

Horizontal Shadow Plane Sundial

Latitude: 52.5° N/S

Earliest Sunrise: 3:38 a.m. Latest Sunset: 8:22 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	8.7	-500.0	8:25	3:35	500.0	-462.1	4:55	7:05	500.0	183.7
11:50	12:10	17.3	-500.0	8:20	3:40	500.0	-441.3	4:50	7:10	500.0	198.7
11:45	12:15	26.0	-500.0	8:15	3:45	500.0	-421.1	4:45	7:15	500.0	213.9
11:40	12:20	34.7	-500.0	8:10	3:50	500.0	-401.5	4:40	7:20	500.0	229.4
11:35	12:25	43.4	-500.0	8:05	3:55	500.0	-382.4	4:35	7:25	500.0	245.1
11:30	12:30	52.2	-500.0	8:00	4:00	500.0	-363.9	4:30	7:30	500.0	261.1
11:25	12:35	61.1	-500.0	7:55	4:05	500.0	-345.8	4:25	7:35	500.0	277.3
11:20	12:40	69.9	-500.0	7:50	4:10	500.0	-328.1	4:20	7:40	500.0	293.9
11:15	12:45	78.9	-500.0	7:45	4:15	500.0	-310.8	4:15	7:45	500.0	310.8
11:10	12:50	87.9	-500.0	7:40	4:20	500.0	-293.9	4:10	7:50	500.0	328.1
11:05	12:55	97.1	-500.0	7:35	4:25	500.0	-277.3	4:05	7:55	500.0	345.8
11:00	1:00	106.3	-500.0	7:30	4:30	500.0	-261.1	4:00	8:00	500.0	363.9
10:55	1:05	115.6	-500.0	7:25	4:35	500.0	-245.1	3:55	8:05	500.0	382.4
10:50	1:10	125.1	-500.0	7:20	4:40	500.0	-229.4	3:50	8:10	500.0	401.5
10:45	1:15	134.7	-500.0	7:15	4:45	500.0	-213.9	3:45	8:15	500.0	421.1
10:40	1:20	144.4	-500.0	7:10	4:50	500.0	-198.7	3:40	8:20	500.0	441.3
10:35	1:25	154.3	-500.0	7:05	4:55	500.0	-183.7	3:35	8:25	500.0	462.1
10:30	1:30	164.3	-500.0	7:00	5:00	500.0	-168.9	3:30	8:30	500.0	483.6
10:25	1:35	174.5	-500.0	6:55	5:05	500.0	-154.2				
10:20	1:40	185.0	-500.0	6:50	5:10	500.0	-139.7				
10:15	1:45	195.6	-500.0	6:45	5:15	500.0	-125.4				
10:10	1:50	206.5	-500.0	6:40	5:20	500.0	-111.1				
10:05	1:55	217.6	-500.0	6:35	5:25	500.0	-97.0				
10:00	2:00	229.0	-500.0	6:30	5:30	500.0	-83.0				
9:55	2:05	240.7	-500.0	6:25	5:35	500.0	-69.0				
9:50	2:10	252.7	-500.0	6:20	5:40	500.0	-55.1				
9:45	2:15	265.1	-500.0	6:15	5:45	500.0	-41.3				
9:40	2:20	277.8	-500.0	6:10	5:50	500.0	-27.5				
9:35	2:25	290.9	-500.0	6:05	5:55	500.0	-13.8				
9:30	2:30	304.4	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	318.4	-500.0	5:55	6:05	500.0	13.8				
9:20	2:40	332.9	-500.0	5:50	6:10	500.0	27.5				
9:15	2:45	347.9	-500.0	5:45	6:15	500.0	41.3				
9:10	2:50	363.5	-500.0	5:40	6:20	500.0	55.1				
9:05	2:55	379.7	-500.0	5:35	6:25	500.0	69.0				
9:00	3:00	396.7	-500.0	5:30	6:30	500.0	83.0				
8:55	3:05	414.4	-500.0	5:25	6:35	500.0	97.0				
8:50	3:10	432.9	-500.0	5:20	6:40	500.0	111.1				
8:45	3:15	452.3	-500.0	5:15	6:45	500.0	125.4				
8:40	3:20	472.7	-500.0	5:10	6:50	500.0	139.7				
8:35	3:25	494.2	-500.0	5:05	6:55	500.0	154.2				
8:30	3:30	500.0	-483.6	5:00	7:00	500.0	168.9				

