

Circumstances for Gainesville, Florida

**4. TOTAL LUNAR ECLIPSE OF 2015 SEPTEMBER 27/28**

**Visibility:** Entire eclipse visible from this location

Eclipse begins early evening Sept. 27, ends after midnight Sept. 28

Greatest eclipse in mid-evening

<b>Umbral Magnitude</b>	1.2764
<b>Penumbral Magnitude</b>	2.2296
<b>Duration of Total Phase</b>	1h12m
<b>Duration of Umbral Eclipse</b>	3h20m
<b>Duration of Penumbral Eclipse</b>	5h11m

Event	Date	Time (EDT)	Altitude†	Azimuth†
Moon Rises*	2015 Sep 27 (Sun)	7:12 PM	—	89°
Sun Sets*	"	7:20 PM	—	268°
End of Civil Twilight*	"	7:44 PM	—	—
End of Nautical Twilight*	"	8:12 PM	—	—
<b>1. Penumbral Eclipse Starts</b>	"	8:12 PM	12°	96°
End of Astronomical Twilight*	"	8:40 PM	—	—
<b>2. Partial Eclipse Begins</b>	"	9:07 PM	23°	103°
<b>3. Total Eclipses Begins</b>	"	10:11 PM	36°	113°
<b>4. GREATEST ECLIPSE</b>	"	<b>10:47 PM</b>	<b>43°</b>	<b>120°</b>
<b>5. Total Eclipses Ends</b>	"	11:23 PM	50°	129°
<b>6. Partial Eclipse Ends</b>	2015 Sep 28 (Mon)	12:27 AM	59°	151°
<b>7. Penumbral Eclipse Ends</b>	"	1:22 AM	62°	177°

\*Times for Gainesville, FL. Values may differ by several minutes for other Florida locations.

†Altitude & azimuth for Gainesville, FL. Values may differ by several degrees for other Florida locations.

