

Location: KDAA
 Lat: 38.43 N Long: 77.11 W
 Time from UTC: -4

Date	Sun		C Twi		N Twi		A Twi		Moon		Moon Illum
	R	S	B	E	B	E	B	E	R	S	
20250501	0611	2000	0543	2029	0508	2104	0431	2141	0904	0003	16.1%
20250502	0610	2001	0542	2030	0507	2105	0429	2143	1012	0102	25.3%
20250503	0609	2002	0540	2031	0505	2106	0428	2144	1122	0149	35.5%
20250504	0608	2003	0539	2032	0504	2107	0426	2145	1230	0225	45.9%
20250505	0606	2004	0538	2033	0503	2109	0424	2147	1336	0255	56.2%
20250506	0605	2005	0537	2034	0501	2110	0423	2148	1437	0320	65.9%
20250507	0604	2006	0536	2035	0500	2111	0421	2150	1537	0341	74.8%
20250508	0603	2007	0535	2036	0459	2112	0420	2151	1635	0402	82.6%
20250509	0602	2008	0533	2037	0457	2113	0418	2152	1734	0422	89.2%
20250510	0601	2009	0532	2038	0456	2114	0417	2154	1833	0443	94.3%
20250511	0600	2010	0531	2039	0455	2116	0416	2155	1934	0507	97.8%
20250512	0600	2011	0530	2040	0454	2117	0414	2156	2036	0534	99.6%
20250513	0559	2011	0529	2041	0453	2118	0413	2158	2138	0606	99.7%
20250514	0558	2012	0528	2042	0451	2119	0412	2159	2237	0645	97.9%
20250515	0557	2013	0527	2043	0450	2120	0410	2200	2332	0733	94.3%
20250516	0556	2014	0526	2044	0449	2121	0409	2202	----	0828	89%
20250517	0555	2015	0525	2045	0448	2122	0408	2203	0019	0930	82.1%
20250518	0554	2016	0525	2046	0447	2124	0406	2204	0100	1036	73.7%
20250519	0554	2017	0524	2047	0446	2125	0405	2205	0134	1145	64.2%
20250520	0553	2017	0523	2048	0445	2126	0404	2207	0204	1253	53.8%
20250521	0552	2018	0522	2049	0444	2127	0403	2208	0230	1403	42.9%
20250522	0552	2019	0521	2050	0443	2128	0402	2209	0255	1514	31.9%
20250523	0551	2020	0521	2051	0442	2129	0401	2210	0321	1627	21.7%
20250524	0550	2021	0520	2052	0442	2130	0400	2212	0348	1744	12.7%
20250525	0550	2022	0519	2052	0441	2131	0359	2213	0419	1904	5.8%
20250526	0549	2022	0519	2053	0440	2132	0358	2214	0458	2024	1.5%
20250527	0549	2023	0518	2054	0439	2133	0357	2215	0546	2140	0.2%
20250528	0548	2024	0517	2055	0439	2134	0356	2216	0644	2246	1.8%
20250529	0548	2025	0517	2056	0438	2135	0355	2217	0751	2340	6.2%
20250530	0547	2025	0516	2057	0437	2136	0354	2219	0903	----	12.8%
20250531	0547	2026	0516	2057	0437	2136	0354	2220	1015	0021	21.1%

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.