

Horizontal Shadow Plane Sundial

Latitude: 48.0° N/S

Earliest Sunrise: 3:58 a.m. Latest Sunset: 8:02 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	8.1	-500.0	8:25	3:35	500.0	-493.3	4:55	7:05	500.0	196.1
11:50	12:10	16.2	-500.0	8:20	3:40	500.0	-471.1	4:50	7:10	500.0	212.1
11:45	12:15	24.4	-500.0	8:15	3:45	500.0	-449.6	4:45	7:15	500.0	228.4
11:40	12:20	32.5	-500.0	8:10	3:50	500.0	-428.6	4:40	7:20	500.0	244.9
11:35	12:25	40.7	-500.0	8:05	3:55	500.0	-408.3	4:35	7:25	500.0	261.6
11:30	12:30	48.9	-500.0	8:00	4:00	500.0	-388.5	4:30	7:30	500.0	278.7
11:25	12:35	57.2	-500.0	7:55	4:05	500.0	-369.1	4:25	7:35	500.0	296.0
11:20	12:40	65.5	-500.0	7:50	4:10	500.0	-350.2	4:20	7:40	500.0	313.7
11:15	12:45	73.9	-500.0	7:45	4:15	500.0	-331.8	4:15	7:45	500.0	331.8
11:10	12:50	82.4	-500.0	7:40	4:20	500.0	-313.7	4:10	7:50	500.0	350.2
11:05	12:55	90.9	-500.0	7:35	4:25	500.0	-296.0	4:05	7:55	500.0	369.1
11:00	1:00	99.6	-500.0	7:30	4:30	500.0	-278.7	4:00	8:00	500.0	388.5
10:55	1:05	108.3	-500.0	7:25	4:35	500.0	-261.6	3:55	8:05	500.0	408.3
10:50	1:10	117.2	-500.0	7:20	4:40	500.0	-244.9	3:50	8:10	500.0	428.6
10:45	1:15	126.1	-500.0	7:15	4:45	500.0	-228.4	3:45	8:15	500.0	449.6
10:40	1:20	135.2	-500.0	7:10	4:50	500.0	-212.1				
10:35	1:25	144.5	-500.0	7:05	4:55	500.0	-196.1				
10:30	1:30	153.9	-500.0	7:00	5:00	500.0	-180.3				
10:25	1:35	163.5	-500.0	6:55	5:05	500.0	-164.6				
10:20	1:40	173.3	-500.0	6:50	5:10	500.0	-149.2				
10:15	1:45	183.2	-500.0	6:45	5:15	500.0	-133.8				
10:10	1:50	193.4	-500.0	6:40	5:20	500.0	-118.6				
10:05	1:55	203.9	-500.0	6:35	5:25	500.0	-103.6				
10:00	2:00	214.5	-500.0	6:30	5:30	500.0	-88.6				
9:55	2:05	225.5	-500.0	6:25	5:35	500.0	-73.7				
9:50	2:10	236.7	-500.0	6:20	5:40	500.0	-58.9				
9:45	2:15	248.3	-500.0	6:15	5:45	500.0	-44.1				
9:40	2:20	260.2	-500.0	6:10	5:50	500.0	-29.4				
9:35	2:25	272.4	-500.0	6:05	5:55	500.0	-14.7				
9:30	2:30	285.1	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	298.2	-500.0	5:55	6:05	500.0	14.7				
9:20	2:40	311.8	-500.0	5:50	6:10	500.0	29.4				
9:15	2:45	325.9	-500.0	5:45	6:15	500.0	44.1				
9:10	2:50	340.5	-500.0	5:40	6:20	500.0	58.9				
9:05	2:55	355.7	-500.0	5:35	6:25	500.0	73.7				
9:00	3:00	371.6	-500.0	5:30	6:30	500.0	88.6				
8:55	3:05	388.1	-500.0	5:25	6:35	500.0	103.6				
8:50	3:10	405.5	-500.0	5:20	6:40	500.0	118.6				
8:45	3:15	423.7	-500.0	5:15	6:45	500.0	133.8				
8:40	3:20	442.8	-500.0	5:10	6:50	500.0	149.2				
8:35	3:25	463.0	-500.0	5:05	6:55	500.0	164.6				
8:30	3:30	484.2	-500.0	5:00	7:00	500.0	180.3				

