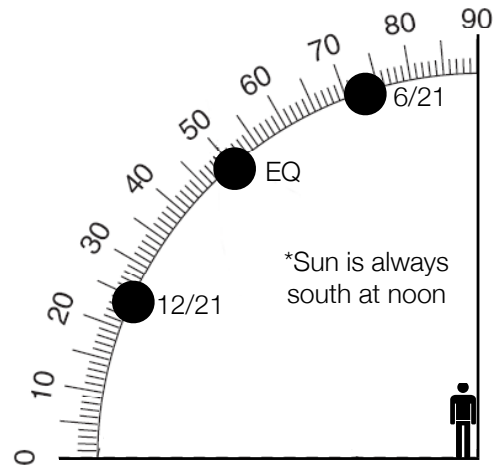


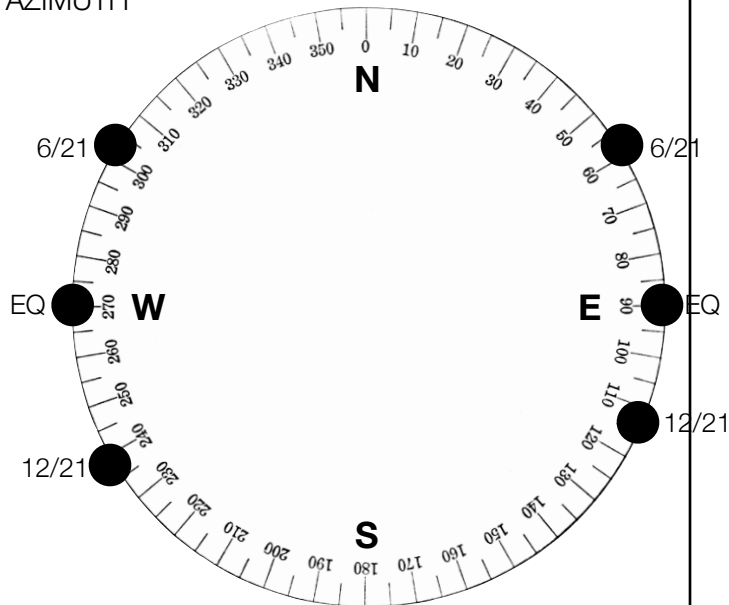
## NEW YORK, NY (41°N LATITUDE)

DATE	SUNRISE	SUNSET	DAY (HRS)	NIGHT (HRS)
12/21	7:17am	4:31pm	9	15
3/21	6:58am	7:09pm	12	12
6/21	5:25am	8:31pm	15	9
9/23	6:58am	7:09pm	12	12

