

Sun

Khon Kaen

Location: E102°48'32.3", N16°23'06.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Begin Nautical Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Nautical Twilight
			h m	h m	°	h m °	h m °		h m
2024	Jan	01 (Mon)	05:47	06:37	114	12:12 51S	17:47	246	18:37
2024	Jan	02 (Tue)	05:47	06:37	114	12:12 51S	17:48	246	18:38
2024	Jan	03 (Wed)	05:47	06:38	114	12:13 51S	17:48	246	18:39
2024	Jan	04 (Thu)	05:48	06:38	114	12:13 52S	17:49	246	18:39
2024	Jan	05 (Fri)	05:48	06:38	113	12:14 52S	17:50	247	18:40
2024	Jan	06 (Sat)	05:48	06:38	113	12:14 52S	17:50	247	18:40
2024	Jan	07 (Sun)	05:49	06:39	113	12:15 52S	17:51	247	18:41
2024	Jan	08 (Mon)	05:49	06:39	113	12:15 52S	17:51	247	18:41
2024	Jan	09 (Tue)	05:49	06:39	113	12:16 52S	17:52	247	18:42
2024	Jan	10 (Wed)	05:50	06:39	113	12:16 52S	17:53	247	18:42
2024	Jan	11 (Thu)	05:50	06:40	113	12:16 52S	17:53	247	18:43
2024	Jan	12 (Fri)	05:50	06:40	112	12:17 53S	17:54	248	18:44
2024	Jan	13 (Sat)	05:50	06:40	112	12:17 53S	17:54	248	18:44
2024	Jan	14 (Sun)	05:50	06:40	112	12:18 53S	17:55	248	18:45
2024	Jan	15 (Mon)	05:51	06:40	112	12:18 53S	17:56	248	18:45
2024	Jan	16 (Tue)	05:51	06:40	112	12:18 53S	17:56	248	18:46
2024	Jan	17 (Wed)	05:51	06:41	112	12:19 53S	17:57	249	18:46
2024	Jan	18 (Thu)	05:51	06:41	111	12:19 54S	17:57	249	18:47
2024	Jan	19 (Fri)	05:51	06:41	111	12:19 54S	17:58	249	18:47
2024	Jan	20 (Sat)	05:51	06:41	111	12:20 54S	17:59	249	18:48
2024	Jan	21 (Sun)	05:51	06:41	111	12:20 54S	17:59	249	18:48
2024	Jan	22 (Mon)	05:52	06:41	110	12:20 55S	18:00	250	18:49
2024	Jan	23 (Tue)	05:52	06:41	110	12:20 55S	18:00	250	18:49
2024	Jan	24 (Wed)	05:52	06:41	110	12:21 55S	18:01	250	18:50
2024	Jan	25 (Thu)	05:52	06:41	110	12:21 55S	18:01	250	18:50
2024	Jan	26 (Fri)	05:52	06:40	109	12:21 55S	18:02	251	18:51
2024	Jan	27 (Sat)	05:52	06:40	109	12:21 56S	18:02	251	18:51
2024	Jan	28 (Sun)	05:51	06:40	109	12:22 56S	18:03	251	18:52
2024	Jan	29 (Mon)	05:51	06:40	109	12:22 56S	18:04	251	18:52
2024	Jan	30 (Tue)	05:51	06:40	108	12:22 57S	18:04	252	18:53
2024	Jan	31 (Wed)	05:51	06:40	108	12:22 57S	18:05	252	18:53
2024	Feb	01 (Thu)	05:51	06:40	108	12:22 57S	18:05	252	18:54
2024	Feb	02 (Fri)	05:51	06:39	108	12:22 57S	18:06	253	18:54
2024	Feb	03 (Sat)	05:51	06:39	107	12:22 58S	18:06	253	18:54
2024	Feb	04 (Sun)	05:51	06:39	107	12:23 58S	18:06	253	18:55
2024	Feb	05 (Mon)	05:50	06:39	107	12:23 58S	18:07	254	18:55
2024	Feb	06 (Tue)	05:50	06:38	106	12:23 59S	18:07	254	18:56
2024	Feb	07 (Wed)	05:50	06:38	106	12:23 59S	18:08	254	18:56
2024	Feb	08 (Thu)	05:50	06:38	106	12:23 59S	18:08	255	18:56
2024	Feb	09 (Fri)	05:49	06:37	105	12:23 59S	18:09	255	18:57
2024	Feb	10 (Sat)	05:49	06:37	105	12:23 60S	18:09	255	18:57
2024	Feb	11 (Sun)	05:49	06:37	105	12:23 60S	18:10	256	18:57
2024	Feb	12 (Mon)	05:48	06:36	104	12:23 60S	18:10	256	18:58
2024	Feb	13 (Tue)	05:48	06:36	104	12:23 61S	18:10	256	18:58
2024	Feb	14 (Wed)	05:48	06:35	104	12:23 61S	18:11	257	18:58
2024	Feb	15 (Thu)	05:47	06:35	103	12:23 61S	18:11	257	18:59
2024	Feb	16 (Fri)	05:47	06:34	103	12:23 62S	18:12	257	18:59
2024	Feb	17 (Sat)	05:46	06:34	103	12:23 62S	18:12	258	18:59
2024	Feb	18 (Sun)	05:46	06:33	102	12:23 63S	18:12	258	19:00
2024	Feb	19 (Mon)	05:46	06:33	102	12:23 63S	18:13	258	19:00
2024	Feb	20 (Tue)	05:45	06:32	101	12:23 63S	18:13	259	19:00
2024	Feb	21 (Wed)	05:45	06:32	101	12:22 64S	18:13	259	19:00
2024	Feb	22 (Thu)	05:44	06:31	101	12:22 64S	18:14	260	19:01
2024	Feb	23 (Fri)	05:44	06:31	100	12:22 64S	18:14	260	19:01
2024	Feb	24 (Sat)	05:43	06:30	100	12:22 65S	18:14	260	19:01
2024	Feb	25 (Sun)	05:43	06:30	100	12:22 65S	18:14	261	19:01
2024	Feb	26 (Mon)	05:42	06:29	99	12:22 65S	18:15	261	19:02
2024	Feb	27 (Tue)	05:41	06:28	99	12:22 66S	18:15	261	19:02
2024	Feb	28 (Wed)	05:41	06:28	98	12:21 66S	18:15	262	19:02
2024	Feb	29 (Thu)	05:40	06:27	98	12:21 67S	18:16	262	19:02

2024	Mar	01	(Fri)	05:40	06:26	98	12:21	67S	18:16	263	19:03
2024	Mar	02	(Sat)	05:39	06:26	97	12:21	67S	18:16	263	19:03
2024	Mar	03	(Sun)	05:38	06:25	97	12:21	68S	18:16	263	19:03
2024	Mar	04	(Mon)	05:38	06:24	96	12:20	68S	18:17	264	19:03
2024	Mar	05	(Tue)	05:37	06:24	96	12:20	68S	18:17	264	19:03
2024	Mar	06	(Wed)	05:36	06:23	96	12:20	69S	18:17	265	19:04
2024	Mar	07	(Thu)	05:36	06:22	95	12:20	69S	18:17	265	19:04
2024	Mar	08	(Fri)	05:35	06:22	95	12:19	70S	18:17	265	19:04
2024	Mar	09	(Sat)	05:34	06:21	94	12:19	70S	18:18	266	19:04
2024	Mar	10	(Sun)	05:34	06:20	94	12:19	70S	18:18	266	19:04
2024	Mar	11	(Mon)	05:33	06:20	94	12:19	71S	18:18	267	19:05
2024	Mar	12	(Tue)	05:32	06:19	93	12:18	71S	18:18	267	19:05
2024	Mar	13	(Wed)	05:32	06:18	93	12:18	72S	18:18	268	19:05
2024	Mar	14	(Thu)	05:31	06:17	92	12:18	72S	18:19	268	19:05
2024	Mar	15	(Fri)	05:30	06:17	92	12:18	72S	18:19	268	19:05
2024	Mar	16	(Sat)	05:29	06:16	91	12:17	73S	18:19	269	19:06
2024	Mar	17	(Sun)	05:29	06:15	91	12:17	73S	18:19	269	19:06
2024	Mar	18	(Mon)	05:28	06:14	91	12:17	74S	18:19	270	19:06
2024	Mar	19	(Tue)	05:27	06:14	90	12:16	74S	18:20	270	19:06
2024	Mar	20	(Wed)	05:26	06:13	90	12:16	74S	18:20	270	19:06
2024	Mar	21	(Thu)	05:26	06:12	89	12:16	75S	18:20	271	19:06
2024	Mar	22	(Fri)	05:25	06:11	89	12:16	75S	18:20	271	19:07
2024	Mar	23	(Sat)	05:24	06:11	89	12:15	76S	18:20	272	19:07
2024	Mar	24	(Sun)	05:23	06:10	88	12:15	76S	18:20	272	19:07
2024	Mar	25	(Mon)	05:22	06:09	88	12:15	76S	18:21	272	19:07
2024	Mar	26	(Tue)	05:22	06:08	87	12:14	77S	18:21	273	19:07
2024	Mar	27	(Wed)	05:21	06:07	87	12:14	77S	18:21	273	19:08
2024	Mar	28	(Thu)	05:20	06:07	87	12:14	78S	18:21	274	19:08
2024	Mar	29	(Fri)	05:19	06:06	86	12:13	78S	18:21	274	19:08
2024	Mar	30	(Sat)	05:18	06:05	86	12:13	78S	18:21	274	19:08
2024	Mar	31	(Sun)	05:18	06:04	85	12:13	79S	18:21	275	19:08
2024	Apr	01	(Mon)	05:17	06:04	85	12:13	79S	18:22	275	19:09
2024	Apr	02	(Tue)	05:16	06:03	85	12:12	79S	18:22	276	19:09
2024	Apr	03	(Wed)	05:15	06:02	84	12:12	80S	18:22	276	19:09
2024	Apr	04	(Thu)	05:14	06:01	84	12:12	80S	18:22	276	19:09
2024	Apr	05	(Fri)	05:14	06:01	83	12:11	81S	18:22	277	19:09
2024	Apr	06	(Sat)	05:13	06:00	83	12:11	81S	18:22	277	19:10
2024	Apr	07	(Sun)	05:12	05:59	83	12:11	81S	18:23	278	19:10
2024	Apr	08	(Mon)	05:11	05:59	82	12:11	82S	18:23	278	19:10
2024	Apr	09	(Tue)	05:11	05:58	82	12:10	82S	18:23	278	19:10
2024	Apr	10	(Wed)	05:10	05:57	81	12:10	82S	18:23	279	19:11
2024	Apr	11	(Thu)	05:09	05:56	81	12:10	83S	18:23	279	19:11
2024	Apr	12	(Fri)	05:08	05:56	81	12:09	83S	18:24	280	19:11
2024	Apr	13	(Sat)	05:07	05:55	80	12:09	84S	18:24	280	19:11
2024	Apr	14	(Sun)	05:07	05:54	80	12:09	84S	18:24	280	19:12
2024	Apr	15	(Mon)	05:06	05:54	79	12:09	84S	18:24	281	19:12
2024	Apr	16	(Tue)	05:05	05:53	79	12:09	85S	18:24	281	19:12
2024	Apr	17	(Wed)	05:04	05:52	79	12:08	85S	18:25	281	19:12
2024	Apr	18	(Thu)	05:04	05:52	78	12:08	85S	18:25	282	19:13
2024	Apr	19	(Fri)	05:03	05:51	78	12:08	86S	18:25	282	19:13
2024	Apr	20	(Sat)	05:02	05:50	78	12:08	86S	18:25	283	19:13
2024	Apr	21	(Sun)	05:02	05:50	77	12:07	86S	18:25	283	19:14
2024	Apr	22	(Mon)	05:01	05:49	77	12:07	87S	18:26	283	19:14
2024	Apr	23	(Tue)	05:00	05:48	77	12:07	87S	18:26	284	19:14
2024	Apr	24	(Wed)	05:00	05:48	76	12:07	87S	18:26	284	19:14
2024	Apr	25	(Thu)	04:59	05:47	76	12:07	88S	18:26	284	19:15
2024	Apr	26	(Fri)	04:58	05:47	76	12:07	88S	18:27	285	19:15
2024	Apr	27	(Sat)	04:58	05:46	75	12:06	88S	18:27	285	19:15
2024	Apr	28	(Sun)	04:57	05:46	75	12:06	89S	18:27	285	19:16
2024	Apr	29	(Mon)	04:56	05:45	75	12:06	89S	18:27	286	19:16
2024	Apr	30	(Tue)	04:56	05:45	74	12:06	89S	18:28	286	19:17
2024	May	01	(Wed)	04:55	05:44	74	12:06	90S	18:28	286	19:17
2024	May	02	(Thu)	04:54	05:44	74	12:06	90S	18:28	287	19:17
2024	May	03	(Fri)	04:54	05:43	73	12:06	90S	18:28	287	19:18
2024	May	04	(Sat)	04:53	05:43	73	12:06	90S	18:29	287	19:18
2024	May	05	(Sun)	04:53	05:42	73	12:05	91N	18:29	287	19:18
2024	May	06	(Mon)	04:52	05:42	72	12:05	90N	18:29	288	19:19
2024	May	07	(Tue)	04:52	05:41	72	12:05	90N	18:30	288	19:19
2024	May	08	(Wed)	04:51	05:41	72	12:05	90N	18:30	288	19:20
2024	May	09	(Thu)	04:51	05:40	72	12:05	90N	18:30	289	19:20
2024	May	10	(Fri)	04:50	05:40	71	12:05	89N	18:31	289	19:20
2024	May	11	(Sat)	04:50	05:40	71	12:05	89N	18:31	289	19:21

