

Horizontal Shadow Plane Sundial

Latitude: 48.5° N/S

Earliest Sunrise: 3:56 a.m. Latest Sunset: 8:04 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	8.2	-500.0	8:25	3:35	500.0	-489.5	4:55	7:05	500.0	194.6
11:50	12:10	16.4	-500.0	8:20	3:40	500.0	-467.5	4:50	7:10	500.0	210.5
11:45	12:15	24.5	-500.0	8:15	3:45	500.0	-446.1	4:45	7:15	500.0	226.6
11:40	12:20	32.8	-500.0	8:10	3:50	500.0	-425.3	4:40	7:20	500.0	243.0
11:35	12:25	41.0	-500.0	8:05	3:55	500.0	-405.1	4:35	7:25	500.0	259.6
11:30	12:30	49.3	-500.0	8:00	4:00	500.0	-385.4	4:30	7:30	500.0	276.5
11:25	12:35	57.6	-500.0	7:55	4:05	500.0	-366.3	4:25	7:35	500.0	293.7
11:20	12:40	66.0	-500.0	7:50	4:10	500.0	-347.5	4:20	7:40	500.0	311.3
11:15	12:45	74.5	-500.0	7:45	4:15	500.0	-329.2	4:15	7:45	500.0	329.2
11:10	12:50	83.0	-500.0	7:40	4:20	500.0	-311.3	4:10	7:50	500.0	347.5
11:05	12:55	91.6	-500.0	7:35	4:25	500.0	-293.7	4:05	7:55	500.0	366.3
11:00	1:00	100.3	-500.0	7:30	4:30	500.0	-276.5	4:00	8:00	500.0	385.4
10:55	1:05	109.2	-500.0	7:25	4:35	500.0	-259.6	3:55	8:05	500.0	405.1
10:50	1:10	118.1	-500.0	7:20	4:40	500.0	-243.0	3:50	8:10	500.0	425.3
10:45	1:15	127.1	-500.0	7:15	4:45	500.0	-226.6	3:45	8:15	500.0	446.1
10:40	1:20	136.3	-500.0	7:10	4:50	500.0	-210.5				
10:35	1:25	145.6	-500.0	7:05	4:55	500.0	-194.6				
10:30	1:30	155.1	-500.0	7:00	5:00	500.0	-178.9				
10:25	1:35	164.8	-500.0	6:55	5:05	500.0	-163.4				
10:20	1:40	174.6	-500.0	6:50	5:10	500.0	-148.0				
10:15	1:45	184.7	-500.0	6:45	5:15	500.0	-132.8				
10:10	1:50	194.9	-500.0	6:40	5:20	500.0	-117.7				
10:05	1:55	205.4	-500.0	6:35	5:25	500.0	-102.8				
10:00	2:00	216.2	-500.0	6:30	5:30	500.0	-87.9				
9:55	2:05	227.2	-500.0	6:25	5:35	500.0	-73.1				
9:50	2:10	238.6	-500.0	6:20	5:40	500.0	-58.4				
9:45	2:15	250.2	-500.0	6:15	5:45	500.0	-43.8				
9:40	2:20	262.2	-500.0	6:10	5:50	500.0	-29.1				
9:35	2:25	274.6	-500.0	6:05	5:55	500.0	-14.6				
9:30	2:30	287.3	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	300.6	-500.0	5:55	6:05	500.0	14.6				
9:20	2:40	314.2	-500.0	5:50	6:10	500.0	29.1				
9:15	2:45	328.4	-500.0	5:45	6:15	500.0	43.8				
9:10	2:50	343.1	-500.0	5:40	6:20	500.0	58.4				
9:05	2:55	358.5	-500.0	5:35	6:25	500.0	73.1				
9:00	3:00	374.5	-500.0	5:30	6:30	500.0	87.9				
8:55	3:05	391.2	-500.0	5:25	6:35	500.0	102.8				
8:50	3:10	408.7	-500.0	5:20	6:40	500.0	117.7				
8:45	3:15	427.0	-500.0	5:15	6:45	500.0	132.8				
8:40	3:20	446.3	-500.0	5:10	6:50	500.0	148.0				
8:35	3:25	466.6	-500.0	5:05	6:55	500.0	163.4				
8:30	3:30	488.0	-500.0	5:00	7:00	500.0	178.9				

