

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 63.5° N/S

Earliest Sunrise: 1:41 a.m. Latest Sunset: 10:19 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	9.8	-500.0	8:25	3:35	500.0	-409.7	4:55	7:05	500.0	162.8
11:50	12:10	19.5	-500.0	8:20	3:40	500.0	-391.2	4:50	7:10	500.0	176.2
11:45	12:15	29.3	-500.0	8:15	3:45	500.0	-373.3	4:45	7:15	500.0	189.7
11:40	12:20	39.1	-500.0	8:10	3:50	500.0	-355.9	4:40	7:20	500.0	203.4
11:35	12:25	49.0	-500.0	8:05	3:55	500.0	-339.0	4:35	7:25	500.0	217.3
11:30	12:30	58.9	-500.0	8:00	4:00	500.0	-322.6	4:30	7:30	500.0	231.4
11:25	12:35	68.9	-500.0	7:55	4:05	500.0	-306.5	4:25	7:35	500.0	245.8
11:20	12:40	78.9	-500.0	7:50	4:10	500.0	-290.8	4:20	7:40	500.0	260.5
11:15	12:45	89.0	-500.0	7:45	4:15	500.0	-275.5	4:15	7:45	500.0	275.5
11:10	12:50	99.2	-500.0	7:40	4:20	500.0	-260.5	4:10	7:50	500.0	290.8
11:05	12:55	109.5	-500.0	7:35	4:25	500.0	-245.8	4:05	7:55	500.0	306.5
11:00	1:00	119.9	-500.0	7:30	4:30	500.0	-231.4	4:00	8:00	500.0	322.6
10:55	1:05	130.4	-500.0	7:25	4:35	500.0	-217.3	3:55	8:05	500.0	339.0
10:50	1:10	141.1	-500.0	7:20	4:40	500.0	-203.4	3:50	8:10	500.0	355.9
10:45	1:15	151.9	-500.0	7:15	4:45	500.0	-189.7	3:45	8:15	500.0	373.3
10:40	1:20	162.9	-500.0	7:10	4:50	500.0	-176.2	3:40	8:20	500.0	391.2
10:35	1:25	174.0	-500.0	7:05	4:55	500.0	-162.8	3:35	8:25	500.0	409.7
10:30	1:30	185.3	-500.0	7:00	5:00	500.0	-149.7	3:30	8:30	500.0	428.7
10:25	1:35	196.9	-500.0	6:55	5:05	500.0	-136.7	3:25	8:35	500.0	448.4
10:20	1:40	208.7	-500.0	6:50	5:10	500.0	-123.9	3:20	8:40	500.0	468.8
10:15	1:45	220.7	-500.0	6:45	5:15	500.0	-111.1	3:15	8:45	500.0	490.0
10:10	1:50	232.9	-500.0	6:40	5:20	500.0	-98.5	3:10	8:50	488.3	500.0
10:05	1:55	245.5	-500.0	6:35	5:25	500.0	-86.0	3:05	8:55	467.4	500.0
10:00	2:00	258.3	-500.0	6:30	5:30	500.0	-73.6	3:00	9:00	447.5	500.0
9:55	2:05	271.5	-500.0	6:25	5:35	500.0	-61.2	2:55	9:05	428.4	500.0
9:50	2:10	285.1	-500.0	6:20	5:40	500.0	-48.9	2:50	9:10	410.0	500.0
9:45	2:15	299.0	-500.0	6:15	5:45	500.0	-36.6	2:45	9:15	392.4	500.0
9:40	2:20	313.3	-500.0	6:10	5:50	500.0	-24.4	2:40	9:20	375.5	500.0
9:35	2:25	328.1	-500.0	6:05	5:55	500.0	-12.2	2:35	9:25	359.1	500.0
9:30	2:30	343.4	-500.0	6:00	6:00	500.0	0.0	2:30	9:30	343.4	500.0
9:25	2:35	359.1	-500.0	5:55	6:05	500.0	12.2	2:25	9:35	328.1	500.0
9:20	2:40	375.5	-500.0	5:50	6:10	500.0	24.4	2:20	9:40	313.3	500.0
9:15	2:45	392.4	-500.0	5:45	6:15	500.0	36.6	2:15	9:45	299.0	500.0
9:10	2:50	410.0	-500.0	5:40	6:20	500.0	48.9	2:10	9:50	285.1	500.0
9:05	2:55	428.4	-500.0	5:35	6:25	500.0	61.2	2:05	9:55	271.5	500.0
9:00	3:00	447.5	-500.0	5:30	6:30	500.0	73.6	2:00	10:00	258.3	500.0
8:55	3:05	467.4	-500.0	5:25	6:35	500.0	86.0	1:55	10:05	245.5	500.0
8:50	3:10	488.3	-500.0	5:20	6:40	500.0	98.5	1:50	10:10	232.9	500.0
8:45	3:15	500.0	-490.0	5:15	6:45	500.0	111.1	1:45	10:15	220.7	500.0
8:40	3:20	500.0	-468.8	5:10	6:50	500.0	123.9	1:40	10:20	208.7	500.0
8:35	3:25	500.0	-448.4	5:05	6:55	500.0	136.7	1:35	10:25	196.9	500.0
8:30	3:30	500.0	-428.7	5:00	7:00	500.0	149.7	1:30	10:30	185.3	500.0

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## Horizontal Shadow Plane Sundial