2024	May	12	(Sun)	04:49	05:39	71	12:05	89N	18:31	289	19:21
2024	May	13	(Mon)	04:49	05:39	70	12:05	89N	18:31	290	19:22
2024	May	14	(Tue)	04:49	05:39	70	12:05	88N	18:32	290	19:22
2024	May	15	(Wed)	04:48	05:38	70	12:05	88N	18:32	290	19:22
2024	May	16	(Thu)	04:48	05:38	70	12:05	88N	18:32	290	19:23
2024	May	17	(Fri)	04:47	05:38	70	12:05	88N	18:33	291	19:23
2024	May	18	(Sat)	04:47	05:37	69	12:05	87N	18:33	291	19:24
2024	May	19	(Sun)	04:47	05:37	69	12:05	87N	18:33	291	19:24
2024	May	20	(Mon)	04:46	05:37	69	12:05	87N	18:34	291	19:25
2024	May	21	(Tue)	04:46	05:37	69	12:05	87N	18:34	292	19:25
2024	May	22	(Wed)	04:46	05:37	68	12:05	87N	18:34	292	19:25
2024	May	23	(Thu)	04:46	05:36	68	12:06	86N	18:35	292	19:26
2024	May	24	(Fri)	04:45	05:36	68	12:06	86N	18:35	292	19:26
2024	May	25	(Sat)	04:45	05:36	68	12:06	86N	18:36	292	19:27
2024	May	26	(Sun)	04:45	05:36	68	12:06	86N	18:36	292	19:27
2024	May	27	(Mon)	04:45	05:36	67	12:06	86N	18:36	293	19:27
2024	May	28	(Tue)	04:44	05:36	67	12:06	86N	18:37	293	19:28
2024	May	29	(Wed)	04:44	05:36	67	12:06	85N	18:37	293	19:28
2024	May	30	(Thu)	04:44	05:36	67	12:06	85N	18:37	293	19:29
2024	May	31	(Fri)	04:44	05:35	67	12:06	85N	18:38	293	19:29
2024	Jun	01	(Sat)	04:44	05:35	67	12:07	85N	18:38	293	19:30
2024	Jun	02	(Sun)	04:44	05:35	67	12:07	85N	18:38	294	19:30
2024	Jun	03	(Mon)	04:44	05:35	66	12:07	85N	18:39	294	19:30
2024	Jun	04	(Tue)	04:44	05:35	66	12:07	85N	18:39	294	19:31
2024	Jun	05	(Wed)	04:44	05:35	66	12:07	84N	18:39	294	19:31
2024	Jun	06	(Thu)	04:44	05:35	66	12:08	84N	18:40	294	19:32
2024	Jun	07	(Fri)	04:44	05:36	66	12:08	84N	18:40	294	19:32
2024	Jun	08	(Sat)	04:44	05:36	66	12:08	84N	18:40	294	19:32
2024	Jun	09	(Sun)	04:44	05:36	66	12:08	84N	18:41	294	19:33
2024	Jun	10	(Mon)	04:44	05:36	66	12:08	84N	18:41	294	19:33
2024	Jun	11	(Tue)	04:44	05:36	66	12:08	84N	18:41	294	19:33
2024	Jun	12	(Wed)	04:44	05:36	66	12:09	84N	18:41	295	19:34
2024	Jun	13	(Thu)	04:44	05:36	65	12:09	84N	18:42	295	19:34
2024	Jun	14	(Fri)	04:44	05:36	65	12:09	84N	18:42	295	19:34
2024	Jun	15	(Sat)	04:44	05:36	65	12:09	84N	18:42	295	19:35
2024	Jun	16	(Sun)	04:44	05:37	65	12:10	84N	18:43	295	19:35
2024	Jun	17	(Mon)	04:45	05:37	65	12:10	84N	18:43	295	19:35
2024	Jun	18	(Tue)	04:45	05:37	65	12:10	84N	18:43	295	19:35
2024	Jun	19	(Wed)	04:45	05:37	65	12:10	84N	18:43	295	19:36
2024	Jun	20	(Thu)	04:45	05:37	65	12:10	84N	18:44	295	19:36
2024	Jun	21	(Fri)	04:45	05:37	65	12:11	84N	18:44	295	19:36
2024	Jun	22	(Sat)	04:46	05:38	65	12:11	84N	18:44	295	19:36
2024	Jun	23	(Sun)	04:46	05:38	65	12:11	84N	18:44	295	19:36
2024	Jun	24	(Mon)	04:46	05:38	65	12:11	84N	18:44	295	19:37
2024	Jun	25	(Tue)	04:46	05:38	65	12:11	84N	18:45	295	19:37
2024	Jun	26	(Wed)	04:47	05:39	65	12:12	84N	18:45	295	19:37
2024	Jun	27	(Thu)	04:47	05:39	65	12:12	84N	18:45	295	19:37
2024	Jun	28	(Fri)	04:47	05:39	65	12:12	84N	18:45	295	19:37
2024	Jun	29	(Sat)	04:47	05:40	65	12:12	84N	18:45	294	19:37
2024	Jun	30	(Sun)	04:48	05:40	66	12:13	84N	18:45	294	19:37
2024	Jul	01	(Mon)	04:48	05:40	66	12:13	84N	18:45	294	19:37
2024	Jul	02	(Tue)	04:48	05:40	66	12:13	84N	18:45	294	19:37
2024	Jul	03	(Wed)	04:49	05:41	66	12:13	84N	18:45	294	19:37
2024	Jul	04	(Thu)	04:49	05:41	66	12:13	84N	18:45	294	19:37
2024	Jul	05	(Fri)	04:49	05:41	66	12:13	84N	18:46	294	19:37
2024	Jul	06	(Sat)	04:50	05:42	66	12:14	84N	18:46	294	19:37
2024	Jul	07	(Sun)	04:50	05:42	66	12:14	85N	18:46	294	19:37
2024	Jul	08	(Mon)	04:50	05:42	66	12:14	85N	18:46	294	19:37
2024	Jul	09	(Tue)	04:51	05:43	66	12:14	85N	18:46	294	19:37
2024	Jul	10	(Wed)	04:51	05:43	67	12:14	85N	18:45	293	19:37
2024	Jul	11	(Thu)	04:52	05:43	67	12:14	85N	18:45	293	19:37
2024	Jul	12	(Fri)	04:52	05:44	67	12:14	85N	18:45	293	19:37
2024	Jul	13	(Sat)	04:52	05:44	67	12:15	85N	18:45	293	19:37
2024	Jul	14	(Sun)	04:53	05:44	67	12:15	85N	18:45	293	19:36
2024	Jul	15	(Mon)	04:53	05:44	67	12:15	86N	18:45	293	19:36
2024	Jul	16	(Tue)	04:54	05:45	67	12:15	86N	18:45	292	19:36
2024	Jul	17	(Wed)	04:54	05:45	68	12:15	86N	18:45	292	19:36
2024	Jul	18	(Thu)	04:54	05:45	68	12:15	86N	18:45	292	19:36
2024	Jul	19	(Fri)	04:55	05:46	68	12:15	86N	18:44	292	19:35
2024	Jul	20	(Sat)	04:55	05:46	68	12:15	87N	18:44	292	19:35
2024	Jul	21	(Sun)	04:56	05:46	68	12:15	87N	18:44	291	19:35
2024	Jul	22	(Mon)	04:56	05:47	69	12:15	87N	18:44	291	19:34

2024	Jul	23	(Tue)	04:56	05:47	69	12:15	87N	18:43	291	19:34
2024	Jul	24	(Wed)	04:57	05:47	69	12:15	87N	18:43	291	19:34
2024	Jul	25	(Thu)	04:57	05:48	69	12:15	88N	18:43	291	19:33
2024	Jul	26	(Fri)	04:57	05:48	70	12:15	88N	18:43	290	19:33
2024	Jul	27	(Sat)	04:58	05:48	70	12:15	88N	18:42	290	19:33
2024	Jul	28	(Sun)	04:58	05:48	70	12:15	88N	18:42	290	19:32
2024	Jul	29	(Mon)	04:59	05:49	70	12:15	88N	18:42	290	19:32
2024	Jul	30	(Tue)	04:59	05:49	70	12:15	89N	18:41	289	19:31
2024	Jul	31	(Wed)	04:59	05:49	71	12:15	89N	18:41	289	19:31
2024	Aug	01	(Thu)	05:00	05:50	71	12:15	89N	18:40	289	19:30
2024	Aug	02	(Fri)	05:00	05:50	71	12:15	89N	18:40	289	19:30
2024	Aug	03	(Sat)	05:00	05:50	72	12:15	90N	18:40	288	19:29
2024	Aug	04	(Sun)	05:01	05:50	72	12:15	90N	18:39	288	19:29
2024	Aug	05	(Mon)	05:01	05:51	72	12:15	90N	18:39	288	19:28
2024	Aug	06	(Tue)	05:01	05:51	72	12:15	91N	18:38	287	19:28
2024	Aug	07	(Wed)	05:02	05:51	73	12:15	91S	18:38	287	19:27
2024	Aug	08	(Thu)	05:02	05:51	73	12:14	90S	18:37	287	19:26
2024	Aug	09	(Fri)	05:02	05:52	73	12:14	90S	18:37	287	19:26
2024	Aug	10	(Sat)	05:03	05:52	74	12:14	90S	18:36	286	19:25
2024	Aug	11	(Sun)	05:03	05:52	74	12:14	89S	18:36	286	19:25
2024	Aug	12	(Mon)	05:03	05:52	74	12:14	89S	18:35	286	19:24
2024	Aug	13	(Tue)	05:04	05:53	75	12:14	89S	18:34	285	19:23
2024	Aug	14	(Wed)	05:04	05:53	75	12:13	89S	18:34	285	19:23
2024	Aug	15	(Thu)	05:04	05:53	75	12:13	88S	18:33	285	19:22
2024	Aug	16	(Fri)	05:05	05:53	76	12:13	88S	18:33	284	19:21
2024	Aug	17	(Sat)	05:05	05:53	76	12:13	88S	18:32	284	19:20
2024	Aug	18	(Sun)	05:05	05:54	76	12:13	87S	18:31	284	19:20
2024	Aug	19	(Mon)	05:05	05:54	77	12:12	87S	18:31	283	19:19
2024	Aug	20	(Tue)	05:06	05:54	77	12:12	87S	18:30	283	19:18
2024	Aug	21	(Wed)	05:06	05:54	77	12:12	86S	18:29	283	19:18
2024	Aug	22	(Thu)	05:06	05:54	78	12:12	86S	18:29	282	19:17
2024	Aug	23	(Fri)	05:06	05:54	78	12:11	86S	18:28	282	19:16
2024	Aug	24	(Sat)	05:07	05:55	78	12:11	85S	18:27	282	19:15
2024	Aug	25	(Sun)	05:07	05:55	79	12:11	85S	18:27	281	19:14
2024	Aug	26	(Mon)	05:07	05:55	79	12:11	85S	18:26	281	19:14
2024	Aug	27	(Tue)	05:07	05:55	79	12:10	84S	18:25	280	19:13
2024	Aug	28	(Wed)	05:07	05:55	80	12:10	84S	18:25	280	19:12
2024	Aug	29	(Thu)	05:08	05:55	80	12:10	84S	18:24	280	19:11
2024	Aug	30	(Fri)	05:08	05:55	80	12:09	83S	18:23	279	19:11
2024	Aug	31	(Sat)	05:08	05:55	81	12:09	83S	18:22	279	19:10
2024	Sep	01	(Sun)	05:08	05:56	81	12:09	82S	18:22	279	19:09
2024	Sep	02	(Mon)	05:08	05:56	82	12:08	82S	18:21	278	19:08
2024	Sep	03	(Tue)	05:09	05:56	82	12:08	82S	18:20	278	19:07
2024	Sep	04	(Wed)	05:09	05:56	82	12:08	81S	18:19	277	19:06
2024	Sep	05	(Thu)	05:09	05:56	83	12:07	81S	18:18	277	19:06
2024	Sep	06	(Fri)	05:09	05:56	83	12:07	81S	18:18	277	19:05
2024	Sep	07	(Sat)	05:09	05:56	84	12:07	80S	18:17	276	19:04
2024	Sep	08	(Sun)	05:09	05:56	84	12:06	80S	18:16	276	19:03
2024	Sep	09	(Mon)	05:10	05:56	84	12:06	79S	18:15	275	19:02
2024	Sep	10	(Tue)	05:10	05:57	85	12:06	79S	18:15	275	19:01
2024	Sep	11	(Wed)	05:10	05:57	85	12:05	79S	18:14	275	19:01
2024	Sep	12	(Thu)	05:10	05:57	85	12:05	78S	18:13	274	19:00
2024	Sep	13	(Fri)	05:10	05:57	86	12:05	78S	18:12	274	18:59
2024	Sep	14	(Sat)	05:10	05:57	86	12:04	78S	18:11	273	18:58
2024	Sep	15	(Sun)	05:10	05:57	87	12:04	77S	18:10	273	18:57
2024	Sep	16	(Mon)	05:10	05:57	87	12:04	77S	18:10	273	18:56
2024	Sep	17	(Tue)	05:11	05:57	88	12:03	76S	18:09	272	18:56
2024	Sep	18	(Wed)	05:11	05:57	88	12:03	76S	18:08	272	18:55
2024	Sep	19	(Thu)	05:11	05:57	88	12:02	76S	18:07	271	18:54
2024	Sep	20	(Fri)	05:11	05:58	89	12:02	75S	18:06	271	18:53
2024	Sep	21	(Sat)	05:11	05:58	89	12:02	75S	18:06	271	18:52
2024	Sep	22	(Sun)	05:11	05:58	90	12:01	74S	18:05	270	18:51
2024	Sep	23	(Mon)	05:11	05:58	90	12:01	74S	18:04	270	18:51
2024	Sep	24	(Tue)	05:11	05:58	90	12:01	74S	18:03	269	18:50
2024	Sep	25	(Wed)	05:12	05:58	91	12:00	73S	18:02	269	18:49
2024	Sep	26	(Thu)	05:12	05:58	91	12:00	73S	18:02	269	18:48
2024	Sep	27	(Fri)	05:12	05:58	92	12:00	73S	18:01	268	18:47
2024	Sep	28	(Sat)	05:12	05:58	92	11:59	72S	18:00	268	18:47
2024	Sep	29	(Sun)	05:12	05:59	92	11:59	72S	17:59	267	18:46
2024	Sep	30	(Mon)	05:12	05:59	93	11:59	71S	17:58	267	18:45
2024	Oct	01	(Tue)	05:12	05:59	93	11:58	71S	17:58	267	18:44
2024	Oct	02	(Wed)	05:12	05:59	94	11:58	71S	17:57	266	18:43

