

Date	Sun		C Twi		N Twi		A Twi		Moon		Moon Illum
	R	S	B	E	B	E	B	E	R	S	
20240102	0727	1658	0657	1728	0624	1801	0552	1834	2327	1121	68%
20240103	0727	1659	0657	1729	0624	1802	0552	1834	----	1141	59%
20240104	0727	1700	0657	1730	0624	1803	0552	1835	0025	1202	49.5%
20240105	0727	1701	0658	1731	0624	1804	0552	1836	0126	1224	39.9%
20240106	0727	1702	0658	1732	0624	1805	0552	1837	0229	1251	30.5%
20240107	0727	1703	0658	1733	0624	1805	0552	1837	0336	1324	21.5%
20240108	0727	1704	0658	1734	0624	1806	0552	1838	0446	1405	13.5%
20240109	0727	1705	0657	1735	0624	1807	0552	1839	0556	1457	7%
20240110	0727	1706	0657	1735	0624	1808	0552	1840	0701	1601	2.4%
20240111	0727	1707	0657	1736	0624	1809	0552	1841	0758	1714	0.3%
20240112	0727	1708	0657	1737	0624	1810	0552	1842	0845	1833	0.9%
20240113	0726	1709	0657	1738	0624	1811	0552	1843	0923	1952	4.3%
20240114	0726	1710	0657	1739	0624	1812	0552	1844	0955	2108	10.4%
20240115	0726	1711	0656	1740	0623	1813	0552	1845	1022	2221	18.7%
20240116	0725	1712	0656	1741	0623	1814	0552	1845	1048	2333	28.7%
20240117	0725	1713	0656	1742	0623	1815	0551	1846	1113	----	39.5%
20240118	0725	1714	0655	1743	0623	1815	0551	1847	1140	0043	50.7%
20240119	0724	1715	0655	1744	0622	1816	0551	1848	1210	0153	61.6%
20240120	0724	1717	0654	1745	0622	1817	0551	1849	1245	0303	71.6%
20240121	0723	1718	0654	1746	0621	1818	0550	1850	1326	0411	80.5%
20240122	0722	1719	0653	1747	0621	1819	0550	1851	1415	0515	87.9%
20240123	0722	1720	0653	1749	0620	1820	0549	1852	1511	0612	93.7%
20240124	0721	1721	0652	1750	0620	1821	0549	1853	1612	0700	97.6%
20240125	0721	1722	0652	1751	0619	1822	0548	1854	1716	0740	99.5%
20240126	0720	1723	0651	1752	0619	1823	0548	1855	1818	0812	99.6%
20240127	0719	1724	0651	1753	0618	1825	0547	1856	1920	0839	97.9%
20240128	0718	1726	0650	1754	0618	1826	0547	1857	2019	0903	94.5%
20240129	0718	1727	0649	1755	0617	1827	0546	1858	2118	0924	89.5%
20240130	0717	1728	0648	1756	0616	1828	0545	1859	2215	0945	83.1%
20240131	0716	1729	0648	1757	0616	1829	0545	1900	2315	1004	75.5%

Key

.... means sun or moon below horizon all day or twilight never begins

\*\*\*\* means sun or moon above horizon all day or twilight never ends

---- in rise column means no rise that day and  
in set column - no set that day

R - Rise

S - Set

B - Beginning

E - Ending

C Twi - Civil Twilight: Sun is 6 deg below the horizon

N Twi - Nautical Twilight: Sun is 12 deg below the horizon

A Twi - Astonomical Twilight: Sun is 18 deg below the horizon

Moon Illumination is valid 00:01L for that day.