

Horizontal Shadow Plane Sundial

Latitude: 51.5° N/S

Earliest Sunrise: 3:41 a.m. Latest Sunset: 8:19 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	8.5	-500.0	8:25	3:35	500.0	-468.5	4:55	7:05	500.0	186.2
11:50	12:10	17.1	-500.0	8:20	3:40	500.0	-447.4	4:50	7:10	500.0	201.4
11:45	12:15	25.6	-500.0	8:15	3:45	500.0	-426.9	4:45	7:15	500.0	216.9
11:40	12:20	34.2	-500.0	8:10	3:50	500.0	-407.0	4:40	7:20	500.0	232.5
11:35	12:25	42.9	-500.0	8:05	3:55	500.0	-387.7	4:35	7:25	500.0	248.5
11:30	12:30	51.5	-500.0	8:00	4:00	500.0	-368.9	4:30	7:30	500.0	264.6
11:25	12:35	60.2	-500.0	7:55	4:05	500.0	-350.5	4:25	7:35	500.0	281.1
11:20	12:40	69.0	-500.0	7:50	4:10	500.0	-332.6	4:20	7:40	500.0	297.9
11:15	12:45	77.8	-500.0	7:45	4:15	500.0	-315.1	4:15	7:45	500.0	315.1
11:10	12:50	86.8	-500.0	7:40	4:20	500.0	-297.9	4:10	7:50	500.0	332.6
11:05	12:55	95.8	-500.0	7:35	4:25	500.0	-281.1	4:05	7:55	500.0	350.5
11:00	1:00	104.8	-500.0	7:30	4:30	500.0	-264.6	4:00	8:00	500.0	368.9
10:55	1:05	114.1	-500.0	7:25	4:35	500.0	-248.5	3:55	8:05	500.0	387.7
10:50	1:10	123.4	-500.0	7:20	4:40	500.0	-232.5	3:50	8:10	500.0	407.0
10:45	1:15	132.8	-500.0	7:15	4:45	500.0	-216.9	3:45	8:15	500.0	426.9
10:40	1:20	142.4	-500.0	7:10	4:50	500.0	-201.4	3:40	8:20	500.0	447.4
10:35	1:25	152.2	-500.0	7:05	4:55	500.0	-186.2	3:35	8:25	500.0	468.5
10:30	1:30	162.1	-500.0	7:00	5:00	500.0	-171.2	3:30	8:30	500.0	490.2
10:25	1:35	172.2	-500.0	6:55	5:05	500.0	-156.3				
10:20	1:40	182.5	-500.0	6:50	5:10	500.0	-141.6				
10:15	1:45	193.0	-500.0	6:45	5:15	500.0	-127.1				
10:10	1:50	203.7	-500.0	6:40	5:20	500.0	-112.7				
10:05	1:55	214.7	-500.0	6:35	5:25	500.0	-98.3				
10:00	2:00	225.9	-500.0	6:30	5:30	500.0	-84.1				
9:55	2:05	237.4	-500.0	6:25	5:35	500.0	-70.0				
9:50	2:10	249.3	-500.0	6:20	5:40	500.0	-55.9				
9:45	2:15	261.5	-500.0	6:15	5:45	500.0	-41.9				
9:40	2:20	274.0	-500.0	6:10	5:50	500.0	-27.9				
9:35	2:25	286.9	-500.0	6:05	5:55	500.0	-13.9				
9:30	2:30	300.3	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	314.1	-500.0	5:55	6:05	500.0	13.9				
9:20	2:40	328.3	-500.0	5:50	6:10	500.0	27.9				
9:15	2:45	343.2	-500.0	5:45	6:15	500.0	41.9				
9:10	2:50	358.6	-500.0	5:40	6:20	500.0	55.9				
9:05	2:55	374.6	-500.0	5:35	6:25	500.0	70.0				
9:00	3:00	391.3	-500.0	5:30	6:30	500.0	84.1				
8:55	3:05	408.8	-500.0	5:25	6:35	500.0	98.3				
8:50	3:10	427.0	-500.0	5:20	6:40	500.0	112.7				
8:45	3:15	446.2	-500.0	5:15	6:45	500.0	127.1				
8:40	3:20	466.3	-500.0	5:10	6:50	500.0	141.6				
8:35	3:25	487.6	-500.0	5:05	6:55	500.0	156.3				
8:30	3:30	500.0	-490.2	5:00	7:00	500.0	171.2				