### NOON SUN ALTITUDE



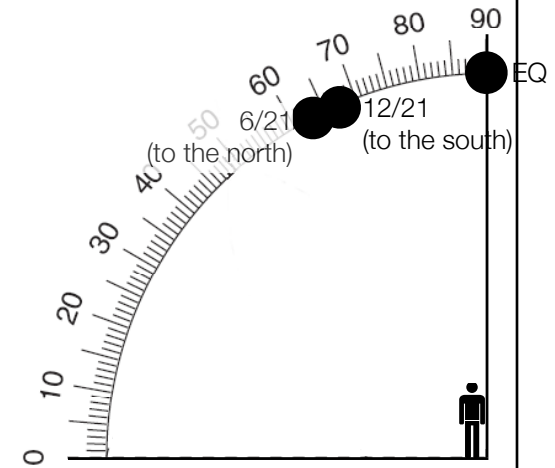
### SUNRISE/SUNSET AZIMUTH



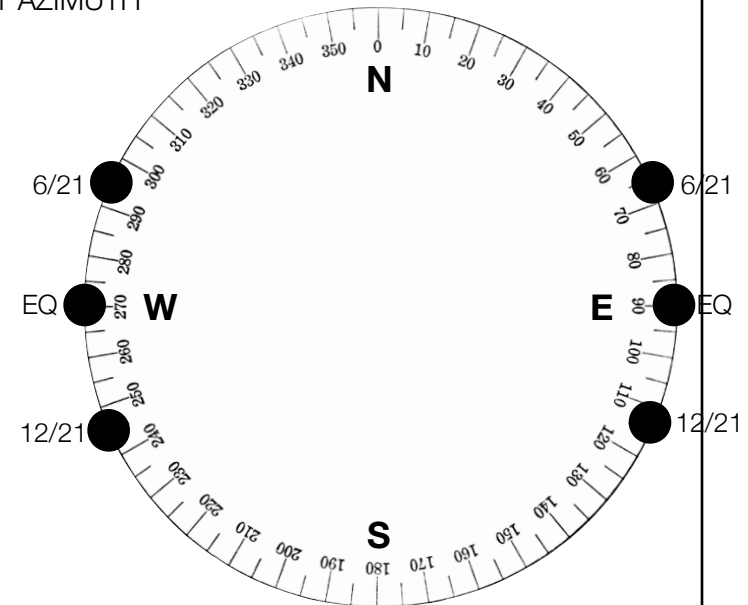
## EQUATOR (0° LATITUDE)

DATE	SUNRISE	SUNSET	DAY (HRS)	NIGHT (HRS)
12/21	5:55am	6:02pm	12	12
3/21	7:04am	7:11pm	12	12
6/21	6:58am	7:06pm	12	12
9/23	7:04am	7:11pm	12	12

### NOON SUN ALTITUDE



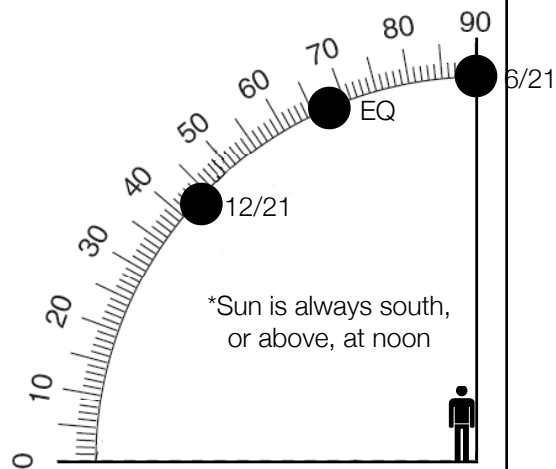
### SUNRISE/SUNSET AZIMUTH



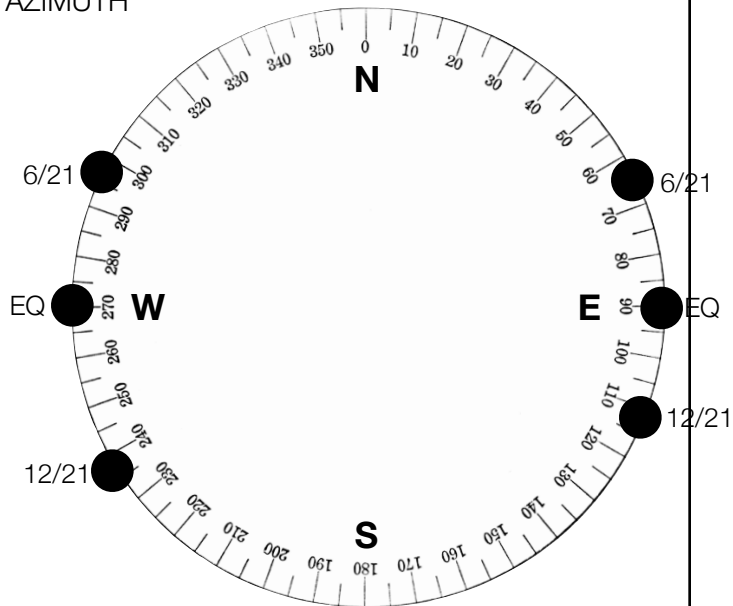
### TROPIC OF CANCER (23.5°N LATITUDE)

DATE	SUNRISE	SUNSET	DAY (HRS)	NIGHT (HRS)
12/21	6:37am	5:19pm	11	13
3/21	7:03am	7:12pm	12	12
6/21	6:14am	7:50pm	13	11
9/23	7:03am	7:12pm	12	12

