

# SUNSET TO MIDNIGHT MINUTE AND DECIMAL PER DAY



1	1	.0007	61	.0423	121	.0840	181	.1256	241	.1673	301	.2090	1
2	2	.0013	62	.0430	122	.0847	182	.1263	242	.1680	302	.2097	2
3	3	.0020	63	.0437	123	.0854	183	.1270	243	.1687	303	.2104	3
4	4	.0027	64	.0444	124	.0861	184	.1277	244	.1694	304	.2111	4
5	5	.0034	65	.0451	125	.0868	185	.1284	245	.1701	305	.2118	5
6	6	.0041	66	.0458	126	.0874	186	.1291	246	.1708	306	.2124	6
7	7	.0048	67	.0465	127	.0881	187	.1298	247	.1715	307	.2131	7
8	8	.0055	68	.0472	128	.0888	188	.1305	248	.1722	308	.2138	8
9	9	.0062	69	.0479	129	.0895	189	.1312	249	.1729	309	.2145	9
10	10	.0069	70	.0486	130	.0902	190	.1319	250	.1736	310	.2152	10
11	11	.0076	71	.0493	131	.0909	191	.1326	251	.1743	311	.2159	11
12	12	.0083	72	.0499	132	.0916	192	.1333	252	.1749	312	.2166	12
13	13	.0090	73	.0506	133	.0923	193	.1340	253	.1756	313	.2173	13
14	14	.0097	74	.0513	134	.0930	194	.1347	254	.1763	314	.2180	14
15	15	0:15 .0104	75	1:15 .0520	135	2:15 .0937	195	3:15 .1354	255	4:15 .1770	315	5:15 .2187	15
16	16	.0111	76	.0527	136	.0944	196	.1361	256	.1777	316	.2194	16
17	17	.0118	77	.0534	137	.0951	197	.1368	257	.1784	317	.2201	17
18	18	.0125	78	.0541	138	.0958	198	.1374	258	.1791	318	.2208	18
19	19	.0131	79	.0548	139	.0965	199	.1381	259	.1798	319	.2215	19
20	20	.0138	80	.0555	140	.0972	200	.1388	260	.1805	320	.2222	20
21	21	.0145	81	.0562	141	.0979	201	.1395	261	.1812	321	.2229	21
22	22	.0152	82	.0569	142	.0986	202	.1407	262	.1819	322	.2236	22
23	23	.0159	83	.0576	143	.0993	203	.1407	263	.1826	323	.2243	23
24	24	<sup>82.0164</sup> .0166	84	.0583	144	.0999	204	.1416	264	.1833	324	.2249	24
25	25	.0173	85	.0590	145	.1006	205	.1423	265	.1840	325	.2256	25
26	26	.0180	86	.0597	146	.1013	206	.1430	266	.1847	326	.2263	26
27	27	.0187	87	.0604	147	.1020	207	.1437	267	.1854	327	.2270	27
28	28	.0194	88	.0611	148	.1027	208	.1444	268	.1861	328	.2277	28
29	29	.0201	89	.0618	149	.1034	209	.1451	269	.1868	329	.2284	29
30	30	0:30 .0208	90	1:30 .0624	150	2:30 .1041	210	3:30 .1458	270	4:30 .1874	330	5:30 .2291	30
31	31	.0215	91	.0631	151	.1048	211	.1465	271	.1881	331	.2298	31
32	32	.0222	92	.0638	152	.1055	212	.1472	272	.1888	332	.2305	32
33	33	.0229	93	.0645	153	.1062	213	.1479	273	.1895	333	.2312	33
34	34	.0236	94	.0652	154	.1069	214	.1486	274	.1902	334	.2319	34
35	35	.0243	95	.0659	155	.1076	215	.1493	275	.1909	335	.2326	35
36	36	.025	96	.0666	156	.1083	216	.1499	276	.1916	336	.2333	36
37	37	.0256	97	.0673	157	.1090	217	.1506	277	.1923	337	.2340	37
38	38	.0263	98	.0680	158	.1097	218	.1513	278	.1930	338	.2347	38
39	39	.0270	99	.0687	159	.1104	219	.1520	279	.1937	339	.2354	39
40	40	.0277	100	.0694	160	.1111	220	.1527	280	.1944	340	.2361	40
41	41	.0284	101	.0701	161	.1118	221	.1534	281	.1951	341	.2368	41
42	42	.0291	102	.0708	162	.1124	222	.1541	282	.1958	342	.2374	42
43	43	.0298	103	.0715	163	.1131	223	.1548	283	.1965	343	.2381	43
44	44	.0305	104	.0722	164	.1138	224	.1555	284	.1972	344	.2388	44
45	45	0:45 .03125	105	1:45 .0729	165	2:45 .1145	225	3:45 .1562	285	4:45 .1979	345	5:45 .2395	45
46	46	.0319	106	.0736	166	.1152	226	.1569	286	.1986	346	.2402	46
47	47	.0326	107	.0743	167	.1159	227	.1576	287	.1993	347	.2409	47
48	48	.0333	108	.0749	168	.1166	228	.1583	288	.1999	348	.2416	48
49	49	.0340	109	.0756	169	.1173	229	.1590	289	.2006	349	<sup>2422</sup> .2423	49
50	50	.0347	110	.0763	170	.1180	230	.1597	290	.2013	350	.2430	50
51	51	.0541	111	.0770	171	.1187	231	.1604	291	.2020	351	.2437	51
52	52	.0361	112	.0777	172	.1194	232	.1611	292	.2027	352	.2444	52
53	53	.0368	113	.0784	173	.1201	233	.1618	293	.2034	353	.2451	53
54	54	.0375	114	.0791	174	.1208	234	.1624	294	.2041	354	.2458	54
55	55	.0381	115	.0798	175	.1215	235	.1631	295	.2048	355	.2465	55
56	56	.0388	116	.0805	176	.1222	236	.1638	296	.2055	356	.2472	56
57	57	.0395	117	.0812	177	.1229	237	.1645	297	.2062	357	.2479	57
58	58	.0402	118	.0819	178	.1236	238	.1652	298	.2069	358	.2486	58
59	59	.0409	119	.0826	179	.1243	239	.1659	299	.2076	359	.2493	59
60	60	1:00 .0416	120	2:00 .0833	180	3:00 .1249	240	4:00 .1666	300	5:00 .2083	360	6:00 .2499	60

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