2024	Oct	03	(Thu)	05:12	05:59	94	11:58	70S	17:56	266	18:43
2024	Oct	04	(Fri)	05:13	05:59	94	11:57	70S	17:55	265	18:42
2024	Oct	05	(Sat)	05:13	05:59	95	11:57	69S	17:55	265	18:41
2024	Oct	06	(Sun)	05:13	06:00	95	11:57	69S	17:54	265	18:41
2024	Oct	07	(Mon)	05:13	06:00	96	11:57	69S	17:53	264	18:40
2024	Oct	08	(Tue)	05:13	06:00	96	11:56	68S	17:52	264	18:39
2024	Oct	09	(Wed)	05:13	06:00	96	11:56	68S	17:52	263	18:38
2024	Oct	10	(Thu)	05:13	06:00	97	11:56	67S	17:51	263	18:38
2024	Oct	11	(Fri)	05:14	06:00	97	11:55	67S	17:50	263	18:37
2024	Oct	12	(Sat)	05:14	06:01	98	11:55	67S	17:50	262	18:36
2024	Oct	13	(Sun)	05:14	06:01	98	11:55	66S	17:49	262	18:36
2024	Oct	14	(Mon)	05:14	06:01	98	11:55	66S	17:48	261	18:35
2024	Oct	15	(Tue)	05:14	06:01	99	11:54	66S	17:48	261	18:34
2024	Oct	16	(Wed)	05:14	06:01	99	11:54	65S	17:47	261	18:34
2024	Oct	17	(Thu)	05:15	06:02	99	11:54	65S	17:46	260	18:33
2024	Oct	18	(Fri)	05:15	06:02	100	11:54	65S	17:46	260	18:33
2024	Oct	19	(Sat)	05:15	06:02	100	11:54	64S	17:45	260	18:32
2024	Oct	20	(Sun)	05:15	06:02	101	11:54	64S	17:44	259	18:32
2024	Oct	21	(Mon)	05:15	06:03	101	11:53	63S	17:44	259	18:31
2024	Oct	22	(Tue)	05:16	06:03	101	11:53	63S	17:43	258	18:30
2024	Oct	23	(Wed)	05:16	06:03	102	11:53	63S	17:43	258	18:30
2024	Oct	24	(Thu)	05:16	06:04	102	11:53	62S	17:42	258	18:29
2024	Oct	25	(Fri)	05:16	06:04	102	11:53	62S	17:42	257	18:29
2024	Oct	26	(Sat)	05:17	06:04	103	11:53	62S	17:41	257	18:29
2024	Oct	27	(Sun)	05:17	06:04	103	11:53	61S	17:41	257	18:28
2024	Oct	28	(Mon)	05:17	06:05	104	11:53	61S	17:40	256	18:28
2024	Oct	29	(Tue)	05:17	06:05	104	11:52	61S	17:40	256	18:27
2024	Oct	30	(Wed)	05:18	06:05	104	11:52	60S	17:39	256	18:27
2024	Oct	31	(Thu)	05:18	06:06	105	11:52	60S	17:39	255	18:26
2024	Nov	01	(Fri)	05:18	06:06	105	11:52	60S	17:38	255	18:26
2024	Nov	02	(Sat)	05:19	06:07	105	11:52	59S	17:38	255	18:26
2024	Nov	03	(Sun)	05:19	06:07	106	11:52	59S	17:37	254	18:25
2024	Nov	04	(Mon)	05:19	06:07	106	11:52	59S	17:37	254	18:25
2024	Nov	05	(Tue)	05:20	06:08	106	11:52	59S	17:37	254	18:25
2024	Nov	06	(Wed)	05:20	06:08	106	11:52	58S	17:36	253	18:25
2024	Nov	07	(Thu)	05:20	06:09	107	11:52	58S	17:36	253	18:24
2024	Nov	08	(Fri)	05:21	06:09	107	11:53	58S	17:36	253	18:24
2024	Nov	09	(Sat)	05:21	06:09	107	11:53	57S	17:36	252	18:24
2024	Nov	10	(Sun)	05:21	06:10	108	11:53	57S	17:35	252	18:24
2024	Nov	11	(Mon)	05:22	06:10	108	11:53	57S	17:35	252	18:24
2024	Nov	12	(Tue)	05:22	06:11	108	11:53	57S	17:35	252	18:23
2024	Nov	13	(Wed)	05:23	06:11	109	11:53	56S	17:35	251	18:23
2024	Nov	14	(Thu)	05:23	06:12	109	11:53	56S	17:34	251	18:23
2024	Nov	15	(Fri)	05:23	06:12	109	11:53	56S	17:34	251	18:23
2024	Nov	16	(Sat)	05:24	06:13	109	11:54	55S	17:34	251	18:23
2024	Nov	17	(Sun)	05:24	06:13	110	11:54	55S	17:34	250	18:23
2024	Nov	18	(Mon)	05:25	06:14	110	11:54	55S	17:34	250	18:23
2024	Nov	19	(Tue)	05:25	06:14	110	11:54	55S	17:34	250	18:23
2024	Nov	20	(Wed)	05:26	06:15	110	11:54	55S	17:34	250	18:23
2024	Nov	21	(Thu)	05:26	06:15	111	11:55	54S	17:34	249	18:23
2024	Nov	22	(Fri)	05:27	06:16	111	11:55	54S	17:34	249	18:23
2024	Nov	23	(Sat)	05:27	06:16	111	11:55	54S	17:34	249	18:23
2024	Nov	24	(Sun)	05:28	06:17	111	11:55	54S	17:34	249	18:23
2024	Nov	25	(Mon)	05:28	06:18	111	11:56	53S	17:34	248	18:23
2024	Nov	26	(Tue)	05:29	06:18	112	11:56	53S	17:34	248	18:23
2024	Nov	27	(Wed)	05:29	06:19	112	11:56	53S	17:34	248	18:24
2024	Nov	28	(Thu)	05:30	06:19	112	11:57	53S	17:34	248	18:24
2024	Nov	29	(Fri)	05:30	06:20	112	11:57	53S	17:34	248	18:24
2024	Nov	30	(Sat)	05:31	06:20	112	11:57	53S	17:34	248	18:24
2024	Dec	01	(Sun)	05:31	06:21	113	11:58	52S	17:35	247	18:24
2024	Dec	02	(Mon)	05:32	06:22	113	11:58	52S	17:35	247	18:25
2024	Dec	03	(Tue)	05:32	06:22	113	11:59	52S	17:35	247	18:25
2024	Dec	04	(Wed)	05:33	06:23	113	11:59	52S	17:35	247	18:25
2024	Dec	05	(Thu)	05:33	06:23	113	11:59	52S	17:35	247	18:25
2024	Dec	06	(Fri)	05:34	06:24	113	12:00	52S	17:36	247	18:26
2024	Dec	07	(Sat)	05:34	06:25	113	12:00	52S	17:36	247	18:26
2024	Dec	08	(Sun)	05:35	06:25	113	12:01	52S	17:36	246	18:26
2024	Dec	09	(Mon)	05:36	06:26	114	12:01	51S	17:37	246	18:27
2024	Dec	10	(Tue)	05:36	06:26	114	12:02	51S	17:37	246	18:27
2024	Dec	11	(Wed)	05:37	06:27	114	12:02	51S	17:37	246	18:28
2024	Dec	12	(Thu)	05:37	06:27	114	12:03	51S	17:38	246	18:28
2024	Dec	13	(Fri)	05:38	06:28	114	12:03	51S	17:38	246	18:28

2024	Dec	14	(Sat)	05:38	06:29	114	12:03	51S	17:38	246	18:29
2024	Dec	15	(Sun)	05:39	06:29	114	12:04	51S	17:39	246	18:29
2024	Dec	16	(Mon)	05:39	06:30	114	12:04	51S	17:39	246	18:30
2024	Dec	17	(Tue)	05:40	06:30	114	12:05	51S	17:40	246	18:30
2024	Dec	18	(Wed)	05:40	06:31	114	12:05	51S	17:40	246	18:31
2024	Dec	19	(Thu)	05:41	06:31	114	12:06	51S	17:41	246	18:31
2024	Dec	20	(Fri)	05:41	06:32	114	12:06	51S	17:41	246	18:32
2024	Dec	21	(Sat)	05:42	06:32	114	12:07	51S	17:42	246	18:32
2024	Dec	22	(Sun)	05:42	06:33	114	12:07	51S	17:42	246	18:33
2024	Dec	23	(Mon)	05:43	06:33	114	12:08	51S	17:43	246	18:33
2024	Dec	24	(Tue)	05:43	06:34	114	12:08	51S	17:43	246	18:34
2024	Dec	25	(Wed)	05:44	06:34	114	12:09	51S	17:44	246	18:34
2024	Dec	26	(Thu)	05:44	06:35	114	12:09	51S	17:44	246	18:35
2024	Dec	27	(Fri)	05:45	06:35	114	12:10	51S	17:45	246	18:35
2024	Dec	28	(Sat)	05:45	06:36	114	12:10	51S	17:45	246	18:36
2024	Dec	29	(Sun)	05:46	06:36	114	12:11	51S	17:46	246	18:36
2024	Dec	30	(Mon)	05:46	06:36	114	12:11	51S	17:46	246	18:37
2024	Dec	31	(Tue)	05:46	06:37	114	12:12	51S	17:47	246	18:37

