

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	
20250901	0638	1938	0611	2005	0539	2037	0505	2110	1554	----	58.8%
20250902	0639	1937	0612	2003	0540	2035	0507	2109	1644	0046	68.2%
20250903	0640	1935	0613	2002	0541	2033	0508	2107	1729	0146	77.1%
20250904	0641	1934	0614	2000	0542	2032	0509	2105	1806	0252	85.1%
20250905	0641	1932	0614	1959	0543	2030	0510	2103	1838	0402	91.8%
20250906	0642	1930	0615	1957	0544	2028	0511	2101	1906	0513	96.7%
20250907	0643	1929	0616	1955	0545	2027	0512	2100	1932	0624	99.5%
20250908	0644	1927	0617	1954	0546	2025	0513	2058	1958	0737	99.8%
20250909	0645	1926	0618	1952	0547	2023	0514	2056	2024	0849	97.3%
20250910	0646	1924	0619	1951	0548	2022	0515	2054	2053	1004	92.2%
20250911	0647	1923	0620	1949	0549	2020	0517	2052	2127	1121	84.7%
20250912	0648	1921	0621	1948	0550	2018	0518	2051	2208	1237	75.2%
20250913	0648	1919	0622	1946	0551	2017	0519	2049	2259	1352	64.5%
20250914	0649	1918	0623	1944	0552	2015	0520	2047	2359	1500	53.2%
20250915	0650	1916	0623	1943	0553	2014	0521	2045	----	1557	42%
20250916	0651	1915	0624	1941	0554	2012	0522	2044	0106	1643	31.3%
20250917	0652	1913	0625	1940	0555	2010	0523	2042	0216	1721	21.7%
20250918	0653	1911	0626	1938	0555	2009	0524	2040	0326	1751	13.6%
20250919	0654	1910	0627	1936	0556	2007	0525	2038	0433	1816	7.2%
20250920	0655	1908	0628	1935	0557	2005	0526	2037	0538	1839	2.8%
20250921	0656	1907	0629	1933	0558	2004	0527	2035	0639	1900	0.4%
20250922	0656	1905	0630	1932	0559	2002	0528	2033	0741	1921	0.1%
20250923	0657	1903	0631	1930	0600	2001	0529	2032	0840	1943	1.8%
20250924	0658	1902	0632	1928	0601	1959	0530	2030	0942	2007	5.2%
20250925	0659	1900	0632	1927	0602	1957	0531	2028	1043	2035	10.3%
20250926	0700	1859	0633	1925	0603	1956	0532	2027	1145	2109	16.8%
20250927	0701	1857	0634	1924	0604	1954	0533	2025	1245	2148	24.4%
20250928	0702	1855	0635	1922	0605	1953	0534	2023	1343	2236	33%
20250929	0703	1854	0636	1920	0605	1951	0535	2022	1436	2332	42.3%
20250930	0704	1852	0637	1919	0606	1950	0536	2020	1522	----	52%

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.