Horizontal Shadow Plane Sundial

Latitude: 51.5° N/S

Earliest Sunrise: 3:41 a.m. Latest Sunset: 8:19 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	25.6	-1500.0	8:25	3:35	1500.0	-1405.4	4:55	7:05	1500.0	558.7
11:50	12:10	51.3	-1500.0	8:20	3:40	1500.0	-1342.1	4:50	7:10	1500.0	604.3
11:45	12:15	76.9	-1500.0	8:15	3:45	1500.0	-1280.7	4:45	7:15	1500.0	650.6
11:40	12:20	102.7	-1500.0	8:10	3:50	1500.0	-1221.1	4:40	7:20	1500.0	697.6
11:35	12:25	128.6	-1500.0	8:05	3:55	1500.0	-1163.1	4:35	7:25	1500.0	745.4
11:30	12:30	154.5	-1500.0	8:00	4:00	1500.0	-1106.6	4:30	7:30	1500.0	793.9
11:25	12:35	180.7	-1500.0	7:55	4:05	1500.0	-1051.5	4:25	7:35	1500.0	843.4
11:20	12:40	207.0	-1500.0	7:50	4:10	1500.0	-997.8	4:20	7:40	1500.0	893.8
11:15	12:45	233.5	-1500.0	7:45	4:15	1500.0	-945.2	4:15	7:45	1500.0	945.2
11:10	12:50	260.3	-1500.0	7:40	4:20	1500.0	-893.8	4:10	7:50	1500.0	997.8
11:05	12:55	287.3	-1500.0	7:35	4:25	1500.0	-843.4	4:05	7:55	1500.0	1051.5
11:00	1:00	314.5	-1500.0	7:30	4:30	1500.0	-793.9	4:00	8:00	1500.0	1106.6
10:55	1:05	342.2	-1500.0	7:25	4:35	1500.0	-745.4	3:55	8:05	1500.0	1163.1
10:50	1:10	370.1	-1500.0	7:20	4:40	1500.0	-697.6	3:50	8:10	1500.0	1221.1
10:45	1:15	398.5	-1500.0	7:15	4:45	1500.0	-650.6	3:45	8:15	1500.0	1280.7
10:40	1:20	427.3	-1500.0	7:10	4:50	1500.0	-604.3	3:40	8:20	1500.0	1342.1
10:35	1:25	456.5	-1500.0	7:05	4:55	1500.0	-558.7	3:35	8:25	1500.0	1405.4
10:30	1:30	486.3	-1500.0	7:00	5:00	1500.0	-513.6	3:30	8:30	1500.0	1470.7
10:25	1:35	516.5	-1500.0	6:55	5:05	1500.0	-469.0				
10:20	1:40	547.4	-1500.0	6:50	5:10	1500.0	-424.9				
10:15	1:45	578.9	-1500.0	6:45	5:15	1500.0	-381.2				
10:10	1:50	611.1	-1500.0	6:40	5:20	1500.0	-338.0				
10:05	1:55	644.0	-1500.0	6:35	5:25	1500.0	-295.0				
10:00	2:00	677.8	-1500.0	6:30	5:30	1500.0	-252.3				
9:55	2:05	712.3	-1500.0	6:25	5:35	1500.0	-209.9				
9:50	2:10	747.9	-1500.0	6:20	5:40	1500.0	-167.7				
9:45	2:15	784.4	-1500.0	6:15	5:45	1500.0	-125.6				
9:40	2:20	822.0	-1500.0	6:10	5:50	1500.0	-83.7				
9:35	2:25	860.7	-1500.0	6:05	5:55	1500.0	-41.8				
9:30	2:30	900.8	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	942.2	-1500.0	5:55	6:05	1500.0	41.8				
9:20	2:40	985.0	-1500.0	5:50	6:10	1500.0	83.7				
9:15	2:45	1029.5	-1500.0	5:45	6:15	1500.0	125.6				
9:10	2:50	1075.7	-1500.0	5:40	6:20	1500.0	167.7				
9:05	2:55	1123.8	-1500.0	5:35	6:25	1500.0	209.9				
9:00	3:00	1173.9	-1500.0	5:30	6:30	1500.0	252.3				
8:55	3:05	1226.3	-1500.0	5:25	6:35	1500.0	295.0				
8:50	3:10	1281.1	-1500.0	5:20	6:40	1500.0	338.0				
8:45	3:15	1338.6	-1500.0	5:15	6:45	1500.0	381.2				
8:40	3:20	1399.0	-1500.0	5:10	6:50	1500.0	424.9				
8:35	3:25	1462.7	-1500.0	5:05	6:55	1500.0	469.0				
8:30	3:30	1500.0	-1470.7	5:00	7:00	1500.0	513.6				