Latitude: 63.5° N/S

Earliest Sunrise: 1:41 a.m. Latest Sunset: 10:19 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	29.3	-1500.0	8:25	3:35	1500.0	-1229.0	4:55	7:05	1500.0	488.5
11:50	12:10	58.6	-1500.0	8:20	3:40	1500.0	-1173.6	4:50	7:10	1500.0	528.5
11:45	12:15	88.0	-1500.0	8:15	3:45	1500.0	-1119.9	4:45	7:15	1500.0	569.0
11:40	12:20	117.4	-1500.0	8:10	3:50	1500.0	-1067.8	4:40	7:20	1500.0	610.1
11:35	12:25	147.0	-1500.0	8:05	3:55	1500.0	-1017.1	4:35	7:25	1500.0	651.8
11:30	12:30	176.7	-1500.0	8:00	4:00	1500.0	-967.7	4:30	7:30	1500.0	694.3
11:25	12:35	206.6	-1500.0	7:55	4:05	1500.0	-919.5	4:25	7:35	1500.0	737.5
11:20	12:40	236.7	-1500.0	7:50	4:10	1500.0	-872.5	4:20	7:40	1500.0	781.6
11:15	12:45	267.0	-1500.0	7:45	4:15	1500.0	-826.6	4:15	7:45	1500.0	826.6
11:10	12:50	297.6	-1500.0	7:40	4:20	1500.0	-781.6	4:10	7:50	1500.0	872.5
11:05	12:55	328.5	-1500.0	7:35	4:25	1500.0	-737.5	4:05	7:55	1500.0	919.5
11:00	1:00	359.7	-1500.0	7:30	4:30	1500.0	-694.3	4:00	8:00	1500.0	967.7
10:55	1:05	391.3	-1500.0	7:25	4:35	1500.0	-651.8	3:55	8:05	1500.0	1017.1
10:50	1:10	423.3	-1500.0	7:20	4:40	1500.0	-610.1	3:50	8:10	1500.0	1067.8
10:45	1:15	455.7	-1500.0	7:15	4:45	1500.0	-569.0	3:45	8:15	1500.0	1119.9
10:40	1:20	488.6	-1500.0	7:10	4:50	1500.0	-528.5	3:40	8:20	1500.0	1173.6
10:35	1:25	522.0	-1500.0	7:05	4:55	1500.0	-488.5	3:35	8:25	1500.0	1229.0
10:30	1:30	556.0	-1500.0	7:00	5:00	1500.0	-449.1	3:30	8:30	1500.0	1286.1
10:25	1:35	590.7	-1500.0	6:55	5:05	1500.0	-410.1	3:25	8:35	1500.0	1345.2
10:20	1:40	626.0	-1500.0	6:50	5:10	1500.0	-371.6	3:20	8:40	1500.0	1406.4
10:15	1:45	662.0	-1500.0	6:45	5:15	1500.0	-333.4	3:15	8:45	1500.0	1469.9
10:10	1:50	698.8	-1500.0	6:40	5:20	1500.0	-295.5	3:10	8:50	1465.0	1500.0
10:05	1:55	736.5	-1500.0	6:35	5:25	1500.0	-258.0	3:05	8:55	1402.3	1500.0
10:00	2:00	775.0	-1500.0	6:30	5:30	1500.0	-220.7	3:00	9:00	1342.4	1500.0
9:55	2:05	814.6	-1500.0	6:25	5:35	1500.0	-183.6	2:55	9:05	1285.1	1500.0
9:50	2:10	855.2	-1500.0	6:20	5:40	1500.0	-146.6	2:50	9:10	1230.1	1500.0
9:45	2:15	897.0	-1500.0	6:15	5:45	1500.0	-109.9	2:45	9:15	1177.3	1500.0
9:40	2:20	940.0	-1500.0	6:10	5:50	1500.0	-73.2	2:40	9:20	1126.4	1500.0
9:35	2:25	984.3	-1500.0	6:05	5:55	1500.0	-36.6	2:35	9:25	1077.4	1500.0
9:30	2:30	1030.1	-1500.0	6:00	6:00	1500.0	0.0	2:30	9:30	1030.1	1500.0
9:25	2:35	1077.4	-1500.0	5:55	6:05	1500.0	36.6	2:25	9:35	984.3	1500.0
9:20	2:40	1126.4	-1500.0	5:50	6:10	1500.0	73.2	2:20	9:40	940.0	1500.0
9:15	2:45	1177.3	-1500.0	5:45	6:15	1500.0	109.9	2:15	9:45	897.0	1500.0
9:10	2:50	1230.1	-1500.0	5:40	6:20	1500.0	146.6	2:10	9:50	855.2	1500.0
9:05	2:55	1285.1	-1500.0	5:35	6:25	1500.0	183.6	2:05	9:55	814.6	1500.0
9:00	3:00	1342.4	-1500.0	5:30	6:30	1500.0	220.7	2:00	10:00	775.0	1500.0
8:55	3:05	1402.3	-1500.0	5:25	6:35	1500.0	258.0	1:55	10:05	736.5	1500.0
8:50	3:10	1465.0	-1500.0	5:20	6:40	1500.0	295.5	1:50	10:10	698.8	1500.0
8:45	3:15	1500.0	-1469.9	5:15	6:45	1500.0	333.4	1:45	10:15	662.0	1500.0
8:40	3:20	1500.0	-1406.4	5:10	6:50	1500.0	371.6	1:40	10:20	626.0	1500.0
8:35	3:25	1500.0	-1345.2	5:05	6:55	1500.0	410.1	1:35	10:25	590.7	1500.0
8:30	3:30	1500.0	-1286.1	5:00	7:00	1500.0	449.1	1:30	10:30	556.0	1500.0