Horizontal Shadow Plane Sundial

Latitude: 48.0° N/S

Earliest Sunrise: 3:58 a.m. Latest Sunset: 8:02 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	24.3	-1500.0	8:25	3:35	1500.0	-1480.0	4:55	7:05	1500.0	588.3
11:50	12:10	48.7	-1500.0	8:20	3:40	1500.0	-1413.3	4:50	7:10	1500.0	636.4
11:45	12:15	73.1	-1500.0	8:15	3:45	1500.0	-1348.7	4:45	7:15	1500.0	685.2
11:40	12:20	97.5	-1500.0	8:10	3:50	1500.0	-1285.9	4:40	7:20	1500.0	734.7
11:35	12:25	122.1	-1500.0	8:05	3:55	1500.0	-1224.8	4:35	7:25	1500.0	784.9
11:30	12:30	146.8	-1500.0	8:00	4:00	1500.0	-1165.4	4:30	7:30	1500.0	836.1
11:25	12:35	171.6	-1500.0	7:55	4:05	1500.0	-1107.4	4:25	7:35	1500.0	888.1
11:20	12:40	196.6	-1500.0	7:50	4:10	1500.0	-1050.7	4:20	7:40	1500.0	941.2
11:15	12:45	221.7	-1500.0	7:45	4:15	1500.0	-995.4	4:15	7:45	1500.0	995.4
11:10	12:50	247.1	-1500.0	7:40	4:20	1500.0	-941.2	4:10	7:50	1500.0	1050.7
11:05	12:55	272.8	-1500.0	7:35	4:25	1500.0	-888.1	4:05	7:55	1500.0	1107.4
11:00	1:00	298.7	-1500.0	7:30	4:30	1500.0	-836.1	4:00	8:00	1500.0	1165.4
10:55	1:05	324.9	-1500.0	7:25	4:35	1500.0	-784.9	3:55	8:05	1500.0	1224.8
10:50	1:10	351.5	-1500.0	7:20	4:40	1500.0	-734.7	3:50	8:10	1500.0	1285.9
10:45	1:15	378.4	-1500.0	7:15	4:45	1500.0	-685.2	3:45	8:15	1500.0	1348.7
10:40	1:20	405.7	-1500.0	7:10	4:50	1500.0	-636.4				
10:35	1:25	433.5	-1500.0	7:05	4:55	1500.0	-588.3				
10:30	1:30	461.7	-1500.0	7:00	5:00	1500.0	-540.8				
10:25	1:35	490.5	-1500.0	6:55	5:05	1500.0	-493.9				
10:20	1:40	519.8	-1500.0	6:50	5:10	1500.0	-447.5				
10:15	1:45	549.7	-1500.0	6:45	5:15	1500.0	-401.5				
10:10	1:50	580.3	-1500.0	6:40	5:20	1500.0	-355.9				
10:05	1:55	611.6	-1500.0	6:35	5:25	1500.0	-310.7				
10:00	2:00	643.6	-1500.0	6:30	5:30	1500.0	-265.7				
9:55	2:05	676.4	-1500.0	6:25	5:35	1500.0	-221.1				
9:50	2:10	710.2	-1500.0	6:20	5:40	1500.0	-176.6				
9:45	2:15	744.8	-1500.0	6:15	5:45	1500.0	-132.3				
9:40	2:20	780.5	-1500.0	6:10	5:50	1500.0	-88.1				
9:35	2:25	817.3	-1500.0	6:05	5:55	1500.0	-44.0				
9:30	2:30	855.4	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	894.7	-1500.0	5:55	6:05	1500.0	44.0				
9:20	2:40	935.4	-1500.0	5:50	6:10	1500.0	88.1				
9:15	2:45	977.6	-1500.0	5:45	6:15	1500.0	132.3				
9:10	2:50	1021.5	-1500.0	5:40	6:20	1500.0	176.6				
9:05	2:55	1067.1	-1500.0	5:35	6:25	1500.0	221.1				
9:00	3:00	1114.7	-1500.0	5:30	6:30	1500.0	265.7				
8:55	3:05	1164.4	-1500.0	5:25	6:35	1500.0	310.7				
8:50	3:10	1216.5	-1500.0	5:20	6:40	1500.0	355.9				
8:45	3:15	1271.1	-1500.0	5:15	6:45	1500.0	401.5				
8:40	3:20	1328.5	-1500.0	5:10	6:50	1500.0	447.5				
8:35	3:25	1388.9	-1500.0	5:05	6:55	1500.0	493.9				
8:30	3:30	1452.7	-1500.0	5:00	7:00	1500.0	540.8				