

A One Day of Sun Observations

One student made the following observations of the sun's position on September 23.

Eastern Daylight Time (EDT)	Sun's Altitude	Sun's Azimuth
7:00 A.M.	-----	-----
8:00	08°	097°
9:00	19	107
10:00	29	119
11:00	38	133
12:00	45	150
1:00 P.M.	49	172
2:00	48	197
3:00	42	217
4:00	35	232
5:00	25	246
6:00	14	257
7:00	03	267

Date	Angle from Sun to Moon	Moon Altitude	Moon Azimuth
Oct. 16	032°	17°	230°
18	057	25	205
20	081	28	180
22	104	30	157
24	126	25	130
26	147	16	106
28	169	05	083

B. A Year of Sun Observations

One student made the following monthly observations of the sun through a full year. (He had remarkably clear weather!)

Dates	Sun's Noon Altitude	Sunset Azimuth	Time Between Noon and Sunset
Jan 1	20°	238°	4 ^h 25 ^m *
Feb 1	26	245	4 50
Mar 1	35	259	5 27
Apr 1	47	276	6 15
May 1	58	291	6 55
Jun 1	65	300	7 30
Jul 1	66	303	7 40
Aug 1	61	295	7 13
Sep 1	52	282	6 35
Oct 1	40	267	5 50
Nov 1	31	250	5 00
Dec 1	21	239	4 30

*h = hours. m = minutes.