

Location: KDAA

Lat: 38.43 N Long: 77.11 W

Time from UTC: -5

Date	Sun		C Twi		N Twi		A Twi		Moon		Moon
	R	S	B	E	B	E	B	E	R	S	Illum
20250101	0726	1659	0656	1729	0623	1802	0551	1833	0906	1847	2%
20250102	0726	1700	0656	1729	0623	1802	0551	1834	0942	2000	6.1%
20250103	0726	1701	0656	1730	0623	1803	0551	1835	1012	2111	12.4%
20250104	0726	1701	0657	1731	0623	1804	0552	1836	1039	2221	20.6%
20250105	0726	1702	0657	1732	0623	1805	0552	1837	1104	2332	30.4%
20250106	0726	1703	0657	1733	0623	1805	0552	1837	1129	----	41.2%
20250107	0726	1704	0657	1734	0623	1806	0552	1838	1155	0042	52.6%
20250108	0726	1705	0657	1735	0623	1807	0552	1839	1225	0155	63.8%
20250109	0726	1706	0656	1736	0623	1808	0552	1840	1301	0310	74.3%
20250110	0726	1707	0656	1737	0623	1809	0552	1841	1345	0424	83.5%
20250111	0726	1708	0656	1737	0623	1810	0552	1842	1438	0536	91%
20250112	0725	1709	0656	1738	0623	1811	0552	1843	1541	0639	96.3%
20250113	0725	1710	0656	1739	0623	1812	0551	1843	1649	0732	99.2%
20250114	0725	1711	0655	1740	0623	1813	0551	1844	1759	0815	99.8%
20250115	0724	1712	0655	1741	0622	1813	0551	1845	1907	0849	98.1%
20250116	0724	1713	0655	1742	0622	1814	0551	1846	2012	0917	94.3%
20250117	0724	1714	0655	1743	0622	1815	0551	1847	2114	0941	88.9%
20250118	0723	1716	0654	1744	0622	1816	0550	1848	2213	1002	82.1%
20250119	0723	1717	0654	1745	0621	1817	0550	1849	2312	1022	74.1%
20250120	0722	1718	0653	1746	0621	1818	0550	1850	----	1043	65.5%
20250121	0722	1719	0653	1747	0620	1819	0549	1851	0010	1105	56.3%
20250122	0721	1720	0652	1749	0620	1820	0549	1852	0111	1130	46.9%
20250123	0720	1721	0652	1750	0619	1821	0548	1853	0212	1159	37.5%
20250124	0720	1722	0651	1751	0619	1822	0548	1854	0316	1235	28.4%
20250125	0719	1723	0651	1752	0618	1823	0547	1855	0419	1319	20%
20250126	0718	1725	0650	1753	0618	1824	0547	1856	0520	1413	12.6%
20250127	0718	1726	0649	1754	0617	1825	0546	1857	0614	1518	6.5%
20250128	0717	1727	0648	1755	0617	1826	0546	1858	0700	1628	2.3%
20250129	0716	1728	0648	1756	0616	1827	0545	1859	0740	1742	0.3%
20250130	0715	1729	0647	1757	0615	1828	0544	1900	0812	1856	0.7%
20250131	0714	1730	0646	1758	0614	1829	0544	1901	0841	2009	3.7%

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.