

Horizontal Shadow Plane Sundial

Latitude: 50.0° N/S

Earliest Sunrise: 3:49 a.m. Latest Sunset: 8:11 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	-478.6	4:55	7:05	500.0	190.2
11:50	12:10	16.7	-500.0	8:20	3:40	500.0	-457.0	4:50	7:10	500.0	205.8
11:45	12:15	25.1	-500.0	8:15	3:45	500.0	-436.1	4:45	7:15	500.0	221.6
11:40	12:20	33.5	-500.0	8:10	3:50	500.0	-415.8	4:40	7:20	500.0	237.6
11:35	12:25	41.9	-500.0	8:05	3:55	500.0	-396.1	4:35	7:25	500.0	253.8
11:30	12:30	50.4	-500.0	8:00	4:00	500.0	-376.8	4:30	7:30	500.0	270.4
11:25	12:35	59.0	-500.0	7:55	4:05	500.0	-358.1	4:25	7:35	500.0	287.2
11:20	12:40	67.5	-500.0	7:50	4:10	500.0	-339.8	4:20	7:40	500.0	304.4
11:15	12:45	76.2	-500.0	7:45	4:15	500.0	-321.9	4:15	7:45	500.0	321.9
11:10	12:50	84.9	-500.0	7:40	4:20	500.0	-304.4	4:10	7:50	500.0	339.8
11:05	12:55	93.7	-500.0	7:35	4:25	500.0	-287.2	4:05	7:55	500.0	358.1
11:00	1:00	102.6	-500.0	7:30	4:30	500.0	-270.4	4:00	8:00	500.0	376.8
10:55	1:05	111.6	-500.0	7:25	4:35	500.0	-253.8	3:55	8:05	500.0	396.1
10:50	1:10	120.8	-500.0	7:20	4:40	500.0	-237.6	3:50	8:10	500.0	415.8
10:45	1:15	130.0	-500.0	7:15	4:45	500.0	-221.6	3:45	8:15	500.0	436.1
10:40	1:20	139.4	-500.0	7:10	4:50	500.0	-205.8				
10:35	1:25	148.9	-500.0	7:05	4:55	500.0	-190.2				
10:30	1:30	158.7	-500.0	7:00	5:00	500.0	-174.9				
10:25	1:35	168.5	-500.0	6:55	5:05	500.0	-159.7				
10:20	1:40	178.6	-500.0	6:50	5:10	500.0	-144.7				
10:15	1:45	188.9	-500.0	6:45	5:15	500.0	-129.8				
10:10	1:50	199.4	-500.0	6:40	5:20	500.0	-115.1				
10:05	1:55	210.1	-500.0	6:35	5:25	500.0	-100.5				
10:00	2:00	221.1	-500.0	6:30	5:30	500.0	-85.9				
9:55	2:05	232.4	-500.0	6:25	5:35	500.0	-71.5				
9:50	2:10	244.0	-500.0	6:20	5:40	500.0	-57.1				
9:45	2:15	255.9	-500.0	6:15	5:45	500.0	-42.8				
9:40	2:20	268.2	-500.0	6:10	5:50	500.0	-28.5				
9:35	2:25	280.8	-500.0	6:05	5:55	500.0	-14.2				
9:30	2:30	293.9	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	307.4	-500.0	5:55	6:05	500.0	14.2				
9:20	2:40	321.4	-500.0	5:50	6:10	500.0	28.5				
9:15	2:45	335.9	-500.0	5:45	6:15	500.0	42.8				
9:10	2:50	351.0	-500.0	5:40	6:20	500.0	57.1				
9:05	2:55	366.7	-500.0	5:35	6:25	500.0	71.5				
9:00	3:00	383.0	-500.0	5:30	6:30	500.0	85.9				
8:55	3:05	400.1	-500.0	5:25	6:35	500.0	100.5				
8:50	3:10	418.0	-500.0	5:20	6:40	500.0	115.1				
8:45	3:15	436.8	-500.0	5:15	6:45	500.0	129.8				
8:40	3:20	456.5	-500.0	5:10	6:50	500.0	144.7				
8:35	3:25	477.2	-500.0	5:05	6:55	500.0	159.7				
8:30	3:30	499.2	-500.0	5:00	7:00	500.0	174.9				