Sun

Khon Kaen

Location: E102°48'32.3", N16°23'06.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)				Begin Civil Twilight	Rise	Az.	Transit	Alt.	Set	Az.	End Civil Twilight
				h m	h m	°	h m	°	h m	°	h m
2024	Jan	01	(Mon)	06:13	06:37	114	12:12	51S	17:47	246	18:11
2024	Jan	02	(Tue)	06:14	06:37	114	12:12	51S	17:48	246	18:11
2024	Jan	03	(Wed)	06:14	06:38	114	12:13	51S	17:48	246	18:12
2024	Jan	04	(Thu)	06:14	06:38	114	12:13	52S	17:49	246	18:12
2024	Jan	05	(Fri)	06:15	06:38	113	12:14	52S	17:50	247	18:13
2024	Jan	06	(Sat)	06:15	06:38	113	12:14	52S	17:50	247	18:13
2024	Jan	07	(Sun)	06:15	06:39	113	12:15	52S	17:51	247	18:14
2024	Jan	08	(Mon)	06:16	06:39	113	12:15	52S	17:51	247	18:15
2024	Jan	09	(Tue)	06:16	06:39	113	12:16	52S	17:52	247	18:15
2024	Jan	10	(Wed)	06:16	06:39	113	12:16	52S	17:53	247	18:16
2024	Jan	11	(Thu)	06:16	06:40	113	12:16	52S	17:53	247	18:16
2024	Jan	12	(Fri)	06:17	06:40	112	12:17	53S	17:54	248	18:17
2024	Jan	13	(Sat)	06:17	06:40	112	12:17	53S	17:54	248	18:18
2024	Jan	14	(Sun)	06:17	06:40	112	12:18	53S	17:55	248	18:18
2024	Jan	15	(Mon)	06:17	06:40	112	12:18	53S	17:56	248	18:19
2024	Jan	16	(Tue)	06:17	06:40	112	12:18	53S	17:56	248	18:19
2024	Jan	17	(Wed)	06:18	06:41	112	12:19	53S	17:57	249	18:20
2024	Jan	18	(Thu)	06:18	06:41	111	12:19	54S	17:57	249	18:20
2024	Jan	19	(Fri)	06:18	06:41	111	12:19	54S	17:58	249	18:21
2024	Jan	20	(Sat)	06:18	06:41	111	12:20	54S	17:59	249	18:21
2024	Jan	21	(Sun)	06:18	06:41	111	12:20	54S	17:59	249	18:22
2024	Jan	22	(Mon)	06:18	06:41	110	12:20	55S	18:00	250	18:23
2024	Jan	23	(Tue)	06:18	06:41	110	12:20	55S	18:00	250	18:23
2024	Jan	24	(Wed)	06:18	06:41	110	12:21	55S	18:01	250	18:24
2024	Jan	25	(Thu)	06:18	06:41	110	12:21	55S	18:01	250	18:24
2024	Jan	26	(Fri)	06:18	06:40	109	12:21	55S	18:02	251	18:25
2024	Jan	27	(Sat)	06:18	06:40	109	12:21	56S	18:02	251	18:25
2024	Jan	28	(Sun)	06:18	06:40	109	12:22	56S	18:03	251	18:26
2024	Jan	29	(Mon)	06:17	06:40	109	12:22	56S	18:04	251	18:26
2024	Jan	30	(Tue)	06:17	06:40	108	12:22	57S	18:04	252	18:27
2024	Jan	31	(Wed)	06:17	06:40	108	12:22	57S	18:05	252	18:27
2024	Feb	01	(Thu)	06:17	06:40	108	12:22	57S	18:05	252	18:28
2024	Feb	02	(Fri)	06:17	06:39	108	12:22	57S	18:06	253	18:28
2024	Feb	03	(Sat)	06:17	06:39	107	12:22	58S	18:06	253	18:28
2024	Feb	04	(Sun)	06:16	06:39	107	12:23	58S	18:06	253	18:29
2024	Feb	05	(Mon)	06:16	06:39	107	12:23	58S	18:07	254	18:29
2024	Feb	06	(Tue)	06:16	06:38	106	12:23	59S	18:07	254	18:30
2024	Feb	07	(Wed)	06:16	06:38	106	12:23	59S	18:08	254	18:30
2024	Feb	08	(Thu)	06:15	06:38	106	12:23	59S	18:08	255	18:31
2024	Feb	09	(Fri)	06:15	06:37	105	12:23	59S	18:09	255	18:31
2024	Feb	10	(Sat)	06:15	06:37	105	12:23	60S	18:09	255	18:31

2024	Feb	11	(Sun)	06:14	06:37	105	12:23	60S	18:10	256	18:32
2024	Feb	12	(Mon)	06:14	06:36	104	12:23	60S	18:10	256	18:32
2024	Feb	13	(Tue)	06:14	06:36	104	12:23	61S	18:10	256	18:33
2024	Feb	14	(Wed)	06:13	06:35	104	12:23	61S	18:11	257	18:33
2024	Feb	15	(Thu)	06:13	06:35	103	12:23	61S	18:11	257	18:33
2024	Feb	16	(Fri)	06:12	06:34	103	12:23	62S	18:12	257	18:34
2024	Feb	17	(Sat)	06:12	06:34	103	12:23	62S	18:12	258	18:34
2024	Feb	18	(Sun)	06:11	06:33	102	12:23	63S	18:12	258	18:34
2024	Feb	19	(Mon)	06:11	06:33	102	12:23	63S	18:13	258	18:35
2024	Feb	20	(Tue)	06:10	06:32	101	12:23	63S	18:13	259	18:35
2024	Feb	21	(Wed)	06:10	06:32	101	12:22	64S	18:13	259	18:35
2024	Feb	22	(Thu)	06:09	06:31	101	12:22	64S	18:14	260	18:35
2024	Feb	23	(Fri)	06:09	06:31	100	12:22	64S	18:14	260	18:36
2024	Feb	24	(Sat)	06:08	06:30	100	12:22	65S	18:14	260	18:36
2024	Feb	25	(Sun)	06:08	06:30	100	12:22	65S	18:14	261	18:36
2024	Feb	26	(Mon)	06:07	06:29	99	12:22	65S	18:15	261	18:37
2024	Feb	27	(Tue)	06:07	06:28	99	12:22	66S	18:15	261	18:37
2024	Feb	28	(Wed)	06:06	06:28	98	12:21	66S	18:15	262	18:37
2024	Feb	29	(Thu)	06:05	06:27	98	12:21	67S	18:16	262	18:37
2024	Mar	01	(Fri)	06:05	06:26	98	12:21	67S	18:16	263	18:38
2024	Mar	02	(Sat)	06:04	06:26	97	12:21	67S	18:16	263	18:38
2024	Mar	03	(Sun)	06:03	06:25	97	12:21	68S	18:16	263	18:38
2024	Mar	04	(Mon)	06:03	06:24	96	12:20	68S	18:17	264	18:38
2024	Mar	05	(Tue)	06:02	06:24	96	12:20	68S	18:17	264	18:38
2024	Mar	06	(Wed)	06:01	06:23	96	12:20	69S	18:17	265	18:39
2024	Mar	07	(Thu)	06:01	06:22	95	12:20	69S	18:17	265	18:39
2024	Mar	08	(Fri)	06:00	06:22	95	12:19	70S	18:17	265	18:39
2024	Mar	09	(Sat)	05:59	06:21	94	12:19	70S	18:18	266	18:39
2024	Mar	10	(Sun)	05:59	06:20	94	12:19	70S	18:18	266	18:39
2024	Mar	11	(Mon)	05:58	06:20	94	12:19	71S	18:18	267	18:40
2024	Mar	12	(Tue)	05:57	06:19	93	12:18	71S	18:18	267	18:40
2024	Mar	13	(Wed)	05:57	06:18	93	12:18	72S	18:18	268	18:40
2024	Mar	14	(Thu)	05:56	06:17	92	12:18	72S	18:19	268	18:40
2024	Mar	15	(Fri)	05:55	06:17	92	12:18	72S	18:19	268	18:40
2024	Mar	16	(Sat)	05:54	06:16	91	12:17	73S	18:19	269	18:41
2024	Mar	17	(Sun)	05:54	06:15	91	12:17	73S	18:19	269	18:41
2024	Mar	18	(Mon)	05:53	06:14	91	12:17	74S	18:19	270	18:41
2024	Mar	19	(Tue)	05:52	06:14	90	12:16	74S	18:20	270	18:41
2024	Mar	20	(Wed)	05:51	06:13	90	12:16	74S	18:20	270	18:41
2024	Mar	21	(Thu)	05:51	06:12	89	12:16	75S	18:20	271	18:41
2024	Mar	22	(Fri)	05:50	06:11	89	12:16	75S	18:20	271	18:42
2024	Mar	23	(Sat)	05:49	06:11	89	12:15	76S	18:20	272	18:42
2024	Mar	24	(Sun)	05:48	06:10	88	12:15	76S	18:20	272	18:42
2024	Mar	25	(Mon)	05:47	06:09	88	12:15	76S	18:21	272	18:42
2024	Mar	26	(Tue)	05:47	06:08	87	12:14	77S	18:21	273	18:42
2024	Mar	27	(Wed)	05:46	06:07	87	12:14	77S	18:21	273	18:42
2024	Mar	28	(Thu)	05:45	06:07	87	12:14	78S	18:21	274	18:43
2024	Mar	29	(Fri)	05:44	06:06	86	12:13	78S	18:21	274	18:43
2024	Mar	30	(Sat)	05:44	06:05	86	12:13	78S	18:21	274	18:43
2024	Mar	31	(Sun)	05:43	06:04	85	12:13	79S	18:21	275	18:43
2024	Apr	01	(Mon)	05:42	06:04	85	12:13	79S	18:22	275	18:43
2024	Apr	02	(Tue)	05:41	06:03	85	12:12	79S	18:22	276	18:43
2024	Apr	03	(Wed)	05:41	06:02	84	12:12	80S	18:22	276	18:44
2024	Apr	04	(Thu)	05:40	06:01	84	12:12	80S	18:22	276	18:44
2024	Apr	05	(Fri)	05:39	06:01	83	12:11	81S	18:22	277	18:44
2024	Apr	06	(Sat)	05:38	06:00	83	12:11	81S	18:22	277	18:44
2024	Apr	07	(Sun)	05:37	05:59	83	12:11	81S	18:23	278	18:44
2024	Apr	08	(Mon)	05:37	05:59	82	12:11	82S	18:23	278	18:45
2024	Apr	09	(Tue)	05:36	05:58	82	12:10	82S	18:23	278	18:45
2024	Apr	10	(Wed)	05:35	05:57	81	12:10	82S	18:23	279	18:45
2024	Apr	11	(Thu)	05:35	05:56	81	12:10	83S	18:23	279	18:45
2024	Apr	12	(Fri)	05:34	05:56	81	12:09	83S	18:24	280	18:45
2024	Apr	13	(Sat)	05:33	05:55	80	12:09	84S	18:24	280	18:46
2024	Apr	14	(Sun)	05:32	05:54	80	12:09	84S	18:24	280	18:46
2024	Apr	15	(Mon)	05:32	05:54	79	12:09	84S	18:24	281	18:46
2024	Apr	16	(Tue)	05:31	05:53	79	12:09	85S	18:24	281	18:46
2024	Apr	17	(Wed)	05:30	05:52	79	12:08	85S	18:25	281	18:47
2024	Apr	18	(Thu)	05:30	05:52	78	12:08	85S	18:25	282	18:47
2024	Apr	19	(Fri)	05:29	05:51	78	12:08	86S	18:25	282	18:47
2024	Apr	20	(Sat)	05:28	05:50	78	12:08	86S	18:25	283	18:47
2024	Apr	21	(Sun)	05:28	05:50	77	12:07	86S	18:25	283	18:48
2024	Apr	22	(Mon)	05:27	05:49	77	12:07	87S	18:26	283	18:48