Horizontal Shadow Plane Sundial

Latitude: 48.5° N/S

Earliest Sunrise: 3:56 a.m. Latest Sunset: 8:04 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	24.5	-1500.0	8:25	3:35	1500.0	-1468.5	4:55	7:05	1500.0	583.8
11:50	12:10	49.1	-1500.0	8:20	3:40	1500.0	-1402.4	4:50	7:10	1500.0	631.5
11:45	12:15	73.6	-1500.0	8:15	3:45	1500.0	-1338.2	4:45	7:15	1500.0	679.9
11:40	12:20	98.3	-1500.0	8:10	3:50	1500.0	-1275.9	4:40	7:20	1500.0	729.0
11:35	12:25	123.0	-1500.0	8:05	3:55	1500.0	-1215.3	4:35	7:25	1500.0	778.8
11:30	12:30	147.9	-1500.0	8:00	4:00	1500.0	-1156.3	4:30	7:30	1500.0	829.6
11:25	12:35	172.9	-1500.0	7:55	4:05	1500.0	-1098.8	4:25	7:35	1500.0	881.2
11:20	12:40	198.1	-1500.0	7:50	4:10	1500.0	-1042.6	4:20	7:40	1500.0	933.9
11:15	12:45	223.5	-1500.0	7:45	4:15	1500.0	-987.7	4:15	7:45	1500.0	987.7
11:10	12:50	249.1	-1500.0	7:40	4:20	1500.0	-933.9	4:10	7:50	1500.0	1042.6
11:05	12:55	274.9	-1500.0	7:35	4:25	1500.0	-881.2	4:05	7:55	1500.0	1098.8
11:00	1:00	301.0	-1500.0	7:30	4:30	1500.0	-829.6	4:00	8:00	1500.0	1156.3
10:55	1:05	327.5	-1500.0	7:25	4:35	1500.0	-778.8	3:55	8:05	1500.0	1215.3
10:50	1:10	354.2	-1500.0	7:20	4:40	1500.0	-729.0	3:50	8:10	1500.0	1275.9
10:45	1:15	381.4	-1500.0	7:15	4:45	1500.0	-679.9	3:45	8:15	1500.0	1338.2
10:40	1:20	408.9	-1500.0	7:10	4:50	1500.0	-631.5				
10:35	1:25	436.9	-1500.0	7:05	4:55	1500.0	-583.8				
10:30	1:30	465.3	-1500.0	7:00	5:00	1500.0	-536.6				
10:25	1:35	494.3	-1500.0	6:55	5:05	1500.0	-490.1				
10:20	1:40	523.9	-1500.0	6:50	5:10	1500.0	-444.0				
10:15	1:45	554.0	-1500.0	6:45	5:15	1500.0	-398.4				
10:10	1:50	584.8	-1500.0	6:40	5:20	1500.0	-353.1				
10:05	1:55	616.3	-1500.0	6:35	5:25	1500.0	-308.3				
10:00	2:00	648.6	-1500.0	6:30	5:30	1500.0	-263.7				
9:55	2:05	681.7	-1500.0	6:25	5:35	1500.0	-219.3				
9:50	2:10	715.7	-1500.0	6:20	5:40	1500.0	-175.2				
9:45	2:15	750.7	-1500.0	6:15	5:45	1500.0	-131.3				
9:40	2:20	786.6	-1500.0	6:10	5:50	1500.0	-87.4				
9:35	2:25	823.7	-1500.0	6:05	5:55	1500.0	-43.7				
9:30	2:30	862.0	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	901.7	-1500.0	5:55	6:05	1500.0	43.7				
9:20	2:40	942.7	-1500.0	5:50	6:10	1500.0	87.4				
9:15	2:45	985.2	-1500.0	5:45	6:15	1500.0	131.3				
9:10	2:50	1029.4	-1500.0	5:40	6:20	1500.0	175.2				
9:05	2:55	1075.5	-1500.0	5:35	6:25	1500.0	219.3				
9:00	3:00	1123.4	-1500.0	5:30	6:30	1500.0	263.7				
8:55	3:05	1173.6	-1500.0	5:25	6:35	1500.0	308.3				
8:50	3:10	1226.0	-1500.0	5:20	6:40	1500.0	353.1				
8:45	3:15	1281.0	-1500.0	5:15	6:45	1500.0	398.4				
8:40	3:20	1338.9	-1500.0	5:10	6:50	1500.0	444.0				
8:35	3:25	1399.8	-1500.0	5:05	6:55	1500.0	490.1				
8:30	3:30	1464.1	-1500.0	5:00	7:00	1500.0	536.6				