Horizontal Shadow Plane Sundial

Latitude: 50.0° N/S

Earliest Sunrise: 3:49 a.m. Latest Sunset: 8:11 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	25.1	-1500.0	8:25	3:35	1500.0	-1435.7	4:55	7:05	1500.0	570.7
11:50	12:10	50.2	-1500.0	8:20	3:40	1500.0	-1371.1	4:50	7:10	1500.0	617.4
11:45	12:15	75.3	-1500.0	8:15	3:45	1500.0	-1308.4	4:45	7:15	1500.0	664.7
11:40	12:20	100.5	-1500.0	8:10	3:50	1500.0	-1247.5	4:40	7:20	1500.0	712.7
11:35	12:25	125.8	-1500.0	8:05	3:55	1500.0	-1188.2	4:35	7:25	1500.0	761.5
11:30	12:30	151.3	-1500.0	8:00	4:00	1500.0	-1130.5	4:30	7:30	1500.0	811.1
11:25	12:35	176.9	-1500.0	7:55	4:05	1500.0	-1074.3	4:25	7:35	1500.0	861.6
11:20	12:40	202.6	-1500.0	7:50	4:10	1500.0	-1019.3	4:20	7:40	1500.0	913.1
11:15	12:45	228.6	-1500.0	7:45	4:15	1500.0	-965.6	4:15	7:45	1500.0	965.6
11:10	12:50	254.7	-1500.0	7:40	4:20	1500.0	-913.1	4:10	7:50	1500.0	1019.3
11:05	12:55	281.2	-1500.0	7:35	4:25	1500.0	-861.6	4:05	7:55	1500.0	1074.3
11:00	1:00	307.9	-1500.0	7:30	4:30	1500.0	-811.1	4:00	8:00	1500.0	1130.5
10:55	1:05	334.9	-1500.0	7:25	4:35	1500.0	-761.5	3:55	8:05	1500.0	1188.2
10:50	1:10	362.3	-1500.0	7:20	4:40	1500.0	-712.7	3:50	8:10	1500.0	1247.5
10:45	1:15	390.1	-1500.0	7:15	4:45	1500.0	-664.7	3:45	8:15	1500.0	1308.4
10:40	1:20	418.2	-1500.0	7:10	4:50	1500.0	-617.4				
10:35	1:25	446.8	-1500.0	7:05	4:55	1500.0	-570.7				
10:30	1:30	476.0	-1500.0	7:00	5:00	1500.0	-524.7				
10:25	1:35	505.6	-1500.0	6:55	5:05	1500.0	-479.1				
10:20	1:40	535.8	-1500.0	6:50	5:10	1500.0	-434.1				
10:15	1:45	566.7	-1500.0	6:45	5:15	1500.0	-389.5				
10:10	1:50	598.2	-1500.0	6:40	5:20	1500.0	-345.3				
10:05	1:55	630.4	-1500.0	6:35	5:25	1500.0	-301.4				
10:00	2:00	663.4	-1500.0	6:30	5:30	1500.0	-257.8				
9:55	2:05	697.3	-1500.0	6:25	5:35	1500.0	-214.4				
9:50	2:10	732.0	-1500.0	6:20	5:40	1500.0	-171.3				
9:45	2:15	767.8	-1500.0	6:15	5:45	1500.0	-128.3				
9:40	2:20	804.6	-1500.0	6:10	5:50	1500.0	-85.5				
9:35	2:25	842.5	-1500.0	6:05	5:55	1500.0	-42.7				
9:30	2:30	881.7	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	922.2	-1500.0	5:55	6:05	1500.0	42.7				
9:20	2:40	964.2	-1500.0	5:50	6:10	1500.0	85.5				
9:15	2:45	1007.7	-1500.0	5:45	6:15	1500.0	128.3				
9:10	2:50	1052.9	-1500.0	5:40	6:20	1500.0	171.3				
9:05	2:55	1100.0	-1500.0	5:35	6:25	1500.0	214.4				
9:00	3:00	1149.1	-1500.0	5:30	6:30	1500.0	257.8				
8:55	3:05	1200.3	-1500.0	5:25	6:35	1500.0	301.4				
8:50	3:10	1254.0	-1500.0	5:20	6:40	1500.0	345.3				
8:45	3:15	1310.3	-1500.0	5:15	6:45	1500.0	389.5				
8:40	3:20	1369.4	-1500.0	5:10	6:50	1500.0	434.1				
8:35	3:25	1431.7	-1500.0	5:05	6:55	1500.0	479.1				
8:30	3:30	1497.5	-1500.0	5:00	7:00	1500.0	524.7				