

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 38.0° N/S

Earliest Sunrise: 4:35 a.m. Latest Sunset: 7:25 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	6.7	-500.0	8:25	3:35	419.8	-500.0	4:55	7:05	500.0	236.7
11:50	12:10	13.4	-500.0	8:20	3:40	439.6	-500.0	4:50	7:10	500.0	256.1
11:45	12:15	20.2	-500.0	8:15	3:45	460.7	-500.0	4:45	7:15	500.0	275.7
11:40	12:20	26.9	-500.0	8:10	3:50	483.2	-500.0	4:40	7:20	500.0	295.6
11:35	12:25	33.7	-500.0	8:05	3:55	500.0	-492.8	4:35	7:25	500.0	315.8
11:30	12:30	40.5	-500.0	8:00	4:00	500.0	-468.9	4:30	7:30	500.0	336.4
11:25	12:35	47.4	-500.0	7:55	4:05	500.0	-445.6				
11:20	12:40	54.3	-500.0	7:50	4:10	500.0	-422.8				
11:15	12:45	61.2	-500.0	7:45	4:15	500.0	-400.5				
11:10	12:50	68.2	-500.0	7:40	4:20	500.0	-378.7				
11:05	12:55	75.3	-500.0	7:35	4:25	500.0	-357.3				
11:00	1:00	82.5	-500.0	7:30	4:30	500.0	-336.4				
10:55	1:05	89.7	-500.0	7:25	4:35	500.0	-315.8				
10:50	1:10	97.1	-500.0	7:20	4:40	500.0	-295.6				
10:45	1:15	104.5	-500.0	7:15	4:45	500.0	-275.7				
10:40	1:20	112.0	-500.0	7:10	4:50	500.0	-256.1				
10:35	1:25	119.7	-500.0	7:05	4:55	500.0	-236.7				
10:30	1:30	127.5	-500.0	7:00	5:00	500.0	-217.6				
10:25	1:35	135.4	-500.0	6:55	5:05	500.0	-198.7				
10:20	1:40	143.5	-500.0	6:50	5:10	500.0	-180.0				
10:15	1:45	151.8	-500.0	6:45	5:15	500.0	-161.5				
10:10	1:50	160.2	-500.0	6:40	5:20	500.0	-143.2				
10:05	1:55	168.9	-500.0	6:35	5:25	500.0	-125.0				
10:00	2:00	177.7	-500.0	6:30	5:30	500.0	-106.9				
9:55	2:05	186.8	-500.0	6:25	5:35	500.0	-88.9				
9:50	2:10	196.1	-500.0	6:20	5:40	500.0	-71.1				
9:45	2:15	205.7	-500.0	6:15	5:45	500.0	-53.2				
9:40	2:20	215.5	-500.0	6:10	5:50	500.0	-35.5				
9:35	2:25	225.7	-500.0	6:05	5:55	500.0	-17.7				
9:30	2:30	236.2	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	247.1	-500.0	5:55	6:05	500.0	17.7				
9:20	2:40	258.3	-500.0	5:50	6:10	500.0	35.5				
9:15	2:45	270.0	-500.0	5:45	6:15	500.0	53.2				
9:10	2:50	282.1	-500.0	5:40	6:20	500.0	71.1				
9:05	2:55	294.7	-500.0	5:35	6:25	500.0	88.9				
9:00	3:00	307.8	-500.0	5:30	6:30	500.0	106.9				
8:55	3:05	321.6	-500.0	5:25	6:35	500.0	125.0				
8:50	3:10	335.9	-500.0	5:20	6:40	500.0	143.2				
8:45	3:15	351.0	-500.0	5:15	6:45	500.0	161.5				
8:40	3:20	366.9	-500.0	5:10	6:50	500.0	180.0				
8:35	3:25	383.5	-500.0	5:05	6:55	500.0	198.7				
8:30	3:30	401.2	-500.0	5:00	7:00	500.0	217.6				

