

Astronomical Applications Dept.
U.S. Naval Observatory
Washington, DC 20392-5420
SACRAMENTO, CALIFORNIA

0 , 0 ,
W121 28, N38 34

Altitude and Azimuth of the Sun

Pacific Daylight Time

zenith angle = $90 - \text{altitude}$,

use N-S Distance LA to Sacramento = 500 km

Friday, March 17, 2017

time	altitude	azimuth	zenith angle
12:20	48.5	159.4	41.5
12:30	49.1	163.0	40.9
12:40	49.7	166.8	40.3
12:50	50.0	170.6	40.0
13:00	50.3	174.5	39.7
13:10	50.4	178.4	39.6
13:20	50.4	182.3	39.6
13:30	50.3	186.3	39.7
13:40	50.0	190.1	40.0
13:50	49.6	194.0	40.4
14:00	49.0	197.7	41.0

Saturday, March 18, 2017

time	altitude	azimuth	zenith angle
12:20	48.9	159.3	41.1
12:30	49.5	163.0	40.5
12:40	50.1	166.8	39.9
12:50	50.4	170.7	39.6
13:00	50.7	174.6	39.3
13:10	50.8	178.5	39.2
13:20	50.8	182.5	39.2
13:30	50.6	186.4	39.4
13:40	50.4	190.3	39.6
13:50	50.0	194.2	40.0
14:00	49.4	198.0	40.6

Sunday, March 19, 2017

time	altitude	azimuth	zenith angle
12:20	49.3	159.2	40.7
12:30	49.9	163.0	40.1
12:40	50.5	166.8	39.5
12:50	50.8	170.7	39.2
13:00	51.1	174.7	38.9
13:10	51.2	178.6	38.8
13:20	51.2	182.6	38.8
13:30	51.0	186.6	39.0
13:40	50.7	190.5	39.3
13:50	50.3	194.4	39.7
14:00	49.8	198.2	40.2