

Horizontal Shadow Plane Sundial

Latitude: 50.5° N/S

Earliest Sunrise: 3:46 a.m. Latest Sunset: 8:14 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	8.4	-500.0	8:25	3:35	500.0	-475.1	4:55	7:05	500.0	188.9
11:50	12:10	16.8	-500.0	8:20	3:40	500.0	-453.7	4:50	7:10	500.0	204.3
11:45	12:15	25.3	-500.0	8:15	3:45	500.0	-433.0	4:45	7:15	500.0	220.0
11:40	12:20	33.8	-500.0	8:10	3:50	500.0	-412.8	4:40	7:20	500.0	235.8
11:35	12:25	42.3	-500.0	8:05	3:55	500.0	-393.2	4:35	7:25	500.0	252.0
11:30	12:30	50.8	-500.0	8:00	4:00	500.0	-374.1	4:30	7:30	500.0	268.4
11:25	12:35	59.4	-500.0	7:55	4:05	500.0	-355.5	4:25	7:35	500.0	285.1
11:20	12:40	68.0	-500.0	7:50	4:10	500.0	-337.3	4:20	7:40	500.0	302.2
11:15	12:45	76.7	-500.0	7:45	4:15	500.0	-319.6	4:15	7:45	500.0	319.6
11:10	12:50	85.5	-500.0	7:40	4:20	500.0	-302.2	4:10	7:50	500.0	337.3
11:05	12:55	94.4	-500.0	7:35	4:25	500.0	-285.1	4:05	7:55	500.0	355.5
11:00	1:00	103.4	-500.0	7:30	4:30	500.0	-268.4	4:00	8:00	500.0	374.1
10:55	1:05	112.5	-500.0	7:25	4:35	500.0	-252.0	3:55	8:05	500.0	393.2
10:50	1:10	121.6	-500.0	7:20	4:40	500.0	-235.8	3:50	8:10	500.0	412.8
10:45	1:15	131.0	-500.0	7:15	4:45	500.0	-220.0	3:45	8:15	500.0	433.0
10:40	1:20	140.4	-500.0	7:10	4:50	500.0	-204.3				
10:35	1:25	150.0	-500.0	7:05	4:55	500.0	-188.9				
10:30	1:30	159.8	-500.0	7:00	5:00	500.0	-173.6				
10:25	1:35	169.8	-500.0	6:55	5:05	500.0	-158.6				
10:20	1:40	179.9	-500.0	6:50	5:10	500.0	-143.7				
10:15	1:45	190.3	-500.0	6:45	5:15	500.0	-128.9				
10:10	1:50	200.8	-500.0	6:40	5:20	500.0	-114.3				
10:05	1:55	211.7	-500.0	6:35	5:25	500.0	-99.7				
10:00	2:00	222.7	-500.0	6:30	5:30	500.0	-85.3				
9:55	2:05	234.1	-500.0	6:25	5:35	500.0	-71.0				
9:50	2:10	245.8	-500.0	6:20	5:40	500.0	-56.7				
9:45	2:15	257.8	-500.0	6:15	5:45	500.0	-42.5				
9:40	2:20	270.1	-500.0	6:10	5:50	500.0	-28.3				
9:35	2:25	282.9	-500.0	6:05	5:55	500.0	-14.1				
9:30	2:30	296.0	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	309.6	-500.0	5:55	6:05	500.0	14.1				
9:20	2:40	323.7	-500.0	5:50	6:10	500.0	28.3				
9:15	2:45	338.3	-500.0	5:45	6:15	500.0	42.5				
9:10	2:50	353.5	-500.0	5:40	6:20	500.0	56.7				
9:05	2:55	369.3	-500.0	5:35	6:25	500.0	71.0				
9:00	3:00	385.8	-500.0	5:30	6:30	500.0	85.3				
8:55	3:05	403.0	-500.0	5:25	6:35	500.0	99.7				
8:50	3:10	421.0	-500.0	5:20	6:40	500.0	114.3				
8:45	3:15	439.9	-500.0	5:15	6:45	500.0	128.9				
8:40	3:20	459.8	-500.0	5:10	6:50	500.0	143.7				
8:35	3:25	480.7	-500.0	5:05	6:55	500.0	158.6				
8:30	3:30	500.0	-497.2	5:00	7:00	500.0	173.6				

