

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	
20250701	0549	2036	0517	2108	0437	2148	0352	2232	1217	0009	34.4%
20250702	0549	2036	0518	2108	0438	2147	0353	2232	1317	0029	43.9%
20250703	0550	2036	0518	2108	0438	2147	0354	2231	1416	0050	53.5%
20250704	0550	2036	0519	2107	0439	2147	0354	2231	1516	0113	62.9%
20250705	0551	2035	0519	2107	0440	2146	0355	2231	1617	0138	71.7%
20250706	0551	2035	0520	2107	0440	2146	0356	2230	1720	0206	79.8%
20250707	0552	2035	0521	2106	0441	2146	0357	2229	1821	0241	86.9%
20250708	0552	2035	0521	2106	0442	2145	0358	2229	1920	0323	92.6%
20250709	0553	2034	0522	2106	0443	2145	0359	2228	2012	0414	96.9%
20250710	0554	2034	0523	2105	0443	2144	0400	2227	2058	0513	99.3%
20250711	0554	2033	0523	2105	0444	2144	0401	2227	2137	0618	99.8%
20250712	0555	2033	0524	2104	0445	2143	0402	2226	2209	0728	98.1%
20250713	0556	2032	0525	2104	0446	2142	0403	2225	2237	0837	94.1%
20250714	0556	2032	0526	2103	0447	2142	0404	2224	2303	0946	88.1%
20250715	0557	2031	0526	2102	0448	2141	0405	2223	2327	1055	80.2%
20250716	0558	2031	0527	2102	0449	2140	0406	2222	2352	1204	70.6%
20250717	0559	2030	0528	2101	0450	2139	0407	2221	----	1314	59.9%
20250718	0559	2030	0529	2100	0451	2138	0408	2220	0018	1427	48.5%
20250719	0600	2029	0530	2100	0452	2138	0409	2219	0050	1543	37.2%
20250720	0601	2028	0531	2059	0453	2137	0411	2218	0128	1658	26.4%
20250721	0602	2028	0531	2058	0454	2136	0412	2217	0214	1810	16.9%
20250722	0602	2027	0532	2057	0455	2135	0413	2216	0312	1913	9.1%
20250723	0603	2026	0533	2056	0456	2134	0414	2214	0419	2005	3.6%
20250724	0604	2025	0534	2056	0457	2133	0416	2213	0532	2046	0.6%
20250725	0605	2024	0535	2055	0458	2132	0417	2212	0644	2120	0.3%
20250726	0606	2024	0536	2054	0459	2131	0418	2211	0754	2147	2.3%
20250727	0606	2023	0537	2053	0500	2130	0419	2209	0900	2210	6.5%
20250728	0607	2022	0538	2052	0501	2128	0421	2208	1003	2232	12.5%
20250729	0608	2021	0539	2051	0502	2127	0422	2207	1104	2253	19.9%
20250730	0609	2020	0540	2050	0503	2126	0423	2205	1204	2315	28.3%
20250731	0610	2019	0541	2049	0504	2125	0425	2204	1304	2339	37.4%

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.