2024	Apr	23	(Tue)	05:26	05:48	77	12:07	87S	18:26	284	18:48
2024	Apr	24	(Wed)	05:26	05:48	76	12:07	87S	18:26	284	18:48
2024	Apr	25	(Thu)	05:25	05:47	76	12:07	88S	18:26	284	18:49
2024	Apr	26	(Fri)	05:24	05:47	76	12:07	88S	18:27	285	18:49
2024	Apr	27	(Sat)	05:24	05:46	75	12:06	88S	18:27	285	18:49
2024	Apr	28	(Sun)	05:23	05:46	75	12:06	89S	18:27	285	18:50
2024	Apr	29	(Mon)	05:23	05:45	75	12:06	89S	18:27	286	18:50
2024	Apr	30	(Tue)	05:22	05:45	74	12:06	89S	18:28	286	18:50
2024	May	01	(Wed)	05:21	05:44	74	12:06	90S	18:28	286	18:50
2024	May	02	(Thu)	05:21	05:44	74	12:06	90S	18:28	287	18:51
2024	May	03	(Fri)	05:20	05:43	73	12:06	90S	18:28	287	18:51
2024	May	04	(Sat)	05:20	05:43	73	12:06	90S	18:29	287	18:51
2024	May	05	(Sun)	05:19	05:42	73	12:05	91N	18:29	287	18:52
2024	May	06	(Mon)	05:19	05:42	72	12:05	90N	18:29	288	18:52
2024	May	07	(Tue)	05:18	05:41	72	12:05	90N	18:30	288	18:52
2024	May	08	(Wed)	05:18	05:41	72	12:05	90N	18:30	288	18:53
2024	May	09	(Thu)	05:18	05:40	72	12:05	90N	18:30	289	18:53
2024	May	10	(Fri)	05:17	05:40	71	12:05	89N	18:31	289	18:53
2024	May	11	(Sat)	05:17	05:40	71	12:05	89N	18:31	289	18:54
2024	May	12	(Sun)	05:16	05:39	71	12:05	89N	18:31	289	18:54
2024	May	13	(Mon)	05:16	05:39	70	12:05	89N	18:31	290	18:54
2024	May	14	(Tue)	05:16	05:39	70	12:05	88N	18:32	290	18:55
2024	May	15	(Wed)	05:15	05:38	70	12:05	88N	18:32	290	18:55
2024	May	16	(Thu)	05:15	05:38	70	12:05	88N	18:32	290	18:56
2024	May	17	(Fri)	05:15	05:38	70	12:05	88N	18:33	291	18:56
2024	May	18	(Sat)	05:14	05:37	69	12:05	87N	18:33	291	18:56
2024	May	19	(Sun)	05:14	05:37	69	12:05	87N	18:33	291	18:57
2024	May	20	(Mon)	05:14	05:37	69	12:05	87N	18:34	291	18:57
2024	May	21	(Tue)	05:13	05:37	69	12:05	87N	18:34	292	18:57
2024	May	22	(Wed)	05:13	05:37	68	12:05	87N	18:34	292	18:58
2024	May	23	(Thu)	05:13	05:36	68	12:06	86N	18:35	292	18:58
2024	May	24	(Fri)	05:13	05:36	68	12:06	86N	18:35	292	18:59
2024	May	25	(Sat)	05:13	05:36	68	12:06	86N	18:36	292	18:59
2024	May	26	(Sun)	05:12	05:36	68	12:06	86N	18:36	292	18:59
2024	May	27	(Mon)	05:12	05:36	67	12:06	86N	18:36	293	19:00
2024	May	28	(Tue)	05:12	05:36	67	12:06	86N	18:37	293	19:00
2024	May	29	(Wed)	05:12	05:36	67	12:06	85N	18:37	293	19:00
2024	May	30	(Thu)	05:12	05:36	67	12:06	85N	18:37	293	19:01
2024	May	31	(Fri)	05:12	05:35	67	12:06	85N	18:38	293	19:01
2024	Jun	01	(Sat)	05:12	05:35	67	12:07	85N	18:38	293	19:02
2024	Jun	02	(Sun)	05:12	05:35	67	12:07	85N	18:38	294	19:02
2024	Jun	03	(Mon)	05:12	05:35	66	12:07	85N	18:39	294	19:02
2024	Jun	04	(Tue)	05:12	05:35	66	12:07	85N	18:39	294	19:03
2024	Jun	05	(Wed)	05:12	05:35	66	12:07	84N	18:39	294	19:03
2024	Jun	06	(Thu)	05:12	05:35	66	12:08	84N	18:40	294	19:03
2024	Jun	07	(Fri)	05:12	05:36	66	12:08	84N	18:40	294	19:04
2024	Jun	08	(Sat)	05:12	05:36	66	12:08	84N	18:40	294	19:04
2024	Jun	09	(Sun)	05:12	05:36	66	12:08	84N	18:41	294	19:04
2024	Jun	10	(Mon)	05:12	05:36	66	12:08	84N	18:41	294	19:05
2024	Jun	11	(Tue)	05:12	05:36	66	12:08	84N	18:41	294	19:05
2024	Jun	12	(Wed)	05:12	05:36	66	12:09	84N	18:41	295	19:05
2024	Jun	13	(Thu)	05:12	05:36	65	12:09	84N	18:42	295	19:06
2024	Jun	14	(Fri)	05:12	05:36	65	12:09	84N	18:42	295	19:06
2024	Jun	15	(Sat)	05:12	05:36	65	12:09	84N	18:42	295	19:06
2024	Jun	16	(Sun)	05:13	05:37	65	12:10	84N	18:43	295	19:07
2024	Jun	17	(Mon)	05:13	05:37	65	12:10	84N	18:43	295	19:07
2024	Jun	18	(Tue)	05:13	05:37	65	12:10	84N	18:43	295	19:07
2024	Jun	19	(Wed)	05:13	05:37	65	12:10	84N	18:43	295	19:07
2024	Jun	20	(Thu)	05:13	05:37	65	12:10	84N	18:44	295	19:07
2024	Jun	21	(Fri)	05:14	05:37	65	12:11	84N	18:44	295	19:08
2024	Jun	22	(Sat)	05:14	05:38	65	12:11	84N	18:44	295	19:08
2024	Jun	23	(Sun)	05:14	05:38	65	12:11	84N	18:44	295	19:08
2024	Jun	24	(Mon)	05:14	05:38	65	12:11	84N	18:44	295	19:08
2024	Jun	25	(Tue)	05:15	05:38	65	12:11	84N	18:45	295	19:08
2024	Jun	26	(Wed)	05:15	05:39	65	12:12	84N	18:45	295	19:09
2024	Jun	27	(Thu)	05:15	05:39	65	12:12	84N	18:45	295	19:09
2024	Jun	28	(Fri)	05:15	05:39	65	12:12	84N	18:45	295	19:09
2024	Jun	29	(Sat)	05:16	05:40	65	12:12	84N	18:45	294	19:09
2024	Jun	30	(Sun)	05:16	05:40	66	12:13	84N	18:45	294	19:09
2024	Jul	01	(Mon)	05:16	05:40	66	12:13	84N	18:45	294	19:09
2024	Jul	02	(Tue)	05:17	05:40	66	12:13	84N	18:45	294	19:09
2024	Jul	03	(Wed)	05:17	05:41	66	12:13	84N	18:45	294	19:09

2024	Jul	04	(Thu)	05:17	05:41	66	12:13	84N	18:45	294	19:09
2024	Jul	05	(Fri)	05:17	05:41	66	12:13	84N	18:46	294	19:09
2024	Jul	06	(Sat)	05:18	05:42	66	12:14	84N	18:46	294	19:09
2024	Jul	07	(Sun)	05:18	05:42	66	12:14	85N	18:46	294	19:09
2024	Jul	08	(Mon)	05:18	05:42	66	12:14	85N	18:46	294	19:09
2024	Jul	09	(Tue)	05:19	05:43	66	12:14	85N	18:46	294	19:09
2024	Jul	10	(Wed)	05:19	05:43	67	12:14	85N	18:45	293	19:09
2024	Jul	11	(Thu)	05:20	05:43	67	12:14	85N	18:45	293	19:09
2024	Jul	12	(Fri)	05:20	05:44	67	12:14	85N	18:45	293	19:09
2024	Jul	13	(Sat)	05:20	05:44	67	12:15	85N	18:45	293	19:09
2024	Jul	14	(Sun)	05:21	05:44	67	12:15	85N	18:45	293	19:09
2024	Jul	15	(Mon)	05:21	05:44	67	12:15	86N	18:45	293	19:09
2024	Jul	16	(Tue)	05:21	05:45	67	12:15	86N	18:45	292	19:08
2024	Jul	17	(Wed)	05:22	05:45	68	12:15	86N	18:45	292	19:08
2024	Jul	18	(Thu)	05:22	05:45	68	12:15	86N	18:45	292	19:08
2024	Jul	19	(Fri)	05:22	05:46	68	12:15	86N	18:44	292	19:08
2024	Jul	20	(Sat)	05:23	05:46	68	12:15	87N	18:44	292	19:07
2024	Jul	21	(Sun)	05:23	05:46	68	12:15	87N	18:44	291	19:07
2024	Jul	22	(Mon)	05:23	05:47	69	12:15	87N	18:44	291	19:07
2024	Jul	23	(Tue)	05:24	05:47	69	12:15	87N	18:43	291	19:07
2024	Jul	24	(Wed)	05:24	05:47	69	12:15	87N	18:43	291	19:06
2024	Jul	25	(Thu)	05:24	05:48	69	12:15	88N	18:43	291	19:06
2024	Jul	26	(Fri)	05:25	05:48	70	12:15	88N	18:43	290	19:06
2024	Jul	27	(Sat)	05:25	05:48	70	12:15	88N	18:42	290	19:05
2024	Jul	28	(Sun)	05:25	05:48	70	12:15	88N	18:42	290	19:05
2024	Jul	29	(Mon)	05:26	05:49	70	12:15	88N	18:42	290	19:05
2024	Jul	30	(Tue)	05:26	05:49	70	12:15	89N	18:41	289	19:04
2024	Jul	31	(Wed)	05:26	05:49	71	12:15	89N	18:41	289	19:04
2024	Aug	01	(Thu)	05:27	05:50	71	12:15	89N	18:40	289	19:03
2024	Aug	02	(Fri)	05:27	05:50	71	12:15	89N	18:40	289	19:03
2024	Aug	03	(Sat)	05:27	05:50	72	12:15	90N	18:40	288	19:02
2024	Aug	04	(Sun)	05:28	05:50	72	12:15	90N	18:39	288	19:02
2024	Aug	05	(Mon)	05:28	05:51	72	12:15	90N	18:39	288	19:01
2024	Aug	06	(Tue)	05:28	05:51	72	12:15	91N	18:38	287	19:01
2024	Aug	07	(Wed)	05:28	05:51	73	12:15	91S	18:38	287	19:00
2024	Aug	08	(Thu)	05:29	05:51	73	12:14	90S	18:37	287	19:00
2024	Aug	09	(Fri)	05:29	05:52	73	12:14	90S	18:37	287	18:59
2024	Aug	10	(Sat)	05:29	05:52	74	12:14	90S	18:36	286	18:59
2024	Aug	11	(Sun)	05:30	05:52	74	12:14	89S	18:36	286	18:58
2024	Aug	12	(Mon)	05:30	05:52	74	12:14	89S	18:35	286	18:58
2024	Aug	13	(Tue)	05:30	05:53	75	12:14	89S	18:34	285	18:57
2024	Aug	14	(Wed)	05:30	05:53	75	12:13	89S	18:34	285	18:56
2024	Aug	15	(Thu)	05:31	05:53	75	12:13	88S	18:33	285	18:56
2024	Aug	16	(Fri)	05:31	05:53	76	12:13	88S	18:33	284	18:55
2024	Aug	17	(Sat)	05:31	05:53	76	12:13	88S	18:32	284	18:54
2024	Aug	18	(Sun)	05:31	05:54	76	12:13	87S	18:31	284	18:54
2024	Aug	19	(Mon)	05:31	05:54	77	12:12	87S	18:31	283	18:53
2024	Aug	20	(Tue)	05:32	05:54	77	12:12	87S	18:30	283	18:52
2024	Aug	21	(Wed)	05:32	05:54	77	12:12	86S	18:29	283	18:52
2024	Aug	22	(Thu)	05:32	05:54	78	12:12	86S	18:29	282	18:51
2024	Aug	23	(Fri)	05:32	05:54	78	12:11	86S	18:28	282	18:50
2024	Aug	24	(Sat)	05:32	05:55	78	12:11	85S	18:27	282	18:49
2024	Aug	25	(Sun)	05:33	05:55	79	12:11	85S	18:27	281	18:49
2024	Aug	26	(Mon)	05:33	05:55	79	12:11	85S	18:26	281	18:48
2024	Aug	27	(Tue)	05:33	05:55	79	12:10	84S	18:25	280	18:47
2024	Aug	28	(Wed)	05:33	05:55	80	12:10	84S	18:25	280	18:47
2024	Aug	29	(Thu)	05:33	05:55	80	12:10	84S	18:24	280	18:46
2024	Aug	30	(Fri)	05:33	05:55	80	12:09	83S	18:23	279	18:45
2024	Aug	31	(Sat)	05:34	05:55	81	12:09	83S	18:22	279	18:44
2024	Sep	01	(Sun)	05:34	05:56	81	12:09	82S	18:22	279	18:43
2024	Sep	02	(Mon)	05:34	05:56	82	12:08	82S	18:21	278	18:43
2024	Sep	03	(Tue)	05:34	05:56	82	12:08	82S	18:20	278	18:42
2024	Sep	04	(Wed)	05:34	05:56	82	12:08	81S	18:19	277	18:41
2024	Sep	05	(Thu)	05:34	05:56	83	12:07	81S	18:18	277	18:40
2024	Sep	06	(Fri)	05:34	05:56	83	12:07	81S	18:18	277	18:39
2024	Sep	07	(Sat)	05:35	05:56	84	12:07	80S	18:17	276	18:39
2024	Sep	08	(Sun)	05:35	05:56	84	12:06	80S	18:16	276	18:38
2024	Sep	09	(Mon)	05:35	05:56	84	12:06	79S	18:15	275	18:37
2024	Sep	10	(Tue)	05:35	05:57	85	12:06	79S	18:15	275	18:36
2024	Sep	11	(Wed)	05:35	05:57	85	12:05	79S	18:14	275	18:35
2024	Sep	12	(Thu)	05:35	05:57	85	12:05	78S	18:13	274	18:35
2024	Sep	13	(Fri)	05:35	05:57	86	12:05	78S	18:12	274	18:34

