

SunPosition location: **Zamora, California**

Latitude: 38 48' N Time zone: UTC -7 (DST: Yes)  
 Longitude: 121 53' W DST dates(dd/mm/yyyy): 11/03/2018 to 04/11/2018  
 Magnetic declination: 14 23' E USA, Canada etc, Second Sunday in March to First Sunday in November

*Magnetic North was used for this calculation.  
 Do not correct compasses for Magnetic declination, this has been accounted for in the calculations.*

Daily Summary	C Dawn	Az'	Sunrise	Day Length	Sunset	Az'	C Dusk
Sat 23/07/2016	05:30	48.6°	06:00	14:26	20:26	281.6°	20:57

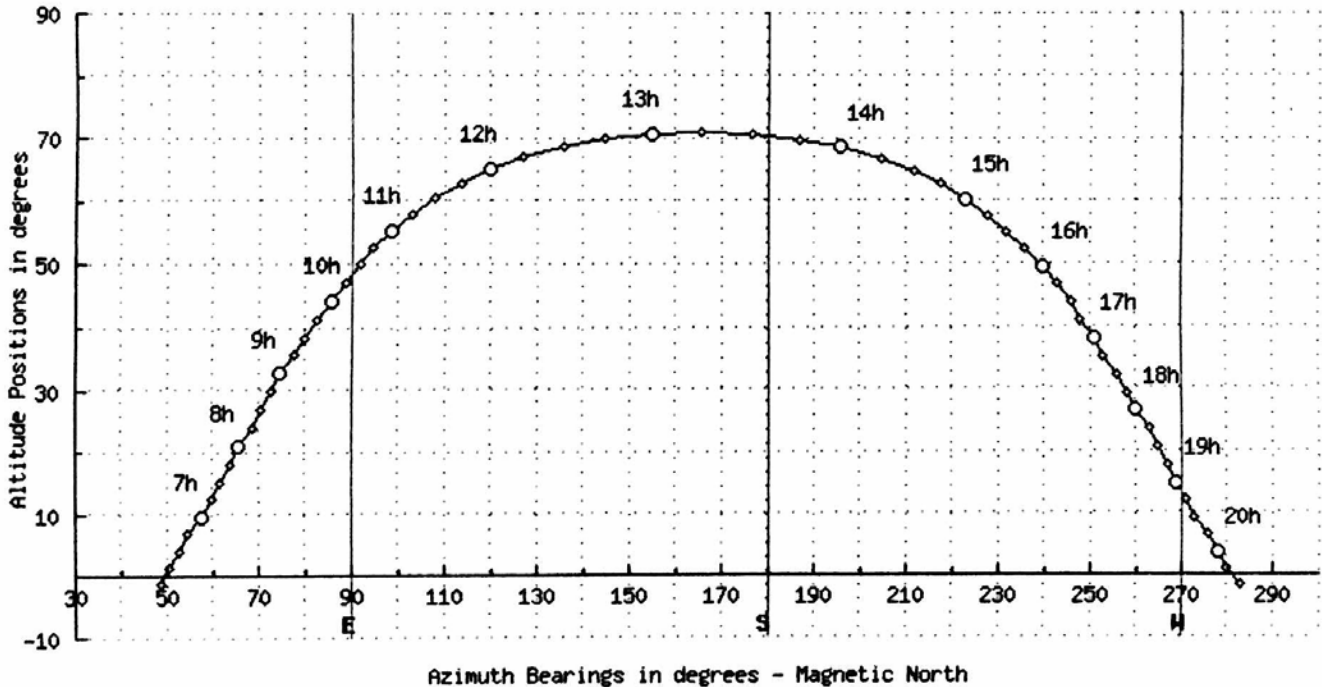
**Saturday, 23rd July 2016**

Az'	Alt'	*Shadow	Az'	Alt'	*Shadow	Az'	Alt'	*Shadow	Az'	Alt'	*Shadow				
06:00	49°	-1°	-	10:00	86°	44°	1.04	14:00	196°	69°	0.38	18:00	260°	26°	2.05
	51°	2°	28.64		89°	47°	0.93		205°	67°	0.42		263°	24°	2.25
	53°	4°	14.3		92°	50°	0.84		212°	65°	0.47		265°	21°	2.61
	55°	7°	8.14		95°	53°	0.75		218°	63°	0.51		267°	18°	3.08
07:00	58°	10°	5.67	11:00	99°	55°	0.7	15:00	223°	60°	0.58	19:00	269°	15°	3.73
	60°	12°	4.7		103°	58°	0.62		228°	58°	0.62		271°	12°	4.7
	62°	15°	3.73		108°	61°	0.55		232°	55°	0.7		273°	9°	6.31
	64°	18°	3.08		114°	63°	0.51		236°	52°	0.78		276°	7°	8.14
08:00	66°	21°	2.61	12:00	120°	65°	0.47	16:00	240°	50°	0.84	20:00	278°	4°	14.3
	69°	24°	2.25		127°	67°	0.42		243°	47°	0.93		280°	1°	57.29
	71°	27°	1.96		136°	69°	0.38		246°	44°	1.04		283°	-2°	-
	73°	30°	1.73		145°	70°	0.36		248°	41°	1.15				
09:00	75°	33°	1.54	13:00	155°	71°	0.34	17:00	251°	38°	1.28				
	78°	36°	1.38		166°	71°	0.34		253°	35°	1.43				
	80°	39°	1.23		177°	71°	0.34		256°	32°	1.6				
	83°	41°	1.15		187°	70°	0.36		258°	29°	1.8				

Calculation intervals: Every 15 minutes :: Shadow length = (\*Shadow x Object height)

Sunrise: 06:00 - Az' 48.6°

Sunset: 20:26 - Az' 281.6°



SunPosition registered to: Gaffers Company at Backlight Crew

SunPosition :: Online sun positioning software © Mike Brackenridge 2005 - 2018 :: <http://www.sunposition.info>