## Horizontal Shadow Plane Sundial

Latitude: 38.0° N/S

Earliest Sunrise: 4:35 a.m. Latest Sunset: 7:25 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	20.2	-1500.0	8:25	3:35	1259.5	-1500.0	4:55	7:05	1500.0	710.1
11:50	12:10	40.3	-1500.0	8:20	3:40	1318.9	-1500.0	4:50	7:10	1500.0	768.2
11:45	12:15	60.5	-1500.0	8:15	3:45	1382.1	-1500.0	4:45	7:15	1500.0	827.0
11:40	12:20	80.8	-1500.0	8:10	3:50	1449.6	-1500.0	4:40	7:20	1500.0	886.8
11:35	12:25	101.1	-1500.0	8:05	3:55	1500.0	-1478.4	4:35	7:25	1500.0	947.5
11:30	12:30	121.6	-1500.0	8:00	4:00	1500.0	-1406.7	4:30	7:30	1500.0	1009.2
11:25	12:35	142.1	-1500.0	7:55	4:05	1500.0	-1336.7				
11:20	12:40	162.8	-1500.0	7:50	4:10	1500.0	-1268.3				
11:15	12:45	183.7	-1500.0	7:45	4:15	1500.0	-1201.5				
11:10	12:50	204.7	-1500.0	7:40	4:20	1500.0	-1136.1				
11:05	12:55	226.0	-1500.0	7:35	4:25	1500.0	-1072.0				
11:00	1:00	247.4	-1500.0	7:30	4:30	1500.0	-1009.2				
10:55	1:05	269.2	-1500.0	7:25	4:35	1500.0	-947.5				
10:50	1:10	291.2	-1500.0	7:20	4:40	1500.0	-886.8				
10:45	1:15	313.5	-1500.0	7:15	4:45	1500.0	-827.0				
10:40	1:20	336.1	-1500.0	7:10	4:50	1500.0	-768.2				
10:35	1:25	359.1	-1500.0	7:05	4:55	1500.0	-710.1				
10:30	1:30	382.5	-1500.0	7:00	5:00	1500.0	-652.8				
10:25	1:35	406.3	-1500.0	6:55	5:05	1500.0	-596.2				
10:20	1:40	430.6	-1500.0	6:50	5:10	1500.0	-540.1				
10:15	1:45	455.4	-1500.0	6:45	5:15	1500.0	-484.6				
10:10	1:50	480.7	-1500.0	6:40	5:20	1500.0	-429.6				
10:05	1:55	506.6	-1500.0	6:35	5:25	1500.0	-375.0				
10:00	2:00	533.2	-1500.0	6:30	5:30	1500.0	-320.8				
9:55	2:05	560.4	-1500.0	6:25	5:35	1500.0	-266.8				
9:50	2:10	588.3	-1500.0	6:20	5:40	1500.0	-213.2				
9:45	2:15	617.1	-1500.0	6:15	5:45	1500.0	-159.7				
9:40	2:20	646.6	-1500.0	6:10	5:50	1500.0	-106.4				
9:35	2:25	677.1	-1500.0	6:05	5:55	1500.0	-53.2				
9:30	2:30	708.6	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	741.2	-1500.0	5:55	6:05	1500.0	53.2				
9:20	2:40	774.9	-1500.0	5:50	6:10	1500.0	106.4				
9:15	2:45	809.9	-1500.0	5:45	6:15	1500.0	159.7				
9:10	2:50	846.2	-1500.0	5:40	6:20	1500.0	213.2				
9:05	2:55	884.1	-1500.0	5:35	6:25	1500.0	266.8				
9:00	3:00	923.5	-1500.0	5:30	6:30	1500.0	320.8				
8:55	3:05	964.7	-1500.0	5:25	6:35	1500.0	375.0				
8:50	3:10	1007.8	-1500.0	5:20	6:40	1500.0	429.6				
8:45	3:15	1053.0	-1500.0	5:15	6:45	1500.0	484.6				
8:40	3:20	1100.6	-1500.0	5:10	6:50	1500.0	540.1				
8:35	3:25	1150.6	-1500.0	5:05	6:55	1500.0	596.2				
8:30	3:30	1203.5	-1500.0	5:00	7:00	1500.0	652.8				