2024	Sep	14	(Sat)	05:35	05:57	86	12:04	78S	18:11	273	18:33
2024	Sep	15	(Sun)	05:35	05:57	87	12:04	77S	18:10	273	18:32
2024	Sep	16	(Mon)	05:36	05:57	87	12:04	77S	18:10	273	18:31
2024	Sep	17	(Tue)	05:36	05:57	88	12:03	76S	18:09	272	18:30
2024	Sep	18	(Wed)	05:36	05:57	88	12:03	76S	18:08	272	18:30
2024	Sep	19	(Thu)	05:36	05:57	88	12:02	76S	18:07	271	18:29
2024	Sep	20	(Fri)	05:36	05:58	89	12:02	75S	18:06	271	18:28
2024	Sep	21	(Sat)	05:36	05:58	89	12:02	75S	18:06	271	18:27
2024	Sep	22	(Sun)	05:36	05:58	90	12:01	74S	18:05	270	18:26
2024	Sep	23	(Mon)	05:36	05:58	90	12:01	74S	18:04	270	18:26
2024	Sep	24	(Tue)	05:36	05:58	90	12:01	74S	18:03	269	18:25
2024	Sep	25	(Wed)	05:37	05:58	91	12:00	73S	18:02	269	18:24
2024	Sep	26	(Thu)	05:37	05:58	91	12:00	73S	18:02	269	18:23
2024	Sep	27	(Fri)	05:37	05:58	92	12:00	73S	18:01	268	18:22
2024	Sep	28	(Sat)	05:37	05:58	92	11:59	72S	18:00	268	18:22
2024	Sep	29	(Sun)	05:37	05:59	92	11:59	72S	17:59	267	18:21
2024	Sep	30	(Mon)	05:37	05:59	93	11:59	71S	17:58	267	18:20
2024	Oct	01	(Tue)	05:37	05:59	93	11:58	71S	17:58	267	18:19
2024	Oct	02	(Wed)	05:37	05:59	94	11:58	71S	17:57	266	18:18
2024	Oct	03	(Thu)	05:38	05:59	94	11:58	70S	17:56	266	18:18
2024	Oct	04	(Fri)	05:38	05:59	94	11:57	70S	17:55	265	18:17
2024	Oct	05	(Sat)	05:38	05:59	95	11:57	69S	17:55	265	18:16
2024	Oct	06	(Sun)	05:38	06:00	95	11:57	69S	17:54	265	18:15
2024	Oct	07	(Mon)	05:38	06:00	96	11:57	69S	17:53	264	18:15
2024	Oct	08	(Tue)	05:38	06:00	96	11:56	68S	17:52	264	18:14
2024	Oct	09	(Wed)	05:38	06:00	96	11:56	68S	17:52	263	18:13
2024	Oct	10	(Thu)	05:39	06:00	97	11:56	67S	17:51	263	18:13
2024	Oct	11	(Fri)	05:39	06:00	97	11:55	67S	17:50	263	18:12
2024	Oct	12	(Sat)	05:39	06:01	98	11:55	67S	17:50	262	18:11
2024	Oct	13	(Sun)	05:39	06:01	98	11:55	66S	17:49	262	18:11
2024	Oct	14	(Mon)	05:39	06:01	98	11:55	66S	17:48	261	18:10
2024	Oct	15	(Tue)	05:39	06:01	99	11:54	66S	17:48	261	18:09
2024	Oct	16	(Wed)	05:40	06:01	99	11:54	65S	17:47	261	18:09
2024	Oct	17	(Thu)	05:40	06:02	99	11:54	65S	17:46	260	18:08
2024	Oct	18	(Fri)	05:40	06:02	100	11:54	65S	17:46	260	18:07
2024	Oct	19	(Sat)	05:40	06:02	100	11:54	64S	17:45	260	18:07
2024	Oct	20	(Sun)	05:41	06:02	101	11:54	64S	17:44	259	18:06
2024	Oct	21	(Mon)	05:41	06:03	101	11:53	63S	17:44	259	18:06
2024	Oct	22	(Tue)	05:41	06:03	101	11:53	63S	17:43	258	18:05
2024	Oct	23	(Wed)	05:41	06:03	102	11:53	63S	17:43	258	18:05
2024	Oct	24	(Thu)	05:42	06:04	102	11:53	62S	17:42	258	18:04
2024	Oct	25	(Fri)	05:42	06:04	102	11:53	62S	17:42	257	18:04
2024	Oct	26	(Sat)	05:42	06:04	103	11:53	62S	17:41	257	18:03
2024	Oct	27	(Sun)	05:42	06:04	103	11:53	61S	17:41	257	18:03
2024	Oct	28	(Mon)	05:43	06:05	104	11:53	61S	17:40	256	18:02
2024	Oct	29	(Tue)	05:43	06:05	104	11:52	61S	17:40	256	18:02
2024	Oct	30	(Wed)	05:43	06:05	104	11:52	60S	17:39	256	18:01
2024	Oct	31	(Thu)	05:44	06:06	105	11:52	60S	17:39	255	18:01
2024	Nov	01	(Fri)	05:44	06:06	105	11:52	60S	17:38	255	18:01
2024	Nov	02	(Sat)	05:44	06:07	105	11:52	59S	17:38	255	18:00
2024	Nov	03	(Sun)	05:45	06:07	106	11:52	59S	17:37	254	18:00
2024	Nov	04	(Mon)	05:45	06:07	106	11:52	59S	17:37	254	17:59
2024	Nov	05	(Tue)	05:45	06:08	106	11:52	59S	17:37	254	17:59
2024	Nov	06	(Wed)	05:46	06:08	106	11:52	58S	17:36	253	17:59
2024	Nov	07	(Thu)	05:46	06:09	107	11:52	58S	17:36	253	17:59
2024	Nov	08	(Fri)	05:47	06:09	107	11:53	58S	17:36	253	17:58
2024	Nov	09	(Sat)	05:47	06:09	107	11:53	57S	17:36	252	17:58
2024	Nov	10	(Sun)	05:47	06:10	108	11:53	57S	17:35	252	17:58
2024	Nov	11	(Mon)	05:48	06:10	108	11:53	57S	17:35	252	17:58
2024	Nov	12	(Tue)	05:48	06:11	108	11:53	57S	17:35	252	17:57
2024	Nov	13	(Wed)	05:49	06:11	109	11:53	56S	17:35	251	17:57
2024	Nov	14	(Thu)	05:49	06:12	109	11:53	56S	17:34	251	17:57
2024	Nov	15	(Fri)	05:50	06:12	109	11:53	56S	17:34	251	17:57
2024	Nov	16	(Sat)	05:50	06:13	109	11:54	55S	17:34	251	17:57
2024	Nov	17	(Sun)	05:51	06:13	110	11:54	55S	17:34	250	17:57
2024	Nov	18	(Mon)	05:51	06:14	110	11:54	55S	17:34	250	17:57
2024	Nov	19	(Tue)	05:52	06:14	110	11:54	55S	17:34	250	17:57
2024	Nov	20	(Wed)	05:52	06:15	110	11:54	55S	17:34	250	17:57
2024	Nov	21	(Thu)	05:53	06:15	111	11:55	54S	17:34	249	17:57
2024	Nov	22	(Fri)	05:53	06:16	111	11:55	54S	17:34	249	17:57
2024	Nov	23	(Sat)	05:54	06:16	111	11:55	54S	17:34	249	17:57
2024	Nov	24	(Sun)	05:54	06:17	111	11:55	54S	17:34	249	17:57

2024	Nov	25	(Mon)	05:55	06:18	111	11:56	53S	17:34	248	17:57
2024	Nov	26	(Tue)	05:55	06:18	112	11:56	53S	17:34	248	17:57
2024	Nov	27	(Wed)	05:56	06:19	112	11:56	53S	17:34	248	17:57
2024	Nov	28	(Thu)	05:56	06:19	112	11:57	53S	17:34	248	17:57
2024	Nov	29	(Fri)	05:57	06:20	112	11:57	53S	17:34	248	17:57
2024	Nov	30	(Sat)	05:57	06:20	112	11:57	53S	17:34	248	17:58
2024	Dec	01	(Sun)	05:58	06:21	113	11:58	52S	17:35	247	17:58
2024	Dec	02	(Mon)	05:58	06:22	113	11:58	52S	17:35	247	17:58
2024	Dec	03	(Tue)	05:59	06:22	113	11:59	52S	17:35	247	17:58
2024	Dec	04	(Wed)	06:00	06:23	113	11:59	52S	17:35	247	17:58
2024	Dec	05	(Thu)	06:00	06:23	113	11:59	52S	17:35	247	17:59
2024	Dec	06	(Fri)	06:01	06:24	113	12:00	52S	17:36	247	17:59
2024	Dec	07	(Sat)	06:01	06:25	113	12:00	52S	17:36	247	17:59
2024	Dec	08	(Sun)	06:02	06:25	113	12:01	52S	17:36	246	18:00
2024	Dec	09	(Mon)	06:02	06:26	114	12:01	51S	17:37	246	18:00
2024	Dec	10	(Tue)	06:03	06:26	114	12:02	51S	17:37	246	18:00
2024	Dec	11	(Wed)	06:03	06:27	114	12:02	51S	17:37	246	18:01
2024	Dec	12	(Thu)	06:04	06:27	114	12:03	51S	17:38	246	18:01
2024	Dec	13	(Fri)	06:05	06:28	114	12:03	51S	17:38	246	18:01
2024	Dec	14	(Sat)	06:05	06:29	114	12:03	51S	17:38	246	18:02
2024	Dec	15	(Sun)	06:06	06:29	114	12:04	51S	17:39	246	18:02
2024	Dec	16	(Mon)	06:06	06:30	114	12:04	51S	17:39	246	18:03
2024	Dec	17	(Tue)	06:07	06:30	114	12:05	51S	17:40	246	18:03
2024	Dec	18	(Wed)	06:07	06:31	114	12:05	51S	17:40	246	18:04
2024	Dec	19	(Thu)	06:08	06:31	114	12:06	51S	17:41	246	18:04
2024	Dec	20	(Fri)	06:08	06:32	114	12:06	51S	17:41	246	18:05
2024	Dec	21	(Sat)	06:09	06:32	114	12:07	51S	17:42	246	18:05
2024	Dec	22	(Sun)	06:09	06:33	114	12:07	51S	17:42	246	18:06
2024	Dec	23	(Mon)	06:10	06:33	114	12:08	51S	17:43	246	18:06
2024	Dec	24	(Tue)	06:10	06:34	114	12:08	51S	17:43	246	18:07
2024	Dec	25	(Wed)	06:11	06:34	114	12:09	51S	17:44	246	18:07
2024	Dec	26	(Thu)	06:11	06:35	114	12:09	51S	17:44	246	18:08
2024	Dec	27	(Fri)	06:12	06:35	114	12:10	51S	17:45	246	18:08
2024	Dec	28	(Sat)	06:12	06:36	114	12:10	51S	17:45	246	18:09
2024	Dec	29	(Sun)	06:12	06:36	114	12:11	51S	17:46	246	18:09
2024	Dec	30	(Mon)	06:13	06:36	114	12:11	51S	17:46	246	18:10
2024	Dec	31	(Tue)	06:13	06:37	114	12:12	51S	17:47	246	18:10

Moon

Khon Kaen

Location: E102°48'32.3", N16°23'06.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Rise Az.			Transit Alt.			Set Az.		
	h	m	°	h	m	°	h	m	°
2024 Jan 01 (Mon)	22:19	80		04:00	88S		10:24	282	
2024 Jan 02 (Tue)	23:05	86		04:40	82S		10:57	277	
2024 Jan 03 (Wed)	23:51	92		05:19	76S		11:29	271	
2024 Jan 04 (Thu)				05:58	70S		12:02	265	
2024 Jan 05 (Fri)	00:38	98		06:39	65S		12:36	259	
2024 Jan 06 (Sat)	01:28	104		07:22	59S		13:12	253	
2024 Jan 07 (Sun)	02:20	110		08:08	54S		13:53	248	
2024 Jan 08 (Mon)	03:17	114		09:00	50S		14:41	244	
2024 Jan 09 (Tue)	04:18	118		09:57	47S		15:35	241	
2024 Jan 10 (Wed)	05:21	119		10:59	45S		16:36	240	
2024 Jan 11 (Thu)	06:24	119		12:02	46S		17:42	242	
2024 Jan 12 (Fri)	07:24	117		13:05	49S		18:49	245	
2024 Jan 13 (Sat)	08:18	112		14:05	54S		19:55	251	
2024 Jan 14 (Sun)	09:07	106		15:00	60S		20:57	257	
2024 Jan 15 (Mon)	09:50	99		15:51	67S		21:57	264	
2024 Jan 16 (Tue)	10:31	92		16:40	74S		22:54	272	
2024 Jan 17 (Wed)	11:11	85		17:28	81S		23:50	279	
2024 Jan 18 (Thu)	11:50	78		18:16	87S				
2024 Jan 19 (Fri)	12:32	72		19:06	88N		00:46	285	
2024 Jan 20 (Sat)	13:16	67		19:57	84N		01:43	291	
2024 Jan 21 (Sun)	14:04	63		20:51	81N		02:41	295	
2024 Jan 22 (Mon)	14:56	61		21:46	79N		03:40	298	
2024 Jan 23 (Tue)	15:50	61		22:41	79N		04:37	299	