Horizontal Shadow Plane Sundial

Latitude: 50.5° N/S

Earliest Sunrise: 3:46 a.m. Latest Sunset: 8:14 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	25.3	-1500.0	8:25	3:35	1500.0	-1425.4	4:55	7:05	1500.0	566.6
11:50	12:10	50.5	-1500.0	8:20	3:40	1500.0	-1361.2	4:50	7:10	1500.0	612.9
11:45	12:15	75.9	-1500.0	8:15	3:45	1500.0	-1298.9	4:45	7:15	1500.0	659.9
11:40	12:20	101.3	-1500.0	8:10	3:50	1500.0	-1238.4	4:40	7:20	1500.0	707.5
11:35	12:25	126.8	-1500.0	8:05	3:55	1500.0	-1179.6	4:35	7:25	1500.0	756.0
11:30	12:30	152.4	-1500.0	8:00	4:00	1500.0	-1122.3	4:30	7:30	1500.0	805.2
11:25	12:35	178.1	-1500.0	7:55	4:05	1500.0	-1066.5	4:25	7:35	1500.0	855.4
11:20	12:40	204.1	-1500.0	7:50	4:10	1500.0	-1012.0	4:20	7:40	1500.0	906.5
11:15	12:45	230.2	-1500.0	7:45	4:15	1500.0	-958.7	4:15	7:45	1500.0	958.7
11:10	12:50	256.6	-1500.0	7:40	4:20	1500.0	-906.5	4:10	7:50	1500.0	1012.0
11:05	12:55	283.2	-1500.0	7:35	4:25	1500.0	-855.4	4:05	7:55	1500.0	1066.5
11:00	1:00	310.1	-1500.0	7:30	4:30	1500.0	-805.2	4:00	8:00	1500.0	1122.3
10:55	1:05	337.4	-1500.0	7:25	4:35	1500.0	-756.0	3:55	8:05	1500.0	1179.6
10:50	1:10	364.9	-1500.0	7:20	4:40	1500.0	-707.5	3:50	8:10	1500.0	1238.4
10:45	1:15	392.9	-1500.0	7:15	4:45	1500.0	-659.9	3:45	8:15	1500.0	1298.9
10:40	1:20	421.3	-1500.0	7:10	4:50	1500.0	-612.9				
10:35	1:25	450.1	-1500.0	7:05	4:55	1500.0	-566.6				
10:30	1:30	479.4	-1500.0	7:00	5:00	1500.0	-520.9				
10:25	1:35	509.3	-1500.0	6:55	5:05	1500.0	-475.7				
10:20	1:40	539.7	-1500.0	6:50	5:10	1500.0	-431.0				
10:15	1:45	570.8	-1500.0	6:45	5:15	1500.0	-386.7				
10:10	1:50	602.5	-1500.0	6:40	5:20	1500.0	-342.8				
10:05	1:55	635.0	-1500.0	6:35	5:25	1500.0	-299.2				
10:00	2:00	668.2	-1500.0	6:30	5:30	1500.0	-255.9				
9:55	2:05	702.3	-1500.0	6:25	5:35	1500.0	-212.9				
9:50	2:10	737.4	-1500.0	6:20	5:40	1500.0	-170.1				
9:45	2:15	773.4	-1500.0	6:15	5:45	1500.0	-127.4				
9:40	2:20	810.4	-1500.0	6:10	5:50	1500.0	-84.9				
9:35	2:25	848.7	-1500.0	6:05	5:55	1500.0	-42.4				
9:30	2:30	888.1	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	928.9	-1500.0	5:55	6:05	1500.0	42.4				
9:20	2:40	971.2	-1500.0	5:50	6:10	1500.0	84.9				
9:15	2:45	1015.0	-1500.0	5:45	6:15	1500.0	127.4				
9:10	2:50	1060.6	-1500.0	5:40	6:20	1500.0	170.1				
9:05	2:55	1108.0	-1500.0	5:35	6:25	1500.0	212.9				
9:00	3:00	1157.4	-1500.0	5:30	6:30	1500.0	255.9				
8:55	3:05	1209.1	-1500.0	5:25	6:35	1500.0	299.2				
8:50	3:10	1263.1	-1500.0	5:20	6:40	1500.0	342.8				
8:45	3:15	1319.8	-1500.0	5:15	6:45	1500.0	386.7				
8:40	3:20	1379.4	-1500.0	5:10	6:50	1500.0	431.0				
8:35	3:25	1442.1	-1500.0	5:05	6:55	1500.0	475.7				
8:30	3:30	1500.0	-1491.6	5:00	7:00	1500.0	520.9				