#### NOON SUN ALTITUDE



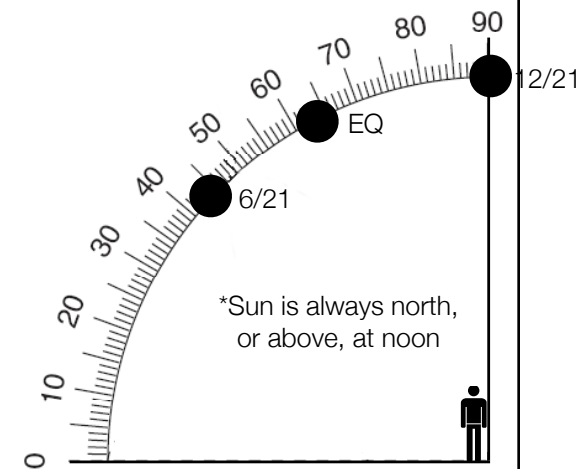
#### SUNRISE/SUNSET AZIMUTH



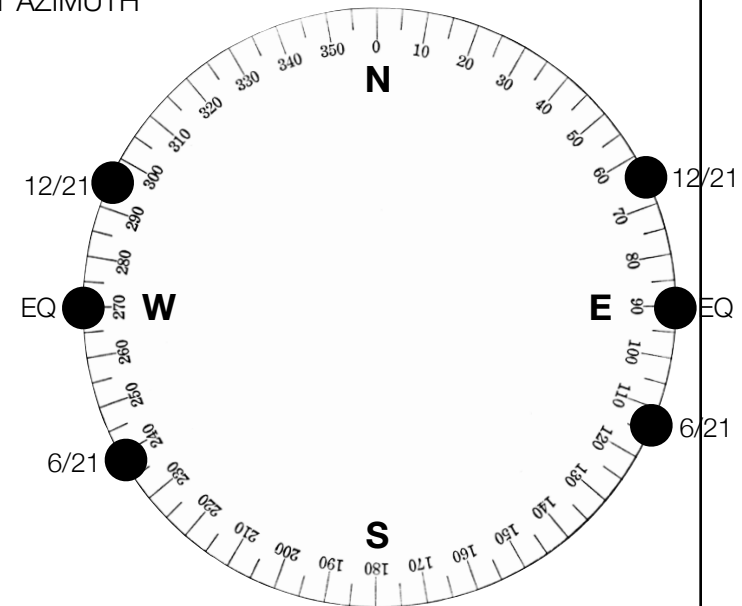
### TROPIC OF CAPRICORN (23.5°S LATITUDE)

DATE	SUNRISE	SUNSET	DAY (HRS)	NIGHT (HRS)
12/21	5:11am	6:46pm	13	11
3/21	7:04am	7:10pm	12	12
6/21	7:41am	6:22pm	11	13
9/23	7:04am	7:10pm	12	12

