

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 42.0° N/S

Earliest Sunrise: 4:22 a.m. Latest Sunset: 7:38 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	7.3	-500.0	8:25	3:35	456.3	-500.0	4:55	7:05	500.0	217.8
11:50	12:10	14.6	-500.0	8:20	3:40	477.8	-500.0	4:50	7:10	500.0	235.6
11:45	12:15	21.9	-500.0	8:15	3:45	500.0	-499.3	4:45	7:15	500.0	253.7
11:40	12:20	29.3	-500.0	8:10	3:50	500.0	-476.0	4:40	7:20	500.0	272.0
11:35	12:25	36.6	-500.0	8:05	3:55	500.0	-453.4	4:35	7:25	500.0	290.6
11:30	12:30	44.0	-500.0	8:00	4:00	500.0	-431.4	4:30	7:30	500.0	309.5
11:25	12:35	51.5	-500.0	7:55	4:05	500.0	-409.9	4:25	7:35	500.0	328.8
11:20	12:40	59.0	-500.0	7:50	4:10	500.0	-389.0	4:20	7:40	500.0	348.4
11:15	12:45	66.5	-500.0	7:45	4:15	500.0	-368.5	4:15	7:45	500.0	368.5
11:10	12:50	74.2	-500.0	7:40	4:20	500.0	-348.4				
11:05	12:55	81.9	-500.0	7:35	4:25	500.0	-328.8				
11:00	1:00	89.6	-500.0	7:30	4:30	500.0	-309.5				
10:55	1:05	97.5	-500.0	7:25	4:35	500.0	-290.6				
10:50	1:10	105.5	-500.0	7:20	4:40	500.0	-272.0				
10:45	1:15	113.6	-500.0	7:15	4:45	500.0	-253.7				
10:40	1:20	121.8	-500.0	7:10	4:50	500.0	-235.6				
10:35	1:25	130.1	-500.0	7:05	4:55	500.0	-217.8				
10:30	1:30	138.6	-500.0	7:00	5:00	500.0	-200.2				
10:25	1:35	147.2	-500.0	6:55	5:05	500.0	-182.8				
10:20	1:40	156.0	-500.0	6:50	5:10	500.0	-165.7				
10:15	1:45	165.0	-500.0	6:45	5:15	500.0	-148.6				
10:10	1:50	174.2	-500.0	6:40	5:20	500.0	-131.8				
10:05	1:55	183.5	-500.0	6:35	5:25	500.0	-115.0				
10:00	2:00	193.2	-500.0	6:30	5:30	500.0	-98.4				
9:55	2:05	203.0	-500.0	6:25	5:35	500.0	-81.8				
9:50	2:10	213.1	-500.0	6:20	5:40	500.0	-65.4				
9:45	2:15	223.5	-500.0	6:15	5:45	500.0	-49.0				
9:40	2:20	234.3	-500.0	6:10	5:50	500.0	-32.6				
9:35	2:25	245.3	-500.0	6:05	5:55	500.0	-16.3				
9:30	2:30	256.7	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	268.5	-500.0	5:55	6:05	500.0	16.3				
9:20	2:40	280.7	-500.0	5:50	6:10	500.0	32.6				
9:15	2:45	293.4	-500.0	5:45	6:15	500.0	49.0				
9:10	2:50	306.6	-500.0	5:40	6:20	500.0	65.4				
9:05	2:55	320.3	-500.0	5:35	6:25	500.0	81.8				
9:00	3:00	334.6	-500.0	5:30	6:30	500.0	98.4				
8:55	3:05	349.5	-500.0	5:25	6:35	500.0	115.0				
8:50	3:10	365.1	-500.0	5:20	6:40	500.0	131.8				
8:45	3:15	381.5	-500.0	5:15	6:45	500.0	148.6				
8:40	3:20	398.7	-500.0	5:10	6:50	500.0	165.7				
8:35	3:25	416.9	-500.0	5:05	6:55	500.0	182.8				
8:30	3:30	436.0	-500.0	5:00	7:00	500.0	200.2				

