

Horizontal Shadow Plane Sundial

Latitude: 53.0° N/S

Earliest Sunrise: 3:32 a.m. Latest Sunset: 8:28 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	-459.1	4:55	7:05	500.0	182.5
11:50	12:10	17.4	-500.0	8:20	3:40	500.0	-438.4	4:50	7:10	500.0	197.4
11:45	12:15	26.2	-500.0	8:15	3:45	500.0	-418.3	4:45	7:15	500.0	212.5
11:40	12:20	34.9	-500.0	8:10	3:50	500.0	-398.8	4:40	7:20	500.0	227.9
11:35	12:25	43.7	-500.0	8:05	3:55	500.0	-379.9	4:35	7:25	500.0	243.5
11:30	12:30	52.6	-500.0	8:00	4:00	500.0	-361.5	4:30	7:30	500.0	259.3
11:25	12:35	61.5	-500.0	7:55	4:05	500.0	-343.5	4:25	7:35	500.0	275.5
11:20	12:40	70.4	-500.0	7:50	4:10	500.0	-325.9	4:20	7:40	500.0	291.9
11:15	12:45	79.4	-500.0	7:45	4:15	500.0	-308.7	4:15	7:45	500.0	308.7
11:10	12:50	88.5	-500.0	7:40	4:20	500.0	-291.9	4:10	7:50	500.0	325.9
11:05	12:55	97.7	-500.0	7:35	4:25	500.0	-275.5	4:05	7:55	500.0	343.5
11:00	1:00	107.0	-500.0	7:30	4:30	500.0	-259.3	4:00	8:00	500.0	361.5
10:55	1:05	116.4	-500.0	7:25	4:35	500.0	-243.5	3:55	8:05	500.0	379.9
10:50	1:10	125.9	-500.0	7:20	4:40	500.0	-227.9	3:50	8:10	500.0	398.8
10:45	1:15	135.6	-500.0	7:15	4:45	500.0	-212.5	3:45	8:15	500.0	418.3
10:40	1:20	145.3	-500.0	7:10	4:50	500.0	-197.4	3:40	8:20	500.0	438.4
10:35	1:25	155.3	-500.0	7:05	4:55	500.0	-182.5	3:35	8:25	500.0	459.1
10:30	1:30	165.4	-500.0	7:00	5:00	500.0	-167.8	3:30	8:30	500.0	480.4
10:25	1:35	175.7	-500.0	6:55	5:05	500.0	-153.2				
10:20	1:40	186.2	-500.0	6:50	5:10	500.0	-138.8				
10:15	1:45	196.9	-500.0	6:45	5:15	500.0	-124.5				
10:10	1:50	207.9	-500.0	6:40	5:20	500.0	-110.4				
10:05	1:55	219.1	-500.0	6:35	5:25	500.0	-96.4				
10:00	2:00	230.5	-500.0	6:30	5:30	500.0	-82.4				
9:55	2:05	242.3	-500.0	6:25	5:35	500.0	-68.6				
9:50	2:10	254.4	-500.0	6:20	5:40	500.0	-54.8				
9:45	2:15	266.8	-500.0	6:15	5:45	500.0	-41.0				
9:40	2:20	279.6	-500.0	6:10	5:50	500.0	-27.3				
9:35	2:25	292.8	-500.0	6:05	5:55	500.0	-13.7				
9:30	2:30	306.4	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	320.5	-500.0	5:55	6:05	500.0	13.7				
9:20	2:40	335.1	-500.0	5:50	6:10	500.0	27.3				
9:15	2:45	350.2	-500.0	5:45	6:15	500.0	41.0				
9:10	2:50	365.9	-500.0	5:40	6:20	500.0	54.8				
9:05	2:55	382.3	-500.0	5:35	6:25	500.0	68.6				
9:00	3:00	399.3	-500.0	5:30	6:30	500.0	82.4				
8:55	3:05	417.1	-500.0	5:25	6:35	500.0	96.4				
8:50	3:10	435.8	-500.0	5:20	6:40	500.0	110.4				
8:45	3:15	455.3	-500.0	5:15	6:45	500.0	124.5				
8:40	3:20	475.9	-500.0	5:10	6:50	500.0	138.8				
8:35	3:25	497.5	-500.0	5:05	6:55	500.0	153.2				
8:30	3:30	500.0	-480.4	5:00	7:00	500.0	167.8				

