

Solar Path Table

Wednesday, May 23, 2018

		Date	Rise	Set
SS	Summer Solstice	Jun 21	5:36 am	8:14 pm
FE	Fall Equinox	Sep 22	6:43 am	6:52 pm

TOD	SS Azi	SS Elev	Note	FE Azi	FE Elev	Note
6 am	63	3	Cliff	-	-	
7	71	14	Cliff	92	3	Cliff
8	79	26	Shade	101	14	Cliff
9	87	38	Shade	111	26	Shade
10	97	50	Shade	124	36	Shade
11	110	61	Shade	140	45	Shade
Noon	133	72		160	51	
1 pm	182	76		185	53	
2	229	71		208	50	
3	251	61		227	42	
4	264	49		242	33	
5	273	37		253	21	
6	281	25	Shade	263	10	
7	289	13	Shade	272	0	
8	298	3	Shade	-	-	

The cliff blocks direct sunlight until about 8am. From then until about noon the pine trees provide a partial (~50%) shade on the panels.

The blue sky does provide partial power even when the sun is blocked.

Power generated by the PV panel is about:

Blocked by cliff	4 W
Shaded by trees	5 W
Peak ~ 2pm	15 W
Late afternoon	5 W

Cliff Camp Horizon

	Azi	Alt
N	0	6
	30	12
	60	20
E	90	25
	120	20
	150	15
S	180	10
	210	10
	240	7
W	270	6
	300	5
	330	6
N	360	6