

2. TOTAL LUNAR ECLIPSE OF 2014 OCTOBER 8

Visibility: Only partially visible from this location

Totality starts about hour before sunrise

Mid-eclipse about 30 min. before sunrise

| | |
|--------------------------------------|--------|
| Umbral Magnitude | 1.1659 |
| Penumbral Magnitude | 2.1456 |
| Duration of Total Phase | 0h59m |
| Duration of Umbral Eclipse | 3h19m |
| Duration of Penumbral Eclipse | 5h18m |

| Event | Date | Time (EDT) | Altitude† | Azimuth† |
|------------------------------------|-------------------|----------------|-----------|-------------|
| 1. Penumbral Eclipse Starts | 2014 Oct 08 (Wed) | 4:16 AM | 40° | 251° |
| 2. Partial Eclipse Begins | " | 5:15 AM | 28° | 260° |
| Start of Astronomical Twilight* | " | 6:08 AM | — | — |
| 3. Total Eclipses Begins | " | 6:25 AM | 13° | 269° |
| Start of Nautical Twilight* | " | 6:35 AM | — | — |
| 4. MID-ECLIPSE | " | 6:55 AM | 7° | 273° |
| Start of Civil Twilight* | " | 7:03 AM | — | — |
| 5. Total Eclipses Ends | " | 7:24 AM | 1° | 276° |
| Sun Rises* | " | 7:27 AM | — | 96° |
| Moon Sets* | " | 7:32 AM | — | 277° |
| 6. Partial Eclipse Ends | " | 8:34 AM | -13° | — |
| 7. Penumbral Eclipse Ends | " | 9:34 AM | -25° | — |

*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.

