

Location: KDAA

Lat: 38.43 N Long: 77.11 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	
20251201	0707	1648	0638	1717	0605	1750	0533	1822	1412	0301	80.3%
20251202	0708	1648	0639	1717	0606	1750	0534	1822	1445	0416	88.8%
20251203	0709	1648	0639	1717	0607	1750	0535	1822	1525	0537	95.2%
20251204	0710	1647	0640	1717	0607	1750	0536	1822	1615	0657	98.9%
20251205	0711	1647	0641	1717	0608	1750	0537	1822	1718	0813	99.7%
20251206	0712	1647	0642	1717	0609	1750	0537	1822	1829	0919	97.5%
20251207	0713	1647	0643	1717	0610	1750	0538	1822	1946	1011	92.6%
20251208	0714	1647	0644	1717	0611	1750	0539	1822	2100	1052	85.5%
20251209	0714	1647	0645	1717	0611	1750	0540	1822	2210	1125	76.7%
20251210	0715	1648	0645	1718	0612	1751	0540	1822	2316	1151	67%
20251211	0716	1648	0646	1718	0613	1751	0541	1823	----	1214	56.8%
20251212	0717	1648	0647	1718	0614	1751	0542	1823	0018	1236	46.7%
20251213	0717	1648	0647	1718	0614	1751	0542	1823	0119	1257	37.1%
20251214	0718	1648	0648	1718	0615	1752	0543	1823	0218	1320	28.1%
20251215	0719	1649	0649	1719	0616	1752	0544	1824	0319	1344	20%
20251216	0720	1649	0650	1719	0616	1752	0544	1824	0419	1412	13%
20251217	0720	1649	0650	1719	0617	1753	0545	1825	0521	1446	7.4%
20251218	0721	1650	0651	1720	0617	1753	0546	1825	0621	1527	3.3%
20251219	0721	1650	0651	1720	0618	1754	0546	1825	0719	1614	0.9%
20251220	0722	1651	0652	1721	0618	1754	0547	1826	0810	1710	0.2%
20251221	0722	1651	0652	1721	0619	1754	0547	1826	0856	1811	1.4%
20251222	0723	1652	0653	1722	0619	1755	0548	1827	0934	1915	4.4%
20251223	0723	1652	0653	1722	0620	1755	0548	1827	1006	2020	9.2%
20251224	0724	1653	0654	1723	0620	1756	0548	1828	1034	2126	15.8%
20251225	0724	1653	0654	1724	0621	1757	0549	1829	1059	2230	23.9%
20251226	0725	1654	0655	1724	0621	1757	0549	1829	1123	2337	33.3%
20251227	0725	1655	0655	1725	0621	1758	0550	1830	1146	----	43.7%
20251228	0725	1656	0655	1726	0622	1759	0550	1830	1211	0044	54.7%
20251229	0725	1656	0655	1726	0622	1759	0550	1831	1240	0156	65.7%
20251230	0726	1657	0656	1727	0622	1800	0551	1832	1316	0311	76.2%
20251231	0726	1658	0656	1728	0623	1801	0551	1833	1359	0429	85.4%

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.