2024	Jan	24	(Wed)	16:46	62	23:35	80N	05:31	299
2024	Jan	25	(Thu)	17:41	64			06:21	297
2024	Jan	26	(Fri)	18:35	68	00:25	83N	07:06	294
2024	Jan	27	(Sat)	19:25	73	01:12	87N	07:46	289
2024	Jan	28	(Sun)	20:14	78	01:56	89S	08:23	284
2024	Jan	29	(Mon)	21:00	84	02:37	84S	08:57	279
2024	Jan	30	(Tue)	21:46	90	03:16	78S	09:29	273
2024	Jan	31	(Wed)	22:32	96	03:55	72S	10:01	267
2024	Feb	01	(Thu)	23:20	102	04:34	67S	10:34	261
2024	Feb	02	(Fri)			05:15	61S	11:08	255
2024	Feb	03	(Sat)	00:10	108	05:59	56S	11:46	250
2024	Feb	04	(Sun)	01:03	112	06:47	51S	12:29	246
2024	Feb	05	(Mon)	02:00	116	07:40	48S	13:19	242
2024	Feb	06	(Tue)	03:01	119	08:39	46S	14:15	240
2024	Feb	07	(Wed)	04:04	120	09:41	45S	15:18	241
2024	Feb	08	(Thu)	05:05	118	10:44	47S	16:25	243
2024	Feb	09	(Fri)	06:02	115	11:46	51S	17:32	248
2024	Feb	10	(Sat)	06:54	109	12:44	57S	18:38	254
2024	Feb	11	(Sun)	07:41	103	13:39	64S	19:41	261
2024	Feb	12	(Mon)	08:25	95	14:31	71S	20:41	269
2024	Feb	13	(Tue)	09:06	88	15:21	78S	21:40	276
2024	Feb	14	(Wed)	09:47	80	16:10	85S	22:38	283
2024	Feb	15	(Thu)	10:29	74	17:01	90N	23:36	289
2024	Feb	16	(Fri)	11:14	68	17:53	85N		
2024	Feb	17	(Sat)	12:01	64	18:47	81N	00:36	294
2024	Feb	18	(Sun)	12:52	61	19:42	79N	01:35	298
2024	Feb	19	(Mon)	13:46	60	20:37	79N	02:33	299
2024	Feb	20	(Tue)	14:41	61	21:31	80N	03:28	299
2024	Feb	21	(Wed)	15:36	63	22:22	82N	04:18	298
2024	Feb	22	(Thu)	16:30	67	23:09	86N	05:04	295
2024	Feb	23	(Fri)	17:21	71	23:54	90N	05:46	291
2024	Feb	24	(Sat)	18:10	77			06:23	286
2024	Feb	25	(Sun)	18:57	82	00:35	86S	06:58	281
2024	Feb	26	(Mon)	19:43	88	01:15	80S	07:30	275
2024	Feb	27	(Tue)	20:29	94	01:54	74S	08:02	269
2024	Feb	28	(Wed)	21:15	100	02:33	68S	08:34	263
2024	Feb	29	(Thu)	22:04	106	03:13	63S	09:08	257
2024	Mar	01	(Fri)	22:55	111	03:56	57S	09:44	252
2024	Mar	02	(Sat)	23:50	115	04:41	53S	10:24	247
2024	Mar	03	(Sun)			05:31	49S	11:10	243
2024	Mar	04	(Mon)	00:48	118	06:25	46S	12:02	241
2024	Mar	05	(Tue)	01:48	120	07:24	45S	13:00	240
2024	Mar	06	(Wed)	02:48	119	08:25	46S	14:03	242
2024	Mar	07	(Thu)	03:45	117	09:26	49S	15:09	245
2024	Mar	08	(Fri)	04:39	112	10:25	54S	16:14	250
2024	Mar	09	(Sat)	05:28	106	11:21	60S	17:18	257
2024	Mar	10	(Sun)	06:13	99	12:15	67S	18:20	265
2024	Mar	11	(Mon)	06:56	92	13:06	74S	19:21	272
2024	Mar	12	(Tue)	07:38	84	13:58	82S	20:22	280
2024	Mar	13	(Wed)	08:21	77	14:49	89S	21:22	287
2024	Mar	14	(Thu)	09:06	70	15:43	87N	22:24	293
2024	Mar	15	(Fri)	09:54	65	16:38	82N	23:25	297
2024	Mar	16	(Sat)	10:45	62	17:35	79N		
2024	Mar	17	(Sun)	11:40	60	18:31	78N	00:25	299
2024	Mar	18	(Mon)	12:35	60	19:26	79N	01:23	300
2024	Mar	19	(Tue)	13:31	62	20:18	81N	02:15	299
2024	Mar	20	(Wed)	14:25	65	21:07	84N	03:03	296
2024	Mar	21	(Thu)	15:17	70	21:52	89N	03:46	292
2024	Mar	22	(Fri)	16:06	75	22:35	88S	04:24	288
2024	Mar	23	(Sat)	16:54	80	23:15	82S	04:59	282
2024	Mar	24	(Sun)	17:40	86	23:54	76S	05:32	277
2024	Mar	25	(Mon)	18:26	92			06:04	271
2024	Mar	26	(Tue)	19:13	98	00:33	70S	06:36	265
2024	Mar	27	(Wed)	20:01	104	01:13	65S	07:09	259
2024	Mar	28	(Thu)	20:51	110	01:54	59S	07:45	253
2024	Mar	29	(Fri)	21:45	114	02:39	54S	08:24	248
2024	Mar	30	(Sat)	22:41	118	03:27	50S	09:07	244
2024	Mar	31	(Sun)	23:39	120	04:19	47S	09:56	241
2024	Apr	01	(Mon)			05:15	45S	10:51	240
2024	Apr	02	(Tue)	00:38	120	06:14	45S	11:50	241
2024	Apr	03	(Wed)	01:34	118	07:13	47S	12:53	243
2024	Apr	04	(Thu)	02:28	115	08:10	51S	13:56	248

2024 Apr 05 (Fri)	03:17 109	09:06 56S	14:59 253
2024 Apr 06 (Sat)	04:02 103	09:59 63S	16:00 260
2024 Apr 07 (Sun)	04:45 96	10:51 70S	17:00 268
2024 Apr 08 (Mon)	05:27 88	11:42 78S	18:01 276
2024 Apr 09 (Tue)	06:10 80	12:33 85S	19:02 283
2024 Apr 10 (Wed)	06:54 73	13:27 90N	20:04 290
2024 Apr 11 (Thu)	07:42 68	14:23 84N	21:08 295
2024 Apr 12 (Fri)	08:33 63	15:21 80N	22:11 298
2024 Apr 13 (Sat)	09:28 61	16:20 79N	23:12 300
2024 Apr 14 (Sun)	10:25 60	17:17 79N	
2024 Apr 15 (Mon)	11:23 61	18:12 80N	00:08 299
2024 Apr 16 (Tue)	12:19 64	19:03 83N	00:59 297
2024 Apr 17 (Wed)	13:12 68	19:49 87N	01:44 294
2024 Apr 18 (Thu)	14:02 73	20:33 89S	02:24 289
2024 Apr 19 (Fri)	14:50 78	21:14 84S	03:00 284
2024 Apr 20 (Sat)	15:37 84	21:53 78S	03:33 279
2024 Apr 21 (Sun)	16:23 90	22:32 72S	04:06 273
2024 Apr 22 (Mon)	17:09 96	23:11 67S	04:38 267
2024 Apr 23 (Tue)	17:57 102	23:53 61S	05:10 261
2024 Apr 24 (Wed)	18:47 108		05:45 255
2024 Apr 25 (Thu)	19:40 113	00:36 56S	06:23 250
2024 Apr 26 (Fri)	20:36 117	01:24 51S	07:05 245
2024 Apr 27 (Sat)	21:34 119	02:15 48S	07:53 242
2024 Apr 28 (Sun)	22:32 120	03:10 46S	08:46 240
2024 Apr 29 (Mon)	23:29 119	04:08 45S	09:44 240
2024 Apr 30 (Tue)		05:06 47S	10:45 242
2024 May 01 (Wed)	00:23 116	06:03 50S	11:47 246
2024 May 02 (Thu)	01:12 111	06:58 54S	12:48 251
2024 May 03 (Fri)	01:57 106	07:50 60S	13:47 258
2024 May 04 (Sat)	02:39 99	08:40 67S	14:46 265
2024 May 05 (Sun)	03:20 91	09:30 74S	15:44 272
2024 May 06 (Mon)	04:01 84	10:20 82S	16:43 280
2024 May 07 (Tue)	04:43 77	11:11 89S	17:44 287
2024 May 08 (Wed)	05:29 70	12:06 87N	18:47 293
2024 May 09 (Thu)	06:18 65	13:03 82N	19:51 297
2024 May 10 (Fri)	07:13 62	14:03 79N	20:55 299
2024 May 11 (Sat)	08:10 60	15:03 78N	21:55 300
2024 May 12 (Sun)	09:09 61	16:00 79N	22:49 298
2024 May 13 (Mon)	10:07 63	16:54 82N	23:38 295
2024 May 14 (Tue)	11:03 66	17:43 86N	
2024 May 15 (Wed)	11:55 71	18:29 90N	00:20 291
2024 May 16 (Thu)	12:45 76	19:11 86S	00:58 286
2024 May 17 (Fri)	13:32 82	19:51 80S	01:33 281
2024 May 18 (Sat)	14:18 88	20:29 75S	02:06 275
2024 May 19 (Sun)	15:04 94	21:09 69S	02:38 269
2024 May 20 (Mon)	15:51 100	21:49 63S	03:10 263
2024 May 21 (Tue)	16:40 106	22:32 57S	03:44 257
2024 May 22 (Wed)	17:33 111	23:19 53S	04:21 252
2024 May 23 (Thu)	18:28 115		05:02 247
2024 May 24 (Fri)	19:26 118	00:09 49S	05:48 243
2024 May 25 (Sat)	20:26 120	01:04 46S	06:41 241
2024 May 26 (Sun)	21:24 119	02:02 45S	07:38 240
2024 May 27 (Mon)	22:19 117	03:01 46S	08:39 242
2024 May 28 (Tue)	23:10 113	03:59 49S	09:41 245
2024 May 29 (Wed)	23:55 107	04:54 53S	10:42 250
2024 May 30 (Thu)		05:47 59S	11:41 256
2024 May 31 (Fri)	00:38 101	06:36 65S	12:39 262
2024 Jun 01 (Sat)	01:18 94	07:24 72S	13:35 270
2024 Jun 02 (Sun)	01:57 87	08:12 79S	14:32 277
2024 Jun 03 (Mon)	02:37 80	09:02 86S	15:30 284
2024 Jun 04 (Tue)	03:20 73	09:54 89N	16:31 290
2024 Jun 05 (Wed)	04:07 67	10:49 84N	17:34 295
2024 Jun 06 (Thu)	04:59 63	11:47 80N	18:37 298
2024 Jun 07 (Fri)	05:55 61	12:47 79N	19:39 300
2024 Jun 08 (Sat)	06:54 60	13:46 79N	20:37 299
2024 Jun 09 (Sun)	07:53 62	14:42 81N	21:29 297
2024 Jun 10 (Mon)	08:51 65	15:34 84N	22:14 293
2024 Jun 11 (Tue)	09:46 69	16:22 88N	22:55 288
2024 Jun 12 (Wed)	10:37 74	17:06 88S	23:31 283
2024 Jun 13 (Thu)	11:25 80	17:47 83S	
2024 Jun 14 (Fri)	12:12 86	18:26 77S	00:04 277
2024 Jun 15 (Sat)	12:57 92	19:05 71S	00:37 271

2024 Jun 16 (Sun)	13:44 98	19:44 65S	01:08 265
2024 Jun 17 (Mon)	14:32 104	20:26 60S	01:42 259
2024 Jun 18 (Tue)	15:23 109	21:11 54S	02:17 254
2024 Jun 19 (Wed)	16:17 114	22:00 50S	02:56 249
2024 Jun 20 (Thu)	17:15 117	22:54 47S	03:41 244
2024 Jun 21 (Fri)	18:15 119	23:51 45S	04:31 242
2024 Jun 22 (Sat)	19:15 120		05:27 240
2024 Jun 23 (Sun)	20:12 118	00:51 46S	06:29 241
2024 Jun 24 (Mon)	21:05 114	01:51 48S	07:32 244
2024 Jun 25 (Tue)	21:53 109	02:49 52S	08:35 248
2024 Jun 26 (Wed)	22:37 103	03:43 57S	09:36 254
2024 Jun 27 (Thu)	23:18 96	04:34 63S	10:34 261
2024 Jun 28 (Fri)	23:57 89	05:22 70S	11:31 268
2024 Jun 29 (Sat)		06:10 77S	12:27 275
2024 Jun 30 (Sun)	00:37 82	06:58 84S	13:24 282
2024 Jul 01 (Mon)	01:18 75	07:48 90S	14:22 288
2024 Jul 02 (Tue)	02:02 69	08:41 86N	15:23 294
2024 Jul 03 (Wed)	02:51 64	09:36 82N	16:25 297
2024 Jul 04 (Thu)	03:44 62	10:35 79N	17:26 299
2024 Jul 05 (Fri)	04:41 60	11:33 79N	18:25 299
2024 Jul 06 (Sat)	05:40 61	12:31 80N	19:19 298
2024 Jul 07 (Sun)	06:39 64	13:25 83N	20:07 294
2024 Jul 08 (Mon)	07:35 67	14:14 87N	20:50 290
2024 Jul 09 (Tue)	08:28 72	15:00 90S	21:28 285
2024 Jul 10 (Wed)	09:18 78	15:42 85S	22:03 279
2024 Jul 11 (Thu)	10:05 84	16:22 79S	22:35 273
2024 Jul 12 (Fri)	10:51 90	17:01 73S	23:07 267
2024 Jul 13 (Sat)	11:37 96	17:40 67S	23:39 261
2024 Jul 14 (Sun)	12:24 102	18:20 62S	
2024 Jul 15 (Mon)	13:13 107	19:03 56S	00:13 256
2024 Jul 16 (Tue)	14:05 112	19:50 52S	00:50 251
2024 Jul 17 (Wed)	15:01 116	20:41 48S	01:32 246
2024 Jul 18 (Thu)	15:59 119	21:37 46S	02:19 243
2024 Jul 19 (Fri)	17:00 120	22:36 45S	03:13 241
2024 Jul 20 (Sat)	17:59 119	23:37 47S	04:13 240
2024 Jul 21 (Sun)	18:55 116		05:16 242
2024 Jul 22 (Mon)	19:47 111	00:37 50S	06:21 246
2024 Jul 23 (Tue)	20:33 105	01:34 55S	07:25 252
2024 Jul 24 (Wed)	21:16 98	02:27 61S	08:26 258
2024 Jul 25 (Thu)	21:56 91	03:18 68S	09:25 265
2024 Jul 26 (Fri)	22:36 83	04:07 75S	10:22 273
2024 Jul 27 (Sat)	23:17 77	04:56 82S	11:19 280
2024 Jul 28 (Sun)		05:45 89S	12:17 287
2024 Jul 29 (Mon)	00:01 70	06:37 87N	13:17 292
2024 Jul 30 (Tue)	00:48 66	07:31 82N	14:18 297
2024 Jul 31 (Wed)	01:39 62	08:28 80N	15:19 299
2024 Aug 01 (Thu)	02:34 60	09:26 78N	16:18 300
2024 Aug 02 (Fri)	03:32 61	10:23 79N	17:13 299
2024 Aug 03 (Sat)	04:30 62	11:17 81N	18:02 296
2024 Aug 04 (Sun)	05:26 66	12:08 85N	18:46 292
2024 Aug 05 (Mon)	06:20 70	12:55 90N	19:26 287
2024 Aug 06 (Tue)	07:11 76	13:38 87S	20:01 281
2024 Aug 07 (Wed)	07:59 81	14:19 81S	20:35 276
2024 Aug 08 (Thu)	08:46 87	14:58 75S	21:07 270
2024 Aug 09 (Fri)	09:31 94	15:37 69S	21:38 264
2024 Aug 10 (Sat)	10:18 99	16:16 64S	22:11 258
2024 Aug 11 (Sun)	11:05 105	16:57 58S	22:47 252
2024 Aug 12 (Mon)	11:55 110	17:42 53S	23:26 248
2024 Aug 13 (Tue)	12:48 115	18:30 49S	
2024 Aug 14 (Wed)	13:45 118	19:23 47S	00:09 244
2024 Aug 15 (Thu)	14:44 120	20:20 45S	00:59 241
2024 Aug 16 (Fri)	15:43 120	21:19 46S	01:55 240
2024 Aug 17 (Sat)	16:40 118	22:20 48S	02:57 241
2024 Aug 18 (Sun)	17:34 114	23:18 52S	04:01 244
2024 Aug 19 (Mon)	18:23 108		05:06 249
2024 Aug 20 (Tue)	19:09 101	00:14 58S	06:09 255
2024 Aug 21 (Wed)	19:51 94	01:07 65S	07:11 262
2024 Aug 22 (Thu)	20:32 86	01:59 72S	08:10 270
2024 Aug 23 (Fri)	21:14 79	02:49 80S	09:10 278
2024 Aug 24 (Sat)	21:58 72	03:39 87S	10:09 285
2024 Aug 25 (Sun)	22:44 67	04:32 88N	11:10 291
2024 Aug 26 (Mon)	23:35 63	05:26 84N	12:12 296