## Horizontal Shadow Plane Sundial

Latitude: 42.0° N/S

Earliest Sunrise: 4:22 a.m. Latest Sunset: 7:38 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	21.9	-1500.0	8:25	3:35	1368.9	-1500.0	4:55	7:05	1500.0	653.4
11:50	12:10	43.8	-1500.0	8:20	3:40	1433.4	-1500.0	4:50	7:10	1500.0	706.8
11:45	12:15	65.8	-1500.0	8:15	3:45	1500.0	-1497.9	4:45	7:15	1500.0	761.0
11:40	12:20	87.8	-1500.0	8:10	3:50	1500.0	-1428.1	4:40	7:20	1500.0	815.9
11:35	12:25	109.9	-1500.0	8:05	3:55	1500.0	-1360.3	4:35	7:25	1500.0	871.8
11:30	12:30	132.1	-1500.0	8:00	4:00	1500.0	-1294.3	4:30	7:30	1500.0	928.5
11:25	12:35	154.5	-1500.0	7:55	4:05	1500.0	-1229.8	4:25	7:35	1500.0	986.4
11:20	12:40	177.0	-1500.0	7:50	4:10	1500.0	-1167.0	4:20	7:40	1500.0	1045.3
11:15	12:45	199.6	-1500.0	7:45	4:15	1500.0	-1105.5	4:15	7:45	1500.0	1105.5
11:10	12:50	222.5	-1500.0	7:40	4:20	1500.0	-1045.3				
11:05	12:55	245.6	-1500.0	7:35	4:25	1500.0	-986.4				
11:00	1:00	268.9	-1500.0	7:30	4:30	1500.0	-928.5				
10:55	1:05	292.6	-1500.0	7:25	4:35	1500.0	-871.8				
10:50	1:10	316.5	-1500.0	7:20	4:40	1500.0	-815.9				
10:45	1:15	340.7	-1500.0	7:15	4:45	1500.0	-761.0				
10:40	1:20	365.3	-1500.0	7:10	4:50	1500.0	-706.8				
10:35	1:25	390.3	-1500.0	7:05	4:55	1500.0	-653.4				
10:30	1:30	415.7	-1500.0	7:00	5:00	1500.0	-600.7				
10:25	1:35	441.6	-1500.0	6:55	5:05	1500.0	-548.5				
10:20	1:40	468.0	-1500.0	6:50	5:10	1500.0	-497.0				
10:15	1:45	495.0	-1500.0	6:45	5:15	1500.0	-445.9				
10:10	1:50	522.5	-1500.0	6:40	5:20	1500.0	-395.3				
10:05	1:55	550.6	-1500.0	6:35	5:25	1500.0	-345.0				
10:00	2:00	579.5	-1500.0	6:30	5:30	1500.0	-295.1				
9:55	2:05	609.1	-1500.0	6:25	5:35	1500.0	-245.5				
9:50	2:10	639.4	-1500.0	6:20	5:40	1500.0	-196.1				
9:45	2:15	670.6	-1500.0	6:15	5:45	1500.0	-146.9				
9:40	2:20	702.8	-1500.0	6:10	5:50	1500.0	-97.9				
9:35	2:25	735.9	-1500.0	6:05	5:55	1500.0	-48.9				
9:30	2:30	770.2	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	805.6	-1500.0	5:55	6:05	1500.0	48.9				
9:20	2:40	842.2	-1500.0	5:50	6:10	1500.0	97.9				
9:15	2:45	880.2	-1500.0	5:45	6:15	1500.0	146.9				
9:10	2:50	919.7	-1500.0	5:40	6:20	1500.0	196.1				
9:05	2:55	960.8	-1500.0	5:35	6:25	1500.0	245.5				
9:00	3:00	1003.7	-1500.0	5:30	6:30	1500.0	295.1				
8:55	3:05	1048.5	-1500.0	5:25	6:35	1500.0	345.0				
8:50	3:10	1095.3	-1500.0	5:20	6:40	1500.0	395.3				
8:45	3:15	1144.5	-1500.0	5:15	6:45	1500.0	445.9				
8:40	3:20	1196.2	-1500.0	5:10	6:50	1500.0	497.0				
8:35	3:25	1250.6	-1500.0	5:05	6:55	1500.0	548.5				
8:30	3:30	1308.0	-1500.0	5:00	7:00	1500.0	600.7				