Horizontal Shadow Plane Sundial

Latitude: 53.0° N/S

Earliest Sunrise: 3:32 a.m. Latest Sunset: 8:28 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	26.1	-1500.0	8:25	3:35	1500.0	-1377.2	4:55	7:05	1500.0	547.4
11:50	12:10	52.3	-1500.0	8:20	3:40	1500.0	-1315.1	4:50	7:10	1500.0	592.2
11:45	12:15	78.5	-1500.0	8:15	3:45	1500.0	-1255.0	4:45	7:15	1500.0	637.6
11:40	12:20	104.8	-1500.0	8:10	3:50	1500.0	-1196.5	4:40	7:20	1500.0	683.6
11:35	12:25	131.2	-1500.0	8:05	3:55	1500.0	-1139.7	4:35	7:25	1500.0	730.4
11:30	12:30	157.7	-1500.0	8:00	4:00	1500.0	-1084.4	4:30	7:30	1500.0	778.0
11:25	12:35	184.4	-1500.0	7:55	4:05	1500.0	-1030.4	4:25	7:35	1500.0	826.4
11:20	12:40	211.2	-1500.0	7:50	4:10	1500.0	-977.7	4:20	7:40	1500.0	875.8
11:15	12:45	238.3	-1500.0	7:45	4:15	1500.0	-926.2	4:15	7:45	1500.0	926.2
11:10	12:50	265.6	-1500.0	7:40	4:20	1500.0	-875.8	4:10	7:50	1500.0	977.7
11:05	12:55	293.1	-1500.0	7:35	4:25	1500.0	-826.4	4:05	7:55	1500.0	1030.4
11:00	1:00	321.0	-1500.0	7:30	4:30	1500.0	-778.0	4:00	8:00	1500.0	1084.4
10:55	1:05	349.2	-1500.0	7:25	4:35	1500.0	-730.4	3:55	8:05	1500.0	1139.7
10:50	1:10	377.7	-1500.0	7:20	4:40	1500.0	-683.6	3:50	8:10	1500.0	1196.5
10:45	1:15	406.7	-1500.0	7:15	4:45	1500.0	-637.6	3:45	8:15	1500.0	1255.0
10:40	1:20	436.0	-1500.0	7:10	4:50	1500.0	-592.2	3:40	8:20	1500.0	1315.1
10:35	1:25	465.9	-1500.0	7:05	4:55	1500.0	-547.4	3:35	8:25	1500.0	1377.2
10:30	1:30	496.2	-1500.0	7:00	5:00	1500.0	-503.3	3:30	8:30	1500.0	1441.2
10:25	1:35	527.1	-1500.0	6:55	5:05	1500.0	-459.6				
10:20	1:40	558.6	-1500.0	6:50	5:10	1500.0	-416.4				
10:15	1:45	590.8	-1500.0	6:45	5:15	1500.0	-373.6				
10:10	1:50	623.6	-1500.0	6:40	5:20	1500.0	-331.2				
10:05	1:55	657.2	-1500.0	6:35	5:25	1500.0	-289.1				
10:00	2:00	691.6	-1500.0	6:30	5:30	1500.0	-247.3				
9:55	2:05	726.9	-1500.0	6:25	5:35	1500.0	-205.7				
9:50	2:10	763.2	-1500.0	6:20	5:40	1500.0	-164.3				
9:45	2:15	800.4	-1500.0	6:15	5:45	1500.0	-123.1				
9:40	2:20	838.8	-1500.0	6:10	5:50	1500.0	-82.0				
9:35	2:25	878.4	-1500.0	6:05	5:55	1500.0	-41.0				
9:30	2:30	919.2	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	961.5	-1500.0	5:55	6:05	1500.0	41.0				
9:20	2:40	1005.2	-1500.0	5:50	6:10	1500.0	82.0				
9:15	2:45	1050.6	-1500.0	5:45	6:15	1500.0	123.1				
9:10	2:50	1097.7	-1500.0	5:40	6:20	1500.0	164.3				
9:05	2:55	1146.8	-1500.0	5:35	6:25	1500.0	205.7				
9:00	3:00	1198.0	-1500.0	5:30	6:30	1500.0	247.3				
8:55	3:05	1251.4	-1500.0	5:25	6:35	1500.0	289.1				
8:50	3:10	1307.3	-1500.0	5:20	6:40	1500.0	331.2				
8:45	3:15	1366.0	-1500.0	5:15	6:45	1500.0	373.6				
8:40	3:20	1427.7	-1500.0	5:10	6:50	1500.0	416.4				
8:35	3:25	1492.6	-1500.0	5:05	6:55	1500.0	459.6				
8:30	3:30	1500.0	-1441.2	5:00	7:00	1500.0	503.3				