2024 Aug 27 (Tue)		06:23 80N	13:13 299
2024 Aug 28 (Wed)	00:29 61	07:21 78N	14:13 300
2024 Aug 29 (Thu)	01:26 60	08:18 79N	15:09 299
2024 Aug 30 (Fri)	02:24 62	09:13 80N	16:00 297
2024 Aug 31 (Sat)	03:21 65	10:04 84N	16:45 293
2024 Sep 01 (Sun)	04:15 69	10:52 88N	17:25 289
2024 Sep 02 (Mon)	05:06 74	11:36 89S	18:02 283
2024 Sep 03 (Tue)	05:55 79	12:17 83S	18:36 278
2024 Sep 04 (Wed)	06:42 85	12:57 77S	19:08 272
2024 Sep 05 (Thu)	07:28 91	13:35 71S	19:39 266
2024 Sep 06 (Fri)	08:14 98	14:14 65S	20:12 260
2024 Sep 07 (Sat)	09:00 103	14:55 60S	20:46 254
2024 Sep 08 (Sun)	09:49 109	15:37 55S	21:23 249
2024 Sep 09 (Mon)	10:40 113	16:23 51S	22:04 245
2024 Sep 10 (Tue)	11:35 117	17:13 47S	22:50 242
2024 Sep 11 (Wed)	12:31 119	18:07 45S	23:42 240
2024 Sep 12 (Thu)	13:29 120	19:04 45S	
2024 Sep 13 (Fri)	14:26 119	20:03 46S	00:40 240
2024 Sep 14 (Sat)	15:20 116	21:01 50S	01:42 242
2024 Sep 15 (Sun)	16:10 111	21:58 55S	02:45 246
2024 Sep 16 (Mon)	16:57 105	22:52 61S	03:48 252
2024 Sep 17 (Tue)	17:41 98	23:44 68S	04:50 258
2024 Sep 18 (Wed)	18:23 90		05:52 266
2024 Sep 19 (Thu)	19:06 82	00:36 76S	06:52 274
2024 Sep 20 (Fri)	19:50 75	01:27 84S	07:54 282
2024 Sep 21 (Sat)	20:37 69	02:21 90S	08:56 288
2024 Sep 22 (Sun)	21:28 64	03:16 85N	10:00 294
2024 Sep 23 (Mon)	22:23 61	04:14 81N	11:04 298
2024 Sep 24 (Tue)	23:20 60	05:14 79N	12:06 300
2024 Sep 25 (Wed)		06:13 78N	13:05 300
2024 Sep 26 (Thu)	00:19 61	07:09 80N	13:57 298
2024 Sep 27 (Fri)	01:16 63	08:02 82N	14:44 295
2024 Sep 28 (Sat)	02:11 67	08:50 86N	15:26 290
2024 Sep 29 (Sun)	03:03 72	09:35 90S	16:03 285
2024 Sep 30 (Mon)	03:52 77	10:17 85S	16:37 280
2024 Oct 01 (Tue)	04:39 83	10:56 79S	17:10 274
2024 Oct 02 (Wed)	05:25 89	11:35 73S	17:41 268
2024 Oct 03 (Thu)	06:11 96	12:14 67S	18:13 262
2024 Oct 04 (Fri)	06:57 101	12:54 62S	18:47 256
2024 Oct 05 (Sat)	07:46 107	13:36 56S	19:23 251
2024 Oct 06 (Sun)	08:36 112	14:20 52S	20:02 246
2024 Oct 07 (Mon)	09:29 116	15:09 48S	20:47 243
2024 Oct 08 (Tue)	10:24 119	16:01 46S	21:36 241
2024 Oct 09 (Wed)	11:20 120	16:55 45S	22:30 240
2024 Oct 10 (Thu)	12:16 120	17:52 46S	23:29 241
2024 Oct 11 (Fri)	13:10 117	18:48 48S	
2024 Oct 12 (Sat)	14:00 114	19:44 52S	00:29 244
2024 Oct 13 (Sun)	14:46 108	20:37 58S	01:31 249
2024 Oct 14 (Mon)	15:30 102	21:29 64S	02:31 255
2024 Oct 15 (Tue)	16:12 94	22:20 72S	03:31 262
2024 Oct 16 (Wed)	16:54 86	23:11 80S	04:31 270
2024 Oct 17 (Thu)	17:38 79		05:32 278
2024 Oct 18 (Fri)	18:24 72	00:04 87S	06:35 285
2024 Oct 19 (Sat)	19:14 66	00:59 88N	07:39 291
2024 Oct 20 (Sun)	20:09 62	01:58 83N	08:46 296
2024 Oct 21 (Mon)	21:08 60	02:59 80N	09:51 299
2024 Oct 22 (Tue)	22:08 60	04:01 78N	10:54 300
2024 Oct 23 (Wed)	23:08 62	05:00 79N	11:51 299
2024 Oct 24 (Thu)		05:56 81N	12:41 296
2024 Oct 25 (Fri)	00:05 66	06:47 85N	13:25 292
2024 Oct 26 (Sat)	00:59 70	07:33 90N	14:04 287
2024 Oct 27 (Sun)	01:49 76	08:16 87S	14:39 281
2024 Oct 28 (Mon)	02:36 81	08:56 81S	15:12 276
2024 Oct 29 (Tue)	03:22 87	09:35 75S	15:43 270
2024 Oct 30 (Wed)	04:08 94	10:13 69S	16:15 264
2024 Oct 31 (Thu)	04:54 100	10:53 63S	16:48 258
2024 Nov 01 (Fri)	05:42 105	11:34 58S	17:23 252
2024 Nov 02 (Sat)	06:32 110	12:18 53S	18:02 248
2024 Nov 03 (Sun)	07:25 115	13:06 49S	18:45 244
2024 Nov 04 (Mon)	08:19 118	13:57 47S	19:33 241
2024 Nov 05 (Tue)	09:16 120	14:51 45S	20:26 240
2024 Nov 06 (Wed)	10:11 120	15:47 45S	21:23 241

2024 Nov 07 (Thu)	11:05 118	16:42 47S	22:22 243
2024 Nov 08 (Fri)	11:55 115	17:37 51S	23:21 247
2024 Nov 09 (Sat)	12:41 110	18:29 56S	
2024 Nov 10 (Sun)	13:24 104	19:19 62S	00:20 252
2024 Nov 11 (Mon)	14:05 98	20:08 68S	01:17 259
2024 Nov 12 (Tue)	14:46 90	20:57 76S	02:15 266
2024 Nov 13 (Wed)	15:27 83	21:48 83S	03:13 274
2024 Nov 14 (Thu)	16:10 75	22:41 90S	04:13 281
2024 Nov 15 (Fri)	16:58 69	23:38 85N	05:16 288
2024 Nov 16 (Sat)	17:51 64		06:22 294
2024 Nov 17 (Sun)	18:50 61	00:39 81N	07:29 298
2024 Nov 18 (Mon)	19:51 60	01:42 79N	08:35 300
2024 Nov 19 (Tue)	20:53 61	02:44 78N	09:36 299
2024 Nov 20 (Wed)	21:53 64	03:44 80N	10:31 297
2024 Nov 21 (Thu)	22:50 69	04:38 83N	11:19 293
2024 Nov 22 (Fri)	23:42 74	05:27 88N	12:01 289
2024 Nov 23 (Sat)		06:12 88S	12:38 283
2024 Nov 24 (Sun)	00:31 79	06:54 83S	13:12 278
2024 Nov 25 (Mon)	01:18 85	07:33 77S	13:44 272
2024 Nov 26 (Tue)	02:04 91	08:12 71S	14:16 266
2024 Nov 27 (Wed)	02:50 97	08:51 65S	14:48 260
2024 Nov 28 (Thu)	03:37 103	09:31 60S	15:23 254
2024 Nov 29 (Fri)	04:26 109	10:15 55S	16:00 249
2024 Nov 30 (Sat)	05:18 113	11:01 51S	16:42 245
2024 Dec 01 (Sun)	06:13 117	11:52 47S	17:29 242
2024 Dec 02 (Mon)	07:09 119	12:46 46S	18:21 240
2024 Dec 03 (Tue)	08:06 120	13:42 45S	19:17 240
2024 Dec 04 (Wed)	09:01 119	14:38 47S	20:16 242
2024 Dec 05 (Thu)	09:52 116	15:33 50S	21:16 246
2024 Dec 06 (Fri)	10:40 112	16:25 54S	22:14 251
2024 Dec 07 (Sat)	11:23 106	17:15 60S	23:11 257
2024 Dec 08 (Sun)	12:03 100	18:03 66S	
2024 Dec 09 (Mon)	12:43 93	18:51 73S	00:07 264
2024 Dec 10 (Tue)	13:22 85	19:39 80S	01:03 271
2024 Dec 11 (Wed)	14:03 78	20:29 87S	02:00 278
2024 Dec 12 (Thu)	14:47 72	21:22 88N	02:59 285
2024 Dec 13 (Fri)	15:36 66	22:20 83N	04:02 291
2024 Dec 14 (Sat)	16:31 62	23:21 80N	05:07 296
2024 Dec 15 (Sun)	17:31 60		06:13 299
2024 Dec 16 (Mon)	18:34 61	00:24 78N	07:17 300
2024 Dec 17 (Tue)	19:36 63	01:26 79N	08:16 298
2024 Dec 18 (Wed)	20:36 67	02:24 82N	09:08 295
2024 Dec 19 (Thu)	21:31 72	03:17 86N	09:54 291
2024 Dec 20 (Fri)	22:23 77	04:04 91S	10:34 285
2024 Dec 21 (Sat)	23:11 83	04:48 85S	11:09 280
2024 Dec 22 (Sun)	23:58 89	05:29 79S	11:43 274
2024 Dec 23 (Mon)		06:08 73S	12:15 268
2024 Dec 24 (Tue)	00:44 95	06:47 67S	12:47 262
2024 Dec 25 (Wed)	01:30 101	07:27 62S	13:20 256
2024 Dec 26 (Thu)	02:18 107	08:09 57S	13:56 251
2024 Dec 27 (Fri)	03:09 112	08:54 52S	14:36 246
2024 Dec 28 (Sat)	04:03 116	09:43 48S	15:21 243
2024 Dec 29 (Sun)	04:59 118	10:36 46S	16:12 241
2024 Dec 30 (Mon)	05:56 120	11:32 45S	17:08 240
2024 Dec 31 (Tue)	06:53 119	12:30 46S	18:07 242