Horizontal Shadow Plane Sundial

Latitude: 52.5° N/S

Earliest Sunrise: 3:38 a.m. Latest Sunset: 8:22 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	26.0	-1500.0	8:25	3:35	1500.0	-1386.3	4:55	7:05	1500.0	551.1
11:50	12:10	52.0	-1500.0	8:20	3:40	1500.0	-1323.9	4:50	7:10	1500.0	596.1
11:45	12:15	78.0	-1500.0	8:15	3:45	1500.0	-1263.3	4:45	7:15	1500.0	641.8
11:40	12:20	104.1	-1500.0	8:10	3:50	1500.0	-1204.5	4:40	7:20	1500.0	688.2
11:35	12:25	130.3	-1500.0	8:05	3:55	1500.0	-1147.3	4:35	7:25	1500.0	735.3
11:30	12:30	156.7	-1500.0	8:00	4:00	1500.0	-1091.6	4:30	7:30	1500.0	783.2
11:25	12:35	183.2	-1500.0	7:55	4:05	1500.0	-1037.3	4:25	7:35	1500.0	831.9
11:20	12:40	209.8	-1500.0	7:50	4:10	1500.0	-984.2	4:20	7:40	1500.0	881.7
11:15	12:45	236.7	-1500.0	7:45	4:15	1500.0	-932.4	4:15	7:45	1500.0	932.4
11:10	12:50	263.8	-1500.0	7:40	4:20	1500.0	-881.7	4:10	7:50	1500.0	984.2
11:05	12:55	291.2	-1500.0	7:35	4:25	1500.0	-831.9	4:05	7:55	1500.0	1037.3
11:00	1:00	318.9	-1500.0	7:30	4:30	1500.0	-783.2	4:00	8:00	1500.0	1091.6
10:55	1:05	346.9	-1500.0	7:25	4:35	1500.0	-735.3	3:55	8:05	1500.0	1147.3
10:50	1:10	375.2	-1500.0	7:20	4:40	1500.0	-688.2	3:50	8:10	1500.0	1204.5
10:45	1:15	404.0	-1500.0	7:15	4:45	1500.0	-641.8	3:45	8:15	1500.0	1263.3
10:40	1:20	433.1	-1500.0	7:10	4:50	1500.0	-596.1	3:40	8:20	1500.0	1323.9
10:35	1:25	462.8	-1500.0	7:05	4:55	1500.0	-551.1	3:35	8:25	1500.0	1386.3
10:30	1:30	492.9	-1500.0	7:00	5:00	1500.0	-506.6	3:30	8:30	1500.0	1450.8
10:25	1:35	523.6	-1500.0	6:55	5:05	1500.0	-462.7				
10:20	1:40	554.9	-1500.0	6:50	5:10	1500.0	-419.2				
10:15	1:45	586.9	-1500.0	6:45	5:15	1500.0	-376.1				
10:10	1:50	619.5	-1500.0	6:40	5:20	1500.0	-333.4				
10:05	1:55	652.9	-1500.0	6:35	5:25	1500.0	-291.0				
10:00	2:00	687.1	-1500.0	6:30	5:30	1500.0	-248.9				
9:55	2:05	722.1	-1500.0	6:25	5:35	1500.0	-207.1				
9:50	2:10	758.1	-1500.0	6:20	5:40	1500.0	-165.4				
9:45	2:15	795.2	-1500.0	6:15	5:45	1500.0	-123.9				
9:40	2:20	833.3	-1500.0	6:10	5:50	1500.0	-82.6				
9:35	2:25	872.6	-1500.0	6:05	5:55	1500.0	-41.3				
9:30	2:30	913.1	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	955.1	-1500.0	5:55	6:05	1500.0	41.3				
9:20	2:40	998.6	-1500.0	5:50	6:10	1500.0	82.6				
9:15	2:45	1043.6	-1500.0	5:45	6:15	1500.0	123.9				
9:10	2:50	1090.5	-1500.0	5:40	6:20	1500.0	165.4				
9:05	2:55	1139.2	-1500.0	5:35	6:25	1500.0	207.1				
9:00	3:00	1190.0	-1500.0	5:30	6:30	1500.0	248.9				
8:55	3:05	1243.1	-1500.0	5:25	6:35	1500.0	291.0				
8:50	3:10	1298.7	-1500.0	5:20	6:40	1500.0	333.4				
8:45	3:15	1357.0	-1500.0	5:15	6:45	1500.0	376.1				
8:40	3:20	1418.2	-1500.0	5:10	6:50	1500.0	419.2				
8:35	3:25	1482.7	-1500.0	5:05	6:55	1500.0	462.7				
8:30	3:30	1500.0	-1450.8	5:00	7:00	1500.0	506.6				