500.0	-148.2				
10:05	1:55	163.2	-500.0	6:35	5:25	500.0	-129.4				
10:00	2:00	171.7	-500.0	6:30	5:30	500.0	-110.7				
9:55	2:05	180.5	-500.0	6:25	5:35	500.0	-92.1				
9:50	2:10	189.5	-500.0	6:20	5:40	500.0	-73.5				
9:45	2:15	198.7	-500.0	6:15	5:45	500.0	-55.1				
9:40	2:20	208.2	-500.0	6:10	5:50	500.0	-36.7				
9:35	2:25	218.1	-500.0	6:05	5:55	500.0	-18.3				
9:30	2:30	228.2	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	238.7	-500.0	5:55	6:05	500.0	18.3				
9:20	2:40	249.6	-500.0	5:50	6:10	500.0	36.7				
9:15	2:45	260.8	-500.0	5:45	6:15	500.0	55.1				
9:10	2:50	272.5	-500.0	5:40	6:20	500.0	73.5				
9:05	2:55	284.7	-500.0	5:35	6:25	500.0	92.1				
9:00	3:00	297.4	-500.0	5:30	6:30	500.0	110.7				
8:55	3:05	310.7	-500.0	5:25	6:35	500.0	129.4				
8:50	3:10	324.6	-500.0	5:20	6:40	500.0	148.2				
8:45	3:15	339.1	-500.0	5:15	6:45	500.0	167.2				
8:40	3:20	354.4	-500.0	5:10	6:50	500.0	186.4				
8:35	3:25	370.6	-500.0	5:05	6:55	500.0	205.7				
8:30	3:30	387.6	-500.0	5:00	7:00	500.0	225.2				

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## Horizontal Shadow Plane Sundial

Latitude: 36.5° N/S

Earliest Sunrise: 4:40 a.m. Latest Sunset: 7:20 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	19.5	-1500.0	8:25	3:35	1216.9	-1500.0	4:55	7:05	1500.0	735.0
11:50	12:10	39.0	-1500.0	8:20	3:40	1274.2	-1500.0	4:50	7:10	1500.0	795.1
11:45	12:15	58.5	-1500.0	8:15	3:45	1335.3	-1500.0	4:45	7:15	1500.0	856.0
11:40	12:20	78.1	-1500.0	8:10	3:50	1400.5	-1500.0	4:40	7:20	1500.0	917.8
11:35	12:25	97.7	-1500.0	8:05	3:55	1470.4	-1500.0	4:35	7:25	1500.0	980.7
11:30	12:30	117.5	-1500.0	8:00	4:00	1500.0	-1455.9	4:30	7:30	1500.0	1044.5
11:25	12:35	137.3	-1500.0	7:55	4:05	1500.0	-1383.5				
11:20	12:40	157.3	-1500.0	7:50	4:10	1500.0	-1312.7				
11:15	12:45	177.5	-1500.0	7:45	4:15	1500.0	-1243.6				
11:10	12:50	197.8	-1500.0	7:40	4:20	1500.0	-1175.9				
11:05	12:55	218.3	-1500.0	7:35	4:25	1500.0	-1109.6				
11:00	1:00	239.1	-1500.0	7:30	4:30	1500.0	-1044.5				
10:55	1:05	260.1	-1500.0	7:25	4:35	1500.0	-980.7				
10:50	1:10	281.3	-1500.0	7:20	4:40	1500.0	-917.8				
10:45	1:15	302.9	-1500.0	7:15	4:45	1500.0	-856.0				
10:40	1:20	324.7	-1500.0	7:10	4:50	1500.0	-795.1				
10:35	1:25	347.0	-1500.0	7:05	4:55	1500.0	-735.0				
10:30	1:30	369.6	-1500.0	7:00	5:00	1500.0	-675.7				
10:25	1:35	392.6	-1500.0	6:55	5:05	1500.0	-617.1				
10:20	1:40	416.1	-1500.0	6:50	5:10	1500.0	-559.1				
10:15	1:45	440.0	-1500.0	6:45	5:15	1500.0	-501.6				
10:10	1:50	464.5	-1500.0	6:40	5:20	1500.0	-444.7				
10:05	1:55	489.5	-1500.0	6:35	5:25	1500.0	-388.1				
10:00	2:00	515.1	-1500.0	6:30	5:30	1500.0	-332.0				
9:55	2:05	541.4	-1500.0	6:25	5:35	1500.0	-276.2				
9:50	2:10	568.4	-1500.0	6:20	5:40	1500.0	-220.6				
9:45	2:15	596.2	-1500.0	6:15	5:45	1500.0	-165.3				
9:40	2:20	624.7	-1500.0	6:10	5:50	1500.0	-110.1				
9:35	2:25	654.2	-1500.0	6:05	5:55	1500.0	-55.0				
9:30	2:30	684.6	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	716.1	-1500.0	5:55	6:05	1500.0	55.0				
9:20	2:40	748.7	-1500.0	5:50	6:10	1500.0	110.1				
9:15	2:45	782.5	-1500.0	5:45	6:15	1500.0	165.3				
9:10	2:50	817.6	-1500.0	5:40	6:20	1500.0	220.6				
9:05	2:55	854.1	-1500.0	5:35	6:25	1500.0	276.2				
9:00	3:00	892.2	-1500.0	5:30	6:30	1500.0	332.0				
8:55	3:05	932.0	-1500.0	5:25	6:35	1500.0	388.1				
8:50	3:10	973.7	-1500.0	5:20	6:40	1500.0	444.7				
8:45	3:15	1017.4	-1500.0	5:15	6:45	1500.0	501.6				
8:40	3:20	1063.3	-1500.0	5:10	6:50	1500.0	559.1				
8:35	3:25	1111.7	-1500.0	5:05	6:55	1500.0	617.1				
8:30	3:30	1162.8	-1500.0	5:00	7:00	1500.0	675.7				