#### NOON SUN ALTITUDE



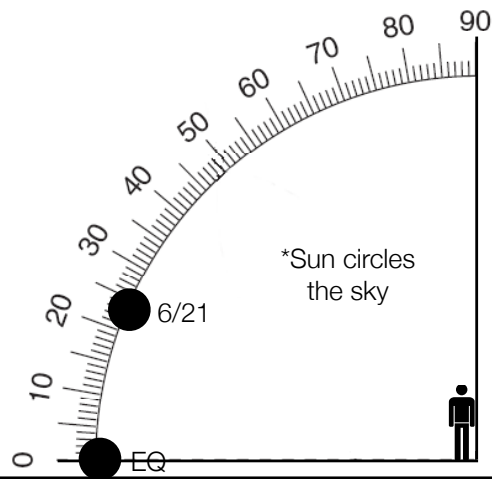
#### SUNRISE/SUNSET AZIMUTH



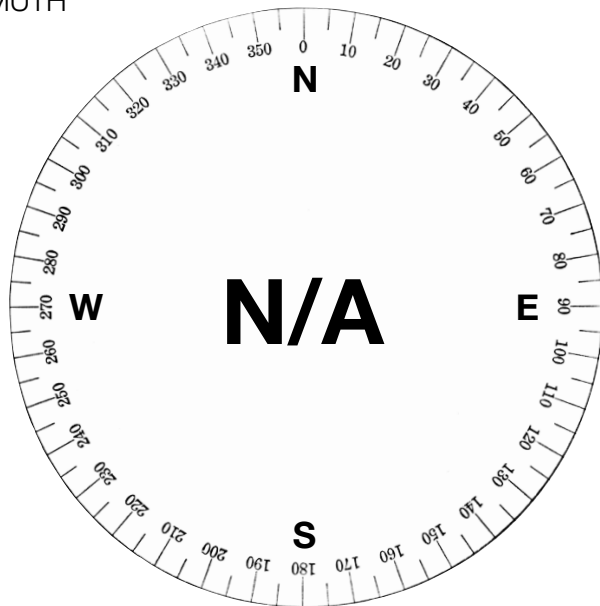
### SANTA'S VILLAGE (90°N LATITUDE)

DATE	SUNRISE	SUNSET	DAY (HRS)	NIGHT (HRS)
12/21	always down	always down	0	24
3/21	always up	always up	12	12
6/21	always up	always up	24	0
9/23	always up	always up	12	12

NOON SUN ALTITUDE



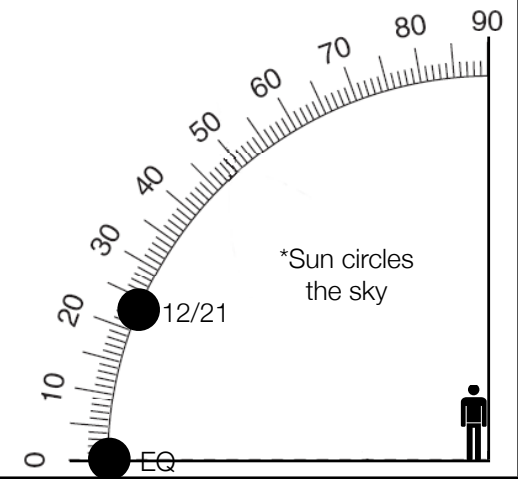
SUNRISE/SUNSET AZIMUTH



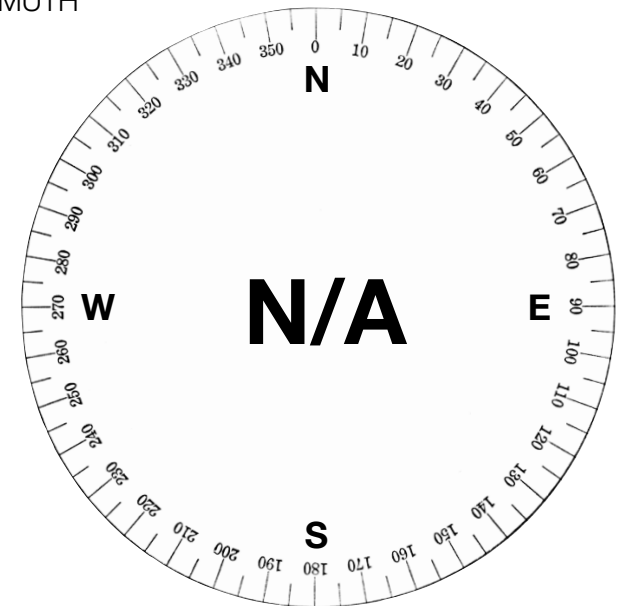
### SOUTH POLE (90°S LATITUDE)

DATE	SUNRISE	SUNSET	DAY (HRS)	NIGHT (HRS)
12/21	always up	always up	24	0
3/21	always up	always up	12	12
6/21	always down	always down	0	24
9/23	always up	always up	12	12

NOON SUN ALTITUDE



SUNRISE/SUNSET AZIMUTH



**HOURS OF DAYLIGHT**

