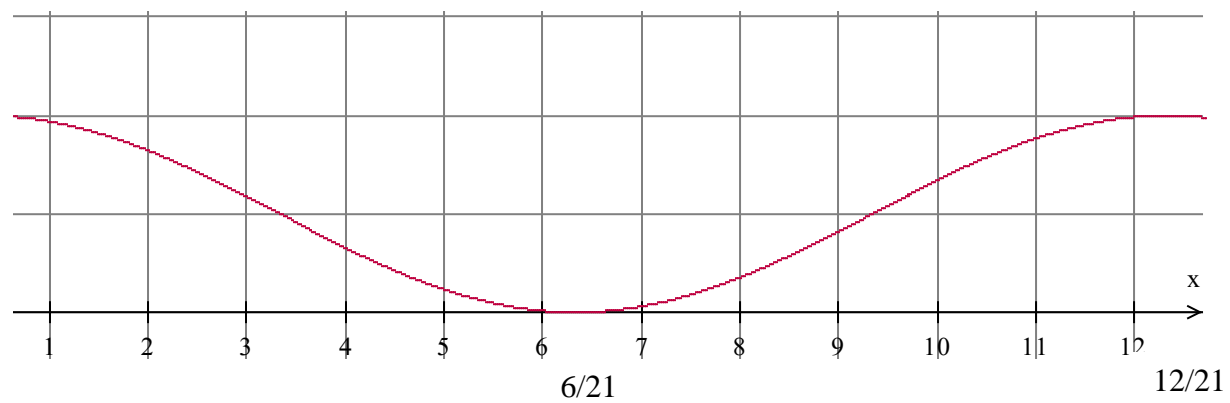


Location	Alexandria	Tucson	Tucson
Observation date	June 21	Jan 17	Aug 30
Latitude	31.1	32.2	32.2
Solar declination (sub-solar point)	23.4	-20.6	7.9
Approx. distance	5000 st.; 925 km	5820 km	2700 km
Right angle	90.0	90.0	90.0
Included angle	7.2	52.6	24.1
Solar altitude	82.8	37.4	65.9
Circumference	250,000 st; 46,250 km	39,833 km	40,332 km



	3/21	6/21	9/21	12/21
Solar declination	0	23.5	0	-23.5
Solar altitude	90-23.5	90	90-23.5	90-47
Shadow	moderate	none	moderate	longest