

Location:

Lat: 38.7151 N Long: 77.1811 W

Time from UTC: -5

Date	Sun		C Twi		N Twi		A Twi		Moon		Moon Illum
	R	S	B	E	B	E	B	E	R	S	
20240201	0715	1730	0647	1758	0615	1830	0544	1901	----	1026	67%
20240202	0714	1731	0646	1759	0614	1831	0543	1902	0015	1050	57.7%
20240203	0713	1733	0645	1800	0613	1832	0543	1903	0119	1119	47.8%
20240204	0712	1734	0644	1801	0612	1833	0542	1904	0226	1155	37.8%
20240205	0711	1735	0643	1802	0612	1834	0541	1905	0335	1240	27.9%
20240206	0710	1736	0642	1803	0611	1835	0540	1906	0441	1337	18.7%
20240207	0709	1737	0641	1805	0610	1836	0539	1907	0542	1446	10.7%
20240208	0708	1738	0640	1806	0609	1837	0538	1908	0633	1603	4.6%
20240209	0707	1739	0639	1807	0608	1838	0537	1909	0716	1723	1%
20240210	0706	1741	0638	1808	0607	1839	0536	1910	0751	1843	0.2%
20240211	0705	1742	0637	1809	0606	1840	0535	1911	0821	2000	2.5%
20240212	0704	1743	0636	1810	0605	1841	0534	1912	0848	2116	7.6%
20240213	0703	1744	0635	1811	0604	1842	0533	1913	0914	2229	15.1%
20240214	0701	1745	0634	1812	0603	1843	0532	1914	0941	2342	24.4%
20240215	0700	1746	0633	1813	0602	1844	0531	1915	1011	----	34.8%
20240216	0659	1747	0632	1814	0601	1845	0530	1917	1044	0054	45.7%
20240217	0658	1748	0630	1815	0600	1846	0529	1918	1125	0204	56.4%
20240218	0656	1750	0629	1816	0558	1847	0528	1919	1211	0310	66.5%
20240219	0655	1751	0628	1817	0557	1848	0527	1920	1305	0409	75.6%
20240220	0654	1752	0627	1818	0556	1849	0525	1921	1405	0459	83.6%
20240221	0653	1753	0625	1819	0555	1850	0524	1922	1507	0541	90.1%
20240222	0651	1754	0624	1820	0554	1852	0523	1923	1610	0615	95.1%
20240223	0650	1755	0623	1821	0552	1853	0522	1924	1712	0643	98.3%
20240224	0649	1756	0622	1823	0551	1854	0520	1925	1812	0708	99.8%
20240225	0647	1757	0620	1824	0550	1855	0519	1926	1911	0729	99.5%
20240226	0646	1758	0619	1825	0548	1856	0518	1927	2008	0750	97.5%
20240227	0644	1759	0617	1826	0547	1857	0516	1928	2107	0809	93.8%
20240228	0643	1800	0616	1827	0546	1858	0515	1929	2207	0830	88.5%
20240229	0641	1801	0615	1828	0544	1859	0514	1930	2309	0853	81.7%
20240301	0640	1802	0613	1829	0543	1900	0512	1931	----	0919	73.7%

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.